

**BHARAT HEAVY ELECTRICALS LIMITED ,
Heavy Electrical Equipment Plant
Ranipur, Haridwar – 249 403 (UK), India**



BHEL Tender Enquiry ref . B/4066/2024/4252/V1 for the requirement of HPT STEAM EVACUATION VALVE for Adani Raipur, Mirzapur, Kawai PH-II & III and Mahan Ph-III projects on GeM Portal

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**BHARAT HEAVY ELECTRICALS
LIMITED, HARIDWAR**

TURBINE LAYOUT GROUP

DOCUMENT NO.

TL-BOI-HPE-PQR-022

Dt:

12.03.2025

**Pre-Qualification Requirement (PQR) for
HPT Steam Evacuation Valve**

Description

The HPT Steam evacuation valve is used for evacuating the trapped steam in HP Turbine during turbine trip case. It is on/off & globe type valve. It is pneumatically operated very quick opening and closing type valve. Inlet of the valve is connected in turbine exhaust pipe and outlet of valve is connected to condenser which is under vacuum. The valve shall be designed for high steam flow to evacuate the steam in very less time for safety of Turbine.

The above valve should be very reliable and proven in design. It opens in sudden and allow required flow of steam under all given conditions.

Mandatory requirement for Pre-Qualification

1.0 Experience Requirement -

- i) Bidder⁵/bidder's principal should have successfully designed, manufactured, tested & supplied globe valve for steam application. Bidder should have supplied at least one (1) no. of valve in a power or process plant in last ten (10) years (from the date of issuance of enquiry) with following technical details –

Table-1

Sl. no.	Product features	Details
1.	Application	Steam
2.	Design Pressure	50 kg/cm ² & above
3.	Design Temperature	450 deg.C or above
4.	Actuator type	pneumatic
5.	Nominal Size	150 NB & above

⁵In case the bidder is a non-manufacturer/trader, valid authorization certificate from principal to be submitted along with offer.

2.0 Bidder to submit the following documents of supplied valves for the above mentioned successfully executed order satisfying clause. no.-1: -

- a) Un-Priced Purchase Orders executed for supply of at least one no. of globe valve.
- b) Approved GA drawing & data sheet of valve and test certificate for Material, Hydraulic, leakage / functional test for globe valve as per relevant standard for the PO submitted.

Worked by	ANIL KUMAR/DM-STE(TL) <i>Anil Kumar</i> 12/3/25	ANJANI KUMAR/Mgr -CIE <i>3</i> 12/3/25
Checked	---	NEERAJ KUMAR/SDGM-CIE <i>Neeraj</i> 12/3/25
Approved	ANUJ JAIN/SDGM-STE(TL) <i>Anuj Jain</i> 12/3/25	SASWATI SRIVASTAVA/AGM-CIE <i>Saswati</i> 12/3/25
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- c) Bidder to furnish dispatch documents with respect to above executed Purchase order
i.e. delivery challan/ tax invoice / inspection report / Lorry way bill .

TABLE-2: To be submitted filled by Bidder along with offer

Sl. no.	Description	Acceptance Criteria	Bidders response for Project Bidder to Tick applicable box.	Does Bidder meet PQR (Bidder to tick Yes or No)
1	Project name			
2	Whether Purchase Order No. and PO Date of last 10 years	Yes	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
3	Whether design, manufacturing, testing, supply was done by Bidder/its principal.	Yes	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
4	Whether application of valve as per sl. no. 1 of table-1	Yes	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
5	Whether design pressure of valve as per sl. no. 2 of table-1	Yes	Design pressure =bar (Bidder to fill)	Yes <input type="checkbox"/> No <input type="checkbox"/>
6	Whether design temperature of valve as per sl. no. 3 of table-1	Yes	Design temperature= ...deg.C (Bidder to fill)	Yes <input type="checkbox"/> No <input type="checkbox"/>
7	Whether Type of actuator is pneumatic as per sl. no. 4 of table-1	Yes	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
8	Whether nominal size of valve as per sl. no. 5 of table-1	Yes	Nominal size =mm (Bidder to fill)	Yes <input type="checkbox"/> No <input type="checkbox"/>
9	Contact details, Telephone no's & Email id of End user		Bidder to fill	

NOTE: -

- a) BHEL reserves the right to verify the information submitted by Bidder. BHEL may visit the factory premises of the Bidder for verification and other purposes submission of false/ incorrect information shall lead to rejection of offer.
- b) BHEL reserves the right to ask for more pertinent information /documents / clarifications.
- c) Bidder shall provide this information to BHEL in a timely manner so that project schedule does not hamper.

Worked by	ANIL KUMAR/DM-STE(TL) <i>Anil Kumar</i> 12/3/25	ANJANI KUMAR/Mgr -CIE <i>Anjani Kumar</i> 12.03.25
Checked	---	NEERAJ KUMAR/SDGM-CIE <i>Neeraj Kumar</i> 12.03.25
Approved	ANUJ JAIN/SDGM-STE(TL) <i>Anuj Jain</i> 12/3/25	SASWATI SRIVASTAVA/AGM-CIE <i>Saswati</i> 12.03.25
	STE-TL	CIE
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BUYERS SPECIFIC ADDITIONAL TERMS & CONDITIONS**ITEM NAME: HPT STEAM EVACUATION VALVE with its spares****PROJECT: ADANI RAIPUR, MIRZAPUR, KAWAI PH-II & KAWAI PH-III AND MAHAN PH-III****1. SCOPE OF ENQUIRY:**

E-bids on GeM portal are invited from bidders for the supply of **HPT STEAM EVACUATION VALVE with its spares** for ADANI RAIPUR, MIRZAPUR, KAWAI PH-II & KAWAI PH-III AND MAHAN PH-III as per requirement mentioned below:

ITEM-NO	MATERIAL CODE & ITEM DESCRIPTION	QTY.	UNIT	PROJECT	DATE FOR SUPPLY COMPLETION
1	W90313787034 DRG: 0 REV:00 HPT STEAM EVACUATION VALVE AS PER DOCUMENT NO. 413137V8005	1	SET	RAIPUR U-1	31-10-26
		1	SET	RAIPUR U-2	30-04-27
		1	SET	MIRZAPUR U-1	30-04-27
		1	SET	MIRZAPUR U-2	30-10-27
		1	SET	KAWAI PH-II, U-1	30-10-27
		1	SET	KAWAI PH-II, U-2	30-04-28
		1	SET	KAWAI PH-III, U-1	30-01-28
		1	SET	KAWAI PH-III, U-2	30-07-28
		1	SET	MAHAN PH-III, U-1	30-11-27
		1	SET	MAHAN PH-III, U-2	30-05-28
	Total qty	10	SET		
2	W93318102016 DRG: 41810221002 REV:00 LIMIT SWITCH(INDUCTIVE)	1	NO	RAIPUR Mand. Spares	30-06-27
		1	NO	Mirzapur Mand. Spares	30-11-27
		1	NO	Kawai Ph-II Mand. Spares	30-07-28
		1	NO	Kawai Ph-III Mand. Spares	30-10-28
		1	NO	MAHAN PH-III, Mand.spares	30-07-28
	Total qty	5	NO		
3	W99318102089 DRG: 41810221002 REV:00 SOLENOID VALVE OF HP RELIEF VALVE	1	NO	RAIPUR Mand. Spares	30-06-27
		1	NO	Mirzapur Mand. Spares	30-11-27
		1	NO	Kawai Ph-II Mand. Spares	30-07-28
		1	NO	Kawai Ph-III Mand. Spares	30-10-28
		1	NO	MAHAN PH-III, Mand.spares	30-07-28
		5	NO		

2. Project Detail:

1.Project Name	ITEMS TO BE DISPATCHED DIRECTLY TO 2X800 MW RAIPUR PROJECT
Consignee Address	Adani Power Limited Village: Raikheda Block: Tilda, Raipur 493225 Chhattisgarh

2. Project Name	ITEMS TO BE DISPATCHED DIRECTLY TO 2X800 MW MIRZAPUR PROJECT
Consignee Address	Mirzapur Thermal Energy (UP) Private Limited Village: Dadri Khurd; PO: Darhi Ram Tehsil: Sadar, District: Mirzapur 231 304 Uttar Pradesh
3. Project Name	ITEMS TO BE DISPATCHED DIRECTLY TO 2X800 MW KAWAI PH-II PROJECT
Consignee Address	Adani Power limited, Kawai, 2 x 800 MW(Phase-II) Thermal Power project, Village - Kawai, Tehsil - Atru, Baran -District, Rajasthan Pin-325219
4. Project Name	ITEMS TO BE DISPATCHED DIRECTLY TO 2X800 MW KAWAI PH-III PROJECT
Consignee Address	Adani Power limited, Kawai, 2 x 800 MW(Phase-II) Thermal Power project, Village - Kawai, Tehsil - Atru, Baran -District, Rajasthan Pin-325219
5. Project Name	ITEMS TO BE DISPATCHED DIRECTLY TO 2X800 MW MAHAN PH-III PROJECT
Consignee Address	Mahan Energen Limited. 2x800 MW (Phase-III) Thermal Power Project Village: Bandhaura, Karsulal Tehsil: Waidhan, District. Singrauli-486886 (Madhya Pradesh)

3.BUYERS SPECIFIC ADDITIONAL TERMS & CONDITIONS IN ADDITION TO GTC

Sl. No.	Terms	Description	Supplier confirmation
1.	Make in India Clause	<p>“For this procurement, the local content to categorize a supplier as a Class-I Local Supplier / Class-II Local Supplier/ Non-Local Supplier and purchase preference to Class-I Local Supplier, is as defined in Public Procurement (Preference to Make in India), Order-2017 Ref. No. P-45021/2/2017-PP (BE-II) dtd. 04/06/2020 issued by DPIIT. In case of subsequent orders issued, by the nodal ministry, changing the definition of local content for the items of this NIT, but before opening of Part-II bids against this NIT</p> <p>As per Make in India Order, only Class-I and Class-II local supplies are eligible to bid in this tender enquiry.</p> <p>For this eligibility criteria, bidders are required to submit certificate of Minimum local content as specified in the Make In India Declaration Certificate of the tender.</p>	
2.	Documents Checklist:	<p>Please submit signed and stamped copy of your offer on each page along with following documents;</p> <ul style="list-style-type: none"> Buyer Specific T&C. 	

		<ul style="list-style-type: none"> • Technical PQR & its supportive document. • Technical drawing & purchase specification. • Quality plan. • Certificate/self-certification for minimum local content as per PPP-MII order. • Replica of price bid schedule without prices with part-I offer. <p>Please note that technical documents shall be shared against submission of FCA (FCA copy enclosed) .</p>	
3.	Compliance of GTC on GeM	General Terms and Conditions on GeM 4.0 (Version 1.21) Dtd 18.01.2025 or it's latest revision of GeM portal shall be applicable against this enquiry. Kindly confirm to compliance the same for this tender.	
4.	Pre-Qualification Requirements	The Pre-Qualification Requirements have been compiled. All the bidders should ensure submission of complete details and documents as called for in these requirements. The Offers submitted by the bidders would be scrutinized with respect to Pre-Qualification Requirements first. Techno-Commercial offer of only those bidders shall be evaluated who meet the Pre-Qualification Requirements.	
5.	Procurement from Customer Approved / Accepted Vendors only	<p>Bidders are requested to submit their credentials along with offer (Credentials should include BHEL P.O.s on vendor for the same rating or higher rating turbines, Experience of vendor with state utilities and major PSU like NTPC, End User Certificate wherever available), in order to take up with end customer for approval</p> <p>Supplier to submit following credentials for arranging Customer approval:-</p> <ul style="list-style-type: none"> • Company Profile • List of Order Executed/ on hand for Power Sector/Gov. organization of same /similar items • Copy of Major Supply Orders • Performance Certificates for Satisfactory working of System/ Equipment from end users Item. <p>The offer of only those bidders, who meet Pre-qualification requirement (PQR), Technical requirement and approved by the End Customer, will be considered for price-bid opening & RA for the requirement against this enquiry.</p>	
6.	Compliance of Rule 144 (xi) of GFR 2017	Compliance of Restrictions under Rule 144 (xi) of GFR 2017 shall be as per GeM.	
7.	Bid validity/ Validity of offer	Please note that validity of the offer shall be 180 days from the date opening of Techno-Commercial bid (Part-I bid) on GeM portal. Offer of bidder's having validity less than 180 days shall liable to reject. Please confirm.	
		The required validity is considering that offer is complete & clear w.r.t. PQR and all techno-commercial conditions. Vendors need to extend their offer validity for the time taken by them in responding BHEL's comments/clarification sought during techno-commercial scrutiny of the offer. In case regret by any bidder for such validity extension, their offer shall liable to be reject. Please confirm.	
8.	Firm & Fixed Prices	Kindly confirm that prices will remain firm and fixed during the entire validity and execution of the project.	

9.	Prices/Basis of Quotation	Kindly confirm to quote your price inclusive of Packing, forwarding, Freight & GST for Total quantity on GeM portal.									
		Transit Insurance would be arranged by BHEL. Please quote your prices accordingly.									
		The prices are to be quoted on Ex-Works with freight Pre-paid up to project destination basis. The goods must be dispatched through any Bank approved transporters having their branch at Haridwar. The names and addresses of transporters approved by IBA as well as BHEL are posted at our website www.bhelhwr.co.in. Please note that, if you dispatch the material by any BHEL un-approved transporter then you will necessarily be required to furnish the MRC (Material Receipt Certificate) from respective Project Site for processing of your invoice. No demurrage charges would be borne by BHEL.									
10.	Loading and unloading	Vendor's scope will not cover Loading & Unloading at Final destination of delivery. Unloading at final destination (i.e. BHEL site) is in BHEL 'scope. Loading and unloading at other intermediate places due to any permitted transshipment will be the responsibility of the vendor. Kindly note									
11.	Evaluation criteria	Evaluation will be done on the basis of total landed cost to BHEL, taking all material codes and service together with total cost involved for delivery up to BHEL project sites (considering material cost, taxes & duties and Freight charges up to Project site).									
12.	Evaluation Currency	The evaluation currency for this tender shall be INR.									
13.	Payment terms:	<div>The payment shall be done after receipt of Material at BHEL respective project site, within no. of days as defined in the below table from the date of receipt of Material at site (i.e. MRC date).</div> <table><tr><th>Type of Bidder</th><th>Payment Terms (Number of Days)</th></tr><tr><td>Micro & Small Enterprises (MSEs)</td><td>45 days</td></tr><tr><td>Medium Enterprises</td><td>60 days</td></tr><tr><td>Non MSME</td><td>90 days</td></tr></table> <div>The Payment terms are subject to receipt of non-discrepant document from supplier.</div>	Type of Bidder	Payment Terms (Number of Days)	Micro & Small Enterprises (MSEs)	45 days	Medium Enterprises	60 days	Non MSME	90 days	
Type of Bidder	Payment Terms (Number of Days)										
Micro & Small Enterprises (MSEs)	45 days										
Medium Enterprises	60 days										
Non MSME	90 days										
14.	GeM charges	GeM charges if any shall be either side only i.e. buyer's GeM charges shall be in buyer's account and seller's GeM charges shall be on seller's account. Please confirm.									
15.	Reverse Auction	RA shall be done on GeM portal as per the guidelines & logics enabled on GeM portal.									
16.	Contract execution	Bidder's are advised to read GeM related query & clarification carefully on GeM portal. Order shall be executed through GeM.									
17.	Delivery Period	<div>Please note that BHEL's Delivery requirements are mentioned in point no 1 of above.</div> <div>Early delivery w.r.t. above lot delivery will be accepted only after written confirmation from BHEL. BHEL reserve right to reject early delivery request of bidders / suppliers.</div> <div>Delivery period indicated in GeM bid is only indicative and final delivery of tender shall be taken as mentioned above.</div> <div>Accordingly bidders to confirm the above deliveries or quote their best possible delivery in no of months / weeks from the date of placement of Purchase order, including all activities like document approval, inspection by TPI time etc.</div>									

