

		BHARAT HEAVY ELECTRICALS LIMITED [A Government of India Undertaking] Ramachandrapuram, Hyderabad, 502032, A.P. India Phone 040-23184526, 23182322 FAX:040-23021910, 1954			भारत हेवी इलेक्ट्रिकल्स लिमिटेड (भारत सरकार का उपक्रम) रामचन्द्रपुरम, हैदराबाद, 502032 आंध्र प्रदेश, भारत			RFQ NO :		PURCHASE DEPARTMENT ENQUIRY क्रय विभाग जांच (ई मेल : tenderbox@bhelhyd.co.in)		SHEET:1 OF :1	
HY17001 C REV.NO.0		Phone 091-40-23184526 091-40-23182322		FAX : 091-40-23021910 091-40-23021954		PURCHASE DEPARTMENT							
		GSTIN:		Enq/Collective No :E9AZS00026		Enq.Dt. : 02.09.2026		No.Of Items :2		DUE Dt. OF QUOTN. : 12.09.2026			
Office Copy				Please submit your lowest quotation in sealed cover superscribed with Enquiry No./Collective No.(RFQ No) and due date subject to our terms and conditions attached ,for the materials mentioned below.Your offer has to reach us onor before due date by 11.00 Hours (IST) and will be opened at 14.00 Hours.(IST).If our Enquiry No./Collective No.(RFQ No) and tender due date are not super scribed on the tender cover , your offer shall be summarily rejected. Incomplete offers and late offers will not be considered.									
SL NO	Purchase Req.no	item no	Material Code, HSN No.	Drg no - Ver , Rev & Spec - Ver , Rev,Spec-Var		Description			Unit	Qty	Delivery Date	Schedule Qty	
1	1400264859	10	31750501151-01A	31750501151-01A,01,,,		HEMIHEAD ASSLY DSH 7A/B (NOZZ MC)			EA	1.000	30.11.2026	1.000	
2	1400264857	10	31750501563-00A	31750501563-00A,01,,,		HEMIHEAD ASSLY HPH 7A/B (NOZZ MC)			EA	1.000	30.11.2026	1.000	
Special Remarks													
CheckList of Quality Interventions: BHEL reserves the right to enforce any or all of the following checks during execution of the order. There is no additional cost to the vendor on account of these checks.													
									TEST CERTIFICATE REQD: Y GUARANTEE REQ : Y SAMPLE REQD : BID TYPE : TWO PART		For and on-behalf of Bharat Heavy Electricals Limited. SIVA PRASAD J MANAGER		

Pre-Qualification Criteria for HP Heater hemi head Fabrication

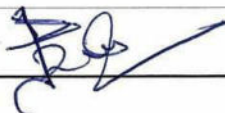
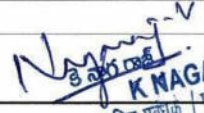
The BIDDER has to compulsorily meet the Qualifying criteria indicated in section 1 to get qualified. Otherwise the technical offer will not be considered.

SECTION: 1

S.NO	Requirement	Vendors Response
1.1	Only those vendors shall quote who mandatorily meets the clause nos : 1.2 to 1.5	
1.2	Vendor shall have facility for fabrication for HP Heater Hemi head Assembly with IBR inspection.	
1.3	Vendor should have fabricated and supplied at least one HP Heater hemi head with IBR inspection/Sub-Assembly of a Pressure vessel with IBR(weight of sub-assembly not less than 10,000 Kgs) without any deviation. PO Copy, Inspection report copy of the same shall be submitted. Phone number and e-mail of the organization who placed the order shall be submitted.	
1.4	Vendor shall not outsource fit-up and welding activities to other parties	
1.5	BHEL reserves the right to accept or reject the offer based on the assessment of their technical capability. BHEL reserves the right to verify the information provided by the Vendor by taking feed back or by visit to vendor works. In case the information provided by vendor is found to be false / incorrect, the offer shall be rejected.	

SECTION: 2

S.NO	Information	Vendors Response
2.1	Working space under shed.	
2.2	No cranes, capacity of each crane	
2.3	No of IBR qualified welders	
2.4	No of welding machines available (SMAW, SAW)	

	Prepared by		Approved by	
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के नगराज
K NAGARAJ
वरिष्ठ प्रबंधक / एसई व एफ. टेक
Sr Manager / HE & F-Tech
बी. एच. ई. एन. बंगलौर, हेदराबाद-32 BHEL-HPEP-HVD-32

SPECIAL CONDITIONS OF CONTRACT (SCC) FOR ENTERING INTO FRAMEWORK AGREEMENT FOR FABRICATION OF HEMI HEAD ASSEMBLY INCLUDING MACHINING AND HEAT TREATMENT OPERATIONS.

SI.NO	DESCRIPTION	BHEL REQUIREMENT	VENDOR'S CONFIRMATION
1	NATURE OF CONTRACT	Framework Agreement for fabrication of Hemi Head Assembly including Machining and Heat Treatment Operations.	
2	TWO-PART BID	Offer shall be submitted in two part bid system against this enquiry. Part-I shall consist of Techno-Commercial bid with all required documents and Price shall be fed in Part-II.	
3	TECHNO-COMMERCIAL BID	Techno-Commercial Bid shall essentially consist of: (i) Bidder's confirmation of BHEL drawing/Specification & technological scope. (ii) Bidder's confirmation of BHEL manufacturing Quality plan (if applicable) (iii) Duly filled in signed and stamped Special Contract Conditions (SCC). (iv) Duly filled in signed and stamped Instructions to Bidder (ITB). (v) Duly filled in and completed in all respect ITB ANNEXURE-II (Framework Confidentiality Agreement cum Underatking) All the above documents shall be duly authenticated by signature and official seal of the company. (vi) Udyam Registration Certificate for MSE vendors. (vii) Duly filled in signed and stamped pre-qualification criteria (PQC) <u>Note:</u> Bid shall be complete in all respects including all the documents / information required for techno-commercial evaluation. Incomplete offers shall be liable for rejection.	
4	PRICE BID	Vendor shall quote Rate in Rs. per kg basis only against each Item. The rate quoted shall be inclusive of conversion charges, all consumables, handling charges and dispatch of finished jobs to BHEL (HPEP) Stores. Quoted price shall be on firm basis. No revision of prices will be entertained after the tender is opened.	
5	DETAILS OF JOB/WORK	Manufacturing /Fabrication of Hemi Head Assembly including Machining and Heat Treatment Operations as per BHEL drawings/DCA and technological scope/Quality plan with BHEL materials & in line with SCC Terms & Conditions. Notes: (a) Hemi Head Forging will be sent without any openings for T1, T2, T4 & T6 Nozzles. (b) T1, T2 and Manway Nozzle (T6) will be sent in fully machined condition and ready for fitup. (PLEASE REFER Detailed Scope & ANNEXURE-1 FOR DETAILS).	
6	QUANTITY (Aproximately)	Approx Weight -- 807600 kg (PLEASE REFER ANNEXURE-1 FOR DETAILS); Qty: 86 No's <u>Note:</u> Quantity mentioned is indicative and is subjected to change as per plan and project requirement. However, the quantity under the Framework agreement (projected quantity in kg) will not be exceeded and ordering will be done within the limit.	
7	CHANGE IN WEIGHT	Any change in weight of components either lower or higher side due to non-availability of particular raw material and subsequent change proposal to higher thickness/lower thickness shall not attract for amendment of PO and therefore payment of increased or decreased cost. Amendment of PO will be done only when net weight of drawing has increased/decreased due to Engineering oversight.	

8	DELIVERY	The finished components shall be delivered to BHEL Hyderabad Store in the following manner from the date of sending of last PPMIV/SMIV material from BHEL Ramachandrapuram to vendor works. Delivery Conditions: Vendor shall collect minimum two (02) Hemi Heads along with nozzles and all other required materials for hemi head assembly fabrication at a time from BHEL Hyderabad to vendor works The finished assemblies after Fabrication, Heat Treatment and final machining shall be delivered to BHEL Hyderabad Store within Sixty (60) days after receipt of TWO (02 No's) of Hemi Heads and all other related materials (i.e., after receipt of last PPMIV/SMIV materials) at vendors works.	
9	SCOPE OF MATERIAL SUPPLY AND TRANSPORTATION CHARGES	Collection of raw materials from BHEL, R.C. Puram, Hyderabad to vendor works and supply of the finished equipment/sub assembly from vendor works to BHEL, R.C. Puram store is in vendor scope, that means to and fro transportation charges (including freight and insurances) are to be borne by vendor. In case, even after one week from the intimated date, vendor does not place the vehicle for collection of ready materials from BHEL, then BHEL will supply the raw materials and transportation charges shall be deducted from vendor as per BHEL norms.	
10	PAYMENT TERM	75% payment will be made within 45/60/90 (MSE/Medium Enterprise/Non MSME) days from the date of receipt of finished items at our works against GR and 25% will be paid after material accounting is done. Note: A. Above due date is reckoned from the date of Receipt of material or 15 days from the date of submission of complete set of documents as per PO whichever is later. Payment will be made on acceptance of Material. B. MSEs (covered under MSME Act) need to register and renew periodically and update the same with BHEL C. The taxes that are reimbursed are limited to applicable taxes as on the Purchase Order delivery date or the amount actually paid whichever is less. D. Adherence to the above time schedule of payment is contingent upon Bidder complying with GST provisions and availment of Input Tax Credit by BHEL before the date of payment. E. In case of packaged items, 10% of supply value will be retained till completion of total supplies. F. Bidders to comply with clause 11 on GST requirements	
11	VALIDITY OF OFFER	Your Offers must be kept valid for a period of 90 days from the date of part-i bid opening and in the event of our acceptance of your offer the prices finalized should remain firm for " One Year" from the date of finalisation of tender (approval of PO note). However same may be extended for another one year based on mutual agreement.	
12	PENALTY	In the event of delay in supply of goods, a penalty of 0.5% per week or part there of shall be levied on the undelivered portion subject to a maximum of 10% of the delayed order value. Reckoning date for penalty is c-note date.	
13	TOOLS	Tools,gauges,jigs & fixtures and instruments will not be supplied by BHEL	
14	REJECTION OF CONDITIONAL OFFERS	Conditional offers if any submitted by the firms will not be acceptable.	
15	MODE OF TENDER FINALIZATION	There shall be no reverse auction in this tender and thus tender shall be finalized with opening of sealed cover price bids.	

16	BREACH OF CONTRACT, REMEDIES AND TERMINATION	In case of Breach of Contract, BHEL shall recover 10% amount of the contract value from the vendor in any of the following manners: (i) Forfeiture/ encashment of Security instruments (Performance security, EMD etc.) available against the said contract. (ii) Pending / Available bills of the vendor , any amount available with BHEL HPEP or any other units of BHEL. (iii) In case recovery is not possible from security instruments or from financial remedies mentioned above, legal remedies shall be pursued. Important Notes: (1) Further, levy of liquidated damages, debarment, termination, de-scoping, short-closure, etc., shall be applied as per provisions of the contract.	
17	BASIS OF TENDER EVALUATION	Tender will be evaluated on Item wise basis. Vendor quoting lowest against each item shall qualify as L1 for that item.	
18	QUANTITY DISTRIBUTION	Total contract value shall be distributed to maximum three vendors in the manner given below: <u>Case-1: In case of single qualified bidder:</u> Total value of contract will be loaded on L1 vendor only. <u>Case-2: In case of only two qualified bidders:</u> Out of total value of contract 60%(+/- 10%) will be given to L1 vendor and 40%(+/- 10%) will be counter offered to L2 vendor at L1 price subject to approval of competent authority. If L2 vendor does not accept the L1 rate through counter offer then total quantity will be loaded on L1 vendor. <u>Case-3: In case of three qualified bidders:</u> Distribution will be limited to N-1 bidders (where N is number of qualified bidders). Out of total value of contract 60%(+/- 10%) will be given to L1 vendor and 40%(+/- 10%) will be counter offered to L2 vendor at L1 price. If L2 vendor does not accept the L1 rate through counter offer then the same quantity shall be counter offered to next ranking vendor. If none of the vendor is accepting the same counter offer, then the total quantity will be loaded on L1 vendor only. <u>Case-4: In case of four or more qualified bidders:</u> Distribution will be limited to N-1 bidders (where N is number of Qualified bidders) maximum to three bidders. Out of total value of contract 50%(+/- 5%) will be offered to L1 vendor and 30% (+/- 5%) will be counter offered to L2 vendor at L1 prices. Remaining 20%(+/- 5%) will be counter offered to L3 vendor at L1 prices. If any of the vendor is not accepting the counter offer then the same quantity shall be counter offered to next ranking vendor. If none of the vendor is accepting the same counter offer, then that quantity will be loaded on L1 vendor only.	
19	Re-Distribution of Quantity	After finalization of the Framework Agreement, in the event that any vendor fails to execute the order in accordance with the terms and conditions of the NIT, BHEL shall have the absolute and exclusive right, at its sole discretion, to re-distribute and load the quantity allocated to the defaulting vendor on to the remaining vendors, in order of tender priority, based on the recommendations of the EMPOWERED Committee.	
20	SPLITTING SPECIFIC CLAUSE	As splitting provision is envisaged in this tender, bidders will be provided an opportunity during techno commercial evaluation. a. To withdraw any commercial deviations having loading criteria. b. Accept revised common commercial terms with or without impact bid. In case any bidder does not agree, his offer will be rejected	
21	SCRAP	Scrap Cost will not be deducted at BHEL end while material accountal. Therefore, vendor has to quote the price accordingly.	
22	VENDOR QUALIFICATION	Vendor has to comply with PQC (Pre-qualification criteria) requirement.	
23	INSPECTION at Vendor Works	Stage and final inspection shall be carried out by BHEL QC/BHEL TPIA and or Customer (as applicable).Tests & Inspection shall be in line with drawing and technological scope/approved quality plan. Vendor shall raise inspection call accordingly.	

24	DRAWINGS	a)These drawings are the property of BHEL. Copying or circulating or misuse of these drawings or parts of it by vendor is not permitted and will have to face legal consequences if found so. b)Assembly drawings shall be provided along with enquiry. However complete drawings will be given at the time of placement of order.	
25	CLARIFICATION	If any further clarification is required kindly depute your representative for discussion before submitting your offer. Contact phone no: 040-23184758 mob: 8978571886/9751928957/9959477023. Mail ID: sivaprasadj@bhel.in, pykrishna@bhel.in and nagarjunasagar339@bhel.in	
26	GUARANTEE	Equipment/components shall be guaranteed against all manufacturing defects for a period of 24 months after supply or 18 months after commissioning whichever is later. Defects noticed shall be replaced / rectified at free of cost by the supplier.	
27	LOADING/UNLOADING FACILITIES	You must have adequate material handling facilities for safe unloading of raw materials/loading of finished products.	
28	INSPECTION at BHEL Hyderabad	The goods will be cleared for dispatch on provisional basis. On receipt of the goods at our BHEL shop/site, the goods shall be subjected to inspection. And any defects noticed during assembly, testing or use , not withstanding the same may have been passed, certified and paid for – is to be rectified by the subcontractor, in whole or in part, as the case may require, at their own cost. In the event of his failure to do so with in reasonable period, BHEL will rectify or remove and re-execute the work at the risk & cost of subcontractor. The cost of rework or rejection, and any cost of freight incidental to such work will be to the subcontractor's account. Thus, Our acceptability of the goods shall be final.	
29	CONSEQUENCES OF REJECTION	In the event of any rejection arising due to the workmanship or due to mishandling of assemblies or components or any kind of damage which renders the assemblies unfit for use, the cost of each assembly shall be recovered along with taxes & duties as per BHEL norms from the bank guarantee being furnished by vendor.	
30	RIGHT OF CANCELLATION	BHEL shall have the right to cancel the contract wholly or in part in case it is obliged to do so on account of any decline, diminution, curtailment or stoppage of business.	
31	CONSEQUENCE OF FAILURE TO EXECUTE THE ORDER	After placing PO, in case vendor fails to execute the order due to reasons attrributable to vendor, it is vendor's obligation to return the raw material to BHEL, failing which BHEL will bring back material as per transport contract and the amount will be taken/deducted from available bills of vendor. Further action will be initiated on vendor for non performance of contract as per BHEL norms.	
32	PACKING	For any loss or damages arising out of improper packing and dispatch, the vendor will be held responsible	
33	TAXES & DUTIES	Applicable taxes and duties to be mentioned in the offer.	
34	BANK GUARANTEE	For material valuing upto Rs. 50,000/- per SCO no BG is required. For material valuing more than Rs. 50,000/- per SCO , 10% of the material value shall be provided as BG specific to enquiry with sufficient validity minimum six months or any other financial instrument as specified by BHEL without which PO will not be released.	
35	DISCRETION OF ACCEPTANCE	BHEL reserves right to accept or reject any tender or a portion thereof without assigning any reason whatsoever. BHEL has the right to refloat or short-close the Tender if L1 price is not the lowest acceptable price, or for other reasons.	
36	MSE CLAUSE	"MSE suppliers can avail the intended benefits only if they submit along with the offer, Udyam Registration Certificate. Non submission of such documents will lead to consideration of their bid at par with other bidders. No benefit shall be applicable for this enquiry if any deficiency in the above required documents are not submitted before price bid opening. If the tender is to be submitted through E-Procurement portal, then the above required documents are to be uploaded on the portal. Documents should be notarized or attested by a Gazetted Officer."	

37	INDEMNITY	Subcontractors shall indemnify BHEL against the following: (A) All claims for injury or damage caused by the sub contractor's negligence or the negligence of subcontractor's employees or arising from any defect in the goods supplied or on the work carried out by the subcontractor's. (B) All claims for injury to the subcontractor employees or agents employed whilst on BHEL premises.	
38	GENERAL	Any change in the address/reduction in qualified workplaces/ownership of the subcontractor's unit during the operation of the contract will have to be made only after getting the specific written approval from BHEL. Any deviation found later will be dealt with as deemed fit, including cancellation of registration.	
39	ACTION AND COMPENSATION IN CASE OF BAD WORKMANSHIP	If any work has been executed with unsound, imperfect or bad workmanship or with materials of inferior quality, the Sub-contractor shall on demand in writing from BHEL specifying the work, material/articles complained of, notwithstanding that the same may have been passed, certified and paid for, forthwith, rectify the work so specified in whole or in part as the case may require, at their own cost and in the event of his failure to do so within reasonable period, BHEL will rectify or remove and re-execute the work at the risk and cost of the Sub-contractor.	
40	CONFLICT OF INTEREST	A bidder shall not have conflict of interest with other bidders. Such conflict of interest can lead to anti-competitive practices to the detriment of Procuring Entity's interests. The bidder found to have a conflict of interest shall be disqualified. A bidder may be considered to have a conflict of interest with one or more parties in this bidding process, if: a) they have controlling partner (s) in common; or b) they receive or have received any direct or indirect subsidy/ financial stake from any of them; or c) they have the same legal representative/agent for purposes of this bid; or d) they have relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the bid of another Bidder; or e) Bidder participates in more than one bid in this bidding process. Participation by a Bidder in more than one Bid will result in the disqualification of all bids in which the parties are involved. However, this does not limit the inclusion of the components/ sub-assembly/ Assemblies from one bidding manufacturer in more than one bid; or f) In cases of agents quoting in offshore procurements, on behalf of their principal manufacturers, one agent cannot represent two manufacturers or quote on their behalf in a particular tender enquiry. One manufacturer can also authorise only one agent/dealer. There can be only one bid from the following: 1. The principal manufacturer directly or through one Indian agent on his behalf; and 2. Indian/foreign agent on behalf of only one principal; or g) A Bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the contract that is the subject of the Bid; or h) In case of a holding company having more than one independently manufacturing units, or more than one unit having common business ownership/management, only one unit should quote. Similar restrictions would apply to closely related sister companies. Bidders must proactively declare such sister/ common business/ management units in same/ similar line of business.	

41	INTEGRITY PACT (IP)	(a) IP is a tool to ensure that activities and transactions between the Company and its Bidders / Contractors are handled in a fair, transparent and corruption free manner. Following Independent External Monitors (IEMs) on the present panel have been appointed by BHEL with the approval of CVC to oversee implementation of IP in BHEL. <u>Details of IEM for this tender is furnished below:</u> i) Name: Shri Otem Dai, IAS (Retd.) E-mail: iem1@bhel.in ii) Name: Shri Bishwamitra Pandey IRAS (Retd.) E-mail: iem2@bhel.in iii) Name: Shri Mukesh Mittal, IRS (Retd.) E-mail: iem3@bhel.in (b) The IP as enclosed with the tender is to be submitted (duly signed by authorized signatory) along with techno-commercial bid (Part-I, in case of two/three part bid). Only those bidders who have entered into such an IP with BHEL would be competent to participate in the bidding. In other words, entering into the Pact would be a preliminary qualification. (c) Please refer Section-8 of the IP for the Role and Responsibilities of IEMs. In case of any complaint arising out of the tendering process, the matter may be referred to the panel of IEMs. All correspondence with the IEMs shall be done thru' e-mail only. Note: No routine correspondence shall be addressed to the IEM (phone / post / email) regarding the clarifications, time extensions or any other administrative queries, etc. on the tender issued. All such clarifications / issues shall be addressed directly to the tender issuing (procurement) department officials.	
Note: The above terms and conditions are applicable for this tender. All the remaining terms and conditions are as per ITB.			

VENDOR'S SIGNATURE WITH COMPANY SEAL

Annexure - I								
Item No	Item Description	Equipment	Reference Drawing	No of components	Approx Each Component Assembly Weight Range in (kg)	Approx. Enquiry Qty (Total) in (kg)	Scope	Quoted/ Not quoted
1	HPH Hemi Head Fabrication including machining and Heat Treatment.	HP Heater (HPH)	31750501563, 3175051124, 41750103137 & 41750102798.	60	10000-12000	643800	Gas Cutting, Boring and Machining of T1, T2, T4 & T6 openings, Fabrication of Hemi Head Assembly, Heat Treatment of Hemi Head Assembly and Final Edge Preparation Machining of Hemi Head Assembly (Refer Scope Sheet in Tender Docs)	
2	DSH Hemi Head Fabrication including machining and Heat Treatment.	De-super Heater (DSH)	31750501151, 3175051152, 41750501254 & 41750102798.	26	6000-8000	163800	Gas Cutting, Boring and Machining of T1, T2, T4 & T6 openings, Fabrication of Hemi Head Assembly, Heat Treatment of Hemi Head Assembly and Final Edge Preparation Machining of Hemi Head Assembly (Refer Scope Sheet in Tender Docs)	

Notes:
1. The total quantity mentioned in the Annexure-I is indicative only. The actual quantity may differ as per BHEL requirements.
2. Vendor has to clearly mention quoted or not quoted agasint each item.

		TECHNOLOGICAL PROCESS RE-PRINT		Production Order	Date
Plant: P006		Equipment No:		102201123	11.11.2025
Type	WBS Element	Customer / Project Name			Part No
	P-1032283400-17524	Adani Power Limited (Raipur Ph III)			17524216
Drawing No.-Var	E.Rev.	T.Rev	Material No.	Name Of The Part	
31750501563-00A	01		31750501563-00A	HEMIHEAD ASSLY HPH 7A/B (NOZZ MC)	
Pos.No	BOM Qty	Ord Qty	MU	St.	Nt.Wt.
0015	1.000	1.000	EA	IS06	10,730.000
Remarks					MDCC
					Yes

BOM Details

Pos.No	IC	Material Code		P.No	Remarks					
Matl.Spec	SPK	Qty	MU	Size 1	Size 2	Size 3	Formula Key	MPcs	St.	
0001	L	31750501563-01		17524217						
		1.000	EA	0.000	0.000	0.000		0.000	IS06	
Material Description : HEMI HEAD (ID 1650 x 168 Min)				Reservation : 0015920326		Item : 0001		Picklist:		

0002	L	31750501563-02		17524219						
		1.000	EA	0.000	0.000	0.000		0.000	IS06	
Material Description : PROD. TEST COUPON FOR HEMIHEAD				Reservation : 0015920326		Item : 0002		Picklist:		

0003	L	HE9715014011		17524221	QC, CIB, Verfn by customer					
HE51113-NA		1.000	EA	0.000	0.000	0.000		0.000	ST06	
Material Description : T1 NOZZLE MACHINED				Reservation : 0015920326		Item : 0003		Picklist:1000741981		

0004	L	HE9715004911		17524222	QC, CIB, Verfn by customer					
HE51113-NA		1.000	EA	0.000	0.000	0.000		0.000	ST06	
Material Description : MANWAY NOZZLE MACHINED				Reservation : 0015920326		Item : 0004		Picklist:1000741041		

0005	L	31750501124-00		17524223						
		1.000	EA	0.000	0.000	0.000		0.000	IS06	
Material Description : PASS PARTITION DETAILS				Reservation : 0015920326		Item : 0005		Picklist:		

0006	L	HE9715014020		17524241	QC, CIB, Verfn by customer					
HE51113-NA		1.000	EA	0.000	0.000	0.000		0.000	ST06	
Material Description : T2 NOZZLE MACHINED				Reservation : 0015920326		Item : 0006		Picklist:1000741959		

Operation Details

Operation Details								
Opr No	W.C.	Plant	Ctl. ky	Prep Time	Time/ PC(M)	Time/ PC(L)	Total Time	QC Signature
PRT Cat	PRT No.			PRT Description				
Sub Operation Text								
0011	DA9995	P006	ZP04	0.000	0.000	0.000	0.000	

Chkd. By	Dt.	ECR/ Rev No	Dt.	Pro.Plnr	Rate Fixr / Tool Plnr	Pg no	No.of Pgs
	21.08.2026					1	4

		TECHNOLOGICAL PROCESS				Production Order		Date	
Plant: P006		Equipment No:				102201123		11.11.2025	
Type		Work Order / PGMA		Customer				Part No	
		P-1032283400-17524/ 17524		Adani Power Limited (Raipur Ph III)				17524216	
Drawing No.-Var		E.Rev.	T.Rev.	Material No.		Name Of The Part			
31750501563-00A		01		31750501563-00A		HEMIHEAD ASSLY HPH 7A/B (NOZZ MC)			
Pos.No	BOM Qty	Ord Qty	MU	St.	Nt.Wt.	Remarks			
0015	1.000	1.000	EA	IS06	10,730.000				
Operation Details									
Opr No	W.C.	Plant	Ctl. ky	Prep Time	Time/ PC(M)	Time/ PC(L)	Total Time	QC Signature	
PRT Cat	PRT No.			PRT Description					
Sub Operation Text									
P-1032283400-17524 Hemihead assly with PWHT, Final machining QP: HYQA/SSMQP/ADANI/800/03 SCOPE OF WORK 1., Code of construction: ASME SEC-VIII, DIV-1 HEI & IBR. 2., For weld details and WPS. Refer drg. No. 3-17501-00544 3., IBR Certificate in form-III / IV shall be submitted along with equipment 4., If job is loaded outside of the Telangana State, get drawing approved from local IBR authorities prior to manufacture of assembly., 5., Get approval of welding procedures and get qualify the welders as per ASME Sec.IX under CIB & BHEL QC., Qualified welders only shall employed on the job. 6., Nozzles and Manway forging will be supplied with fully machined condition with material attestation marks by QC, CIB and Customer. 7., Hemi head will be supplied in as inducted condition with material attestation by QC, CIB and Customer. 8., Marking, gas cutting, machining of openings for manway and T1/T2 nozzles on hemi head shall be carried out by vendor. 9. Marking of holes on hemi head for manway and T1/T2 nozzle shall be offered to BHEL QC. Gas cutting of openings shall be carried out only after clearance of marking by BHEL QC. 10. 25mm allowance radially on openings of T1/T2 nozzles and Manway shall be provided for machining after gas cutting. 11. Partition plate hemi head side, bolting ring, manhole cover plate, handle, expansion joint, end plate shall be supplied as raw material cut sizes with material attestation marks. Material preparation of these materials as per each part drawing is in vendor scope. 12. Manhole cover and bolting ring drilling, tapping shall be carried as single unit after welding of bolting ring to partition plate. Manhole cover holes shall be enlarged separately to size mentioned in the man hole cover drawing later after combined drilling and tapping is completed. 13. Expansion joint shall be split in two halves on diameter all along the length after bending. Expansion joint shall be welded to partition plate only on hemi head side. Welding of expansion joint to partition plate on bolting ring side will be carried out by BHEL 15. Handles shall be welding to manhole cover before combined drilling. 16. Fit-up of bolting ring to partition plate shall be offered to BHEL QC. DP/PT of bolting ring to partition plate shall be offered to BHEL QC. 17. Marking of holes for combined drilling of bolting ring and manhole cover shall be offered to BHEL QC.									
Chkd. By	Dt.	ECR/ Rev No	Dt.	Pro.Plnr	Rate Fixr / Tool Plnr	Pg no	No.of Pgs		
	21.08.2026					2	4		



TECHNOLOGICAL PROCESS

Production Order

Date

Plant:P006

Equipment No:

102201123

11.11.2025

Type

Work Order / PGMA

Customer

Part No

P-1032283400-17524/
17524

Adani Power Limited (Raipur Ph III)

17524216

Drawing No.-Var

E.Rev.

T.Rev.

Material No.

Name Of The Part

31750501563-00A

01

31750501563-00A

HEMIHEAD ASSLY HPH 7A/B (NOZZ MC)

Pos.No

BOM Qty

Ord Qty

MU

St.

Nt.Wt.

Remarks

0015

1.000

1.000

EA

IS06

10.730.000

Operation Details

Opr No

W.C.

Plant

Ctl. ky

Prep Time

Time/ PC(M)

Time/ PC(L)

Total Time

QC Signature

PRT Cat

PRT No.

PRT Description

Sub Operation Text

18. Fit-up of expansion joint to Partition plate shall be offered to BHEL QC. DP/PT of expansion joint to partition plate shall be offered to BHEL QC.

19., Before going to fit up of Nozzles and Manway to hemihead, Get dimensional inspection by BHEL QC.

20., Grind a band width of 150 mm around nozzle openings and Manway opening on outside and inside to smooth on Hemi head and also grind welding edges on Nozzles and Manway forgings.

21., Mark axes on Hemihead and Manway forgings.

22., Fit up Nozzles and Manway forging at respective holes on hemihead.

23., Get Inspection of fit up by BHEL QC, CIB.

24., Pre-heat and Weld root runs on all joints.

25., Back grind the root layers of joints of nozzles and manway forgings to Hemi head .

26., P.T on root layers of nozzle, manway joints and get Inspection by BHEL QC.

27., Preheat and weld the nozzle joints completely by maintaining pre-heat throughout welding, clean after each layer. Ref. Det.- J/1 of weld detail drg. Clean the welds. (Required temperature shall be maintained throughout welding)

28. Preheat and weld the Mannway forging joint completely by maintaining pre-heat throughout welding, clean after each

Layer. Ref. Det.-P of weld detail drg. Clean the welds. (Required temperature shall be maintained throughout welding)

29., Grind the weld joints of nozzles and manway to HH to smooth surface suitable for U.T.

30., U.T of joints of nozzles and Manway to HH and get inspection by BHEL QC, CIB, Customer.

31., M.T of joints of nozzle and Manway to HH and get inspection by BHEL QC, CIB, Customer.

32. Partition plate hemi head side along with expansion joint shall be fit-up to hemi head only after UT,PT of nozzles of manway welding joints are cleared by BHEL QC, CIB and customer. Inspection of partition plate fit-up to hemi head BHEL QC.

33. Pre-heat and weld partition plate to hemihead. DP/PT of partition plate joint after back grinding. Inspection by BHEL QC. Pre-heat and weld partition plate after back grinding clearance by BHEL QC.

34. Kerosene test shall be carried out for partition plate to hemi head welding joint. Inspection by BHEL QC.

35. After clearance of kerosene test by BHEL QC. Partition plate shall be gas cutting at the expansion center line as shown in the drawing.

Inspection of hemi head assembly before and after gas cutting of

Chkd. By

Dt.

ECR/ Rev No

Dt.