18.	Liquidated Damages (LD) for late delivery	<p>Liquidated Damages shall be lot wise as per clause no. 15 (iii) of General terms and conditions on GeM 4.0 (Version 1.21) as under: kindly confirm. “If the Seller/Service Provider fails to deliver any or all of the Goods/Services within the original/re-fixed delivery period(s) specified in the contract, the Buyer will be entitled to deduct/recover the Liquidated Damages for the delay, unless covered under Force Majeure conditions aforesaid, @ 0.5% of the contract value of delayed quantity per week or part of the week of delayed period as pre-estimated damages not exceeding 10% of the contract value of delayed quantity without any controversy/dispute of any sort whatsoever”.</p> <p>The date of LR would be treated as the date of delivery for penalty purposes.</p>	
19.	Technical Requirement :	Kindly ensure completeness of your offer as per BHEL drg nos 413137V8005 , Doc. no. 41810221002 ,41313795102,413137W1101 413137V8100 & addendum-413137K1100	
20.	Technical Document/ Drawing approval conditions	<p>Drawings/Data sheets/documents/QAP etc. as called for in the specifications shall be submitted by Vendor for BHEL/ Customer approval within 30 days of purchase order. BHEL shall approve these drawings/data sheets/ documents / QAP etc. within 30 days of receipt.</p> <p>Any comments on the documents shall be given by BHEL within 7 days of submission and vendor shall submit revised document / reply to comments, within 7 days of BHEL comments. However, total time for Document submission and approval shall not exceed 30 days for respective party.</p> <p>Delivery is from the date of PO, accordingly, delay in submission / revision of the documents by the vendor will automatically account for to vendor. In case of delay on account of BHEL in comments / approval of the documents, the delivery shall be re-scheduled by the no of days taken by BHEL in excess to 30 days. For delay analysis cumulative no of days (including time taken in comments), shall be considered for delivery extension.</p>	
21.	PAINTING REQUIREMENTS	Kindly confirm the following painting requirement; Paint scheme of valve shall be as per document no Addendum-413137K1100.	
22.	Packing and Storage	<p>Kindly confirm the following packing instruction;</p> <p>a) ALL MANDATORY SPARES ITEMS SHOULD BE PACKED SEPARATELY WITH PROPER LABELLING LIKE ITEM.</p> <p>b) DESCRIPTION PO NO ETC IN SEPARATE GREEN COLOUR PAINTED WOODEN BOXES & "MANDATORY SPARES" SHOULD ME MENTIONED ON BOX.</p>	
23.	Action against Bidders / vendor / supplier / contractor in case of default:	<p>In order to protect the commercial interests of BHEL, BHEL shall take action against supplies / contractors by way of suspension of business dealings, who either fail to perform or are in default without any reasonable cause, cause loss of business/ money/ reputation, indulge in malpractices, cheating, bribery, fraud or any other misconduct or formation of cartels so as to influence the bidding process or influence the price etc.</p> <p>Suspension of Business Dealings could be in the form of “Hold” or “Banning” a supplier/ contractor or a bidder and shall be as per “Guidelines for Suspension of Business Dealings with Suppliers/ Contractors” available at BHEL’s website “https://www.bhel.com/guidelines-suspension-business-dealings-supplierscontractors”</p>	
24.	MDCC clause	Please note that, material shall be dispatched only after issue of Material dispatch clearance certificate (MDCC) from end customer. For issue of MDCC, vendors are required to submit all test certificates (TC) and	

		<p>inspection report of third party (IR) to BHEL. After review & acceptance of the quality document, BHEL will forward the same to end customer for issuance of MDCC.</p> <p>MDCC shall be issued within 7 days of receipt of complete quality documents / TCs,. In case of delay in issuance of MDCC, only delivery shall be extended by no of days taken by BHEL in excess to 7 days and all other terms and conditions of PO shall remains same & binding.</p> <p>In case any material is dispatched without MDCC and any loss is incurred by Supplier/Vendor for any reason whatsoever, BHEL shall not be responsible in any manner to compensate the supplier in this regard.</p> <p>Kindly confirm.</p>	
25.	Guarantee/Warranty clause	<p>Kindly confirm the following Guarantee/Warranty clause;</p> <ul style="list-style-type: none"> The supplier shall guarantee trouble free operation of the equipment for a period of 2 years after installation and commissioning or a period of 3 years from the date of dispatch of equipment whichever is earlier. In case of any failure or trouble reported from site, the supplier should depute their representative immediately to attend the problem and replace the defective component/part if required, without any additional cost to BHEL. <p>BHEL reserve the rights to reject/load the offers having lesser guarantee period as mentioned above.</p>	
26.	Order Acceptance :	Ink signed order acceptance shall be furnished within 15 days of order placement. In case, order acceptance is not received within 15 days of order placement, PO deemed to be accepted by you.	
27.	Beneficiary of PO	Kindly confirm on whom the PO will be placed in the event of ordering.	
28.	Additional Conditions for Assessment	<p>BHEL reserves the right to consider / Not-consider the offers based on the evaluation of documents submitted for the Pre-Qualification Criteria (PQR).</p> <p>BHEL also reserves the right to have on-site assessment of the facilities at supplier's works during the bid evaluation.</p>	
29.	O&M Manuals	<p>Kindly confirm that in the event of ordering O&M manuals will be provided in 07 nos. of Hard Copies and 02 CD ROMs / PEN DRIVE to BHEL Haridwar.</p> <p>Kindly note that your documents including O&M Manual shall bear the details as per cover page (Annexure-IV). Further the cover page of the O&M Manual shall be bilingual in Hindi & English Language.</p>	
30.	Quality Requirement	<p>Kindly confirm the follow quality requirement of the tender;</p> <ol style="list-style-type: none"> Kindly submit endorsed copy of customer approved quality plan (copy attached). Kindly specifically confirm to follow Customer approved QP. Inspection by BHEL nominated inspection agency QUEST and Customer as per Customer approved quality plan . For spare items, Inspection shall be done as per main customer approved QP. For the item not appearing in customer approved QP, TC/COC to be submitted. Kindly confirm that item shall be offered for witnessing in un-paint condition. Kindly confirm to attached customer approved C&I list for applicable for C&I items. Kindly confirm that paint material shall be procured from following 	

		<p>manufacturer: -</p> <ol style="list-style-type: none"> 1. Asian Paints India Ltd. 2. Shalimar Paints 3. Jotun 4. Akzonobel 5. Berger Paints 6. Good Lass Nerolac Paints 7. Bombay Paints 8. Jenson & Nicholson <p>a. C&I item area to procured from customer approved vendors only (Adani C&I customer approved vendor list is attached).</p>	
		<p>Inspection charges will be borne by BHEL. All coordination with third party inspection agency shall be done by the supplier only.</p> <p>Inspection call to third party inspection agency may be raised directly by the supplier; however 15 days are to be provided for deputation of representative of third party inspection agency for inspection.</p>	
31.	Dispatch documents	<p>Following dispatch documents to be provided immediately after directly dispatch to BHEL Project site for billing purpose:</p> <ul style="list-style-type: none"> • Guarantee/Warranty Certificates • E- Invoice and commercial inv • GeM invoice • Original consignee copies of GR/LR/RR (Material shall be dispatched on door delivery basis without consignee copy) • Packing list • Original GST compliance certificate • MRC/POD/Receipted LR/RR/GR copy (as per proof of delivery of material at BHEL Project site) 	
32.	BREACH OF CONTRACT, REMEDIES AND TERMINATION:	<p>The following shall amount to breach of contract:</p> <p>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.</p> <p>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.</p> <p>III. The Supplier/Vendor delivers equipment/ material not of the contracted quality.</p> <p>IV. The Supplier/Vendor fails to replace the defective equipment/ material/ component as per guarantee clause.</p> <p>V. Withdrawal from or abandonment of the work by the Supplier/Vendor before completion as per contract.</p> <p>VI. Assignment, transfer, subletting of Contract by the Supplier/Vendor</p>	

		<p>without BHEL's written permission resulting in termination of Contract or part thereof by BHEL.</p> <p>VII. Non-compliance to any contractual condition or any other default attributable to Supplier/Vendor.</p> <p>VIII. Any other reason(s) attributable to Vendor towards failure of performance of contract. In case of breach of contract, BHEL shall have the right to terminate the Purchase Order/ Contract either in whole or in part thereof without any compensation to the Supplier/Vendor.</p> <p>IX. Any of the declarations furnished by the contractor at the time of bidding and/ or entering into the contract for supply are found untruthful and such declarations were of a nature that could have resulted in non-award of contract to the contractor or could expose BHEL and/ or Owner to adverse consequences, financial or otherwise.</p> <p>X. Supplier/Vendor is convicted of any offence involving corrupt business practices, antinational activities or any such offence that compromises the business ethics of BHEL, in violation of the Integrity Pact entered into with BHEL has the potential to harm the overall business of BHEL/ Owner.</p> <p>Note-Once BHEL considers that a breach of contract has occurred on the part of Supplier/Vendor, BHEL shall notify the Supplier/Vendor by way of notice in this regard. Contractor shall be given an opportunity to rectify the reasons causing the breach of contract within a period of 14 days. In case the contractor fails to remedy the breach, as mentioned in the notice, to the satisfaction of BHEL, BHEL shall have the right to take recourse to any of the remedial actions available to it under the relevant provisions of contract.</p> <p>Remedies in case of Breach of Contract.</p> <p>i) Wherein the period as stipulated in the notice issued under above clause has expired and Supplier/Vendor has failed to remedy the breach, BHEL will have the right to terminate the contract on the ground of "Breach of Contract" without any further notice to contractor.</p> <p>ii) Upon termination of contract, BHEL shall be entitled to recover an amount equivalent to 10% of the Contract Value for the damages on account of breach of contract committed by the Supplier/Vendor. This amount shall be recovered by way of encashing the security instruments like performance bank guarantee etc available with BHEL against the said contract. In case the value of the security instruments available is less than 10% of the contract value, the balance amount shall be recovered from other financial remedies (i.e. available bills of the Supplier/Vendor, retention amount, from the money due to the Supplier/Vendor etc. with BHEL) or the other legal remedies shall be pursued.</p> <p>iii) wherever the value of security instruments like performance bank guarantee available with BHEL against the said contract is 10% of the contract value or more, such security instruments to the extent of 10% contract value will be encashed. In case no security instruments are available or the value of the security instruments available is less than 10% of the contract value, the 10% of the contract value or the balance amount, as the case may be, will be recovered in all or any of the following manners:</p> <p>iv) In case the amount recovered under sub clause (a) above is not sufficient to fulfil the amount recoverable then; a demand notice to deposit the balance amount within 30 days shall be issued to Supplier/Vendor.</p>	
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		<p>v) If Supplier/Vendor fails to deposit the balance amount within the period as prescribed in demand notice, following action shall be taken for recovery of the balance amount:</p> <p>a) from dues available in the form of Bills payable to defaulted Supplier/Vendor against the same contract.</p> <p>b) If it is not possible to recover the dues available from the same contract or dues are insufficient to meet the recoverable amount, balance amount shall be recovered from any money(s) payable to Supplier/Vendor under any contract with other Units of BHEL including recovery from security deposits or any other deposit available in the form of security instruments of any kind against Security deposit or EMD.</p> <p>vi) In-case recoveries are not possible with any of the above available options, Legal action shall be initiated for recovery against defaulted supplier/Vendor.</p> <p>vii) It is an agreed term of contract that this amount shall be a genuine pre-estimate of damages that BHEL would incur in completion of balance contractual obligation of the contract through any other agency and BHEL will not be required to furnish any other evidence to the Supplier/Vendor for the purpose of estimation of damages.</p> <p>viii) In addition to the above, imposition of liquidated damages, debarment, termination, de-scoping, short-closure, etc., shall be applied as per provisions of the contract.</p> <p>Note:</p> <p>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:</p> <p>(a) In case defaulted Supplier/Vendor is the Sole Proprietorship Firm, any Sole Proprietorship Firm owned by same Sole Proprietor.</p> <p>(b) In case defaulted Supplier/Vendor is The Partnership Firm, any firm comprising of same partners/ some of the same partners ; or sole proprietorship firm owned by any partner(s) as a sole proprietor.</p>	
33.	Suspension of Business Dealings with Suppliers / Contractors:	<p>The offers of the bidders who are under suspension as also the offers of the bidders, who engage the services of the banned firms / principal / agents, shall be rejected. The list of banned firms is available on BHEL web site www.bhel.com.</p> <p>If any bidder / supplier / contractor during pre-tendering / tendering / post tendering / award / execution / post-execution stage indulges in any act, including but not limited to, mal-practices, cheating, bribery, fraud or and other misconduct or formation of cartel so as to influence the bidding process or influence the price or tampers the tendering process or acts or omits in any manner which tantamount to an offence punishable under any provision of the Indian Penal Code, 1860(Bhartiya Nyaya Samhita 2023) or any other law in force in India, or does anything which is actionable under the Guidelines for Suspension of Business dealings, action may be taken against such bidder / supplier / contractor as per extant guidelines of the company available on www.bhel.com and / or under applicable legal provisions. Guidelines for suspension of business dealings is available in the webpage:</p>	

		http://www.bhel.com/vender_registration/vender.php	
34.	Settlement of Dispute, CONCILIATION & ARBITRATION	<p>Settlement of Dispute</p> <p>If any dispute or difference of any kind whatsoever shall arise between BHEL and the Supplier/Vendor, arising out of the contract for the performance of the work whether during the progress of contract termination, abandonment or breach of the contract, it shall in the first place referred to 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.</p> <p>CONCILIATION:</p> <p>Any dispute, difference or controversy of whatever nature howsoever arising under or out of or in relation to this Agreement (including its interpretation) between the Parties, and so notified in writing by either Party to the other Party (the "Dispute") shall, in the first instance, be attempted to be resolved amicably in accordance with the conciliation procedure as per BHEL Conciliation Scheme 2018. The proceedings of Conciliation shall broadly be governed by Part-III of the Arbitration and Conciliation Act 1996 or any statutory modification thereof and as provided in - "Procedure for conduct of conciliation proceedings" (as available in www.bhel.com).</p> <p>Note: Ministry of Finance has issued OM reference No. 1/2/24 dated 03.06.2024 regarding "Guidelines for Arbitration and Mediation in Contracts of Domestic Public Procurement. In the said OM it has been recommended that Government departments/ Entities/agencies are to encourage mediation under the Mediation Act. 2023. The said Act has not yet been notified by the Government. Therefore, the clause "Settlement of Disputes" shall be modified accordingly as and when the Mediation Act 2023 gets notified.</p> <p>ARBITRATION:</p> <p>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.</p>	

		<p>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.</p> <p>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.</p> <p>The fee and expenses shall be borne by the parties as per the Arbitral Institutional rules.</p> <p>The Arbitration proceedings shall be in English language and the seat and venue of Arbitration shall be at the court(s) of Haridwar.</p> <p>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.</p> <p>Notwithstanding any reference to the Designated Engineer or Conciliation or Arbitration herein, a. the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree. Settlement of Dispute clause cannot be invoked by the Contractor, if the Contract has been mutually closed or 'No Demand Certificate' has been furnished by the Contractor or any Settlement Agreement has been signed between the Employer and the Contractor.</p> <p>It is agreed that Mechanism of resolution of disputes through arbitration shall be available only in the cases where the value of the dispute is less than Rs. 10 Crores.</p> <p>In case the disputed amount Claim, Counter claim including interest is Rs. 10 crores and above, the parties shall be within their rights to take recourse to remedies other than Arbitration, as may be available to them under the applicable laws after prior intimation to the other party. Subject to the aforesaid conditions, provisions of the Arbitration and Conciliation Act, 1996 and any statutory modifications or re-enactment thereof as amended from time to time, shall apply to the arbitration proceedings under this clause.</p> <p>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</p>	
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		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.													
35.	CONFLICT OF INTEREST AMONG BIDDERS/ AGENTS	<p>A bidder shall not have conflict of interest with other bidders. Such conflict of interest can lead to anti-competitive practices to the detriment of Procuring Entity's interests. The bidder found to have a conflict of interest shall be disqualified. A bidder may be considered to have a conflict of interest with one or more parties in this bidding process, if:</p> <p>a) they have controlling partner (s) in common; or</p> <p>b) they receive or have received any direct or indirect subsidy/ financial stake from any of them; or</p> <p>c) they have the same legal representative/agent for purposes of this bid; or</p> <p>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</p> <p>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</p> <p>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:</p> <p>1. The principal manufacturer directly or through one Indian agent on his behalf; and</p> <p>2. Indian/foreign agent on behalf of only one principal, or</p> <p>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</p> <p>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. "</p>													
36.	MICRO AND SMALL ENTERPRISES (MSE):	<p>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.</p> <table border="1"> <thead> <tr> <th>Type under MSE</th><th>SC/ST owned</th><th>Women owned</th><th>Others (exclud SC/ ST & Wor Owned)</th></tr> </thead> <tbody> <tr> <td>Micro</td><td></td><td></td><td></td></tr> <tr> <td>Small</td><td></td><td></td><td></td></tr> </tbody> </table> <p>Note: If the bidder does not furnish the above, offer shall be processed construing that the bidder is not falling under MSE category.</p> <p>a) MSE suppliers can avail the intended benefits in respect of the procurements related to the Goods and Services only (Definition of</p>	Type under MSE	SC/ST owned	Women owned	Others (exclud SC/ ST & Wor Owned)	Micro				Small				
Type under MSE	SC/ST owned	Women owned	Others (exclud SC/ ST & Wor Owned)												
Micro															
Small															