Pro.Plnr

Rate Fixr / Tool Plnr

Pg no

No.of

21.08.2026

3

Pgs
4

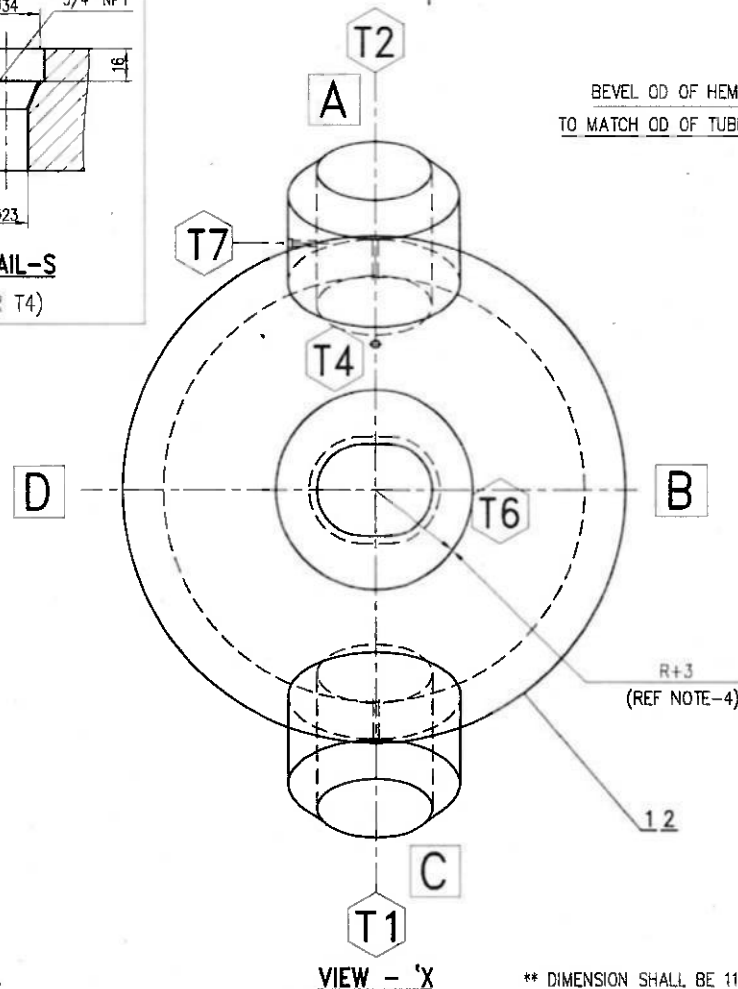
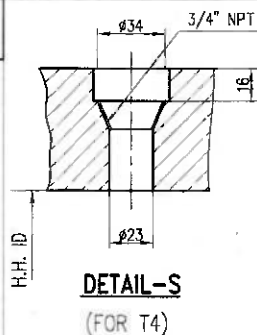
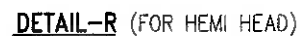
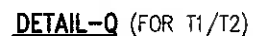
		TECHNOLOGICAL PROCESS				Production Order		Date	
						102201123		11.11.2025	
Plant:P006		Equipment No:						Part No	
Type		Work Order / PGMA		Customer				17524216	
		P-1032283400-17524/ 17524		Adani Power Limited (Raipur Ph III)					
Drawing No.-Var		E.Rev.	T.Rev.	Material No.		Name Of The Part			
31750501563-00A		01		31750501563-00A		HEMIHEAD ASSLY HPH 7A/B (NOZZ MC)			
Pos.No	BOM Qty	Ord Qty	MU	St.	Nt.Wt.	Remarks			
0015	1.000	1.000	EA	IS06	10,730.000				
Operation Details									
Opr No	W.C.	Plant	Ctl. ky	Prep Time	Time/ PC(M)	Time/ PC(L)	Total Time	QC Signature	
PRT Cat	PRT No.			PRT Description					
Sub Operation Text									
partition plate by BHEL QC. 36. The equipment shall be manufactured completely as per drawing and code. 37.,,All notes/remarks on drawing and stage inspections as per quality plan shall strictly be followed. 38. Clearance of hemi head assembly after partition plate welding to hemi head by BHEL QC for PWHT and final machining. 39. PWHT Cycle S.R Temperature - 600°C to 650°C Rate of Heating from 300°C- 55°C/Hour. (Heating/Cooling-210) Soaking Time (Minimum) - 195 Minutes. (Soaking=168 mm) Rate of Cooling upto 400°C - 55°C/Hour. Further cooling in still air NOTE : Thermocouples are to be placed close to weld joints REFER PLANT STANDARD NO. HY 0640763 FOR S.R If single hemi head is loaded then two thermocouples shall be placed on the hemi head, one at hemi head to manway nozzle weld joint and one at T1/T2 nozzle to hemi head joint. If multiple jobs are loaded, then all the furnace thermocouples shall be used. If multiple jobs are loaded then furnace loading cycle shall be with maximum soaking time of clubbed cycles, rate of heating and rate of cooling shall be minimum of clubbed cycles. PWHT Chart clearance by BHEL QC, CIB and customer. 40. Final machining of hemi head assembly after PWHT as per drawing after PWHT. Skim cut shall be carried on the manway surface. Refer notes in the drawing. 41.,,Send all the NDT certificates, PWHT Charts approved by IBR for verification of inspection records by Customer. 42.,,Dimensional inspection of Hemi head assembly after PWHT, final machining as per drawing by BHEL QC. IRN shall be issued only after BHEL QC is satisfied itself with UT, PT inspection reports approved by CIB for T1/T2 and Manway nozzles weldings, all fit-up inspection reports, PT reports of all the weld joints, PWHT chart approved by CIB, Inspection reports of all machining activities. 43.,,Send the equipment with proper packing to avoid damages while in transport with proper identification marks and documents to 06 shop.									

Chkd. By	Dt.	ECR/ Rev No	Dt.	Pro.Plnr	Rate Fixr / Tool Plnr	Pg no	No.of Pgs
	21.08.2026					4	4

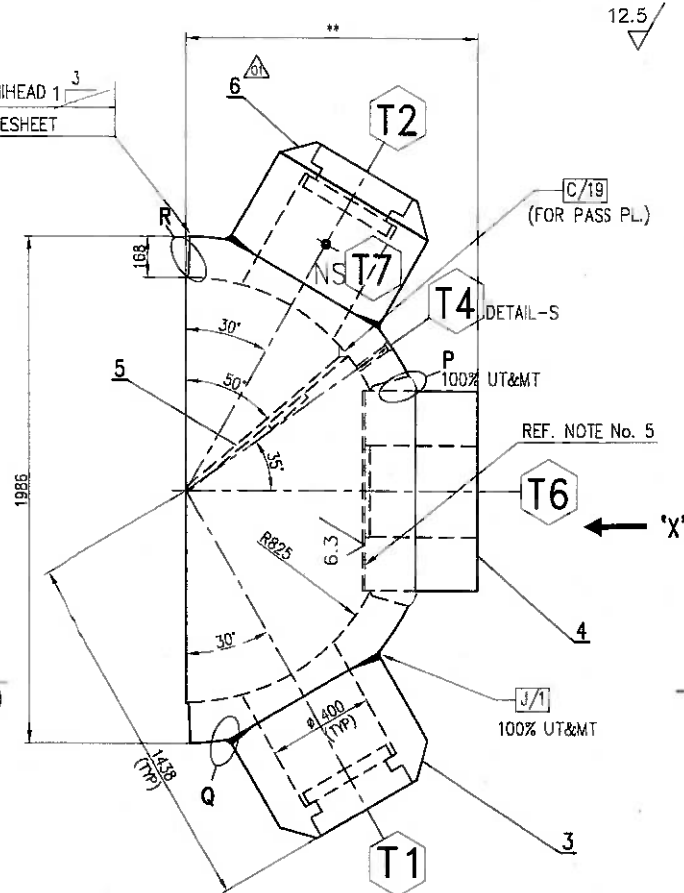
(ALL DIMENSIONS ARE IN mm)

INVENTORY NO.

DETAIL-P (FOR MAN WAY)



BEVEL OD OF HEMIHEAD 1 $\frac{3}{4}$
TO MATCH OD OF TUBESHEET



** DIMENSION SHALL BE 1155 MM IN MACHINED CONDITION (DETAIL-R) WITH MANWAY NOZZLE LENGTH OF 450 MM.

NOTES:—

1. FOR PASS PARTITION DETAILS REFER DRG. No. 3-175-05-01124.
 2. FOR WELD SYMBOLS & PROCEDURES REFER DRG. No. 3-175-01-00544.
 3. MT REQUIRED ON WELD EDGE PREPARATION FOR TUBE SHEET JOINT.
 4. WHERE R IS RADIUS IN ROUND OF MANWAY, REF. DRG. No. 3-175-05-01168.
 5. PROTECT MANWAY GASKET SEATING SURFACE SUITABLY AS SHOWN.
- PROTECTION PLATE SHALL BE REMOVED JUST PRIOR TO ASSLY OF GASKET.

REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTD	CHD	APPD
		CHD /APPD			CHD /APPD	01	22.01.2025	S.B.	AKS	KKK

T2 NOZZLE POSITION NO CHANGED TO 6.
REVISED AS SHOWN BY 

TYPE OF PRODUCT OR
NAME OF CUSTOMER/PROJECT

800 MW



BHARAT HEAVY ELECTRICALS LTD.
HYDERABAD

	NAME	SIGN.	DATE	NO. OF VAR.
DRN.	V.C.C.SAGAR	V.C.C.S	09.10.24	
CHD.	AK SAHOO	<i>AK</i>	14.10.24	NA
APPD.	KISHORE KUMAR	<i>KK</i>	14.10.24	

DEPT. HEE	UNTOL. DIMS. GR.		SCALE	WEIGHT (KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEMS
CODE 405	2/M/A		1 : 20	NA	NA	NA	NA

TITLE HEMI HEAD ASSLY.
(FOR HPHs)

DRAWING NO.
3-175-05-01563

REV
01

~~23-Jan-2025 13:50:03 RESTRICTED USE~~

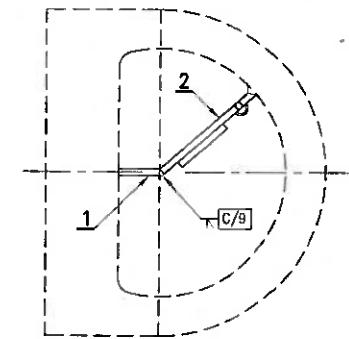
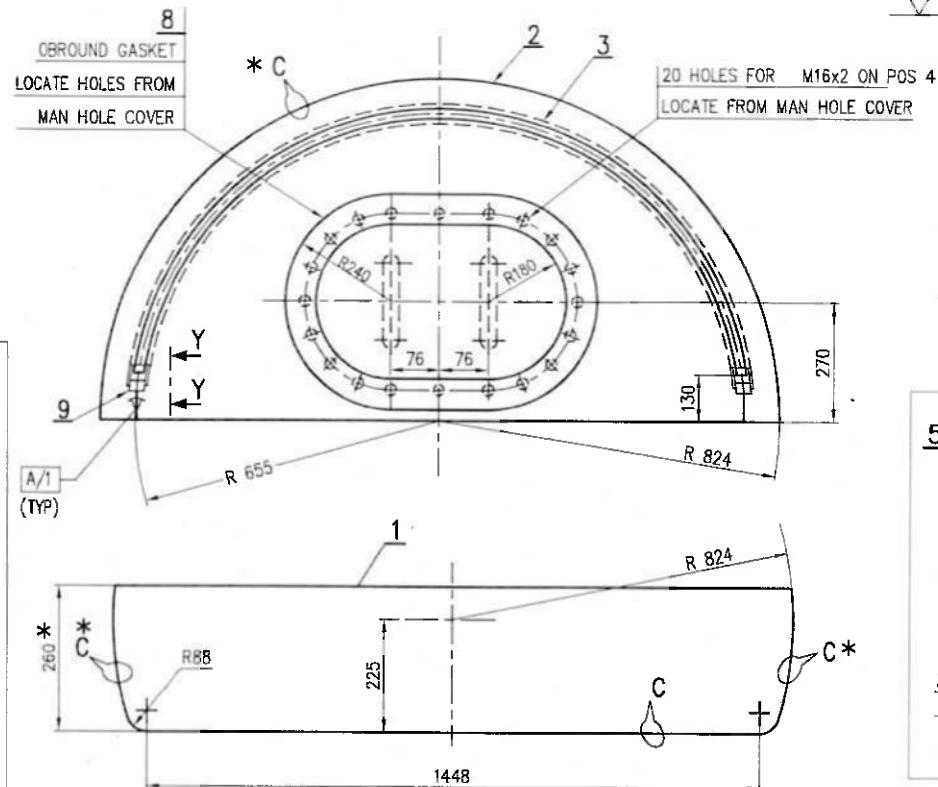
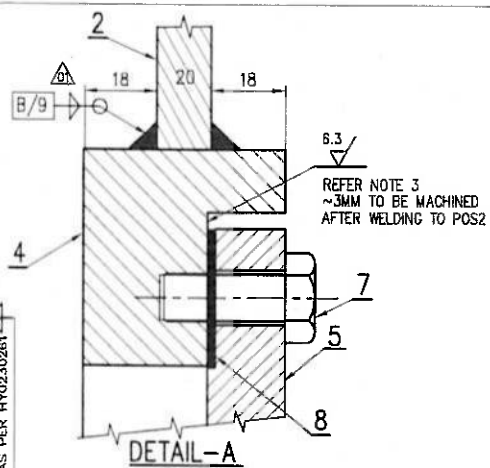
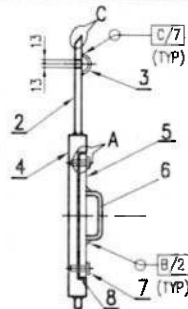
SAP Released

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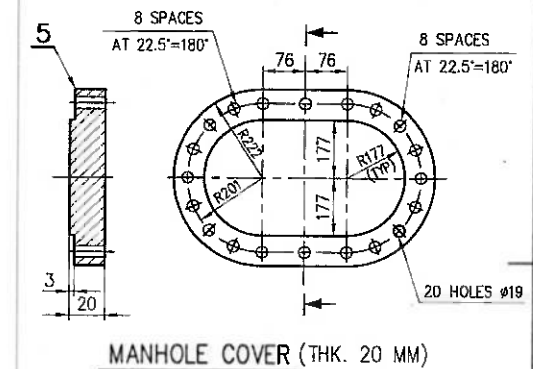
FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

DRG. NO. 3-175-05-01124



ASSEMBLY DETAIL

PASS PLATE
THK. 20 MM

NOTES :-

1. FOR WELD SYMBOLS & PROCEDURES REFER DRG. No. 31750100544.
- * 2. GRIND THE BEVEL & ADJUST THE SHAPE DURING ASSEMBLY
3. MACHINE THIS SURFACE TO 6.3 AFTER WELDING TO POS 2.
4. KEROSENE LEAK TEST OF WELDS TO BE DONE AFTER ASSLY OF HEMI HEAD.

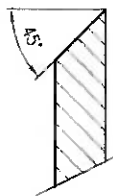
TYPE OF PRODUCT
OR
NAME OF CUSTOMER/PROJECTBHARAT HEAVY ELECTRICALS LTD.
HYDERABAD

NAME	SIGN.	DATE	NO.OF VAR.
DRN. RAJESH M	RAJESH	03.03.16	
CHD. K KISHORE KUMAR	KKK	03.03.16	NA
APPD. TSN BHARGAV	TSN	03.03.16	
REF. TO ASSY. DRG.	ITEM NO.	NO.OF ITEMS	REV.
-NA-	-NA-	-NA-	01
SHT. No 01	NO. OF SHT. 01		

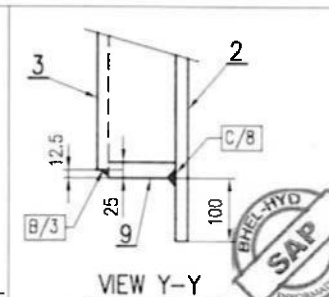
TITLE
PASS PARTITION DETAILSDRAWING NO.
3-175-05-01124REV.
01

DEPT. H.E.D	UNTO. DIMS. GR. 0/M/F	SCALE	WEIGHT (KG)	REF. TO ASSY. DRG.	ITEM NO.	NO.OF ITEMS
CODE 405		N.T.S	NA	-NA-	-NA-	NA

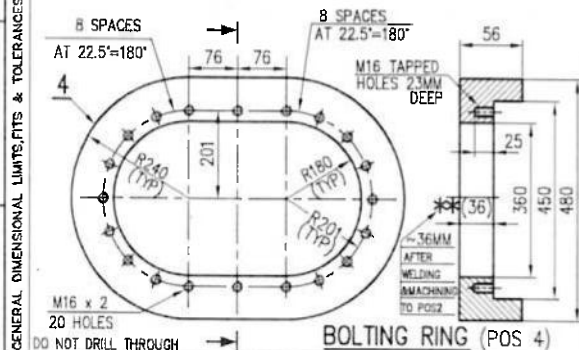
REV.	DATE	ALTERED	CHD	APPD
01	04.07.20	RAJESH M	A.K.S	K.K.K

POS 2 TO POS4 WELD DETAIL
CHANGED TO B/9
REVISED AS SHOWN AS 

DETAIL-B



VIEW Y-Y



BOLTING RING (POS 4)

REV.	DATE	ALTERED	CHD	APPD
01	04.07.20	RAJESH M	A.K.S	K.K.K

INVENTORY NO
SIGN. AND DATE
REF. DRG. NO.
COMPUTER FILE NAME
GENERAL DIMENSIONAL LIMITS, FITS & TOLERANCES AS PER HY0230261

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Jul Sat11 09:21 2020

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Therefore signatures are not essentially required.