		<p>Goods and Services as enumerated by Govt. of India vide Office Memorandum F. No. 21(8)/2011-MA dtd. 09/11/2016 office of AS & DC, MSME) only if they submit along with the offer, attested copies of either Udyam Registration. Date to be reckoned for determining the deemed validity will be the last date of Technical Bid submission. Non-submission of supporting document in GeM portal will lead to consideration of their bids at par with other bidders. No benefits shall be applicable for this enquiry if the above required documents are not uploaded at the time of bid submission. Documents submitted by the bidder shall be verified by BHEL for rendering the applicable benefits.</p>	
37.	JURISDICTION:	<p>This contract shall be governed by the Law for the time being in force in the Republic of India. Subject to clause(s) mentioned above of this contract, the Civil Court having original Civil Jurisdiction at Haridwar shall alone have exclusive jurisdiction in regard to all matters in respect of the Contract.</p>	
38.	Force Majeure	<p>"Force Majeure" shall mean circumstance which is: a) beyond control of either of the parties to contract, b) either of the parties could not reasonably have provided against the event before entering into the contract, c) having arisen, either of the parties could not reasonably have avoided or overcome, and d) is not substantially attributable to either of the parties And Prevents the performance of the contract, Such circumstances include but shall not be limited to: i) War, hostilities , invasion, act of foreign enemies. ii) Rebellion, terrorism, revolution, insurrection, military or usurped power, or civil war. iii) Riot, commotion or disorder by persons other than the contractor's personnel and other employees of the contractor and sub-contractors. iv) Strike or lockout not solely involving the contractor's personnel and other employees of the contractor and sub-contractors. v) Encountering munitions of war, explosive materials, ionizing radiation or contamination by radio-activity, except as may be attributable to the contractor's use of such munitions, explosives, radiation or radio- activity. vi) Natural catastrophes such as earthquake, tsunami, volcanic activity, hurricane or typhoon, flood, fire, cyclones etc. vii) Epidemic, pandemic etc.</p> <p>The following events are explicitly excluded from Force Majeure and are solely the responsibilities of the non-performing party: a) any strike, work-to-rule action, goslow or similar labour difficulty (b) late delivery of equipment or material (unless caused by Force Majeure event) and (c) economic hardship.</p> <p>If either party is prevented, hindered or delayed from or in performing any of its obligations under the Contract by an event of Force Majeure, then it shall notify the other in writing of the occurrence of such event and the circumstances thereof within 15 (fifteen) days after the occurrence of such event.</p> <p>The party who has given such notice shall be excused from the performance or punctual performance of its obligations under the Contract for so long as the relevant event of Force Majeure continues and to the extent that such party's performance is prevented, hindered or delayed. The Time for Completion shall be extended by a period of time equal to period of delay caused due to such Force Majeure event.</p>	

		<p>Delay or non-performance by either party hereto caused by the occurrence of any event of Force Majeure shall not</p> <p>i) Constitute a default or breach of the Contract. ii) Give rise to any claim for damages or additional cost expense occasioned thereby, if and to the extent that such delay or non-performance is caused by the occurrence of an event of Force Majeure.</p> <p>BHEL at its discretion may consider short closure of contract after 1 year of imposition of Force Majeure in line with extant guidelines. In any case, Supplier/Vendor cannot consider deemed short-closure after 1 year of imposition of Force Majeure</p>	
39.	Cartel Formation	<p>The Bidder declares that they will not enter into any illegal or undisclosed agreement or understanding, whether formal or informal with other Bidder(s). This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process. In case, the Bidder is found having indulged in above activities, suitable action shall be taken by BHEL as per extant policies/guidelines.</p>	
40.	Order of Precedence:	<p>In the event of any ambiguity or conflict between the Tender Documents, the order of precedence shall be in the order below:</p> <ol style="list-style-type: none"> Amendments/Clarifications/Corrigenda/Errata etc. issued in respect of the tender documents by BHEL. Buyer Added Bid Specific ATC GeM Bid Technical Conditions of Contract (TCC) GeM GTC 	

SPECIAL NOTE FOR BIDDERS:

- In the event of our customer order covering this tender being cancelled /placed on hold /otherwise modified, BHEL would be constrained to accordingly cancel / hold / modify the tender at any stage of execution.
- BHEL may negotiate the L1 rate, if not meeting our budget / estimated cost. BHEL may re-float the tender opened, if L1 price is not acceptable to BHEL even after negotiation.
- Any change in applicable rates of Tax or any other statutory levies (Direct / Indirect) or any new introduction of any levy by means of statute and its corresponding liability for the deliveries beyond the agreed delivery date for reasons not attributable to BHEL will be to vendors account. BHEL will not reimburse the same and any subsequent claim in this respect will be summarily rejected.
- BHEL reserves its right to reject an offer due to unsatisfactory past performance by the respective Vendor in the execution of any contract to any BHEL project / Unit.
- The offers of the bidders who are under suspension and also the offers of the bidders, who engage the services of the banned firms /principal/agents, shall be rejected. The list of banned firms is available on BHEL web site www.bhel.com.
- Recovery / deduction as applicable as per Direct and Indirect taxes as notified by Govt. Of India from time to time will be made and information/certificate for such deduction/recoveries shall be provided by BHEL to the vendor.
- If the delivery of supply as detailed above gets delayed beyond the delivery period, the Supplier/Vendor shall request for a delivery extension and BHEL at its discretion may extend the Contract. However, if any 'Delivery extension' is granted to the Supplier/Vendor for completion of supply, due to backlog attributable

to the Supplier/Vendor, then it shall be without prejudice to the rights of BHEL to impose LD for the delays attributable to the Supplier/Vendor.

- h. In case BHEL increase the quantity during currency of the contract in line with quantity variation clause of GeM bid, delivery extension on pro-rata basis shall be given for supply of these additional quantity.

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 submitted/uploaded along with offer on GeM portal against this bid.

1. Please submit replica of Price schedule (without prices) showing “quoted” in place of price along with techno-commercial bid (Part-I).
2. Please submit signed & Stamped copy (each page) of duly filled of confirmation column of “Buyers Specific Additional Terms & Conditions (ATC)” and its clause wise supporting documents where required.
3. Please submit signed & stamped copy (each page) for qualifying PQR with proper filled information and related supporting documents as mentioned in PQR.
4. Please submit signed & stamped copy (each page) of QAP No. QA/EHA/001).
5. Please submit signed & stamped copy (each page) of Integrity Pact “AASSPIPR03 dtd 01/04/2022.
6. Please submit certificate of Minimum local content as specified in the Make In India Certificate of the tender.

ANNEXURE – 12

**DECLARATION REGARDING MINIMUM LOCAL CONTENT IN LINE WITH
REVISED PUBLIC PROCUREMENT (PREFERENCE TO MAKE IN INDIA), ORDER 2017 DATED 04TH
JUNE, 2020 AND SUBSEQUENT ORDER(S)**

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

To,

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

Dear Sir,

Sub: Declaration reg. minimum local content in line with Public Procurement (Preference to Make in India), Order 2017-Revision, dated 04th June, 2020 and subsequent order(s).

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

We hereby certify that the items/works/services offered by..... *(specify the name of the organization here)* has a local content of _____ % and this meets the local content requirement for **'Class-I local supplier' / 'Class II local supplier'** ** as defined in Public Procurement (Preference to Make in India), Order 2017-Revision dated 04.06.2020 issued by DPIIT and subsequent order(s).

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

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

Thanking you,
Yours faithfully,

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

** - Strike out whichever is not applicable.

Note:

Framework Confidentiality Agreement cum Undertaking

This Agreement made on this the _____ day of (month) _____ 20____
("Effective Date") by and between
M/s BHARAT HEAVY ELECTRICALS LIMITED, having registered office at "BHEL
House", Siri Fort, New Delhi – 110049 (India), acting through its _____ Unit
(hereinafter may be referred to as "BHEL" or "the Company").

And

M/s _____ (address) _____
represented by authorized representative Sri _____ (herein after
referred to as the "Supplier").

The Supplier and the Company may, unless the context otherwise requires, hereinafter be
collectively referred to as "Parties" or singly as the "Party".

RECITALS

Whereas, BHEL is engaged in the design, engineering, manufacturing, construction, testing,
commissioning and servicing of a wide range of products, systems and services for the core
sectors of the economy, viz. Power, Transmission, Industry, Transportation, Renewable
energy, Oil & Gas and Defence and providing associated services to varied customers in
relation to which BHEL/its affiliates own valuable information of a secret and confidential
nature.

Whereas the Company may, in connection with Contract(s) (as defined hereunder) placed or
to be placed upon the Supplier, or otherwise, from time to time, make available, Technical
Information as is defined hereunder.

And Whereas BHEL is willing to provide such Technical Information to the Supplier from
time to time and the Supplier understands and acknowledges that such Technical Information
is valuable for the Company and as such is willing to protect confidentiality of such
information, subject to the terms and conditions set out hereunder.

Now therefore, in view of the foregoing premises and in consideration of the mutual
covenants and agreements hereinafter set forth, the Parties agree as under:

1. Definitions:

Unless the context so requires, in this Agreement, the following terms will bear the meaning
ascribed to the said term in this clause.

- A. **"Contract"** means the Contract entered into with a Supplier and includes a Purchase
Order, or a Work Order for procurement of any goods or for provision of any services.
- B. **"Effective Date"** means the date of this Agreement as mentioned in the preamble of
this Agreement.

- C. **“Supplier”** includes a Contractor or a Vendor of the Company whether for supplying of goods or for providing any services under a Contract or both.
 - D. **“Technical Information”** includes Drawings, and/or Product Standards and/or Specifications and/or Corporate / Plant Specifications and/or Technological Process Sheets and/or Technical Data Sheets and/or Jigs & Fixtures and/or Pattern & Dies and/or Special Gauges and/or Tools etc. belonging to or wherein the Company has acquired from a third party a right of user and includes any improvement thereto from time to time whether carried out by the Company or by the Supplier.
 - E. **“Intended Purpose”** means the purpose for which the Technical Information is provided to the Supplier under or in connection with a Contract.
 - F. **“Improvement”** includes any modification made to, or adaptation of, the Technical Information which enhances or is calculated to enhance the performance (whether in terms of effectiveness or in terms of efficiency or both) of the product and/or the service to be provided by the Supplier under a Contract.
2. This Agreement shall come into force/deemed to have come into force, as the case may be, on the Effective Date; or, on the first date when the Technical Information or any part thereof is provided by BHEL to the Supplier; whichever is earlier.
3. **Agreement deemed to be incorporated in each Contract:** Unless and to the extent otherwise stipulated in the Contract, the conditions of this Agreement are deemed to be incorporated in all Contracts which may be entered into between the Company and the Supplier. Further, unless otherwise stipulated, the obligations under this Agreement are and will be independent of the obligations under the Contracts and such obligations of the Supplier hereunder will remain of full effect and validity notwithstanding that the period of validity of the Contracts has expired by efflux of time stipulated therein; or, the contract has been discharged by performance or breach; or, the termination of the Contracts for any reason whatsoever.
4. **Ownership:**
- 4.1 The Company may, from time to time, make available to the Supplier, Technical Information on a non-exclusive basis by way of loan.
- 4.2 The Supplier acknowledges and agrees that all Technical Information and copies thereof that are or may be provided by the Company to the Supplier, are and shall remain the property of BHEL or that of the concerned entity from whom BHEL has obtained the Technical Information and such Technical Information are and shall constitute trade secrets of the BHEL. Nothing in this Agreement or in any disclosures made hereunder by or on behalf of the Company shall be construed as granting upon the Supplier any patent, copyright or design or any other intellectual property rights of whatsoever description that subsists or may hereinafter exist in the Technical Information. Furthermore, nothing in this Agreement or in any disclosures made hereunder by or on behalf of the Company shall be construed as granting upon the Supplier any license or rights of use of such patent, copyright or design or any other

intellectual property rights of whatsoever description which may now or hereafter exist in the Technical Information except for use of the Technical Information strictly in accordance with this Agreement and the Contract and/or as directed in writing by the Company, solely for the Intended Purpose under the Contract.

4.3 Neither Party is obligated by or under this Agreement to purchase from or provide to the other Party any service or product and that any such purchase/sale of any product and/or service by one Party to the other Party will be governed by the Contract if any, that may be entered into by and between the Company and the Supplier.

4.4 The Supplier is/has been made well aware and acknowledges that the Technical Information being/which may be shared with it by the Company has been either generated by the Company by incurring huge investment and cost or obtained from foreign collaborators under Technical Collaboration Agreement (TCA) with stringent confidentiality conditions.

4.5 The Supplier agrees and undertakes to adhere to confidentiality requirements as applicable to BHEL under a TCA and also ensure that the confidentiality requirements are adhered to by all its concerned employees or sub-contractors/suppliers (where permitted to be engaged by BHEL). Any damages, losses, expenses of any description whatsoever, arising out of or in connection with a breach of the confidentiality requirements under a TCA owing to any act or omission on the part of the Supplier or its employees or sub-contractors/suppliers that is claimed by a foreign collaborator from the Company shall be wholly borne by the Supplier and it shall keep BHEL fully indemnified in this behalf. The demand by the Company shall be conclusive upon the Supplier who shall thereupon forthwith pay to the Company without demur, dispute or delay the amount as demanded without demanding any further proof thereof.

4.6 The Supplier agrees and undertakes that unless so decided and advised by the Company in writing all rights/title to any Improvement to the Technical Information shall vest in the Company. The Supplier undertakes and agrees to inform forthwith to the Company of any such Improvement made to the Technical Information and transfer all drawings/documents or other materials connected with such Improvement to the Company and also agrees to fully cooperate with the Company for protecting the Company's interests in such Improvement in the Technical Information including but not limited to obtaining necessary protection for the intellectual property rights in such improvement, if so desired by the Company. If a question arises whether a modification amounts to Improvement to the Technical Information, the same shall be decided by the Company and such decision shall be final and binding upon the Supplier.

5. Use and Non-Disclosure:

5.1 Unless otherwise stipulated by the Company, all Technical Information made available to the Supplier, by the Company shall be treated as Confidential irrespective of whether the same is marked or otherwise denoted to be Confidential or not.

- 5.2 The Supplier undertakes and agrees that the Technical Information in its possession shall be held in strict confidence and will be used strictly in accordance with this Agreement and solely for the Intended Purpose under the Contract. Use of the Technical Information for any other purpose other than Intended Purpose is prohibited.
- 5.3 In particular, the Supplier shall not use Technical Information or any Improvement in its possession for the manufacture or procurement of the Product(s) or components or parts thereof or use the Technical Information or any portion thereof or any modification or adaptation thereof in any form to provide any product and/or service to any third party, without the prior written consent of the Company.
- 5.4 The Supplier shall not disclose any of such Technical Information to any third party without the prior written consent of the Company. The Supplier agrees that without prior written consent of the Company, the Supplier shall not disclose to a third party about the existence of this Agreement, or of the fact that it is/was in possession of or has experience in the use of any Technical Information nor shall the Supplier share in any manner whatsoever, with a third party, the name or details of any Contract(s) awarded by the Company to it or performed by the Supplier or the scope of work thereof or share any document or correspondence by and between the Company and the Supplier in or in connection with this Agreement or such Contract(s). Notwithstanding what is stated elsewhere, the overall responsibility of any breach of the confidentiality provisions under this Agreement shall rest with the Supplier.
- 5.5 The Supplier undertakes and agrees not to make copies or extracts of and not to disclose to others any or all of the Technical Information in its possession, except as follows:
- (a) The Supplier may disclose the Technical Information to such of its officers and employees strictly to the extent as is necessary for such officer or employee for the Intended Purpose, provided that the Confidential Information (or copies thereof) disclosed shall be marked clearly as the confidential and proprietary information of Company and that such officers and employees shall similarly be bound by undertakings of confidence, restricted use and non-disclosure in respect of the Technical Information. The Supplier shall be responsible for any breach of such confidentiality provisions by such officers and employees.
 - (b) With the prior written consent of Company, the Supplier may disclose for the Intended Purpose such Technical Information as is provided for in such consent to such of its professional advisers: consultants, insurers and subcontractors who shall be similarly bound by undertakings of confidence, restricted use and non-disclosure in respect of such Technical Information.
 - (c) The Supplier shall not be prevented to make any disclosure required by (i) order of a court of competent jurisdiction or (ii) any competent regulatory authority or agency where such disclosure is required by law, provided that where the Supplier

intends to make such disclosure, it shall first consult Company and take all reasonable steps requested by it to minimize the extent of the Technical Information disclosed and to make such disclosure in confidence and also shall cooperate with the Company in seeking any protective order or any other remedy from proper authority in this matter.

6. Exceptions:

The obligations of the Supplier pursuant to the provisions of this agreement shall not apply to any Confidential Information that:

- a) was/is known to, or in the possession of the Supplier prior to disclosure thereof by the Company;
- b) is or becomes publicly known, otherwise than as a result of a breach of this agreement by the Supplier.
- c) is developed independently of the Disclosing Party by the Supplier in circumstances that do not amount to a breach of the provisions of this Agreement or the Contract;
- d) is received from a third party in circumstances that do not result in a breach of the provisions of this Agreement.

7. The obligation of maintaining confidentiality of the Technical Information on each occasion, shall subsist for the entire duration during which the Technical Information / equipment is in possession of the Supplier and shall thereafter subsist for a further period of --- years from the date when the complete Technical Information has been returned to the Company and if Technical Information has been returned in portions on different dates then, the period of ---- years will be reckoned from the date when the last portion of the Technical Information has been returned. Notwithstanding the expiry of the confidentiality obligation, the obligation of the Supplier under clause 5.4 shall continue to subsist for a further period of ----- years.

8. Warranties & Undertakings:

- a) The Supplier undertakes to ensure the due observance of the undertakings of confidence, restricted use and non-disclosure by its persons to whom it discloses or releases copies or extracts of the Technical Information.
- b) The Supplier shall keep the Technical Information or improvement made therein properly segregated and not mix up the same with any other material/documents belonging to him/it or to any other third party.
- c) The Supplier further undertakes that he/it shall not hypothecate or give on lease or otherwise alienate or do away with any of the Technical Information and/or equipment of the Company, made available to him/it, and undertakes that he/it shall hold the same as a trustee, in capacity of custodian thereof and use/utilise the same solely for the purpose of executing the Contract awarded by the Company.
- d) The Supplier further undertakes that he/it shall return all the equipment and/or Technical Information as far as practicable in the same condition in which the same was made available to him/it by the Company together with any Improvement thereon and the documents connected with such Improvement, to the Company forthwith upon completion of the scope

of work or Contract for which such Technical Information was provided by the Company to it or as directed by the Company together with a confirmation by way of an affidavit or in such manner as directed by the Company that it has not retained any equipment and/or Technical Information/Improvement thereof. In case any such equipment and/or Technical Information or Improvement thereof shall remain in his possession or is not capable of being returned, the retention and use of such Technical Information or Improvement thereto shall continue to be governed by this Agreement.

e) The Supplier undertakes to indemnify the Company for all the direct, indirect and/or consequential losses, damages, expenses whatsoever including any consequential loss of business, profits suffered by the Company owing to breach by the Supplier of its obligations under this Agreement and/or the confidentiality requirements, if any, contained in the Contract and that the Supplier hereby agrees that the decision of the Company in all such or any such matter/s shall be final and binding on the Supplier. On mere written demand of the Company, the Supplier shall forthwith and without demur or delay pay to the Company any such sum as determined by the Company as the amount of loss or damage or expense which has been suffered by the Company. The Supplier agrees that the Company shall be entitled to withhold and appropriate any amount payable to the Supplier under any Contract then existing between the Company and the Supplier, in case the Supplier fails to make payment, in terms of the written demand, within 7 days thereof. Without prejudice to the foregoing actions, in respect to any breach of this Agreement, the Company shall be entitled to take any other action against the Supplier as per applicable laws, the Contract, Company's applicable policies, guidelines rules, procedures, etc.

9. Without prejudice to any other mode of recovery as may be available to the Company for recovery of the amount determined as due as per Clause 8(e) hereinabove, the Company shall have a right to withhold, recover and appropriate the amount due towards such losses, damages, expenses, from any amount due to the Supplier in respect of any other Contract (s) placed on him/it by any department/office/Unit/Division of the said Company.

10. Arbitration & Conciliation:

a) In case amicable settlement is not reached between the Parties, in respect of any dispute or

difference or claim or controversy arising out of the formation, breach, termination, validity or execution of the Contract(or Agreement) 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, then, either Party may, by a notice in writing to the other Party refer such dispute or difference or controversy or claim, (except as to any matters, the decision of which is specifically provided for therein) to the sole arbitration by the arbitrator appointed by Head/In-Charge of the Unit/Division/Region.

b) The Arbitrator shall pass a reasoned award and the award of the Arbitrator shall be final and binding upon the parties to the dispute.

c) Subject as aforesaid, the provisions of Arbitration and Conciliation Act 1996 (India), or other statutory modifications or re enactments thereof and the rules made thereunder and for

the time being in force shall apply to the arbitration proceedings under this clause. The seat of arbitration shall be at ----- **(Insert the name of the city/town of the concerned BHEL Unit/Division).**

d) In case of Contract with Public Sector Enterprise (PSE) or a Government Department, the following shall be applicable:

In the event of any dispute or difference relating to the interpretation and application of the provisions of the Contract, such dispute or difference shall be referred to by either party to the arbitration of one of the arbitrators in the department of public enterprises to be nominated by the Secretary to the Government of India in-charge of the Department of Public Enterprises. The Arbitration and Conciliation Act, 1996 shall not be applicable to arbitration under this clause. The award of the arbitrator shall be binding upon the parties to the dispute, provided, however, any party aggrieved by such award may make further reference for setting aside or revision of the award to the Law Secretary, Department of Legal Affairs, Ministry of Law and Justice, Government of India. Upon such reference the dispute shall be decided by the Law Secretary or the Special Secretary or Additional Secretary when so authorized by the Law Secretary, whose decision shall bind the parties hereto finally and conclusively.

e) Notwithstanding the existence or any dispute or differences and/or reference for the arbitration, the Supplier shall proceed with and continue without hindrance the performance of its obligations under this Contract with due diligence and expedition in a professional manner.

11. Governing Law & Jurisdiction:

This Agreement shall be governed by and be construed as per applicable Indian Laws in force at the relevant time.

Subject to clauses 10(a) and 10(d) hereinabove, all matters in connection with the subject agreement shall be subject to exclusive jurisdiction of Courts situated at -----**(insert the name of the place where the BHEL Unit/Division is located)**

SIGNATURE

WITNESSES

1.

Name

Address:

2.

Name:

Address:

MANUFACTURER'S NAME AND ADDRESS			STANDARD QUALITY PLAN				TO BE FILLED BY SHELL		TO BE FILLED BY SHELL					
SHELL	VENDOR'S NAME	ITEM	HP RELIEF VALVE		QIP NO.	QA BE QIP 116								
		DWG. NO.	AS PER PO		DATED	100213								
		SPEC.	AS PER PO											
		REV.	00											
						Page 1 of 2								
SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORDS	AGENCY			REMARKS		
1	2	3	4	5	6	7	8	9	D	M	B	N	10	11

1.0- RAW MATERIALS & BOUGHT OUT ITEMS

1.1	Body and Bonnet	Physical & Chemical Properties	MA	Physical & Chemical Examination	One per lot	SHELL, Approved Data Sheet	SHELL, Approved Data Sheet	Test Certificate	✓	P	V	V	
1.3		Heat Treatment	MA	Verification	One per lot	SHELL, Approved Data Sheet	SHELL, Approved Data Sheet	Test Certificate	✓	P	V	V	
1.3		Visual Examination	MA	Visual Examination	100%	SHELL, Approved Data Sheet	SHELL, Approved Data Sheet	Test Certificate	✓	P	V	V	
1.4		Internal Soundness	CR	Magnagraph Test	100% on CA	ASME Sec V	ASME B 1034 Appendix I	Test Certificate	✓	P	V	V	
1.5		Sub surface inspection	CR	Magneto particle test	100% on bonnet area	ASME Sec V	ASME B 1034 Appendix II	Test Certificate	✓	P	V	V	
1.6		Trim (Plug Seat Ring & Stem)	MA	Physical & Chemical Examination	One per lot	SHELL, Approved Data Sheet	SHELL, Approved Data Sheet	Test Certificate	✓	P	V	V	
1.7	Pressure Resisting Fasteners	Physical & Chemical Properties	MA	Physical & Chemical Examination	One per lot	SHELL, Approved Data Sheet	SHELL, Approved Data Sheet	Test Certificate	✓	P	V	V	
1.8	Accessories	Visual	MA	Visual Model Verification	100%	SHELL, Approved Data Sheet	SHELL, Approved Data Sheet	Compliance Certificate	✓	P	V	V	

2.0- IN PROCESS INSPECTION

2.1	Body, Bonnet, Plug, Seat Rings after machining	Dimensional Check	MA	Measurement	100%	SHELL, Approved Data Sheet/Drawing	SHELL, Approved Data Sheet/Drawing	IR	✓	P	V	V	
2.2	Body & Bonnet	Pressure Resistance	CR	Hydro Test	100%	ASME B 1034/ SHELL, Approved Data Sheet	No Leak	IR	✓	P	V	V	
2.3	Plug & Seat Contact	Blue match	MA	Plug & Seat Contact	100%	SHELL, Approved Data Sheet	Full face contact	IR	✓	P	V	V	

MANUFACTURER/SUBCONTRACTOR	Digitally signed by  Date: 2020.05.12 08:02:28 +05'30'	LEGEND: 1. RECORDS IDENTIFIED WITH 'TICK' SHALL BE ESSENTIALLY INCLUDED BY CONTRACTOR IN QA DOCUMENTATION M: MANUFACTURER / SUBCONTRACTOR B: SHELL / NOM. INSPECTION AGENCY N: CUSTOMER INDICATE 'P' FOR FORM 'W' WITNESS AND 'V' VERIFICATION ALL 'W' INDICATED IN COLUMN 'N' SHALL BE 'CWP' OF CUSTOMER	FOR CUSTOMER USE:	APPROVED BY: 

Karan Sehgal
Karan Sehgal
Manager, QAC

Mahan Energen Ltd.
12/05/2020


MANUFACTURER'S NAME AND ADDRESS			STANDARD QUALITY PLAN				TO BE FILLED BY BH&L		TO BE FILLED BY BH&L				
BH&L	VENDOR'S NAME	ITEM	HP/RELIEF VALVE		QIP NO.	QA/BI QIP 116							
				DATED	16/02/13								
		DRG. NO.	AS PER PO										
		SPEC.	AS PER PO										
		REV	00				Page 2 of 2						
SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORDS	AGENCY			REMARKS	
1	2	3	4	5	6	7	8	9	D	M	S	N	11

1.0-FINAL INSPECTION & TESTING

3.1	Performance Test on Assembled valve fitted with Accessories	Hydra Test	CR	Hydra Test	100%	BH&L, Approved Data Sheet/Drawing	BH&L, Approved Data Sheet/Drawing	Test Certificate	x	P	W	W	
3.2		Seat Leak Test	CR	Leak Test	100%	BH&L, Approved Data Sheet/Drawing	BH&L, Approved Data Sheet/Drawing	Test Certificate	x	P	W	W	
3.3		Performance test of Valve	CR	Calibration against Test, make, Working Limit	100%	BH&L, Approved Data Sheet	BH&L, Approved Data Sheet	Test Certificate	x	P	W	W	
3.4		Packing Tightness	CR	Packing Load Test	100%	BH&L, Approved Data Sheet	BH&L, Approved Data Sheet	Test Certificate	x	P	W	W	
3.5		Control Valve Flow Capacity	CR	Capacity Test	One / Type	BH&L Approved Data Sheet/NA 11.02	Full Capacity	Test Certificate	x	P	W	W	
3.6		Model Verification of Actuator and positioner	MA	Visual	100%	BH&L Approved Data Sheet	BH&L, Approved Data Sheet	Test Certificate	x	P	W	W	

4.0 PAINTING, PRESERVATION & PACKING

4.1	Final Inspection	Dimension & Visual	MA	Overall Dimension & Visual	100%	App QA Drawing	App QA Drawing	Test Certificate	-	P	W	W	
4.2	Painting	Paint finish color shade	MA	Visual DFT Measurement	100%	Purchase Specification	Purchase Specification	-	-	P	V	V	
4.3	Assembled Valve Completeness	Marking/Name Plate & Tagging	MA	Marking/Name Plate & Tagging	100%	BH&L, Approved Data Sheet	BH&L, Approved Data Sheet	-	-	P	W	V	
4.4	Packing	Packing List, Safety	MA	Verification	100%	Customer Spec	Customer Spec	-	x	P	V	V	

MANUFACTURER/SUBCONTRACTOR	Digitally signed by Kamal Sehgal (Mailbox) Date: 2013.03.13 08:16:40 +05'30'	LEGEND: I: RECORDS IDENTIFIED WITH 'TICK' SHALL BE ESSENTIALLY INCLUDED BY CONTRACTOR IN QA DOCUMENTATION. M: MANUFACTURER / SUBCONTRACTOR B: BH&L / NOM. INSPECTION AGENCY N: CUSTOMER INDICATE 'P' PERFORM 'W' WITNESS AND 'V' VERIFICATION ALL 'W' INDICATED IN COLUMN 'N' SHALL BE 'CP' OF CUSTOMER	FOR CUSTOMER USE	APPROVED BY 