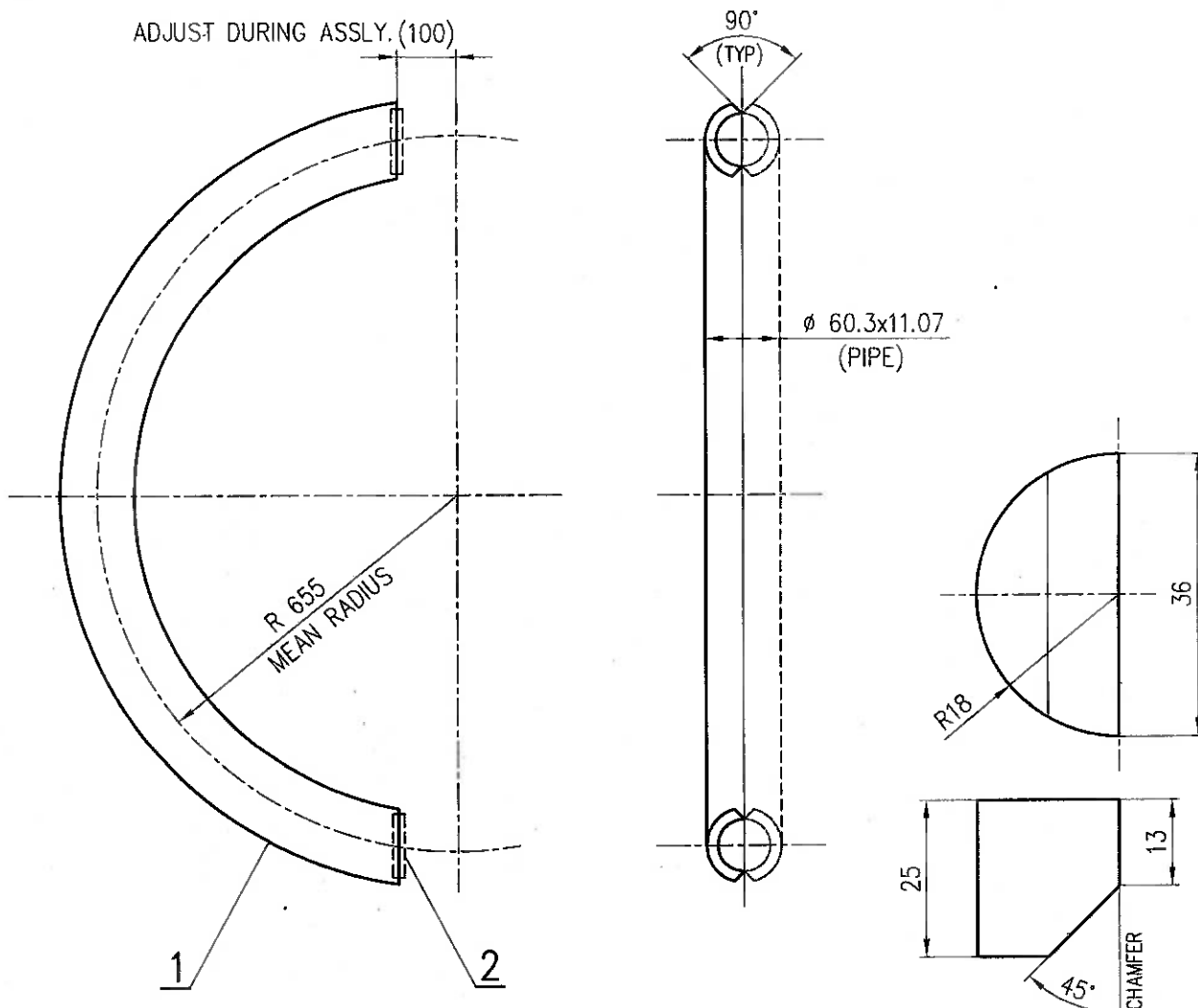
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INVENTORY NO. SIGN. AND DATE REF. DRG. NO.

FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

REV.	DATE	ALTERED	CHECKED	APPD	REV.	DATE	ALTERED	CHECKED	APPD	ADDITIONAL INFORMATION
										STATUS OF DRAWING
										DISTURIBUTION OF PRINTS

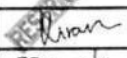
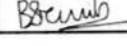
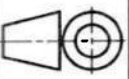


NOTES: -

1. DEVELOPED LENGTH = 1856 MM.
2. ONE HALF OF PIPE MAKES ONE EXPANSION JOINT.
3. MAKE BOTH HALVES USABLE.

POS.No. 2

(END COVER, PL 25 Thk.)

		PIPE Ø 60.3 x 11.07		SA 106 GR.B					
ITEM NO.	DESCRIPTION	DRAWING NO.		MATL. CODE		UNIT Wt.			
				MATL. SPEN.		QTY.			
 BHARAT HEAVY ELECTRICALS LTD. HYDERABAD				DRN.	NAME A K SAHOO	SIGN. AKS	DATE 04.04.15	NO.OF VAR.	
				CHD.	K KIRAN KUMAR		04.04.15	NA	
				APPD.	B.SRINIVAS		04.04.15		
DEPT. HED	GRADE OF TOL.DIM. C/M/F		SCALE NTS	WEIGHT (KG) 24.4 / 0.05		REF. TO ASSY DRG. NA		ITEM NO. NA	NO.OF ITEMS NA
CODE 405	TITLE EXPANSION JOINT (FOR HPHs)			CARD CODE	DRAWING NO. 4-175-01-03137			REV. 00	
Apr Mon 6 14.56 2015				This Drawing is printed from Engineering Digital Archive System (EDAS) Therefore sign and date are not required.				SHEET NO. 1 NO. OF SHEETS 1	

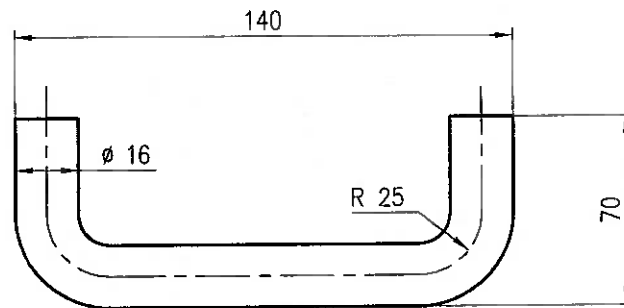
FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

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IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY

GEN. DIM. LIMITS, FITS, & TOLERANCES AS PER P.S. :- HY0230261

REV.	DATE	ALTERED		REV.	DATE	ALTERED		REV.	DATE	ALTERED	
		CHD./APPD.				CHD./APPD.				CHD./APPD.	



DEVELOPED LENGTH = 205 MM.

REMARKS		ITEM NO	DESCRIPTION		STD	MATL. CODE	A/C	UNIT	UNIT Wt.
						MATL. SPEN.			QTY.
 BHARAT HEAVY ELECTRICALS LTD. HYDERABAD					DRN.	A.ESHWAR	SIGN.	04.10.10	NO.OF VAR.
					CHD.	J.S.RAO		06.10.10	NA
					APPD.	KIRAN KUMAR		06.10.10	
DEPT. HE ENGG CODE 405	UNTOL. DIM. GR. 2/M/F			SCALE NTS	WEIGHT (KG) 0.32	REF. TO ASSY DRG. NA		ITEM NO. NA	NO.OF ITEMS NA
TITLE HANDLE					CARD CODE NA	DRAWING NO. 4-175-01-02798			REV. 00
					SHT No.	1	NO OF SHT.		1

		TECHNOLOGICAL PROCESS RE-PRINT				Production Order		Date	
Plant: P006		Equipment No:				102197853		11.11.2025	
Type		WBS Element		Customer / Project Name				Part No	
		P-1032283600-17522		Adani Power Limited (Raipur Ph III)				17522080	
Drawing No.-Var		E.Rev.	T.Rev	Material No.		Name Of The Part			
31750501151-01A		01		31750501151-01A		HEMIHEAD ASSLY DSH 7A/B (NOZZ MC)			
Pos.No	BOM Qty	Ord Qty	MU	St.	Nt.Wt.	Remarks			MDCC
0004	1.000	1.000	EA	IS06	6,300.000				Yes

BOM Details

Pos.No	IC	Material Code			P.No	Remarks				
Matl.Spec		SPK	Qty	MU	Size 1	Size 2	Size 3	Formula Key	MPcs	St.
0001	L	31750501151-03			17522081					
			1.000	EA	0.000	0.000	0.000		0.000	IS06
Material Description : HEMI HEAD (ID 1303 x 150 Min.SA266 FRG)					Reservation : 0015913440		Item : 0001		Picklist:	

0002	L	31750501151-04			17522083					
			1.000	EA	0.000	0.000	0.000		0.000	IS06
Material Description : TEST COUPON FOR HEMI HEAD FRG					Reservation : 0015913440		Item : 0002		Picklist:	

0003	L	HE9715014062			17522085	QC, CIB, Verfn by customer				
HE51113-NA			1.000	EA	0.000	0.000	0.000		0.000	ST06
Material Description : T1 NOZZLE MACHINED DSH					Reservation : 0015913440		Item : 0003		Picklist:1000741039	

0004	L	HE9715014089			17522086	QC, CIB, Verfn by customer				
HE51113-NA			1.000	EA	0.000	0.000	0.000		0.000	ST06
Material Description : OBROUND MANWAY NOZZLE MC DSH					Reservation : 0015913440		Item : 0004		Picklist:1000741957	

0005	L	31750501152-00			17522087					
			1.000	EA	0.000	0.000	0.000		0.000	IS06
Material Description : PASS PARTITION DETAILS (800MW)					Reservation : 0015913440		Item : 0005		Picklist:	

0006	L	HE9715014070			17522105	QC, CIB, Verfn by customer				
HE51113-NA			1.000	EA	0.000	0.000	0.000		0.000	ST06
Material Description : T2 NOZZLE MACHINED DSH					Reservation : 0015913440		Item : 0006		Picklist:1000741037	

Operation Details

Opr No	W.C.	Plant	Ctl. ky	Prep Time	Time/ PC(M)	Time/ PC(L)	Total Time	QC Signature			
PRT Cat	PRT No.			PRT Description							
Sub Operation Text											
0011	DA9995	P006	ZP04	0.000	0.000	0.000	0.000				
Chkd. By		Dt.	ECR/ Rev No		Dt.	Pro.Plnr		Rate Fixr / Tool Plnr		Pg no	No.of Pgs
		21.08.2026								1	5

		TECHNOLOGICAL PROCESS				Production Order		Date	
Plant:P006		Equipment No:				102197853		11.11.2025	
Type		Work Order / PGMA		Customer				Part No	
		P-1032283600-17522/ 17522		Adani Power Limited (Raipur Ph III)				17522080	
Drawing No.-Var		E.Rev.	T.Rev.	Material No.		Name Of The Part			
31750501151-01A		01		31750501151-01A		HEMIHEAD ASSLY DSH 7A/B (NOZZ MC)			
Pos.No	BOM Qty	Ord Qty	MU	St.	Nt.Wt.	Remarks			
0004	1.000	1.000	EA	IS06	6,300.000				
Operation Details									
Opr No	W.C.	Plant	Ctl. ky	Prep Time	Time/ PC(M)	Time/ PC(L)	Total Time	QC Signature	
PRT Cat	PRT No.			PRT Description					
Sub Operation Text									
P-1032283600-17522 Hemihead with PWHT and final machining									
QP: HYQA/SSMQP/ADANI/800/03									
SCOPE OF WORK									
1.,,Code of construction: ASME SEC-VIII, DIV-1 HEI & IBR.									
2.,,For weld details and WPS. Refer drg. No. 3-17501-00544									
3.,,IBR Certificate in form-III / IV shall be submitted along with equipment									
4.,,If job is loaded outside of the Telangana State, get drawing approved from local IBR authorities prior to manufacture of assembly.,,									
5.,,Get approval of welding procedures and get qualify the welders as per ASME Sec.IX under CIB & BHEL QC., Qualified welders only shall employed on the job.									
6.,,Nozzles and Manway forging will be supplied with fully machined condition with material attestation marks by QC, CIB and Customer.									
7.,,Hemi head will be supplied in as inducted condition with material attestation by QC, CIB and Customer.									
8.,,Marking, gas cutting, machining of openings for manway and T1/T2 nozzles on hemi head shall be carried out by vendor.									
9. Marking of holes on hemi head for manway (as per manway measure dimension) and T1/T2 nozzle shall be offered to BHEL QC. Gas cutting of openings shall be carried out only after clearance of marking by BHEL QC. Beveling and grinding of manway opening by gas cutting as per drawing.									
10. 25mm allowance radially on openings of T1/T2 nozzles shall be provided for machining after gas cutting.									
11. Partition plate hemi head side, bolting ring, manhole cover plate, handle, expansion joint, end plate shall be supplied as raw material cut sizes with material attestation marks. Material preparation of these materials as per each part drawing is in vendor scope.									
12. Manhole cover and bolting ring drilling, tapping shall be carried as single unit after welding of bolting ring to partition plate. Manhole cover holes shall be enlarged separately to size mentioned in the man hole cover drawing later after combined drilling and tapping is completed.									
13. Expansion joint shall be split in two halves on diameter all along the length after bending. Expansion joint shall be welded to partition plate only on hemi head side. Welding of expansion joint to partition plate on bolting ring side will be carried out by BHEL									
15. Handles shall be welding to manhole cover before combined drilling.									
16. Fit-up of bolting ring to partition plate shall be offered to BHEL QC. DP/PT of bolting ring to partition plate shall be offered to BHEL									
Chkd. By	Dt.	ECR/ Rev No	Dt.	Pro.Plnr	Rate Fixr / Tool Plnr	Pg no	No.of Pgs		
	21.08.2026					2	5		

		TECHNOLOGICAL PROCESS				Production Order		Date			
Plant:P006		Equipment No:				102197853		11.11.2025			
Type		Work Order / PGMA		Customer				Part No			
		P-1032283600-17522/ 17522		Adani Power Limited (Raipur Ph III)				17522080			
Drawing No.-Var		E.Rev.	T.Rev.	Material No.		Name Of The Part					
31750501151-01A		01		31750501151-01A		HEMIHEAD ASSLY DSH 7A/B (NOZZ MC)					
Pos.No	BOM Qty	Ord Qty	MU	St.	Nt.Wt.	Remarks					
0004	1.000	1.000	EA	IS06	6,300.000						
Operation Details											
Opr No	W.C.	Plant	Ctl. ky	Prep Time	Time/ PC(M)	Time/ PC(L)	Total Time	QC Signature			
PRT Cat	PRT No.			PRT Description							
Sub Operation Text											
QC. 17. Marking of holes for combined drilling of bolting ring and manhole cover shall be offered to BHEL QC. 18. Fit-up of expansion joint to Partition plate shall be offered to BHEL QC. DP/PT of expansion joint to partition plate shall be offered to BHEL QC. 19., Before going to fit up of Nozzles and Manway to hemihead, Get dimensional inspection by BHEL QC. 20.,Grind a band width of 150 mm around nozzle openings and Manway opening on outside and inside to smooth on Hemi head and also grind welding edges on Nozzles and Manway forging. 21.,Mark axes on Hemihead and Manway forgings. 22.,Fit up Nozzles and Manway forging at respective holes on hemihead. 23.,Get Inspection of fit up by BHEL QC, CIB. 24.,Pre-heat and Weld root runs on all joints. 25.,Back grind the root layers of joints of nozzles and manway forgings to Hemi head . 26.,P.T on root layers of nozzle, manway joints and get Inspection by BHEL QC. 27.,Preheat and weld the nozzle joints completely by maintaining pre-heat throughout welding, clean after each layer. Ref. Det.- J/I of weld detail drg. Clean the welds. (Required temperature shall be maintained throughout welding) 28. Preheat and weld the Mannway forging joint completely by maintaining pre-heat throughout welding, clean after each Layer. Ref. Det.-P of weld detail drg. Clean the welds. (Required temperature shall be maintained throughout welding) 29.,Grind the weld joints of nozzles and manway to HH to smooth surface suitable for U.T. 30.,U.T of joints of nozzles and Manway to HH and get inspection by BHEL QC, CIB, Customer. 31.,M.T of joints of nozzle and Manway to HH and get inspection by BHEL QC, CIB, Customer. 32.Partition plate hemi head side along with expansion joint shall be fit-up to hemi head only after UT,PT of nozzles of manway welding joints are cleared by BHEL QC, CIB and customer. Inspection of partition plate fit-up to hemi head BHEL QC. 33. Pre-heat and weld partition plate to hemihead. DP/PT of partition plate joint after back grinding. Inspection by BHEL QC. Pre-heat and weld partition plate after back grinding clearance by BHEL QC. 34. Kerosene test shall be carried out for partition plate to hemi head welding joint. Inspection by BHEL QC.											
Chkd. By		Dt.	ECR/ Rev No		Dt.	Pro.Plnr		Rate Fixr / Tool Plnr		Pg no	No.of Pgs
		21.08.2026								3	5