Kamal Sehgal
Kamal Sehgal
Manager, Q&A


47	COAL MASS FLOW MONITOR	DADE TECH	CHINA		
		ABB	INDIA		
		EUTECH SCIENTIFIC ENGG GMBH	GERMANY		
		TRANSWEING	INDIA		
		GREEN BANK ENERGY SYSTEM	UK		
		BERTHOLD TECHNOLOGIES	GERMANY		
48	COMMERCIAL GRADE WORK STATION PC / LAPTOP	DELL		#refer note	
		HP			
		LENOVO			
49	CONDUTIVITY ANALYSER	ABB		BOP BOUGHT OUTS	
		HACH ULTRA			
		POLYMETRON			
		YOKOGAWA			
		EMERSON PROCESS MANAGEMENT			
50	CONTACTORS	TELEMECHANIQUE		#refer note	
		SIEMENS			
		ABB			
		L & T			
		JYOTI			
		CHNT (Zhengjiang Chint)	China		
51	CONTROL PANEL	PROCON INST LTD		#refer note	
		POSITRONICS	VADODARA		
		RITTAL	BANGALORE		
		PYROTECH	UDAIPUR		
		Shanghai Institute of Process Automation Instrumentation	China		
		Beijing Far East Instrument Co., Ltd.	China		
		Xi'an Xingyi Control System Co.,Ltd.	China		
52	COPPER TUBE	ALCOBEX, JODH PUR		NOT IN SCOPE	
		ASSOCIATED CABLES LTD			
		AUTO CLAVE ENGINEERS FLUID COMPONENTS USA			
		EXCELL HYDRO			
		PNEUMATIC PVT LTD MUMBAI			
		MULTI METALS KOTA			
		PLACKA INSTRUMENTS & CONTROLS			
		SWAGELOK			
		Jiangxi Copper Corporation	CHINA		
53	CONTINUOUS EMISSION MONITORING SYSTEM - CEMS (SOX/NOX/CO/C O ₂ /O ₂ /MERCURY/NH ₃ AND DUST/SPM/FLOW/PRESSURE/TEMPERATURE/MOISTURE)	FORBES MARSHALL		BOP BOUGHT OUTS	
		YOKOGAWA			
		CHEMTROL			
		ABB			
		DURAG			
		ADAGE AUTOMATION			
		EMERSON			
		LAND COMBUSTION			
		TELEDYNE			
		QINGDAO YIJIEHONGLI TECHNOLOGY CO. LTD	CHINA		
		CHONGQING ANALYZER CO. LTD	CHINA		
		CODEL	UK		
54	DDCMIS (DCS SYSTEM)	EMERSON		BHEL Mfd.	
		YOKOGAWA			
		SCHNEIDER (FORMERLY KNOWN AS INVENSYS)			
		SIEMENS			
		MHI -L&T			
		HONEYWELL			
		GE			
		MAXDNA / Valmet DNA			
		ABB			
55	CO ₂ ANALYSER	HACH ULTRA		BOP BOUGHT OUTS	
		EMERSON			
		POLYMETRON			
		YOKOGAWA			
		HONEYWELL			
		ABB			
56	DOT MATRIX PRINTERS	EPSON		BOP BOUGHT OUTS	
		TVS			
	ETHERNET SWITCHES / ETHERNET TO FIBER OPTIC CONVERTERS	CISCO		BOP BOUGHT OUTS	
		ARISTA			
		HIRSCHMANN			
		RUGGEDCOM			
		MOXA			

6 7	INTELLIGENT COMBUSTION OPTIMIZATION SYSTEM	ABB		BOP BOUGHT OUTS	
		TECHFAB			
		EMERSON			
		STEAG			
		SIEMENS			
		EUTECH GMBH			
6 8	INSTRUMENT JUNCTION BOXES	BALIGA LIGHTING EQUIPMENTS LTD.		BOP BOUGHT OUTS	
		CEAG FLAME PROOF CONTROL GEARS			
		FLEXPRO ELECTRICALS PVT LTD			
		RITTAL			
		PYROTECH	UDAIPUR		
		SAJAS	TRICHY		
		K.S. INDUSTRIES	BANGALORE		
		ELECTRO-MECHANICAL	KOLKATA		
		Sichuan Jiuzhou Wire and Cable Co.,	CHINA		
		Haian Sanxing Auto Instrument	CHINA		
		Chongqing Chuanyu Instrument	CHINA		
6 9	INTERPOSING RELAYS / RELAYS	JYOTI		#refer note	
		H & B			
		OMRON			
		TYCO			
		TELEMECHANIQUE			
		SIEMENS			
		ABB			
		UL			
		CELESTE			
		CHNT (Zhengjiang Chint)	CHINA		
		Kunming Zhanyuan Tech.	CHINA		
7 0	INSTRUMENT VALVE & MANIFOLDS	ASTEC INSTRUMENTS, MUMBAI		BOP BOUGHT OUTS	
		CHEMTROLS ENGG. PVT LTD			
		PRECISION ENGINEERING TECHNOMATIC			
		SWAGELOK			
		EXCEL HYDRO	MUMBAI		
		BALDOTA	MUMBAI		
		METPRESS	KOLKATA		
		ILP			
		AUR INC			
		BHEL	TRICHY		
		PARKER			
7 1	I/P CONVERTOR	EMERSON PROCESS MANAGEMENT		BOP BOUGHT OUTS	
		MOORE CONTROLS LTD (FM)			
		MTL			
		YOKOGAWA			
		FORBES MARSHALL			
		WATSON SMITH			
		SMC PNEUMATIC			
		FAIRCHILD	USA		
		STI			
		ABB			
7 2	LIMIT SWITCH	BCH	INDIA	#refer note	
		CHNT (Zhengjiang Chint)	CHINA		
		SCHNEIDER			
		OMRON			
		GOSWITCH/EMERSON			
7 3	LOCAL INSTRUMENT ENCLOSURE	CHEMIN CONTROLS AND INSTRUMENTATION LTD		BOP BOUGHT OUTS	
		PRAMMEN INDUSTRIES			
		PYROTECH ELECTRONICS P.LTD (UNIT-II)	UDAIPUR		
		SAJAS ELECTRICALS			
7 4	LOCAL INSTRUMENT NT RACK	CHEMIN CONTROLS AND INSTRUMENTATION LTD		BOP BOUGHT OUTS	
		PRAMMEN INDUSTRIES			
		PYROTECH ELECTRONICS P.LTD (UNIT-II)	UDAIPUR		
		SAJAS ELECTRICALS			
		SYSPRO AUTOMATION			
		Xi'an Xingyi Control System Co.,Ltd.	CHINA		
	MAGNETIC FLOW METERS	ABB		BOP BOUGHT OUTS	
		E&H			
		FORBES MARSHALL			
		YOKOGAWA			
		EMERSON			

7 6	MASS FLOW METER (CORIOLIS PRINCIPLE)	ABB		BOP BOUGHT OUTS	
		E&H			
		EMERSON PROCESS MANAGEMENT			
		FORBES MARSHALL			
		HONEYWELL LTD			
		YOKOGAWA			
		KROHNE	GERMANY		
7 7	MICROPROCESS OR BASED RECORDERS	ABB		BOP BOUGHT OUTS	
		CHINO-LAXSONS (INDIA) PVT LTD			
		HONEYWELL			
		GOSSEN			
		MASIBUS			
		YOKOGAWA			
7 8	ORP ANALYSER	HACH ULTRA		BOP BOUGHT OUTS	
		YOKOGAWA			
		HONEYWELL			
		EMERSON			
		ABB			
7 9	PADO	STEAG		BHEL Mfd.	
		HONEYWELL			
		INVENSYS			
		ABB			
		EMERSON			
8 0	PH ANALYSER	ABB		BOP BOUGHT OUTS	
		HACH ULTRA			
		POLYMETRON			
		YOKOGAWA			
		EMERSON PROCESS MANAGEMENT			
8 1	PROGRAMMABLE LOGIC CONTROLLER (PLC)	ABB	Not A	NOT IN SCOPE	
		GE			
		SIEMENS			
		SCHNEIDER			
		HONEYWELL			
		HOLLYSYS			
		ROCKWELL AUTOMATION			
8 2	PLC PANELS	GE	BANGALORE	NOT IN SCOPE	
		ABB	BANGALORE		
		SIEMENS	MUMBAI		
		L&T	MUMBAI		
		SCHNEIDER	DELHI		
		ROCKWELL AUTOMATION	SAHIBABAD		
		AMTECH ELECTRONICS INDIA LTD	GANDHINAGAR		
		The same brand as above	CHINA		
		Xi'an Xingyi Control System Co.,Ltd.	CHINA		
8 3	POSITION TRANSMITTER	HONEYWELL	UK/USA	BOP BOUGHT OUTS	
		ABB	GERMANY		
		DEA(Dongfang Electric Auto Control)	CHINA		
8 4	PRESSURE GAUGE / DP GAUGE	ASHCROFT		BOP BOUGHT OUTS	
		FORBES MARSHALL			
		GENERAL INST CONSORTIUM			
		WAAREE INSTRUMENTS LIMITED			
		WIKA INSTRUMENTS INDIA PVT. LTD.			
		FIEBIG MANOMETER (I) PVT. LTD			
		SWITZER INSTRUMENTS			
		A.N. INSTRUMENTS PVT LTD			
		H GURU INSTRUMENTS (SI) P. LTD			
		GOA THERMOSTATIC INSTRUMENTS PVT LTD.			
		BUDENBERG			
		PYRO ELECTRIC			
		GLUCK			
		PYRO ELECTRIC			
		Anhui Tiankang	CHINA		
		Chongqing Chuanyi Automation	CHINA		
		Shanghai Automation Instrumentation Co.Ltd	CHINA		
		Jiangshu Huibang Control System Co.,Ltd.	CHINA		
		BALIGA		BOP BOUGHT OUTS	
		OMRON			

SN	ITEM DESCRIPTION	VENDORS	Remarks
1	PRESSURE/D. P. / FLOW TRANSMITTERS	FUJI ELECTRIC, INDIA	Approved
2	JUNCTION BOX	EMECON CONTROLS PVT. LTD., NEW DELHI	Approved
		PYROTECH ELECTRONICS PVT LTD, UDAIPUR	Approved
		BCH ELECTRIC LIMITED, NEW DELHI	Approved
3	DC STARTER CONTROL PANEL	BCH ELECTRIC LTD., NEW DELHI	Approved
		PRIMA AUTOMATION (INDIA) PVT. LTD., GANDHI NAGAR	Approved
		COTMAC ELECTRONICS PVT. LTD., PUNE	Approved
		C&S ELECTRIC LTD., NOIDA	Approved
4	SOLENOID VALVES	BOSCH REXROTH (INDIA) PRIVATE, AHMEDABAD	Approved
		VOITH TURBO PRIVATE LIMITED, HYDERABAD	Approved
5	LIMIT SWITCHES	HONEYWELL AUTOMATION INDIA, GURGAON	Approved
		SIEMENS LIMITED, GURGAON	Approved
6	THERMOCOUPLE / RTD / THERMOWELL	EMERSON , DAMAN	Approved
		GIC (THERMAL INSTRUMENTS), MUMBAI	Approved
		GAUGE BOURDEN, PANWEL	Approved
		TOSHNIWAL INDUSTRIES PVT. LTD., AJMER	Approved
		WIKA, PUNE	Approved
7	LEVEL SWITCH (CAPACITANCE TYPE)	SIEMENS, GURGAON	Approved
		SBEM, PUNE	Approved
		NIVO CONTROLS, INDORE	Approved
		PUNE TECHTROL, PUNE	Approved
		CHEMTROLS, GOA	Approved
		SIGME INDUSTRIES, MUMBAI	Approved
8	LEVEL SWITCH (FLOAT/DISPLACER TYPE)	ENDRESS+HAUSER, GERMANY/AURANGABAD	Approved
		MAGNETROL, BELGIUM	Approved
		SBEM, PUNE	Approved
		NIVO CONTROLS, INDORE	Approved
		PUNE TECHTROL, PUNE	Approved
		LEVCON, KOLKATA	Approved
		SIEMENS, GURGAON	Approved
		CHEMTROLS, GOA	Approved
		SIGME INDUSTRIES, MUMBAI	Approved
9	PRESSURE / D. P. GAUGES	DRESSOR, USA/GERMANY	Approved
		SIEMENS, GURGAON	Details Required
		PRECISION MASS, GANDHINAGAR	Approved
		BAUMER, VAPI	Approved
10	TEMPERATURE GAUGES	H.GURU INSTRUMENTS (P) LTD., NEW DELHI	Approved
		TEMPSENS INSTRUMENTS (I) PVT., UDAIPUR	Approved
		PRECISION MASS PRODUCTS (P) LT, GANDHINAGAR	Approved
11	CONDUCTIVITY ANALYSER	FORBES MARSHALL, PUNE	Approved
		ABB, DEHRADUN	Approved

		HACH COMPANY, USA	Approved
12	LEVEL TRANSMITTER (RADAR TYPE)	VEGA INDIA LEVEL AND PRESSURE, PUNE	Approved
		V AUTOMAT, NEW DELHI	Approved
		HONEYWELL, GURGAON	Approved
13	PRESSURE/D.P. SWITCH	INDFOS, GHAZIABAD	Approved
		SIEMENS, INDIA	Details Required
		BAUMER TECHNOLOGIES, INDIA	Approved
14	LEVEL GAUGES	SBEM, PUNE	Approved
		SIEMENS, GURGAON	Details Required

<div></div>		VENDOR LIST NO.	REV.	VALID
		QA/VENDOR/MECH/001	0	TILL RELEASE OF NEXT REVISION
Section: Mechanical				
Approved Vendor List of Mechanical Items for Projects				
MECHANICAL VENDOR LIST				
Sl. No	Item Name	Vendor Name	Location	BHEL Remarks (Category) A. BHEL Mfg. / B. Raw Material C. BOP Bought Outs
1.	Steam Turbine & GSC	Shanghai Electric Group Co., Ltd.	China	BHEL
		Dongfang Electric Group Co., Ltd.	China	
		Toshiba	Japan/China	
		GE	WORLDWIDE	
		Harbin Electric Company Limited	China	
2.	BFP turbine	Dongfang Electric Group Co., Ltd.	China	BHEL
		DOOSAN	KOREAN	
		GE	CHINA	
		SIEMENS	GERMANY	
		TOSHIBA	INDIA	
		Harbin Electric Company Limited	China	
		Hangzhou Steam Turbine Co., Ltd.	China	
		Shanghai Electric Group Co., Ltd.	China	
3.	HP/LP heater	WUHAN DAFANG ELECTRONIC MACHINERY CO.,LTD	China	BHEL
		ALSTOM (GE)	INDIA	
		DONGFENG ELECTRIC CO	CHINA	
		BHEL	INDIA	
		L&T MHPS	INDIA	
		TOSHIBA CORPORATION	INDIA/CHINA	
		TEMA	INDIA	
		BHEL	INDIA	
		ISGEC	INDIA	
		GODREJ & BOYCE	INDIA	
		Shanghai Electric Group Co., Ltd.	China	
		Harbin Electric Company Limited	China	
		Hangzhou Boiler Group Co., Ltd.	China	
		4.	HP HEATER & LP HEATER TUBES AND U- BENDS	
VALINOX	FRANCE			
VALTIMATE	FRANCE			
DONGFANG BOILER GROUP CO., LTD.	CHINA			
5.	Boiler feed water pump including booster pump	Dongfang Turbine Co., Ltd	China	BHEL
		Hangzhou Steam Turbine Co., Ltd.	China	
		Power china SPEM Company Limited.	China	
		KSB Shanghai Pump Co. Ltd.	China	
		Sulzer Pumps (Suzhou) Ltd.	China	
		EBARA Machinery Zibo Co. Ltd.	China	
		Flowserve Flow Motion and Control (Suzhou) Co Ltd	China / India	
6.	Condensate Extraction Pump	Torishima Pump (Tianjin) Co. Ltd.	China	BHEL
		Shanghai KSB Pump Co. Ltd.	China	
		Sulzer Pumps (Suzhou) Ltd.	China	
		EBARA Machinery Zibo Co., Ltd.	China	
		Hunan XEMC Changsha Pump Works Co., Ltd.	China	
		XYLEM (CHINA) CO. LTD	China	
		LEO Group Pump (Hunan) Co., Ltd.	China	
		Torishima	Japan/China	
		Flow serve	India	
7.	HP/LP Bypass Valve	SEMPELL	Germany	LP Bypass valve-BOI. HP Bypass valve- BHEL
		Hora	Germany	
		CCI	Switzerland - (CCI- China-Not acceptable)	
		BOPP & REUTHER	Germany	
		Siemens	Germany	
8.	HP Feed Water/Main Steam/CRH/HRH Pipes	NHIC	China	# Refer Note
		Sumitomo	Japan	
		JFE	Japan	
		TANARIS	ITALY	
		VALLOUREC	Germany	
		BENTELER STEEL TUBE GMBH	GERMANY	
		ARCELOR MITTAL TUBULAR PRODUCTS	ROMANIA / S.A.	
		TUBOS REUNIDOS INDUSTRIAL S.L.U.	SPAIN	
		VALCOVNY TRUB CHOMUTOV	CZECH REPUBLIC	
		BAOSHAN IRON AND STEEL	China	
		CHANGZHOU CHANGBAO	China	
		YANGZHOU LONTRIN STEEL TUBE	China	
		WAYMAN GORDEN	USA	

		PRODUCTOS TUBULARES	SPAIN	
		EEW	Korea	
		EBK	Germany	
		HHI RB	Korea	
9.	Vacuum Pump	Gardner Denver Nash Machinery Ltd.	China	BOI
		Tsurumi Vacuum Engineering (Shanghai) Co., Ltd.	China	
		Edwards Technologies Trading (Shanghai) Co., Ltd.	China	
		Guangdong Kenflo Pump Co., Ltd.	China	
10.	CCCW water heat exchanger	Alfa Laval	China	BOI
		SONDEX	China	
		FLOWSERVE (SIHI) VACUUM PUMP	CHINA	
		STERLING	USA	
		GUANGDONG FOSHAN PUMP	CHINA	
		UNIQUE SYSTEM INCORPORATE	USA	
		TSURAMI MANUFACTURING CO LIMITED	JAPAN	
		JIEDINASHI MACHINERY CO., LTD.	WORLDWIDE	
		Tranter	China	
		SPX	China	
		GEA ECOFLEX China Co Ltd.-PHE	China	
11.	OCCW pump and CCCW pump	Guangzhou Xinheng Pump Manufacturing Co., Ltd.	China	
		Jiangsu Double-Wheel Pump Machinery Co., Ltd.	China	
		Andriz	China	
		Shanghai KSB Pump Co. Ltd.	China	
		Sulzer Pumps (Suzhou) Ltd.	China	
		Flowserve Flow Motion and Control (Suzhou) Co Ltd	China	
12	Rubber-ball cleaning system and motor drive	Dalian Songlone Pump Manufacturing Co., Ltd	China	
		Wuxi Hongxiang Power Auxiliary Equipment Co., Ltd.	China	
		JiangSu Power Equipment Co., Ltd	China	
		Shanghai Taprogge Water Tech Engineering Co Ltd	China	
		Jiangsu Zhongneng Power Equipment Co Ltd	China	
13	Oil purification device with oil tank and oil pump	Shanghai Taprogge Water Tech Engineering C	China	
		Jiangsu AET Technology & Engineering Co. Ltd.	China	
		Jiangsu Zhongneng Power Equipment Co., Ltd	China	
		Chengdu institute of pumps	China	
		Alfalaval	WORLDWIDE	
		Westfalia Saporator	WORLDWIDE	
14	Gate valve, NRV for Extraction (only for critical system)	SAMSHIN	Korea	BHEL
		VELAN	Canada	
		Weir	India/China	
		L&T Valves	India	
		BEHL	India	
		Emerson	ITALY	
		Sampell	Germany	
		KSB	CHINA	
		Pacific	USA	
		ADWARD	Singapore	
		HP/KVT	Korea/Neth erlands	
15	Drain valve(only for critical system)	LVF	ITALY	BHEL / BOI
		DOUGLAS	ITALY	
		GRV	Germany	
		HP/KVT	Korea/Neth erlands	
		VELAN	Canada	
16	Condensate Polishing Unit	Harbin boiler Co Ltd	China	BOI
		ION EXCHANGE INDIA LIMITED	INDIA	
		BGR ENERGY SYSTEM LIMITED	INDIA	
		VA TECH WABAG	INDIA	
		SPIC YUANDA ENVIRONMENTAL PROTECTION ENGINEERING CO. LTD.	China	
		JIANGSU DONGFANG WATER TREATMENT C O., LTD.	China	
		THERMAX	INDIA	
		Suzhou Dongfeng water Treatment co	China	
		Wuxi Power Aux co,China	China	
		Huadian Engg co	China	
		Nanjing CEC environment co	China	
17	Chemical dosing and Sampling System	Jiangsu Power Equipment Co., Ltd	China	BOI
		SUZHOUSAIHUA INSTRUMENT CONTROL CO.,LTD	China	
		Nanjing Guonengenviro-Protection Engineering Co., Ltd.	China	
		Jilin Grand Power Equipment Joint-stock Company	China	
		Suzhou Guoneng Electric Power Equipment Co.,Ltd	China	
18	CW PUMP	Shanghai KSB Pump Co., Ltd.	China	Not In Scope
		EBARA Machinery Zibo Co. Ltd.	China	
		Hitachi Pump Manufacturing (Wuxi) Co Ltd	China	
		ANDRITZ (China) Ltd.	China	
		Xylam	China	
		Sulzer Pumps	China	
		Flowserve	China/India	

19	Water Treatment Plant-De Mineralization Plant	Harbin boiler Co Ltd	China	Not In Scope
		Changzhou Jiangnan Environmental Engineering Co., Ltd.	China	
		Nanjing CEC Environment protection co ltd	China	
		China Huadian Engg. Co Ltd	China	
20	Waste water treatment plant	Jiangsu Tianma Environmental Protection Science and Technology Group Co., Ltd.	China	Not In Scope
		Nanjing Ease Environment Science and Technology co., LTD	China	
		Nanjing Guoneng Enviro-protection engineering Co., Ltd.	China	
21	Electro chlorination system	Sunrui Marine Environment Engineering Co., ltd.	China	Not In Scope
		Wuhan Xingda Technology Engineering Co., td.	China	
		Shanghai Sciyeer Water Sci.& Tech. Co., Ltd.	China	
		Jiangyin Hongrui Electrify Flange Co.,Ltd.	China	
22	HYDROGEN GENERATION Plant	China Shipbuilding Industry Corporation, No. 718 Institute	China	Not In Scope
		Suzhou Jingli Hydrogen Making Equipment Co., Ltd	China	
		Tianjin Mainland Hydrogen Making Equipment Co., Ltd.	China	
23	Induced Draft Cooling Tower	Jians Seagull Cooling Tower Co., Ltd	China	Not In Scope
		Enexio	China	
		Hamon Thermal (Tianjin) Co., Ltd.	China	
24	Steam turbine house EOT crane	Hangzhou Huaxin Mechanical & Electrical Engineering Co., Ltd.	China	Not In Scope
		Weihua Group Co., Ltd.	China	
		Shandong Fenghui Equipment technology Co Ltd	China	
		HENAN SHENGQI MACHINERY GROUP CO., LTD.	China	
25	Air Compressor	Shanghai Compo Air Compressor Co. Ltd.	China	Not In Scope
		Shanghai Ingersoll-Rand Compressor Co., Ltd.	China	
		Boge Compressor	China	
		Atlas Copco (Shanghai) Trading Co., Ltd.	China	
26	Roof Fans & Axial flow fan	Shandong Zhongda Air-Condition Group Co., Ltd.	China	Not In Scope
		Baogang Central-Air (China) Co., Ltd.	China	
		Nantong Jinghai HVAC Equipment Factory	China	
		Zhejiang Yilida Ventilator Co., Ltd	China	
		Shangyu Special Fans Co., Ltd	China	
		Shandong Geruide Group	China	
27	Air Conditioning	Guangdong Shenling Environmental System Co., Ltd	China	Not In Scope
		Jiangsu jiasidun machinery equipment co.,ltd	China	
		Dezhou Guoyang Environmental Protection Equipment Co., Ltd.	China	
		Jiangsu Jiangping Air-Condition & Purification Equipment Co., Ltd.	China	
28	Elevator	OTIS	India/China	BOI
		KONE INDIA	India	
		GUANGZHOU HITACHI ELEVATOR CO., LTD	China	
		CHANGZHOU ELEVATOR FACTORY CO.,	China	
		HITACHI	China	
		TRIO ELEVATOR	INDIA	
		Schindler	India/China	
		Mitsubishi	India/China	
		Thyssenkrupp	India/China	
29	Cooling Tower Fan Hub & Blade Assembly	Howden	China	Not IN scope
		Confimco	China	
30	Intake screening equipment for CW pump house & Raw water pump house	Jiangsu Dayang Environmental Protection Engineering Co., Ltd.	China	
		Henan Source Environment Protection Engg Equipment Co Ltd	China	
		Jiangsu Tianma Environmental Protection Science and Technology Group Co., Ltd.	China	
31	LP(AS/SS) Pipes	China Bao feng steel pipe	China	# Refer Note
		Jiangsu Wujing SS steel pipe co Ltd	China	
		Zhejiang Dada SS steel pipe	China	
		Jiangsu chengde	China	
		Hengyang Valin steel tube co	China	
		Anhui Tianda oil pipe Bao steel	China	
		Tianjin Pipe co	China	
		YANTAI LUBO	China	
		Baogang group	China	
		Zhejiang Ningsheng steel pipe	China	

		Kaydon Filtration	USA	
39	TUBE PLATE COOLER	Hillard	India	# Refer Note
		Tranter	India	
		GEA Ecoflex	India	
		Kelvion	India	
		Alfa Laval	India	
		IDMC	JAPAN	
		HISAKA	South Korea	
40	MAIN OIL TANK	MYTEC	Poland	OIL MODULE-BOI.
		Rockfin Group	Germany	
		Hydac	China	
		Jord	India	
		Enpro Industries Pvt.Ltd.	India	
		Hydac	India	
		Cenlub	India	
		Fil Sep Equipment	India	
		Southern Lubrication	China	
		Shanghai Maosheng	India	
41	HYDRAULIC OIL PUMP	Bosch Rexroth	Germany	HPSU-BOI. (sl.no.41,42,43)
		Leistritz	China	
		Rexroth	Germany	
42	FRF REGENERATION	Rockfin Group	Poland	
		Jord	china	
		Hydac	India/Germany	
		Facet	Germany	
		CJC	Germany /Denmark	
		Pall Corporation	India	
		Hilliard	USA	
43	CONTROL FLUID COOLER	Rockfin Group	Poland	
		Hydac	Germany	
		Funke	Germany	
		Tranter	India	
		Kelvion	Germany	
		Alfa Laval	India	
		Alfa Laval	Sweden	
		IDMC	India	
		HISAKA	JAPAN	
		MYTEC	South Korea	
44	CHANGEOVER DOUBLE FILTER,DUPLEX OIL FILTER WITH OIL CHANGEOVER VALVE	Rockfin Group	Poland	OIL MODULE- BOI.
		Hydac	India/Germany	
		Southern Lubrication	India	
		Boll & Kirch	Germany	
45	HANGERS & SUPPORTS	Lisega	India/Germany	1.HANGERS & SUPPORTS for PIT- BOI. 2.BHEL MANUFACTURED for (GENERATOR AUXILIARIES SCOPE)
		JIANGSU FUTAI	CHINA	
		SARATHI	HYDERABAD	
		Jiangsu Power Equipment Co., Ltd	CHINA	
		DALIAN SPRING	CHINA	
		ITT GRINELL	GERMANY	
		Spring Support	UK	
		SICHUAN HUITONG	CHINA	
		YAMASHITA SEISAKUSHO	JAPAN	
		Pipe supports	UK/India	
		Witzenmann	Germany	
		Dee Development	India	
		Seonghwa	Korea	
46	3-WAY TEMP CONTROL VALVE	Rockfin Group	Poland	OIL MODULE- BOI.
		Hydac	Germany	
		MVA	Germany	
		Amot	UK	
		Xinhua Well Hydraulic System	China	
		Metal One Deutschland Gmbh	Germany	
	LUBE OIL SYSTEM	Hydac	India/Germany	BOI
		Rockfin	Poland	
		Jord	China	
		Enpro Industries Pvt.Ltd	India	
		Cenlub	India	

50	HP/IP/LP Turbine Shaft Forging	Saarschmiede	Germany	BHEL Manufacturing shop / # Refer Note
		Schmiedewerke Gröditz	Germany	
		Buderus Edelstahl	Germany/Austria	
		Cruesot Forge	France	
		Kobe Steel	Japan	
		JSW	Japan	
		Bharat Forge	Pune	
		Doosan Heavy Industries & Cons	Korea	
		SDF Terni	Italy	
		JCFC	Japan	
		L&T Special Steel and Heavy Forgings	Hazira	
		Fomas S.P.A	Italy	
51	HP/IP Stationary & Moving Blades Bar Stock	Acciaierie Valbruna S.p.a.	Italy	BHEL Manufacturing shop / # Refer Note
		Aubert & Duval	France	
		BGH Edelstahl GmbH	Germany	
		Böhler Edelstahl GmbH	Austria	
		Carpenter Technology Co.	USA	
		Daido	Japan	
		Corus Engineering Steels	United Kingdom	
		Gustav Grimm Edelstahlwerke GmbH	Germany	
		Sz-metal Ravne D.o.o.	Slovenia	
		Universal Stainless & Alloy Products, Inc.	USA	
		Boehler Schmiedetechnik	Germany	
		Starwire	Ballabhgarh	
		Walzwerke Einsal	Switzerland	
52	HP/ IP valve Castings	Alstom Power Sp. z o.o	Poland	BHEL Manufacturing shop / # Refer Note
		China National Erzhong Group Co	China	
		CSMF	China	
		Star wire	Ballabhgarh	
		Voest Alpine	Austria	
		ISGEC (UP Steels)	Muzaffarnagar	
		Gruppo Cividale	Italy	
		Sande Stahl Guss	Germany	
		L&T Heavy Castings	Hazira	
		Goodwin	UK	
		Kocel	China	
		DHHI	China	
53	LP Inner Casing Casting	Alstom Power Sp. z o.o.	Poland	BHEL Manufacturing shop / # Refer Note
		L&T Coimbatore	India	
		L&T Kanshbhal	India	
		CSMF	China	
		FWH Freidrich Wilhems-Hutte GmbH	Germany	
		Heidenheimer Giessen GmbH & Co	Germany	
		DHHI	China	
		L&T Heavy Castings	Hazira	
		ISGEC (UP Steel)	India	
		Starwire	India	
		Pilsen Steel	Czech	
		Beijing Bazhong	China	
		Buderus Spezialguss GmbH	Germany	
54	LP Outer casing complete	Alstom. Projects India Ltd	Shahabad	BHEL Manufacturing shop / # Refer Note
		Alstom Croatia Ltd	Croatia	
		Dalian Heavy Industrial	China	
		Alstom Bharat Forge Power Ltd	Sanand	
		Alstom Beizhong Power (Beijing) Co.Ltd	China	
		Starwire	Ballabhgarh	
		D & N	Germany	
		Shape Engineers	Hardwar	
		KCP	Chennai	
		Tisco Growth Shop	Jamshedpur	
		ISGEC	Yamunanagar	
		ESSAR Heavy Engg. Services	Surat	
		Vitkovice	Czech	
		Sharp Engineers	Pune	
		Fushun	China	BHEL Manufacturing shop / # Refer Note
		Acciaierie Valbruna S.p.a.	Italy	
		Aubert & Duval	France	
		BGH Edelstahl GmbH	Germany	
		Böhler Edelstahl GmbH	Austria	
		Carpenter Technology Co.	USA	