		TECHNOLOGICAL PROCESS				Production Order		Date	
Plant:P006		Equipment No:				102197853		11.11.2025.	
Type		Work Order / PGMA		Customer				Part No	
		P-1032283600-17522/ 17522		Adani Power Limited (Raipur Ph III)				17522080	
Drawing No.-Var		E.Rev.	T.Rev.	Material No.		Name Of The Part			
31750501151-01A		01		31750501151-01A		HEMIHEAD ASSLY DSH 7A/B (NOZZ MC)			
Pos.No	BOM Qty	Ord Qty	MU	St.	Nt.Wt.	Remarks			
0004	1.000	1.000	EA	IS06	6.300.000				
Operation Details									
Opr No	W.C.	Plant	Ctl. ky	Prep Time	Time/ PC(M)	Time/ PC(L)	Total Time	QC Signature	
PRT Cat	PRT No.			PRT Description					
Sub Operation Text									
35. After clearance of kerosene test by BHEL QC. Partition plate shall be gas cutting at the expansion center line as shown in the drawing. Inspection of hemi head assembly before and after gas cutting of partition plate by BHEL QC. 36. The equipment shall be manufactured completely as per drawing and code. 37.,,All notes/remarks on drawing and stage inspections as per quality plan shall strictly be followed. 38. Clearance of hemi head assembly after partition plate welding to hemi head by BHEL QC for PWHT and final machining. 39. PWHT Cycle S.R Temperature - 600°C to 650°C Rate of Heating from 300°C - 55°C/Hour.(Heating/Cooling-150) Soaking Time (Minimum) - 185 Minutes. (Soaking-150) Rate of Cooling upto 400°C - 55°C/Hour. Further cooling in still air NOTE : Thermocouples are to be placed close to weld joints REFER PLANT STANDARD NO. HY 0640763 FOR S.R If single hemi head is loaded then two thermocouples shall be placed on the hemi head, one at hemi head to manway nozzle weld joint and one at T1/T2 nozzle to hemi head joint. If multiple jobs are loaded, then all the furnace thermocouples shall be used. If multiple jobs are loaded then furnace loading cycle shall be with maximum soaking time of clubbed cycles, rate of heating and rate of cooling shall be minimum of clubbed cycles. PWHT Chart clearance by BHEL QC, CIB and customer. 40. Final machining of hemi head assembly after PWHT as per drawing after PWHT. Skim cut shall be carried on the manway surface. Refer notes in the drawing. 41.,,Send all the NDT certificates, PWHT Charts approved by IBR for verification of inspection records by Customer. 42.,,Dimensional inspection of Hemi head assembly after PWHT, final machining as per drawing by BHEL QC. IRN shall be issued only after BHEL QC is satisfied itself with UT, PT inspection reports approved by CIB for T1/T2 and Manway nozzles weldings, all fit-up inspection reports, PT reports of all the weld joints, PWHT chart approved by CIB, Inspection reports of all machining activities. 43.,,Send the equipment with proper packing to avoid damages while in									
Chkd. By		Dt.	ECR/ Rev No		Dt.	Pro.Plnr		Rate Fixr / Tool Plnr	
		21.08.2026						Pg no 4	
								No.of Pgs 5	

		TECHNOLOGICAL PROCESS				Production Order		Date	
Plant:P006		Equipment No:				102197853		11.11.2025	
Type		Work Order / PGMA		Customer				Part No	
		P-1032283600-17522/ 17522		Adani Power Limited (Raipur Ph III)				17522080	
Drawing No.-Var		E.Rev.	T.Rev.	Material No.		Name Of The Part			
31750501151-01A		01		31750501151-01A		HEMIHEAD ASSLY DSH 7A/B (NOZZ MC)			
Pos.No	BOM Qty	Ord Qty	MU	St.	Nt.Wt.	Remarks			
0004	1.000	1.000	EA	IS06	6,300.000				
Operation Details									
Opr No	W.C.	Plant	Ctl. ky	Prep Time	Time/ PC(M)	Time/ PC(L)	Total Time	QC Signature	
PRT Cat	PRT No.			PRT Description					
Sub Operation Text									
transport with proper identification marks and documents to 06 shop.									

SAP PRINT
RE-PRINT

Chkd. By	Dt.	ECR/ Rev No	Dt.	Pro.Plnr	Rate Fixr / Tool Plnr	Pg no	No.of Pgs
	21.08.2026					5	5

INVENTORY NO.

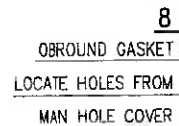
INVENTORY NO.

(FOR HPHs)

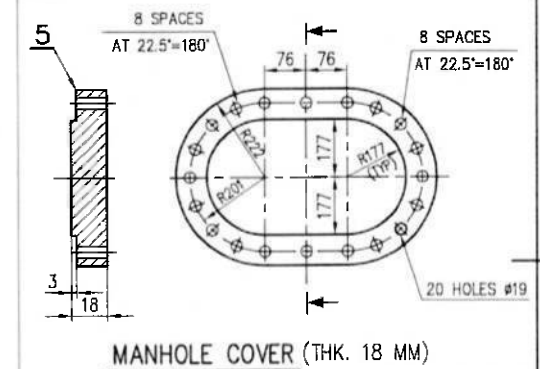
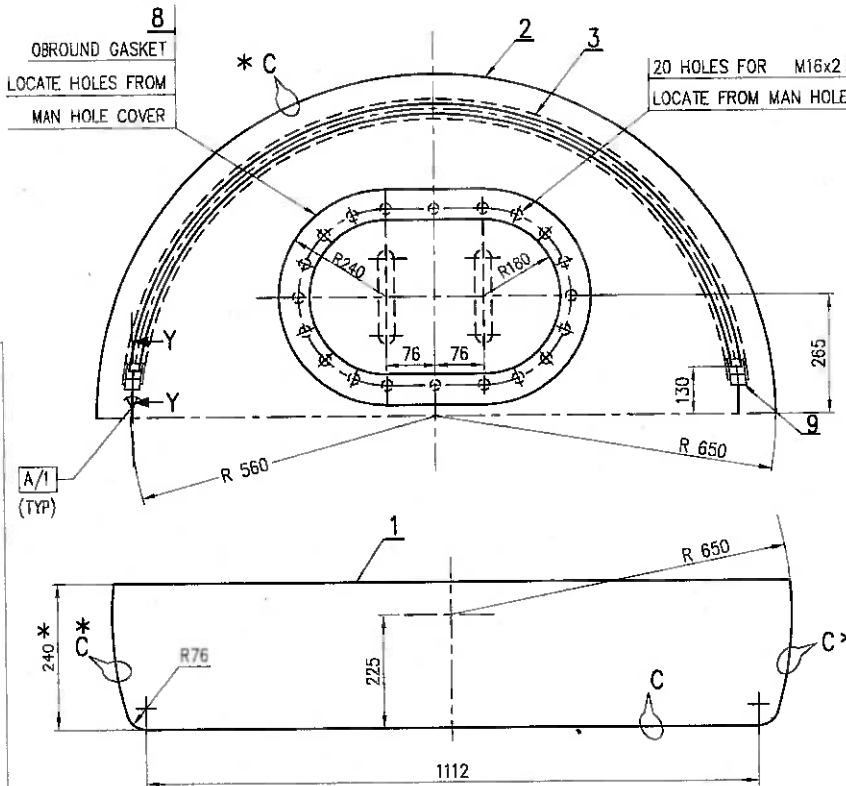
This Drawing is printed from EDAS. Signatures are not required.

(ALL DIMENSIONS ARE IN mm)

12.5



ASSEMBLY DETAIL

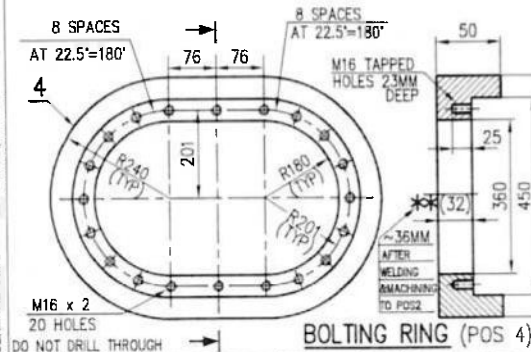


MANHOLE COVER (THK. 18 MM)

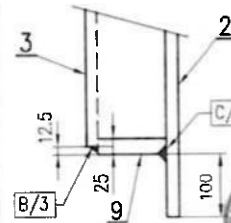
PASS PLATE
THK. 18 MM

NOTES :-

1. FOR WELD SYMBOLS & PROCEDURES REFER DRG. No. 31750100544.
- * 2. GRIND THE BEVEL & ADJUST THE SHAPE DURING ASSEMBLY
3. MACHINE THIS SURFACE TO 6.3 AFTER WELDING TO POS 2.
4. KEROSENE LEAK TEST OF WELDS TO BE DONE AFTER ASSLY OF HEMI HEAD.



DETAIL-C



VIEW Y-Y

TYPE OF PRODUCT
OR
NAME OF CUSTOMER/PROJECT

BHARAT HEAVY ELECTRICALS LTD
HYDERABAD

	NAME	SIGN.	DATE	NO.OF VAR.
DRN.	SAPTARSHI	SAPTARSHI	15.04.17	
CHD.	AK SAHOO	A. K. S.	15.04.17	—NA—
APPD.	K KISHORE KUMAR	K. K. K.	15.04.17	

WGT (KG)	REF. TO ASSY. DRG.	ITEM NO.	NO.OF ITEMS
NA	-NA-	-NA-	-NA-

CARD CODE	DRAWING NO.	REV.
	3-175-05-01152	00
	SHT. No 01	NO. OF SHT. 01

TITLE PASS PARTITION DETAILS
(FOR DESUPERHEATER OF HPH-7 A/B)

This Drawing is printed from Engineering Digital Archive System (EDAS).
Therefore signatures are not essentially required.

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DESIGN. AND DATE	REF. DRG. NO.	COMPUTER FILE NAME
GENERAL DIMENSIONAL LIMITS, FITS & TOLERANCES AS PER HY0302061		

INVENTORY NO.

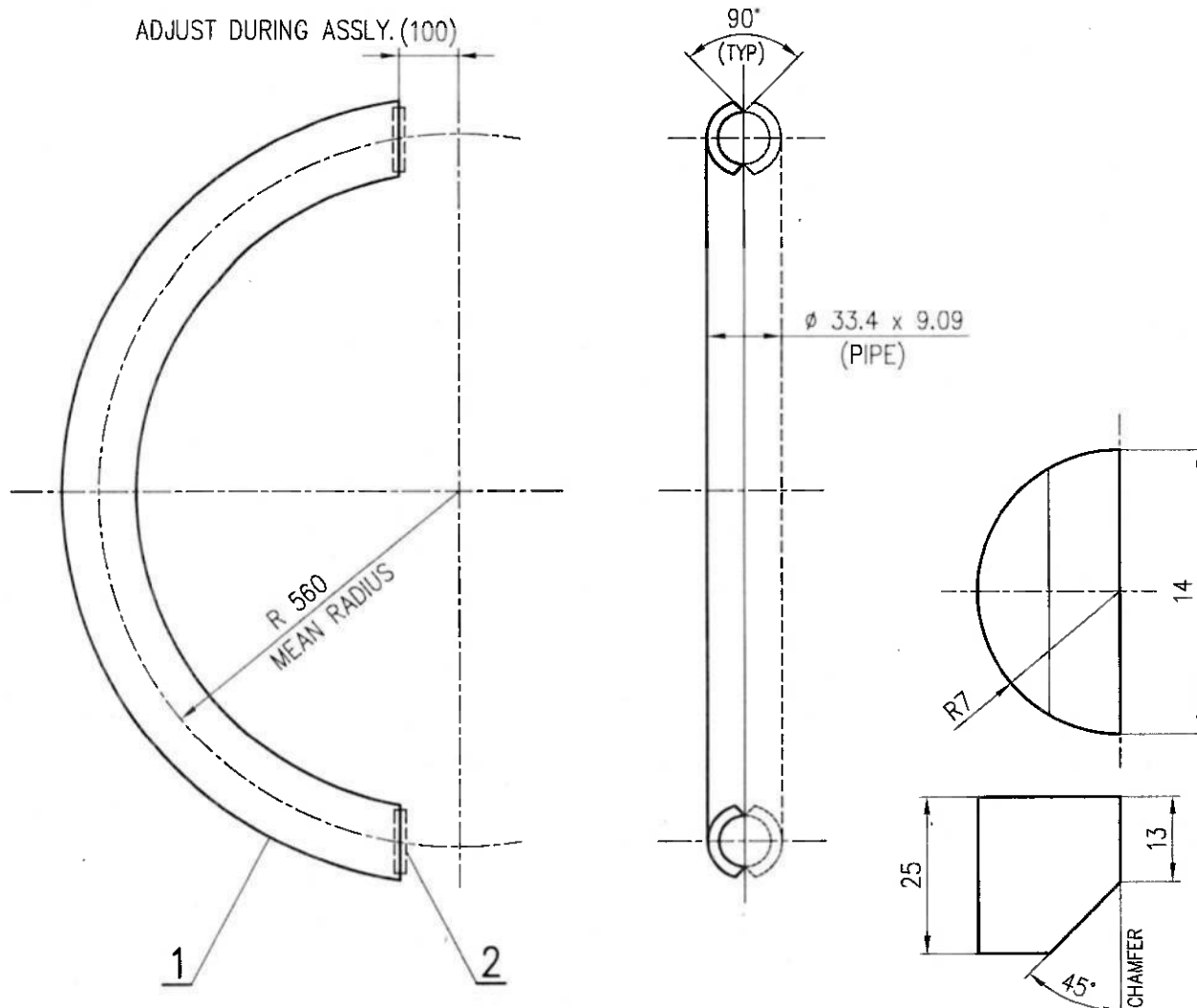
Aug Thu 3 10:47 2017

FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

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REV.	DATE	ALTERED	CHECKED	APPD	REV.	DATE	ALTERED	CHECKED	APPD	ADDITIONAL INFORMATION
										STATUS OF DRAWING
										DISTURIBUTION OF PRINTS



NOTES: -

1. DEVELOPED LENGTH = 1610 MM.
2. ONE HALF OF PIPE MAKES ONE EXPANSION JOINT.
3. MAKE BOTH HALVES USABLE.

POS.No. 2

(END COVER, PL 25 Thk.)



BHARAT HEAVY ELECTRICALS LTD.
HYDERABAD

DRN.	NAME	SIGN.	DATE	NO.OF VAR.
CHD.	A K SAHOO	AKS	16.05.17	
APPD.	K KISHORE KUMAR	KKS	16.05.17	NA

DEPT.	GRADE OF	SCALE	WEIGHT (KG)	REF. TO ASSY DRG.	ITEM NO.	NO.OF ITEMS
HED	TOL.DIM.	NTS	-	NA	NA	NA
CODE	C/M/F					

TITLE
EXPANSION JOINT
(FOR DSH. OF HPH-7A/B)

CARD CODE

DRAWING NO.
4-175-05-01254

REV. 00

Aug Thu 3 10:51 2017

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SHEET NO. 1

NO OF SHEETS

INVENTORY NO. SIGN. AND DATE REF. DRG. NO.

FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

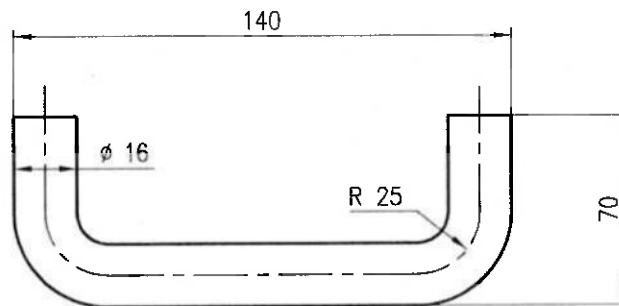
BHARAT HEAVY ELECTRICALS LIMITED

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IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY

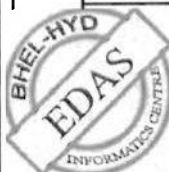
GEN. DIM. LIMITS, FITS, & TOLERANCES AS PER P.S. :- HY0230261

REV.	DATE	ALTERED		REV.	DATE	ALTERED		REV.	DATE	ALTERED	
		CHD./APPD.				CHD./APPD.				CHD./APPD.	



DEVELOPED LENGTH = 205 MM.

REMARKS		ITEM NO	DESCRIPTION		STD	MATL. CODE		A	UNIT Wt.		
						MATL. SPEN.		C	QTY.		
DEPT. HE ENGG		UNTOL. DIM. GR.		SCALE		WEIGHT (KG)		REF. TO ASSY DRG.		ITEM NO.	NO. OF ITEMS
CODE 405		Ø/M/F		NTS		0.32		NA		NA	NA
TITLE					CARD CODE	DRAWING NO.				REV.	
HANDLE					NA	4-175-01-02798				00	
					SHT No.		1		NO OF SHT.		1

BHARAT HEAVY ELECTRICALS LTD.
HYDERABAD

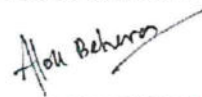
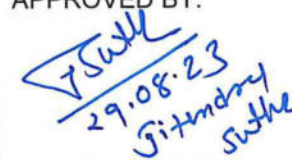
	NAME	SIGN.	DATE	NO. OF VAR.
DRN.	A.ESHWAR	<i>[Signature]</i>	04.10.10	
CHD.	J.S.RAO	<i>[Signature]</i>	06.10.10	NA
APPD.	KIRAN KUMAR	<i>[Signature]</i>	06.10.10	

MANUFACTURING QUALITY PLAN –
DESUPER HEATER OF HP HEATER

PROJECT: 2x800 MW Adani-Bandhaura

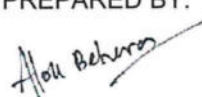
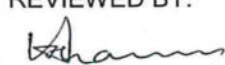
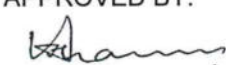
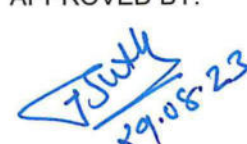
		BHARAT HEAVY ELECTRICALS LIMITED R.C.PURAM, HYDERABAD		MANUFACTURING QUALITY PLAN				CUSTOMER: M/S ADANI CONSULTANT: NA PROJECT: 2X800 MW ADANI BANDHAURA BHEL SALE ORDER NO.: BHEL WORK ORDER NO.:					
				ITEM: DESUPER HEATER OF HP HEATER TYPE: 800 MW		QP No: HYQA/SMQP/ADANI/800/7 Rev. No.: 01 DATE: 10.02.2023 SHEET Page 1 of 9							
SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	* D	AGENCY			REMARKS
										M	B	C	

RAW MATERIAL & MAJOR BOIS													
1.0 A INSPECTION AT SUPPLIER'S WORKS													
1.1	TUBE SHEET	A	CHEMICAL COMPOSITION	MAJOR	CHEM.	AS PER SPEC	SA 350 LF2 CL1		SUPPLIER'S TC		P	V	
		B	HEAT TREATMENT	MAJOR	HT	100 %	SA 350 LF2 CL1		SUPPLIER'S TC		P	V	
		C	MECHANICAL PROPERTIES	MAJOR	MECH.	AS PER SPEC	SA 350 LF2 CL1		SUPPLIER'S TC		P	W	
		D	UT OF THE FORGING AFTER MACHINING	MAJOR	NDE	100%	SA388	HE 71044	SUPPLIER'S TC		P	W	
		E	PT OF FORGING ON THE SURFACE TO BE OVERLAYED	MAJOR	NDE	100%	ASME SEC.V ART 6 & DRG.	ASME SECVIII DIV.1 APPX.8	SUPPLIER'S TC		P	W	
		F	DIM. CONFORMITY	MAJOR	MEASRT	100 %	BHEL DRAWING		SUPPLIER'S TC		P	W	
1.2	TUBES (U-TUBES)	A	CHEMICAL COMPOSITION	MAJOR	CHEM.	AS PER SPEC	SA 688 TP 304/304N / SA 213 TP 304 /304N & SPEC		SUPPLIER'S TC		P	V	
		B	HEAT TREATMENT	MAJOR	HT	100%	SA 688 TP 304/304N / SA 213 TP 304 /304N & SPEC		SUPPLIER'S TC		P	V	
		C	MECHANICAL PROPERTIES (TS,YS ,% ELONGATION, FLATTENING)	MAJOR	MECH.	AS PER SPEC	SA 688 TP 304/304N / SA 213 TP 304 /304N & SPEC		SUPPLIER'S TC		P	W	
		D	UT OF TUBES	MAJOR	NDE	100%	E213	SA 688 TP 304/304N / SA 213 TP 304 /304N & SPEC	SUPPLIER'S TC		P	V	
		E	EDDY CURRENT TEST	MAJOR	NDE	100%	E426	SA 688 TP 304/304N / SA 213 TP 304 /304N & SPEC	SUPPLIER'S TC		P	W	
		F	HEAT TREATMENT AFTER COLD BENDING (STRESS RELIEVING)	MAJOR	HT	100%	SA 688 TP 304/304N / SA 213 TP 304 /304N & SPEC		SUPPLIER'S TC		P	V	
		G	IGC	MAJOR	IGC	AS PER SPEC	SA 688 TP 304/304N / SA 213 TP 304 /304N & SPEC	A 262 PRACT- E	SUPPLIER'S TC		P	V	

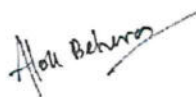
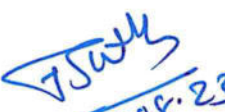
LEGEND: M: MANUFACTURER / VENDOR B: BHEL /BHEL NOMMNATED INSPECTION AGENCY, C: CUSTOMER / CUSTOMER NOMINATED INSPECTION AGENCY. P: PERORM, W: WITNESS V: VERIFICATION, * D: RECORDS IDENTIFIED WITH TICK (✓) SHALL BE ESSENTIALLY INCLUDED IN QA DOCUMENTATION. CHP: CUSTOMER HOLD POINT	PREPARED BY:  ALOK BEHERA MGR/ QA	REVIEWED BY:  B. ASHOK KUMAR AGM / QA	APPROVED BY:  B. ASHOK KUMAR AGM / QA	APPROVED BY:  CUSTOMER / CONSULTANT
	Format no. : HYQA/QP/MQP-1 Rev.00			

		BHARAT HEAVY ELECTRICALS LIMITED R.C.PURAM, HYDERABAD		MANUFACTURING QUALITY PLAN				CUSTOMER: M/S ADANI CONSULTANT: NA PROJECT: 2X800 MW ADANI BANDHAURA BHEL SALE ORDER NO.: BHEL WORK ORDER NO.:						
				ITEM: DESUPER HEATER OF HP HEATER TYPE: 800 MW		QP No: HYQA/SMQP/ADANI/800/7 Rev. No.: 01 DATE: 10.02.2023 SHEET Page 2 of 9								
SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS		CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	* D	AGENCY			REMARKS
											M	B	C	
		H	HYDRO TEST	MAJOR	HYDRO	100%	SA1016 & DRG	SA1016 & DRG	SUPPLIER'S TC		P	W		
		I	DIMN. CONFORMITY & VISUAL EXAM.	MAJOR	VISUAL & MEASRT.	100%	DRAWING & PO	DRAWING & PO	SUPPLIER'S TC		P	V		
		J	CHECK FOR OVALITY, OD. AND MIN THICKNESS	MAJOR	VISUAL & MEASRT	AS PER SPEC	DRAWING & PO	DRAWING & PO	SUPPLIER'S TC		P	V		
NOTE: 1. HOT BENDING TO FORM 'U' TUBE SHALL NOT BE CARRIED OUT 2. DRAWN TUBE SHALL BE CLEANED AND BRIGHT ANNEALED AS PER SPECIFICATION 3. U BEND PORTION PLUS 300MM OF EACH LEG LENGTH OF THE TUBE SHALL BE CLEANED PRIOR TO SUBSEQUENT ANNEALING AFTER U BENDING. 4. HYDRAULIC TESTING OF U TUBES SHALL BE CARRIED OUT WITH DE-MINERALIZED WATER (10PPM CHLORIDE MAX.) 5. RESIDUAL CHLORIDE CONTAMINATION OF THE FINISHED TUBES READY FOR DISPATCH SHALL NOT EXCEED 10.7 MG/M ² OF TUBE SURFACE AREA. THIS SHALL BE CERTIFIED IN THE FINAL CERTIFICATE. TUBES SHALL BE DULY PROTECTED BY SUITABLE RUST PREVENTIVE MATERIALS TO PROTECT FROM CORROSION DURING TRANSIT AND SUBSEQUENT STORING. TUBES SHALL BE PACKED IN SEAWORTHY PACKING AND SHALL BE CAPABLE OF WITHSTANDING MECHANICAL DAMAGES DURING HANDLING AND TRANSIT. 6. DRAWING AND BENDING LUBRICANTS SHALL BE CHLORIDE FREE. 7. INTERNAL CLEANING TO BE DONE BY BLOWING OF ACETONE SOAKED FELT PLUGS OR BY NITROGEN OR INERT GAS.														
1.3	HEMI HEAD	A	VERIFICATION OF MILLS TCS & IDENTIFICATION MARKS FOR CHEM. & MECH. PROPERTIES	MAJOR	VISUAL	100%	SA 516 Gr.70,SPEC	SA 516 Gr.70,SPEC	SUPPLIER'S TC		P	V		
		B	VERIFICATION OF HT CHART AFTER FORMING & NORMALIZING	MAJOR	HT	100%	SA 516 Gr.70,SPEC	SA 516 Gr.70,SPEC	SUPPLIER'S TC		P	V		
		C	TENSILE TESTING OF TEST COUPON	MAJOR	MECH.	AS PER SPEC	SA 516 GR.70, SPEC	SA 516 GR.70,SPEC	SUPPLIER'S TC		P	W		
		D	UT AFTER FORMING	MAJOR	NDE	100%	SA 435		SUPPLIER'S TC		P	W		
		E	MT ON THE OUTER SURFACE OF THE HEMIHEAD AFTER FORMING	MAJOR	NDE	100%	ASME SEC.V ART.7	ASME SEC.VIII DIV.1 APPX.6	SUPPLIER'S TC		P	W		
		F	DIMENSIONAL CONFORMITY INCLUDING THICKNESS & OVALITY.	MAJOR	MEASRT.	100%	DRAWING	ASME SEC VIII DIV.1 & DRG	SUPPLIER'S TC		P	W		
1.4	SKIRT MATERIAL	A	CHEMICAL COMPOSITION	MAJOR	CHEM.	AS PER SPEC	SA 387 GR 12 CL2		SUPPLIER'S TC		P	V		
		B	MECH. PROPERTIES & HT CONDITION	MAJOR	MECH, HT	AS PER SPEC	SA 387 GR 12 CL2		SUPPLIER'S TC		P	V		
LEGEND: M: MANUFACTURER / VENDOR B: BHEL /BHEL NOMMNATED INSPECTION AGENCY, C: CUSTOMER / CUSTOMER NOMINATED INSPECTION AGENCY. P: PERORM, W: WITNESS V: VERFICATION, * D: RECORDS IDENTIFIED WITH TICK (✓) SHALL BE ESSENTIALLY INCLUDED IN QA DOCUMENTATION. CHP: CUSTOMER HOLD POINT					PREPARED BY: ALOK BEHERA MGR/ QA		REVIEWED BY: B. ASHOK KUMAR AGM / QA		APPROVED BY: B. ASHOK KUMAR AGM / QA		APPROVED BY: 29.08.23 CUSTOMER / CONSULTANT			
Format no. : HYQA/QP/MQP-1 Rev.00														

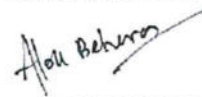
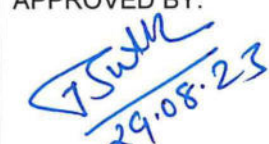
SL. NO.		COMPONENT & OPERATIONS		CHARACTERISTICS		CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	* D	AGENCY			REMARKS
													M	B	C	
		C	UT	MAJOR	NDE	100%	SPEC, PO			SUPPLIER'S TC		P	V			
1.5	SHELL MATERIAL	A	CHEMICAL COMPOSITION	MAJOR	CHEM.	AS PER SPEC	SA 516 GR.70 / SA 387 GR 12 CL2, SPEC			SUPPLIER'S TC		P	V			
		B	MECH. PROPERTIES & HT CONDITION	MAJOR	MECH, HT	AS PER SPEC	SA 516 GR.70/ SA 387 GR 12 CL2, SPEC.			SUPPLIER'S TC		P	V			
		C	UT OF THE PLATE	MAJOR	NDE	100%	SPEC, PO			SUPPLIER'S TC		P	V			
1.6	SHELL DISHED ENDS	A	VERIFICATION OF MILL TCS & IDENTIFICATION MARKS FOR COMPLIANCE	MAJOR	VISUAL	100 %	SA 387 GR 12 CL2/ SA 516 GR.70			SUPPLIER'S TC		P	V			
		B	DIMENSIONAL CONFORMITY AFTER FORMING INCLUDING MINIMUM THICKNESS MEASRT.	MAJOR	MEASRT.	100%	DRAWING			SUPPLIER'S TC		P	W			
		C	VERIFICATION OF HT CHART AFTER FORMING	MAJOR	HT	100%	ASME SEC.VIII DIV.I UCS 56	ASME SEC.VIII DIV.I UCS 56	SUPPLIER'S TC		P	V				
		D	RT ON WELD SEAM AFTER FORMING (IF APPLICABLE)	MAJOR	NDE	100 %	ASME SEC VIII ARTICLE 2	ASME SEC VIII DIVISION1 UW 51	SUPPLIER'S TC		P	V				
		E	MT OF WELD SEAMS ON INSIDE AND OUTSIDE SURFACES AFTER NORMING AND NORMALISATION (IF APPLICABLE)	MAJOR	NDE	100 %	ASME SEC.V ARTICLE 7	ASME SEC.VIII DIVISION 1 APPENDIX 6	SUPPLIER'S TC		P	W				
		F	UT AFTER FORMING & SR	MAJOR	NDE	100%	SPEC, PO			SUPPLIER'S TC		P	W			
1.7	FEED NOZZLE & MANWAY FORGING	A	CHEMICAL COMPOSITION	MAJOR	CHEM.	AS PER SPEC	SA350 LF2 CL1	SA350 LF2 CL1	SUPPLIER'S TC		P	V				
		B	MECHANICAL PROPERTIES & HEAT TREATMENT CONDITION	MAJOR	MECH, HT	AS PER SPEC	SA350 LF2 CL1	SA350 LF2 CL1	SUPPLIER'S TC		P	V				
		C	UT OF THE FORGING	MAJOR	NDE	100%	SA388	HE 71045	SUPPLIER'S TC		P	V				
		D	DIMENSIONAL CONFORMITY	MAJOR	MEASRT.	100%	DRAWING	DRAWING	SUPPLIER'S TC		P	V				
1.8	MAN HOLE COVER	A	CHEMICAL COMPOSITION	MAJOR	CHEM.	AS PER SPEC	SA 516 GR.70	SA 516 GR.70G	SUPPLIER'S TC		P	V				