55	LP Stationary Moving Blades from Bar	Daido	Japan	
		Corus Engineering Steels	United Kingdom	
		Gustav Grimm Edelstahlwerke GmbH	Germany	
		Sz-metal Ravne D.o.o.	Slovenia	
		Kalyani Carpenter Special Steels	Pune	
		Universal Stainless & Alloy Products, Inc.	USA	
		Boehler Schmiedetechnik	Germany	
		Starwire	Ballabhgarh	
		Walzwerke Einsal	Switzerland	
56	LP Cast Blades (Casted)	Formetal (cismocisco)	Italy	BHEL Manufacturing shop / # Refer Note
		PTC	Mehsana	
		Magnacast	Coimbatore	
		Juergens	Germany	
		BSL Casting	Ballabhgarh	
		Doloco	China	
		Zollernwerke	Germany	
		Wuxi	China	
57	LP Blade (Last stage)	Alstom (Switzerland) Ltd	Switzerland	BHEL Manufacturing shop / # Refer Note
		Böhler Schmiedetechnik GmbH	Austria	
		C. Blade S.p.a.	Italy	
		Pietro Rosa S.r.l.	Italy	
		Alstom Power Spzoo	Poland	
		Bharat Forge	Pune	
		Azad Engineering	Hyderabad	
		M Tech	Hardwar	
		Wuxi Turbine Blade Works	China	
		Leistritz Turbinenkomponenten GmbH	Germany	
58	LP Moving Blades From Bars - Before last stage	Alstom (Switzerland) Ltd	Switzerland	BHEL Manufacturing shop / # Refer Note
		Böhler Schmiedetechnik GmbH	Austria	
		C. Blade S.p.a.	Italy	
		Leistritz ATC	USA	
		Alstom Power Spzoo	Poland	
		Azad Engineering	Hyderabad	
		M Tech	Hardwar	
		Leistritz Turbinenkomponenten GmbH	Germany	
		Pietro Rosa S.r.l.	Italy	
		Setforge La Clayette	France	
		SMB SA	Switzerland	
		Bharat Forge	Pune	
		Wuxi Turbine Blade Works	China	
59	Bearing Pedastal - Casting	Alstom Sp Z.o.o	Poland	BHEL Manufacturing shop / # Refer Note
		Silbitz Guss	Germany	
		L&T,Coimbatore	Coimbatore	
		L&T,Kansbahal	Kansbahal	
		Acciaieria Fonderia Cividale spA	Italy	
		Kolhapur Steel	Kolhapur	
		L&T Heavy Castings	Hazira	
		ISGEC (UP Steel)	Muzaffarnagar	
		Patel Alloys	Ahmedabad	
		FWH Freidrich Wilhems-Hutte GmBH	Germany	
		Heidenheimer Giessen GmBH &Co	Germany	
		Buderus Spezialguss GmbH	Germany	
		Siemplekamp	Germany	
		Ergotech	Germany	
		DHHI	China	
60	Bearing - Thrust & Journal	Alstom Beizhong Power (Beijing) Co.Ltd	China	BHEL Manufacturing shop / # Refer Note
		Kingburry	USA	
		Omega Bhopal	Bhopal	
		Eurobearing	Italy	
		Wuakesha Bearing	UK	
61	HP/IP Joint Bolts	Alstom Beizhong Power (Beijing) Co.Ltd	China	BOI-Customer control not required. # Refer Note
		Hebei Guoyuan	China	
		Ultra	Pune	
		Atlas Fasteners	Hyderabad	
		Daido	Japan	
		Azad Engineering	Hyderabad	
		Bhart Forge	Pune	

71	Seal Oil Cooler	Kelvion	India	BOI / # Refer Note
		GEA Ecoflex(Kelvion)	India/ Germany	
		ALPHA LAVAL	Poland/Europe	
		Hering	Germany	
		ALPHA LAVAL	Sweden/Germany	
		THERMOWAVE	Germany	
		TRANTER	India	
72	Seal Oil Unit	Beijing Zhongnegf	China	BHEL
		Rockfin	Poland	
		Shanghai Xinhua	China	
		Rotan	Germany	
		Energas	China	
		Flenco	Italy	
		SOUTHERN LUBRICATION	India	
		CENLUB	India	
		ENPRO INDUSTRIES	India	
		Hydac India	India	
73	Hydrogen Cooler	GEA	Germany	BHEL
		Dengfeng Unifin	China	
		TEMA	India	
		Laxmi	India	
		Fitwell	India	
		GEI INDUSTRIES	India	
		Funke	Germany	
		Thermax Group	India	
74	Hydrogen dryer	Jinda l electrical	India	BOI / BHEL– Customer control not required
		Melcon engg	India	
		Rockfin	Poland	
		Rotan	Germany	
		SPERI	China	
		Span Manufacturing	India	
		Xinhua Well Hydraulic System	China	
75	Control valve for feedwater flow Control	CCI	USA/Austria /Korea	BOI
		Dressor Masoneilan	France	
		HORA	Germany	
		EMERSON (Fisher)	USA/France /Japan	
		CCI	Sricity	
		Sempell	Germany	
		KOSO	Japan	
		Yamatake	JAPAN	
		Nakikta	Japan	
		MOTOYAMA	Japan	
		BOPP & ROUTHER	Germany	
		MIL	Alwaye	
76	Control valve(Other than BFP RC, FW flow Control.)	MIL	Alwaye	BOI
		EMERSON	Chennai	
		Dressor	Coimbatore	
		Spx Copes Vulcan	UK	
		Leslie	USA	
		Flow Serve	Bangalore	
		KOSO	Palakkad	
		CCI	Sricity	
		BOMAF A	Germany	
		MOTOYAMA	Japan	
77	Lube oil control valve - Self Regulating	NUOVO PIGNONE	ITALY	BOI
		EMERSON	CHENNAI	
		SAMSON	GERMANY / PUNE	
		Forbes Arca	Pune	
78	ALLOY STEEL/CARBON STEEL FORGING FOR FITTINGS/FLANGES	INDIAN FORGING & STAMPING	INDIA	# Refer Note
		HINDUSTAN FORGE	INDIA	
		BAY FORGE	INDIA	
		VIKRANT FORGE	INDIA	
		BHARAT FORGE	INDIA	
		PUNJAB HAMMER	INDIA	
		KISSAN FORGING LTD.	INDIA	
		CHW FORGE	INDIA	
		BHARAT FORGE	INDIA	
		CHW(CHAUDHRAY HAMMER WORKS)	INDIA	
		ECHJAY INDUSTRIES	INDIA	
		LAL METAL	INDIA	
		PRAKASH YANTRA UDYOG PVT LTD.	China	
		BAOSHAN IRON STEEL CO PRECISION STEEL TUBE FACTORY	China	
		CHANGZHOU CHANGBAO PRECISION STEEL TUBE CO., LTD.	China	

		SHANGHAI CHANGQIANG POWER STATION FITTINGS CO., LTD.	China	
		GUIZHOU HANGTIAN XINLI	China	
		WUHAN HEAVY EQUIPMENT CO.,LTD	China	
79	BASALT LINED PIPE/FITTING & BENDS	DEMECH	BARAMATI, PUNE	# Refer Note
		BMW STEEL	INDIA	
		ENVIRO-ABRASION RESISTANT ENGINEERS PVT LTD	PUNE	
		TURBO ENGINEERS (CBE)	COIMBATORE	
		HULUDAO CITY HUANENG INDUSTRIAL CERAMICS CO.,LTD	China	
		NANTONG GAOXIN ANTIWEAR TECHNOLOGY CO., LTD	China	
		SUZHOU SHANGCHUNYI	China	
80	Bearing	TIMKEN	FRANCE/USA/CANADA/MEXICO/ GERMANY	BHEL
		NTN	NETERLANDS/FRANCE/GERMANY/ITALY/ROMANIA	
		KOYO	JAPAN	
		NKC	SWEADEN/INDIA/FRANCE/IRELAND/ITALY	
		SKF	GERMANY/JAPAN/SPAIN/FRANCE/BRAZIL	
		FAG	UK	
81	BOILER CIRCULATING/FEED WATER PUMP (BFP)	HAYWARD TYLER ENGINEERED PRODUCTS LIMITED	CHINA	BHEL
		POWER CHINA SPEM CO. LTD.	GERMANY/ CHINA	
		KSB	JAPAN	
		TOROSIMA PUMP MFG CO LIMITED	WORLDWIDE	
		GE	HYDERABAD- INDIA	
		BHEL	UK, CHINA, MUMBAI INDIA	
		SULZER	CHINA, SPAIN, COIMBATORE INDIA,	
		FLOWSERVE	UK	
		CLADE UNION	JAPAN/CHINA	
		EBARA	JAPAN/CHINA	
		TORISIMA	JAPAN	
		HITACHI	JAPAN	
		MHI	KOREA	
		HYUNDAI HEAVY INDUSTRY LIMITED	CHINA	
		POWER CHINA SHANGHAI POWER EQUIPMENT MANUFAC	INDIA	
82	CASTABLE REFRACTORY	TATA REFRACTORIES LTD.	INDIA	NA in STG
		CALDERYS INDIA REFRACTORIES LTD	INDIA	
		SHARADA CEREMICS PVT.LTD	INDIA	
		CARBORANDUM UNIVERSAL	INDIA	
		CASTWEL	CHINA	
		WUXI YIGANG REFRACTORIES CO.,LTD	CHINA	
		SUZHOU LANJING	CHINA	
		SHANDONG LUYANG	CHINA	
		HEBEI HUANENG	CHINA	
83	COMPRESSORS-HYDROGEN	BEIJING JINGCHENG COMPRESSOR CO.	CHINA	NA
		BEIJING TITANGAO DIAPHRAGM COMPRESSOR CO. LTD	CHINA	
		BEIJING HUIZHI ELECTROMECHANICAL EQUIPMENT CO. LTD	GERMANY	
		NEYMAN & ESSAR ENGG PVT LTD	JAPAN	
84	Combined main stop and control valve/combined reheat valve	TOSHIBA CORPORATION	INDIA	BHEL
		BHEL	CHINA	
		SHANGHAI TURBINE	CHINA	
		DONGFANG TURBINE CO.LTD. - ALONG WITH TURBINE	INDIA	
		L & T VALVES	INDIA/KOREA/SWEDEN	
		CCI	GERMANY	
85	COMPENSATOR - NON METALLIC EXPANSION JOINTS	WILZMANN	GERMANY	NA in STG
		FLEXICON	INDIA	
		KOMPAFLEX	INDIA	
		BERGMAN		
		NANTONG SHUGUANG BELLOWS MANUFACTURING CO., LTD	CHINA	
		LONESTAR	INDIA	
		FLEXATHRAM	INDIA	
		JIANGSU TONGYI ELECTRIC POWER EQUIPMENT CO.,LTD	CHINA	
		ALSTOM / GE POWER SYSTEM	FRANCE	BHEL
		BHI	KOREA	
		L&T	HAZIRA	
		SIEMENS	GERMANY	
		SPX	USA	
		SPX	CHENNAI INDIA	
		HOLTEC	USA	

90	DRAIN VALVES - BTG(HIGH PRESSURE-IBR)	VELAN	INDIA/CANADA	
		WEIR - BDK	INDIA	
		FOURESS	INDIA	
		CONVAL	USA	
		SEMPELL	GERMANY	
		GRV	GERMANY	
		BOMABA	GERMANY	
		KSB	GERMANY	
91	DOSING PUMP	MILTON ROY	INDIA/CHINA	NA in STG
		VK PUMPS INDUSTRIED PVT. LTD.	INDIA	
		POSITIVE METERING PUMP	INDIA	
		RUD INDIA LIMITED	INDIA	
		ROSEMOUNT	USA	
92	EXPANSION JOINTS (RUBBER)	CORI ENGINEERS	CHENNAI INDIA	BHEL
		SRM ECO FLEX	KOLKATA	
		JIANGSU RISHENG	CHINA	
		AEROSUN CORPORATION	CHINA	
		JIANGSU BAIXIN	CHINA	
93	EMERGENCY OILPUMP FOR TG	EBARA YOSHIKURA HYDROTEC LIMITED	JAPAN	OIL MODULE-BOI.
		MATHER & PLATT	INDIA	
		KSB PUMPS	INDIA	
		CHENGDU INSTITUTE OF PUMPSAPPLICATION TECHNOLOGY.	CHINA	
		SULZER PUMPS INDIA LIMITED	INDIA/CHINA	
		DONGFANG TURBINE CO.,LTD.	CHINA	
94	FABRICATION & SUPPLY OF STEEL STRUCTURE	DIAMOND ENGG	INDIA	BHEL
		KPE	KOREA	
		SHANDONG YIJEHONGFENG ENERGY EQUIPMENT CO.	CHINA	
		SUNG CHANG INDUSTRY CO., LTD	KOREA	
		SAM JIN STEEL STRUCTURE CO., LTD	KOREA	
		BOSUNG POWERTEC. CO. LTD	KOREA	
		DONG AH CONSTRUCTION	KOREA	
		DAE JOO HEAVY INDUSTRIES	KOREA	
		SEUNG BOO INDUSTRY	KOREA	
		SHANDONG YIJEHONGFENG ENERGY EQUIPMENT CO., LTD	CHINA	
		SIMPLEX ENGG	INDIA	
		SHANGHAI BAOYE GROUP CORPORATION	CHINA	
		ZHEJIANG FEIDA ENVIRONMENT SCIENCE & TECHNOLOGY	CHINA	
		ZHEJIANG HANGXIAO STEEL STRUCTURE CO., LTD	CHINA	
		XINLAI CO. LTD. - QINGDAO	CHINA	
		QINGDAO EAST STEEL TOWER STOCK CO. LTD.	CHINA	
		JSW SEVERFIELD	INDIA	
		TECHNO FAB	INDIA	
		FUJIAN LONG KING	CHINA	
		ZHEJIANG FEIDA ENVIRONMENT SCIENCE & TECHNOLOGY	CHINA	
		ESSAR	INDIA	
		CAPACITE STRUCTURE (PRATIBHA	INDIA	
		MCC5 Group Corporation Limited(Shanghai)	CHINA	
95	FGD	CPI YUANDA ENIRONMENTAL PROTECTION ENGINEERING CO., LTD	CHINA	Not in Scope
		BHEL	INDIA	
		ZHEJIANG FEIDA	CHINA	
		THERMAX	INDIA	
		CHINA DATANG TECHNOLOGIES	CHINA	
		GE	INDIA	
		SPIC YUANDA ENVIRONMENTAL PROTECTION ENGINEERING CO., LTD	CHINA	
		FJLK	CHINA	
		ISGEC	INDIA	
		BEIJING GUODIAN LONGYUAN ENVIRONMENTAL ENGINEERING CO., LTD	CHINA	
		WUHAN KAI DI ELECTRIC POWER ENVIRONMENT TECHNOLOGY CO., LTD	CHINA	
		LONGJING ENVIRONMENT TECHNOLOGY CO., LTD	CHINA	
		DONGFANG BOILER GROUP CO.,	CHINA	
		BEIJING SPC ENVIRONMENT PROTECTION TECH CO., LTD	CHINA	# Refer Note
		DAEWOO BOLT CO.,LTD	KOREA	
		CESHIN METAL INDUSTRY CO.,LTD	KOREA	
		KPF	KOREA	
		NEXO FASTENERS	LUDHIANA	

96	FASTENERS (GI CS , HIGH TENSILE & SS)	BHARTI OVERSEAS	LUDHIANA	
		DEEPAK FASTENERS	LUDHIANA	
		SUNDARAM FASTENERS LTD.	PADI, CHENNAI	
		LAXHMI PRECISION SCREWS LTD.	ROHTAK, HARYANA	
		PRECISION TAPS & DIES PVT. LTD.	KALINA, MUMBAI	
		GARG FASTENERS	LUDHIYANA	
		INDIAN STEEL AND WIRE PRODUCTS LTD.	JAMSHEDPUR	
		MULTI FASTENERS	VADODARA AHMEDABAD	
		SHANGHAI HIGH SRENGTH BOLTS PLANT CO.,LTD	CHINA	
		NINGBO HIGH STRENGTH BOLTS	CHINA	
97	FITTINGS, CS, LAS, HIGH PRESSURE, HIGH TEMP	SHANGHAI BIAO WU	CHINA	# Refer Note
		TUBE PRODUCT	VADODARA	
		MS FITTINGS	KOLKATA	
		PIPEFIT		
		GUJARAT INFRA		
		GAUTAM INDUSTRIES	MUMBAI	
		JIANGYIN LONGSHAN PIPE FITTING CO.	CHINA	
98	FITTINGS-SS PIPE FITTINGS	SIDDHARTH GAUTAM	FARIDABAD	
		TUBE PRODUCT INCORPORATE	VADODARA	
		MS FITTINGS	KOLKATA	
		UNITECH MACHINES LIMITED	SAHARANPUR	
		JIANGYIN LONGSHAN PIPE FITTING CO.	CHINA	
		SIDDHARTH GAUTAM	INDIA	
		FENNER	CHENNAI	
		WELLMAN	KOLKATA	
		NAW	KOLKATA	
99	FLUID COUPLING	BOHAI HEAVY INDUSTRY PIPELINE	CHINA	# Refer Note
		PREMIUM TRANSMISSION LTD.	AURANGABAD	
		FLUIDOMAT	DEVAS	
		PEMBRILL	AURANGABAD	
		GUANGZHOU ZHONGXING HYDRAULIC COUPLING EQUIPMENT CO. LTD.	CHINA	
		VOITH	HYDERABAD	