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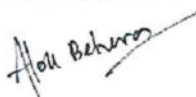
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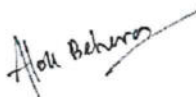
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													M	B	C	
		B	MECHANICAL PROPERTIES & HEAT TREATMENT CONDITION	MAJOR	MECH., HT	AS PER SPEC	SA 516 GR.70	SA 516 GR.70	SUPPLIER'S TC		P	V				
1.9	NOZZLES	A	CHEMICAL COMPOSITION	MAJOR	CHEM.	100%	DRAWING	DRAWING	SUPPLIER'S TC		P	V				
		B	MECHANICAL PROPERTIES & HEAT TREATMENT CONDITION	MAJOR	MECH., HT	100%	DRAWING	DRAWING	SUPPLIER'S TC		P	V				
1.0 B VERIFICATION OF RAW MATERIAL TCS/SUPPLIER TCS AT BHEL WORKS																
1.1	TUBE SHEET	AS PER CL 1.0 A 1.1		MAJOR	TC VERIFN	100 %	SA 350 LF2 CL1,SPEC		SUPPLIER'S TC	✓		V	V			
1.2	TUBES	AS PER CL 1.0 A 1.2		MAJOR	TC VERIFN	100 %	SA 688 TP 304/304N / SA 213 TP 304 /304N & SPEC		SUPPLIER'S TC	✓		V	V			
1.3	HEMIHEAD	AS PER CL 1.0 A 1.3		MAJOR	TC VERIFN	100 %	SA 516 Gr.70,SPEC		SUPPLIER'S TC	✓		V	V			
1.4	SKIRT MATERIAL	AS PER CL 1.0 A 1.4		MAJOR	TC VERIFN	100 %	SA 387 GR 12 CL2		SUPPLIER'S TC	✓		V	V			
1.5	SHELL MATERIAL	AS PER CL 1.0 A 1.5		MAJOR	TC VERIFN	100 %	SA 516 Gr.70/ SA 387 GR 12 CL2,SPEC		SUPPLIER'S TC	✓		V	V			
1.6	SHELL DISHED ENDS	AS PER CL 1.0 A 1.6		MAJOR	TC VERIFN	100 %	SA 387 GR 12 CL2/ SA 516 GR.70		SUPPLIER'S TC	✓		V	V			
1.7	FEED NOZZLE & MANWAY FORGING	AS PER CL 1.0 A 1.7		MAJOR	TC VERIFN	100 %	SA 350 LF2 CL1,SPEC		SUPPLIER'S TC	✓		V	V			
1.8	MAN HOLE COVER	AS PER CL 1.0 A 1.8		MAJOR	TC VERIFN	100 %	SA 516 Gr.70,SPEC		SUPPLIER'S TC	✓		V	V			
1.9	NOZZLES	AS PER CL 1.0 A 1.9		MAJOR	TC VERIFN	100 %	MATERIAL GRADE AS PER GA DRAWING		SUPPLIER'S TC	✓		V	V			
2.0 INPROCESS INSPECTION (INSPECTION AT BHEL WORKS)																
2.1 TUBE SHEET OVERLAY AND DRILLING																
2.1.1	TUBE SHEET OVERLAY AND	A	MATERIAL IDENTIFICATION AND VERIFICATION OF TC	MAJOR	VISUAL	100%	DRG. TC & SPEC	DRG. TC & SPEC	IR / LOG RECORD		P	V				
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		BHARAT HEAVY ELECTRICALS LIMITED R.C.PURAM, HYDERABAD		MANUFACTURING QUALITY PLAN					CUSTOMER: M/S ADANI CONSULTANT: NA PROJECT: 2X800 MW ADANI BANDHAURA BHEL SALE ORDER NO.: BHEL WORK ORDER NO.:					
				ITEM: DESUPER HEATER OF HP HEATER TYPE: 800 MW		QP No: HYQA/SMQP/ADANI/800/7 Rev. No.: 01 DATE: 10.02.2023 SHEET Page 5 of 9								
SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS		CLASS	TYPE OF CHECK	QUANT UM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	* D	AGENCY			REMARKS
											M	B	C	
	DRILLING	B	PT ON SURFACE TO BE OVERLAYED	MAJOR	NDE	100%	ASME SEC.V ART.6	ASME SEC.VIII DIV.I APPX.8	NDE REPORT	✓	P	V	V	
		C	PT AFTER OVERLAY	MAJOR	NDE	100%	ASME SEC.V ART.6	ASME SEC.VIII DIV.I APPX.8	NDE REPORT	✓	P	V	V	
		D	UT ON OVERLAY FOR CLADDING BOND	MAJOR	NDE	100%	ASME SEC.V ART.5	HE 71046	NDE REPORT	✓	P	W	W	CHP
		E	DIMN. CONFORMITY AFTER DRILLING.	MAJOR	MEASRT.	100%	DRAWING	DRAWING	IR / LOG RECORD		P	RW	RW	RANDOM WITNESS CHP
2.1.1	TUBE SHEET OVERLAY AND DRILLING	F	PT/MT ON BOTH WELD EDGE PREPARATIONS FOR HEMIHEAD & SKIRT SIDE	MAJOR	NDE	100%	ASME SEC.V ART.6/7	ASME SEC.VIII DIV.I APPX.6/8	INSPN. RECORD		P	V		
2.2	SKIRT FABRICATION													
2.2.1	SKIRT FABRICATION	A	IDENTIFICATION OF MATERIALS & VERIFICATION OF TC (SKIRT PLATES AND NOZZLES)	MAJOR	VISUAL	100%	DRAWING, TCS & SPECIFICATION	DRAWING., TCS & SPECIFICATION	IR / LOG RECORD		P	V		
		B	L SEAM FIT UP OF SKIRT SEGMENT (PT/MT ON WELD EDGE PREPARATION OF PLATES > 40MM)	MAJOR	MEASRT., VISUAL	100%	DRAWING, ASME SEC.VIII DIV.I	DRAWING, ASME SEC.VIII DIV.I	IR / LOG RECORD		P	V		
		C	RT OF L SEAM WELD	MAJOR	NDE	AS PER DRG	ASME SEC.V ART.2	ASME SEC.VIII DIV.I UW51	NDE REPORT	✓	P	V	V	REVIEW OF RT FILMS
		D	C-SEAM FITUP OF SKIRT TO TUBE SHEET (PT/MT ON WELD EDGE PREPARATION OF PLATES > 40MM)	MAJOR	MEASRT., VISUAL	100%	DRAWING, ASME SEC.VIII DIV.I	DRAWING, ASME SEC.VIII DIV.I	IR / LOG RECORD		P	V		
		E	UT OF SKIRT TO TUBE SHEET WELD	MAJOR	NDE	100%	ASME SEC.V ART.5	ASME SEC.VIII DIV.I APPX.12	NDE REPORT	✓	P	W	W	CHP
		F	MT OF SKIRT TO TUBE SHEET WELD	MAJOR	NDE	100%	ASME SEC.V ART.7	ASME SEC.VIII DIV.I APPX.6	NDE REPORT	✓	P	V	V	
		G	FIT UP OF NOZZLES & PADS TO SKIRT	MAJOR	VISUAL & MEASRT	100%	DRAWING	DRAWING	IR / LOG RECORD		P	V		
		H	PT OF NOZZLE WELDS	MAJOR	NDE	100%	ASME SEC.V ART.6	ASME SEC.VIII DIV.I APPX.8	NDE REPORT	✓	P	V	V	

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Format no. : HYQA/QP/MQP-1 Rev.00					

SL. NO.		COMPONENT & OPERATIONS		CHARACTERISTICS		CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	* D	AGENCY			REMARKS
													M	B	C	
		I	PWHT OF SKIRT ASSLY ALONG WITH TUBE SHEET	MAJOR	HT	100%	ASME SEC.VIII DIV.I UCS 56	ASME SEC.VIII DIV.I UCS 56	HT REPORT	✓	P	V	V	SS TUBES SHOULD NOT BE SENSITIZED		
		J	DIMENSIONAL CONFORMITY OF SKIRT ASSLY.	MAJOR	MEASRT.	100%	DRAWING	DRAWING	IR / LOG RECORD		P	V	V			
2.3 SHELL FABRICATION																
2.3.1		A	IDENTIFICATION OF MATERIALS & VERIFICATION OF TC (SHELL PLATES AND NOZZLES)	MAJOR	VISUAL	100%	DRAWING, TCS & SPECIFICATION	DRAWING., TCS & SPECIFICATION	IR / LOG RECORD		P	V				
		B	L SEAM FIT UP OF SHELL SEGMENTS (PT/MT ON WELD EDGE PREPARATION OF PLATES > 40MM)	MAJOR	MEASRT., VISUAL	100%	DRAWING, ASME SEC.VIII DIV.I	DRAWING, ASME SEC.VIII DIV.I	IR / LOG RECORD		P	V				
		C	RT OF L SEAM WELDS	MAJOR	NDE	AS PER DRG	ASME SEC.V ART.2	ASME SEC.VIII DIV.I UW51	NDE REPORT	✓	P	V	V	REVIEW OF RT FILMS		
		D	C-SEAM FITUP OF SHELL SEGMENTS (PT/MT ON WELD EDGE PREPARATION OF PLATES > 40MM)	MAJOR	MEASRT., VISUAL	100%	DRAWING, ASME SEC.VIII DIV.I	DRAWING, ASME SEC.VIII DIV.I	IR / LOG RECORD		P	V				
2.3.1		E	RT OF C SEAM WELDS	MAJOR	NDE	AS PER DRG	ASME SEC.V ART.2	ASME SEC.VIII DIV.I UW51	NDE REPORT	✓	P	V	V	REVIEW OF RT FILMS		
		F	FIT UP OF NOZZLES & PADS TO SHELL	MAJOR	VISUAL & MEASRT	100%	DRAWING	DRAWING	IR / LOG RECORD		P	V				
		G	PT OF NOZZLE WELDS	MAJOR	NDE	100%	ASME SEC.V ART.6	ASME SEC.VIII DIV.I APPX.8	NDE REPORT	✓	P	V	V			
		H	PWHT OF SHELL ASSLY	MAJOR	HT	100%	ASME SEC.VIII DIV.I UCS 56	ASME SEC.VIII DIV.I UCS 56	HT REPORT	✓	P	V	V			
		I	DIMENSIONAL CONFORMITY OF SHELL ASSLY.	MAJOR	MEASRT.	100%	DRAWING	DRAWING	IR / LOG RECORD		P	V	V			
2.4 TUBE BUNDLE FABRICATION																
2.4.1		A	MATERIAL IDENTIFICATION & VERIFICATION OF TC	MAJOR	VISUAL	100%	DRG TC & SPEC	DRG TC & SPEC	IR / LOG RECORD		P	V	V			

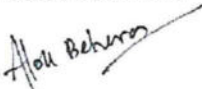
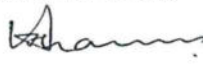
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SL. NO.		COMPONENT & OPERATIONS		CHARACTERISTICS		CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	* D	AGENCY			REMARKS
													M	B	C	
		B	PT OF WELD EDGE PREPARATION FOR WELDING WITH TUBE SHEET	MAJOR	NDE	100%	ASME SEC.V ART.7	ASME SEC.VIII DIV.I APPX.6	NDE REPORT		P	V				
		C	FIT UP OF NOZZLES, MANHOLE FORGING TO HEMIHEAD	MAJOR	VISUAL & MEASRT	100%	DRAWING	DRAWING	IR / LOG RECORD		P	V				
		D	UT OF NOZZLES & MANHOLE WELD JOINTS.	MAJOR	NDE	100%	ASME SEC.V ART.5	ASME SEC.VIII DIV.I APPX.12	NDE REPORT	✓	P	V	V			
		E	MT OF NOZZLES & MANHOLE WELD JOINTS.	MAJOR	NDE	100%	ASME SEC.V ART.7	ASME SEC.VIII DIV.I APPX.6	NDE REPORT	✓	P	V	V			
		F	PWHT OF HEMI HEAD ASSLY	MAJOR	HT	100%	ASME SEC.VIII DIV.I UCS 56 / IBR REG 267	ASME SEC.VIII DIV.I UCS 56 / IBR REG 267	HT REPORT	✓	P	V	V			
		G	DIMN. EXAM. OF HEMI HEAD ASSLY	MAJOR	MEASRT.	100%	DRAWING	DRAWING	IR / LOG RECORD		P	V	V			
2.7		FINAL ASSEMBLY														
2.7.1		FINAL ASSEMBLY	A	FIT UP OF HEMI HEAD TO TUBE SHEET.	MAJOR	MEASRT.	100%	DRAWING	ASME SEC.VIII DIV.I	IR / LOG RECORD		P	V			
			B	RT OF HEMI HEAD TO TUBE SHEET WELD JOINT.	MAJOR	NDE	100%	ASME SEC.V ART.2	ASME SEC.VIII DIV.I UW 51	NDE REPORT	✓	P	V	V	REVIEW OF RT FILMS	
			C	UT OF HEMI HEAD TO TUBE SHEET WELD JOINT.	MAJOR	NDE	100%	ASME SEC.V ART.5	ASME SEC.VIII DIV.I UW 51	NDE REPORT	✓	P	W	W	CHP	
			D	MT OF HEMI HEAD TO TUBE SHEET WELD JOINT.	MAJOR	NDE	100%	ASME SEC.V ART.7	ASME SEC.VIII DIV.I APPX.6	NDE REPORT	✓	P	V	V		
			E	PWHT OF HEMI HEAD TO TUBE SHEET JOINT.	MAJOR	HT	100%	ASME SEC.VIII DIV.I UCS 56 / IBR REG 267	ASME SEC.VIII DIV.I UCS 56 / IBR REG 267	HT REPORT	✓	P	V	V	DURING PWHT SS STUBES SHOULD NOT SENSITIZED	
2.7.1		FINAL ASSEMBLY	F	UT OF HEMI HEAD TO TUBE SHEET WELD JOINT AFTER PWHT	MAJOR	NDE	100%	ASME SEC.V ART.5	ASME SEC.VIII DIV.I APPX.12	NDE REPORT	✓	P	W	W	CHP	
			G	MT OF HEMI HEAD TO TUBE SHEET WELD JOINT AFTER PWHT	MAJOR	NDE	100%	ASME SEC.V ART.7	ASME SEC.VIII DIV.I APPX.6	NDE REPORT	✓	P	V	V		
			H	VISUAL & DIMENSIONAL INSPECTION OF FINAL ASSEMBLY	MAJOR	VISUAL, MEASRT	100%	DRAWING	DRAWING	IR / LOG RECORD	✓	P	W	W	CHP	
3.0		HYDRO TEST														
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		BHARAT HEAVY ELECTRICALS LIMITED R.C.PURAM, HYDERABAD		MANUFACTURING QUALITY PLAN				CUSTOMER: M/S ADANI CONSULTANT: NA PROJECT: 2X800 MW ADANI BANDHAURA BHEL SALE ORDER NO.: BHEL WORK ORDER NO.:						
				ITEM: DESUPER HEATER OF HP HEATER TYPE: 800 MW		QP No: HYQA/SMQP/ADANI/800/7 Rev. No.: 01 DATE: 10.02.2023 SHEET Page 9 of 9								
SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS		CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	* D	AGENCY			REMARKS
											M	B	C	
3.1.1	HYDRO TEST	A	SHELL SIDE HYDRO TEST	CRITICAL	HYDRO	100%	DRAWING	DRAWING	HYDRO TEST REPORT	✓	P	W	W	CHP
		B	TUBE SIDE HYDRO TEST.	CRITICAL	HYDRO	100%			HYDRO TEST REPORT	✓	P	W	W	CHP
4.0 PRE DISPATCH INSPECTION (INSPECTION BY BHEL)														
4.1.1	PRE DISPATCH INSPECTION	A	DRAINING DRYING, N2 FILL-UP, CHECKUP FOR PRESSURE AND ITS MAINTENANCE WITHOUT DECAY	MAJOR	VISUAL, MEASRT	100%	DRAWING	DRAWING	IR / LOG RECORD	✓	P	W	V	
		B	PAINTING	MAJOR	VISUAL, MEASRT	100%	DRG. / SPECN.	DRG. / SPECN.	IR / LOG RECORD	✓	P	W	V	
		C	CLEANLINESS, COMPLETENESS, STAMPING/NAME PLATE.	MAJOR	VISUAL, MEASRT	100%	APPD. QP AND DRG		IR / LOG RECORD	✓	P	W	V	

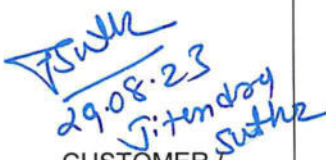
NOTES:

- ALL MATERIALS OF CONSTRUCTION SHALL BE AS PER APPROVED DATA SHEET/DRG.
- AS A STATUTORY REQUIREMENT, THE VESSELS WILL BE INSPECTED AND CERTIFIED BY DIRECTOR OF BOILERS.
- HOT-FORMED DISHED ENDS SHALL BE NORMALIZED EVEN IF HOT FORMING DONE AT NORMALIZING TEMPERATURE.
- IN CASE OF INCONSISTENCY BETWEEN REQUIREMENTS OF DRG./DATA SHEET AND QP, DRG./DATASHEET WILL PREVAIL.
- IN CASE OF DISHED END MADE WITH MULTIPLE JOINTS, RT OF L-SEAM PRIOR TO PRESSING AND UT AFTER FORMING & SR.
- TESTING OF PRODUCTION WELD TEST COUPON AS PER IBR CODE.
- RAW MATERIAL TCs AND IR AS PER APPROVED QAP SHALL BE FURNISHED FOR REVIEW DURING HYDROTEST.