		JIANGSU AET TECHNOLOGY & ENGINEERING CO. LTD.		
106	LUBE OIL STRAINER - TG	JIANGSU ZHONGNENG POWER EQUIPMENT CO., LTD		BOI
		WESTFALIA SEPERATOR	CHINA	
		ALFA LAVAL	INDIA /USA	
		MIZUNDO	WORLDWIDE	
		EATON	WORLDWIDE	
		ROCKFIN	POLAND	
		HYDAC TECHNOLOGY	GERMANY/POLAND/INDIA	

107	MAIN OIL COOLER (PLATE TYPE)	DONGFANG TURBINE CO.LTD.	CHINA	BOI
		BOLL & KRICH FILTER	WORLDWIDE	
		ALFA LAVAL	SWEDEN/ JAPAN	
		APV	USA	
		GEA ECOFLEX	GERMANY	
		IDMC	INDIA	
		HISAKA WORKS	JAPAN	
		TRANTER	India	
		DONGFANG TURBINE CO.LTD.	CHINA	
		SPX (SHANGHAI) FLOW TECHNOLOGY CO. LTD.	CHINA	
		LHE	KOREA	
		MYTEC	SOUTH KOREA	
		STANDARD EXCHANGE	USA	
108	MAIN OIL TANK VAPOUR EXECUTOR	CONTAC	ITALY	OIL MODULE-BOI.
		OHIRD SANGYO CO LIMITED	JAPAN	
		SWEDEN OKAMOTO BLOWER CO LIMITED	JAPAN	
		TECHNO WASHING CO LIMITED	JAPAN	
		DONGFANG TURBINE CO.LTD.	CHINA	
109	METALLIC EXPANSION	HKR ,INCHON	KOREA	BOI
		YONGKWANG FLEXIBLE INDUSTRIAL CO.,	KOREA	
		CORI ENGINEERING	INDIA	
		EAGLE BERGMANN	INDIA	
		LONESTAR	CHENNAI	
		SUR INDUSTRIES	KOLKATA	
		FLEXICON BELLOWS& HOSES PVT LTD	VADODARA	
		FLAXICON	CHENNAI INDIA	
		MB METALLIC BELLOWS	CHENNAI INDIA	
		WITZEMANN	GERMANY	
		HKS	GERMANY-	
		KOMPAFLEX	GERMANY-	
		MOURO & MILLER	UK	
		BIRD PRECISION	UK	
		TURBO FLEX	GERMANY	
		FLAXITHERM	VADODARA	
		SANGHAI HEAVY MACHINERY PLANT CO.	CHINA	
		ATULYA BELLOWS	INDIA	
		B D EXPANSION	INDIA	
		DONGFANG TURBINE CO.LTD.	CHINA	
		HKR	KOREA	
		NEURON	JAPAN	
		NIPPON	JAPAN	
		THERMOFLEX	JAPAN	
		SJM	KOREA	
		FLEXPRT	BELGAUM (KARNATAKA)	
		JIANGSU TONGYI ELECTRIC POWER EQUIPMENT CO.,LTD	CHINA	
110	PIPE : CARBON/LOW ALLOY SEAMLESS PIPE(P11, P12,P22,ASTM A106 GR B) FOR BTG	HENGYANG	CHINA	# Refer Note
		BENTELER STEEL TUBE GMBH	GERMANY	
		HMT (HEAVY METAL TUBE)	INDIA	
		IBF SPA	ITALY	
		IL JIN STEEL	KOREA	
		ISMT (INDIAN SEAMLESS METAL TUBE)	INDIA	
		JFE STEEL	JAPAN	
		KASCO	KOREA	
		PRODUCTOS TUBULARES	SPAIN	
		SUMITOMO METAL / NSSMC	JAPAN	
		TENARIS	ITALY, ARGENTINA	
		TENARIS NKK	JAPAN	
		BAO STEEL	CHINA	
		CHANGZHOU CHANGBO PRECISION	CHINA	
		TIANJIN PIPE CORPORATION	CHINA	
		TPS	GERMANY	
		US STEEL	USA	
		V & M	FRANCE, GERMANY,	
		WYMAN GORDON	USA	
		YANGZHOU CHENGDE STEEL PIPE	CHINA	
		VALLOUREC & MANNESMANN TUBEES	FRANCE/ GERMANY	
		ARCELOR MITTAL TUBULAR PRODUCTS	ROMANIA / S.A.	
		TUBOS REUNIDOS INDUSTRIAL S.L.U.	SPAIN	
		VALCOVNY TRUB CHOMUTOV	CZECH REPUBLIC	
		TIANJIN PIPE CORPORATION	CHINA	
		INNER MONGOLIA NORTHERN HEAVY INDUSTRIES GROUP	CHINA	
		CHANGZHOU CHANGBAO	CHINA	
		YANGZHOU LONTRIN	CHINA	
		BAOSHAN IRON AND STEEL	CHINA	
		SAIL	INDIA	

111	PLATES - STRUCTURAL STEEL	TATA STEEL	INDIA	# Refer Note
		JINDAL STEEL	INDIA	
		POSCO	KOREA	
		DILLINGER HUTTE	GERMANY	
		INDUSTEEL LOIRE	FRANCE	
		INDUSTEEL BELGIUM	BELGIUM	
		JFE STEEL	JAPAN	
		KOBE STEEL	JAPAN	
		NSC / NSSMC	JAPAN	
		ARCELOR MITTAL	USA, NETHERLANDS	
		DONGKUK	KOREA	
		HYUNDAI HYSCRO	KOREA	
		DKC	KOREA	
		ILSENBURGER	GERMANY	
		SALZGITTER	GERMANY	
		SPECIAL METAL	USA	
		ALLEGHENY LUDLUM	USA	
		NSSC	JAPAN	
		NIPPON YAKIN	JAPAN	
		AK STEEL	USA	
		HANWHA	KOREA	
		ASAHI KASEI	JAPAN	
		DMC NOBEL CLAD	USA	
		JSW	JAPAN	
		VOEST ALPINE	AUSTRIA	
		OUTOKUMPU STAINLESS AB, SPECIAL	GERMANY	
		OUTOKUMPU STAINLESS AB, AVESTA	SWEDEN	
		BAO STEEL	CHINA	
		NOVELIS KOREA	KOREA	
		ESSAR STEEL	INDIA	
		JOIL ALUMINUM	KOREA	
		THYSSEN KRUPP VDM	GERMANY	
		WUYANG IRON AND STEEL	CHINA	
		CHONGQING IRON AND STEEL	CHINA	
		ANSHAN STEEL	CHINA	
		BAOSHAN IRON AND STEEL	CHINA	
		ANYANG IRON AND STEEL	CHINA	
		RIZHAO STEEL	CHINA	
		WUHAN STEEL	CHINA	
112	PLATES (PRESSURE VESSEL)	SAIL	INDIA	# Refer Note
		TATA STEEL	INDIA	
		JSPL	INDIA	
		UTTAM VALUE STEEL (LLOYDS STEEL)	INDIA	
		RINL	INDIA	
		ESSAR STEEL	INDIA	
		BHUSHAN STEELS	INDIA	
		ISPAT INDUSTRIES LTD	INDIA	
		WELSPUN CORP.	INDIA	
		JSW / ISPAT	INDIA	
		POSCO	KOREA	
		DILLINGER	GERMANY	
		REINER BRANCH GMBH & CO. KG	GERMANY	
		ILSENBURGER GROBBLECH (SALGZITTER MANNESMAN)	GERMANY	
		VOESTALPINE GROBBLECH GMBH	AUSTRIA	
		SUMITOMO METAL / NSSMC	JAPAN	
		NIPPON STEEL CORPORATION	JAPAN	
		THYSSEN KRUPP STAHLUNION GMB	GERMANY	
		ARCELLER MITTAL	UK/ROMANIA/JAPAN	
		DONGKUK STEEL	KOREA	
		CORUS	UK	
		WUYANG IRON AND STEEL	CHINA	
		CHONGQING IRON AND STEEL	CHINA	
		ANSHAN STEEL	CHINA	
		BAOSHAN IRON AND STEEL	CHINA	
		ANYANG IRON AND STEEL	CHINA	
113	PLATE (LAS) FOR PRESSURE VESSEL	UTTAM VALUE STEEL (LLOYDS STEEL)	INDIA	# Refer Note
		JSPL	INDIA	
		ESSAR STEEL	INDIA	
		SAIL	INDIA	
		DILLINGER	GERMANY	
		NIPPON STEEL CORPORATION	JAPAN	
		JFE STEEL	JAPAN	
		KOBE STEEL	JAPAN	
		VOESTALPINE GROBBLECH GMBH	AUSTRIA	
		POSCO	KOREA	
		SALTZGUITTER	GERMANY	
		ARCELLOR MITTAL	ROMANIA	
		DUFERRCO DEUTSCHLAND GMBH	GERMANY	

		THYSSEN KRUPP	GERMANY	
		CHONGQING IRON AND STEEL	CHINA	
		ANSHAN STEEL	CHINA	
		BAOSHAN IRON AND STEEL	CHINA	
		ANYANG IRON AND STEEL	CHINA	
		WUHAN STEEL	CHINA	
	114	JSL STAINLESS LTD	INDIA	
		SAIL	INDIA	
		INDUSTEEL	BELGIUM	
		NIPPON STEEL CORPORATION	JAPAN	
		KOBE STEEL	JAPAN	
		SMST	JAPAN	
		DILLINGER	GERMANY	
		SALTZGUITTER	GERMANY	
		POSCO	KOREA	
		SUMITOMO METAL / NSSMC	JAPAN	
		OUTOKUMPO	FINLAND	
		VOESTALPINE	AUSTRIA	
		DILLING-GTS VENTES	FRANCE	
		THYSSENKRUPP	GERMANY	
		DAEKUNG	KOREA	
		SANDVIK GMBH	GERMANY	
		SHANXI TAIGANG STAINLESS	CHINA	
		BAOSHAN IRON AND STEEL	CHINA	
		ANSHAN STEEL	CHINA	
115	PRESSURE REDUCING AND DESUPERHEATING SYSTEM	SPIRAX MARSHALL	PUNE	BHEL / BOI
		CIRCOR	AHMEDABAD	
		BHEL	INDIA	
		BOMAFSA SPECIAL VALVE	INDIA	
		MECASTER FLOW SOLUTION PVT. LTD.	NARODA, AHMEDABAD	
		JIANGSU ZHONGWEI MACHINERY MANUFACTURING CO., LTD.	CHINA	
		CHINA VALVE CO., LTD.	CHINA	
		L&T	INDIA	
116	PUMP- HORIZONTAL CENTRIFUGAL	WPIL	GHAZIABAD/KOLKATTA	BHEL / BOI
		FLOWMORE	GHAZIABAD	
		KBL	KIRLOSKARVADI	
		KSB	PUNE/CHINA	
		MATHER & PLATT	PUNE	
		FLOWERVE CONTROLS INDIA LTD		
		SULZER PUMPS	MUMBAI/CHINA	
		SAM TURBO	COIMBATORE	
		GRUNDFOS PUMPS PVT. LTD.	CHENNAI	
		EBARA MACHINERY ZIBO CO. LTD.	CHINA	
		DALIAN SONGLONG PUMP MANUFACTURE CO., LTD.	CHINA	
		DALIAN DEEP BLUE PUMP CO., LTD.	CHINA	
		Guangzhou Xinheng Pump Manufacturing Co., Ltd.	China	
		SHANGHAI PUMP MANUFACTURE CO.,	CHINA	
		XYLEM	CHINA	
		TORISHIMA	CHINA	
		HITACHI PUMP MANUFACTURING (WUXI) CO., LTD.	CHINA	
		ANDRITZ (CHINA) LTD.	CHINA	
		FLOWERVE FLUID MOTION AND CONTROL (SUZHOU) CO., LTD.	CHINA	
		RUHRPUMPEN CHINA CO. LTD.	CHINA	
		Jiangsu Double-Wheel Pump Machinery Co., Ltd.	CHINA	
		ARMSTRONG PUMPS	BANGALORE	
		CHANGSHA PUMP	CHINA	
		JIANGSU SHUANGDA PUMP	CHINA	
117	RUBBER LINING FOR PRESSURE VESSEL & PIPES- WTP	RISHI INDUSTRIES	SONIPAT	BHEL / # Refer Note
		JASMINO POLYMERTECH PVT. LTD.	RAIGAD	
		ELASTOMER LINING WORKS	THANE	
		INDUSTRIAL LINING	VADODARA	
		LATHIA POLYMER	AHMEDABAD	
		MADRAS INDUSTRIAL LINING	CHENNAI	
		SHRI RAM RUBTECH	VADODARA	
		SHIV RUBTECH	AHMEDABAD	
		WESTERN RUBBER	NAVI MUMBAI	
		C. DOCTOR	INDIA	BHEL
		PATEL AIRTEMP	INDIA	
		MULTIMAX ENGINEERSWORKS	INDIA	
		DONGWHA ENTEC CO. LTD	KOREA	
		PROGEN SYS TECH LTD	INDIA	
		BARODA EQUIPMENT & VESSELS PVT LTD	INDIA	

		XIAMEN FREET FLUID CONTROL CO. LTD.	CHINA	
		L&T	CHENNAI/COIMBATORE	
		QINGDAO POWER STATION VALVE	CHINA	
		DURKEN	USA	
		BRAY	USA	
		Trillium Weir	CHINA	
		KEystone	USA	
		HE HARBIN POWER PLANT VALVE COMPANY LIMITED.	CHINA	
123	VALVE- DIAPHRAGM VALVE (AUTO & MANUAL)	CRANE PROCESS	PUNE	# Refer Note
		WEIR BDK	HUBLI	
		PROCON ENGINEERS	MUMBAI	
		ANTICO	VALSAD	
		KBL	INDIA	
		DEMBLA	INDIA	
		GEMU	GERMANY	
		SED	GERMANY	
124	VALVES-LOW PRESSURE GATE, GLOBE, CHECK AND BALL VALVES (CAST STEEL)	AUDCO	INDIA	# Refer Note
		WEIR BDK	HUBLI	
		KBL VALVES	PUNE/KONDHAPURI	
		FOURESS ENGINEERING	MUMBAI	
		KSB	COIMBATORE	
		INTERVALVE	PUNE	
		CHINA SHUANGHENG	CHINA	
		FREET	CHINA	
		BHEL	TRICHY	
		LEADER	JALANDHAR	
		STEEL STRONG VALVES	SANAND, MUMBAI	
		OSWAL INDUSTRIES LTD	AHMEDABAD	
		GM ENGG	RAJKOT	
		VELAN VALVE	INDIA	
		SAMSHIN	KOREA	
		TYCO	ITALY	
		ADWARD	SINGAPORE	
		HP/KVT	KOREA/NETHERLANDS	
		FORBES MARSHALL		
		NITON VALVES PVT LTD	MUMBAI	
		MICRO FINISH VALVES	HUBLI	
		CRANE PROCESS	PUNE	
		L&T	CHENNAI/COIMBATORE	
		QINGDAO POWER STATION VALVE	CHINA	
		HE HARBIN POWER PLANT VALVE COMPANY LIMITED.	CHINA	
125	VALVE-SAFETY VALVE	BHEL	TRICHY	BHEL
		SHANGHAI VALVES	CHINA	
		PENTAIR SANMAR	INDIA/ USA	
		SPIRAX MARSHALL	USA	
		OKANO VALVE	JAPAN	
		FUKUI	JAPAN	
		BOPP & REUTHER	GERMANY	
		SEMPELL AG	GERMANY	
		MEIWA CORPORATION	JAPAN	
		RIENEKE GMBH	GERMANY	
		DRESSER	USA	
		TYCO SANMAR LIMITED	INDIA	
		KSB	GERMANY	
		CROSSBY	USA	
		WEIRBDK	INDIA/ FRANCE	
		LESSER	GERMANY ₅	
		FORBES MARSHALL	INDIA	
		BOPP & REUTHER	GERMANY	
		MEIWA CORPORATION	JAPAN	
		SEMPELL	GERMANY	

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