LEGEND: M: MANUFACTURER / VENDOR B: BHEL /BHEL NOMMNATED INSPECTION AGENCY, C: CUSTOMER / CUSTOMER NOMINATED INSPECTION AGENCY. P: PERORM, W: WITNESS V: VERIFICATION, * D: RECORDS IDENTIFIED WITH TICK (✓) SHALL BE ESSENTIALLY INCLUDED IN QA DOCUMENTATION. CHP: CUSTOMER HOLD POINT	PREPARED BY:  ALOK BEHERA MGR/ QA	REVIEWED BY:  B. ASHOK KUMAR AGM / QA	APPROVED BY:  B. ASHOK KUMAR AGM / QA	APPROVED BY:  29.08.23 CUSTOMER / CONSULTANT
	Format no. : HYQA/QP/MQP-1 Rev.00			

		BHARAT HEAVY ELECTRICALS LIMITED R.C.PURAM, HYDERABAD		MANUFACTURING QUALITY PLAN				CUSTOMER: M/S ADANI CONSULTANT: NA PROJECT: 2X800 MW ADANI BANDHAURA BHEL SALE ORDER NO.: BHEL WORK ORDER NO.:					
				ITEM: DESUPER HEATER OF HP HEATER TYPE: 800 MW		QP No: HYQA/SMQP/ADANI/800/7 Rev. No.: 01 DATE: 10.02.2023 SHEET Page 10 of 9							
SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	* D	AGENCY			REMARKS
										M	B	C	

GENERAL LEGENDS					
NDE	NON DESTRUCTIVE EXAMINATION	ASSLY	ASSEMBLY	CHEM	CHEMICAL
UT	ULTRASONIC TEST	QC	QUALITY CONTROL	MECH	MECHANICAL
PT	DYE PENETRANT TEST	TPIA	THIRD PARTY INSPECTION AGENCY	TC	TEST CERTIFICATES
MT/MPI	MAGENTIC PARTICLE INSPECTION	WPS	WELDING PROCEDURE SPECIFICATION	VERFN	VERIFICATION
RT	RADIOGRAPHY TEST	WQR	WELDER QUALIFICATION RECORD	IGC	INTER GRANULAR CORROSION
MEASRT	MEASUREMENT	PQR	PROCEDURE QUALIFICATION RECORD	HT	HEAT TREATMENT
DIMN	DIMENSION	IR	INSPECTION REPORT	QA	QUALITY ASSURANCE

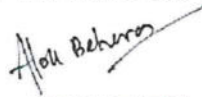
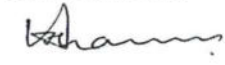
LEGEND: M: MANUFACTURER / VENDOR B: BHEL /BHEL NOMMNATED INSPECTION AGENCY, C: CUSTOMER / CUSTOMER NOMINATED INSPECTION AGENCY. P: PERORM, W: WITNESS V: VERFICATION, * D: RECORDS IDENTIFIED WITH TICK (✓) SHALL BE ESSENTIALLY INCLUDED IN QA DOCUMENTATION. CHP: CUSTOMER HOLD POINT	PREPARED BY:  ALOK BEHERA MGR/ QA	REVIEWED BY:  B. ASHOK KUMAR AGM / QA	APPROVED BY:  B. ASHOK KUMAR AGM / QA	APPROVED BY:  Jitendra Suthar CUSTOMER / CONSULTANT
	Format no. : HYQA/QP/MQP-1 Rev.00			

MANUFACTURING QUALITY PLAN –
HP HEATERS

PROJECT: 2x800 MW Adani-Bandhaura

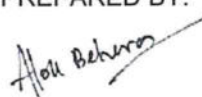
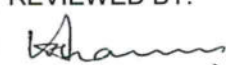
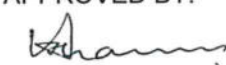
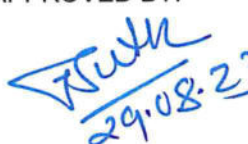
	BHARAT HEAVY ELECTRICALS LIMITED R.C.PURAM, HYDERABAD	MANUFACTURING QUALITY PLAN					CUSTOMER: M/S ADANI CONSULTANT: NA PROJECT: 2X800 MW ADANI BANDHAURA BHEL SALE ORDER NO.: BHEL WORK ORDER NO						
		ITEM: HP HEATER TYPE: 800 MW	QP No: HYQA/SMQP/ADANI/800/3 Rev. No.: 01 DATE: 10.02.2023 SHEET Page 1 of 9										
SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	* D	AGENCY			REMARKS
										M	B	C	

RAW MATERIAL & MAJOR BOIS													
1.0 A INSPECTION AT SUPPLIER'S WORKS													
1.1	TUBE SHEET	A	CHEMICAL COMPOSITION	MAJOR	CHEM.	AS PER SPEC	SA 350 LF2 CL1		SUPPLIER'S TC		P	V	
		B	HEAT TREATMENT	MAJOR	HT	100 %	SA 350 LF2 CL1		SUPPLIER'S TC		P	V	
		C	MECHANICAL PROPERTIES	MAJOR	MECH.	AS PER SPEC	SA 350 LF2 CL1		SUPPLIER'S TC		P	W	
		D	UT OF THE FORGING AFTER MACHINING	MAJOR	NDE	100%	SA388	HE 71044	SUPPLIER'S TC		P	W	
		E	PT OF FORGING ON THE SURFACE TO BE OVERLAYED	MAJOR	NDE	100%	ASME SEC.V ART 6 & DRG.	ASME SECVIII DIV.1 APPX.8	SUPPLIER'S TC		P	W	
		F	DIM. CONFORMITY	MAJOR	MEASRT	100 %	BHEL DRAWING		SUPPLIER'S TC		P	W	
1.2	TUBES (U-TUBES)	A	CHEMICAL COMPOSITION	MAJOR	CHEM.	AS PER SPEC	SA 688 TP 304/304N / SA 213 TP 304 /304N & SPEC		SUPPLIER'S TC		P	V	
		B	HEAT TREATMENT	MAJOR	HT	100%	SA 688 TP 304/304N / SA 213 TP 304 /304N & SPEC		SUPPLIER'S TC		P	V	
		C	MECHANICAL PROPERTIES (TS,YS,% ELONGATION, FLATTENING)	MAJOR	MECH.	AS PER SPEC	SA 688 TP 304/304N / SA 213 TP 304 /304N & SPEC		SUPPLIER'S TC		P	W	
		D	UT OF TUBES	MAJOR	NDE	100%	E213	SA 688 TP 304/304N / SA 213 TP 304 /304N & SPEC	SUPPLIER'S TC		P	V	
		E	EDDY CURRENT TEST	MAJOR	NDE	100%	E426	SA 688 TP 304/304N / SA 213 TP 304 /304N & SPEC	SUPPLIER'S TC		P	W	
		F	HEAT TREATMENT AFTER COLD BENDING (STRESS RELIEVING)	MAJOR	HT	100%	SA 688 TP 304/304N / SA 213 TP 304 /304N & SPEC		SUPPLIER'S TC		P	V	
		G	IGC	MAJOR	IGC	AS PER SPEC	SA 688 TP 304/304N / SA 213 TP 304 /304N & SPEC	A 262 PRACT- E	SUPPLIER'S TC		P	V	
		H	HYDRO TEST	MAJOR	HYDRO	100%	SA1016 & DRG	SA1016 & DRG	SUPPLIER'S TC		P	W	

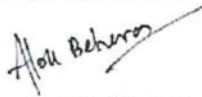
LEGEND: M: MANUFACTURER / VENDOR B: BHEL /BHEL NOMMNATED INSPECTION AGENCY, C: CUSTOMER / CUSTOMER NOMINATED INSPECTION AGENCY. P: PERORM, W: WITNESS V: VERIFICATION, * D: RECORDS IDENTIFIED WITH TICK (✓) SHALL BE ESSENTIALLY INCLUDED IN QA DOCUMENTATION. CHP :CUSTOMER HOLD POINT	PREPARED BY:  ALOK BEHERA MGR/ QA	REVIEWED BY:  B. ASHOK KUMAR AGM / QA	APPROVED BY:  B. ASHOK KUMAR AGM / QA	APPROVED BY:  29.08.23 CUSTOMER / CONSULTANT
	Format no. : HYQA/QP/MQP-1 Rev.00			

		BHARAT HEAVY ELECTRICALS LIMITED [A Government of India Undertaking] Ramachandrapuram, Hyderabad, 502032, A.P. India Phone 040-23184526, 23182322 FAX:040-23021910, 1954			भारत हेवी इलेक्ट्रिकल्स लिमिटेड (भारत सरकार का उपक्रम) रामचन्द्रपुरम, हैदराबाद, 502032 आंध्र प्रदेश, भारत			RFQ NO :		PURCHASE DEPARTMENT ENQUIRY क्रय विभाग जांच (ई मेल : tenderbox@bhelhyd.co.in)		SHEET:1 OF :1	
HY17001 C REV.NO.0		Phone 091-40-23184526 091-40-23182322		FAX : 091-40-23021910 091-40-23021954		PURCHASE DEPARTMENT							
		GSTIN:		Enq/Collective No :E9AZS00026		Enq.Dt. : 02.09.2026		No.Of Items :2		DUE Dt. OF QUOTN. : 12.09.2026			
Office Copy				Please submit your lowest quotation in sealed cover superscribed with Enquiry No./Collective No.(RFQ No) and due date subject to our terms and conditions attached ,for the materials mentioned below.Your offer has to reach us onor before due date by 11.00 Hours (IST) and will be opened at 14.00 Hours.(IST).If our Enquiry No./Collective No.(RFQ No) and tender due date are not super scribed on the tender cover , your offer shall be summarily rejected. Incomplete offers and late offers will not be considered.									
SL NO	Purchase Req.no	item no	Material Code, HSN No.	Drg no - Ver , Rev & Spec - Ver , Rev,Spec-Var		Description			Unit	Qty	Delivery Date	Schedule Qty	
1	1400264859	10	31750501151-01A	31750501151-01A,01,,,		HEMIHEAD ASSLY DSH 7A/B (NOZZ MC)			EA	1.000	30.11.2026	1.000	
2	1400264857	10	31750501563-00A	31750501563-00A,01,,,		HEMIHEAD ASSLY HPH 7A/B (NOZZ MC)			EA	1.000	30.11.2026	1.000	
Special Remarks													
CheckList of Quality Interventions: BHEL reserves the right to enforce any or all of the following checks during execution of the order. There is no additional cost to the vendor on account of these checks.													
									TEST CERTIFICATE REQD: Y GUARANTEE REQ : Y SAMPLE REQD : BID TYPE : TWO PART		For and on-behalf of Bharat Heavy Electricals Limited. SIVA PRASAD J MANAGER		

		BHARAT HEAVY ELECTRICALS LIMITED R.C.PURAM, HYDERABAD		MANUFACTURING QUALITY PLAN				CUSTOMER: M/S ADANI CONSULTANT: NA PROJECT: 2X800 MW ADANI BANDHAURA BHEL SALE ORDER NO.: BHEL WORK ORDER NO					
				ITEM: HP HEATER TYPE: 800 MW	QP No: HYQA/SMQP/ADANI/800/3 Rev. No.: 01 DATE: 10.02.2023 SHEET Page 2 of 9								
SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	* D	AGENCY			REMARKS
		I DIMN. CONFORMITY & VISUAL EXAM.	MAJOR	VISUAL & MEASRT.	100%	DRAWING & PO	DRAWING & PO	SUPPLIER'S TC		P	V		
		J CHECK FOR OVALITY, OD. AND MIN THICKNESS	MAJOR	VISUAL & MEASRT	AS PER SPEC	DRAWING & PO	DRAWING & PO	SUPPLIER'S TC		P	V		
NOTE: 1. HOT BENDING TO FORM 'U' TUBE SHALL NOT BE CARRIED OUT 2. DRAWN TUBE SHALL BE CLEANED AND BRIGHT ANNEALED AS PER SPECIFICATION 3. U BEND PORTION PLUS 300MM OF EACH LEG LENGTH OF THE TUBE SHALL BE CLEANED PRIOR TO SUBSEQUENT ANNEALING AFTER U BENDING. 4. HYDRAULIC TESTING OF U TUBES SHALL BE CARRIED OUT WITH DE-MINERALIZED WATER (10PPM CHLORIDE MAX.) 5. RESIDUAL CHLORIDE CONTAMINATION OF THE FINISHED TUBES READY FOR DISPATCH SHALL NOT EXCEED 10.7 MG/M ² OF TUBE SURFACE AREA. THIS SHALL BE CERTIFIED IN THE FINAL CERTIFICATE. TUBES SHALL BE DULY PROTECTED BY SUITABLE RUST PREVENTIVE MATERIALS TO PROTECT FROM CORROSION DURING TRANSIT AND SUBSEQUENT STORING. TUBES SHALL BE PACKED IN SEAWORTHY PACKING AND SHALL BE CAPABLE OF WITHSTANDING MECHANICAL DAMAGES DURING HANDLING AND TRANSIT. 6. DRAWING AND BENDING LUBRICANTS SHALL BE CHLORIDE FREE. 7. INTERNAL CLEANING TO BE DONE BY BLOWING OF ACETONE SOAKED FELT PLUGS OR BY NITROGEN OR INERT GAS.													
1.3	HEMI HEAD	A	VERIFICATION OF MILLS TCS & IDENTIFICATION MARKS FOR CHEM. & MECH. PROPERTIES	MAJOR	VISUAL	100%	SA 516 Gr.70,SPEC	SA 516 Gr.70,SPEC	SUPPLIER'S TC		P	V	
		B	VERIFICATION OF HT CHART AFTER FORMING & NORMALIZING	MAJOR	HT	100%	SA 516 Gr.70,SPEC	SA 516 Gr.70,SPEC	SUPPLIER'S TC		P	V	
		C	TENSILE TESTING OF TEST COUPON	MAJOR	MECH.	AS PER SPEC	SA 516 GR.70, SPEC	SA 516 GR.70,SPEC	SUPPLIER'S TC		P	W	
		D	UT AFTER FORMING	MAJOR	NDE	100%	SA 435		SUPPLIER'S TC		P	W	
		E	MT ON THE OUTER SURFACE OF THE HEMIHEAD AFTER FORMING	MAJOR	NDE	100%	ASME SEC.V ART.7	ASME SEC.VIII DIV.1 APPX.6	SUPPLIER'S TC		P	W	
		F	DIMENSIONAL CONFORMITY INCLUDING THICKNESS & OVALITY.	MAJOR	MEASRT.	100%	DRAWING	ASME SEC VIII DIV.1 & DRG	SUPPLIER'S TC		P	W	
1.4	SKIRT MATERIAL	A	CHEMICAL COMPOSITION	MAJOR	CHEM.	AS PER SPEC	SA 516 GR.70 / SA 387 GR 12 CL2, SPEC	SUPPLIER'S TC		P	V		
		B	MECH. PROPERTIES & HT CONDITION	MAJOR	MECH, HT	AS PER SPEC	SA 516 GR.70 / SA 387 GR 12 CL2, SPEC	SUPPLIER'S TC		P	V		
		C	UT	MAJOR	NDE	100%	SA 435		SUPPLIER'S TC		P	V	

LEGEND: M: MANUFACTURER / VENDOR B: BHEL /BHEL NOMMNATED INSPECTION AGENCY, C: CUSTOMER / CUSTOMER NOMINATED INSPECTION AGENCY. P: PERORM, W: WITNESS V: VERIFICATION, * D: RECORDS IDENTIFIED WITH TICK (✓) SHALL BE ESSENTIALLY INCLUDED IN QA DOCUMENTATION. CHP :CUSTOMER HOLD POINT	PREPARED BY:  ALOK BEHERA MGR/ QA	REVIEWED BY:  B. ASHOK KUMAR AGM / QA	APPROVED BY:  B. ASHOK KUMAR AGM / QA	APPROVED BY:  CUSTOMER / CONSULTANT
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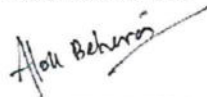
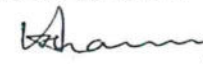
		BHARAT HEAVY ELECTRICALS LIMITED R.C.PURAM, HYDERABAD		MANUFACTURING QUALITY PLAN				CUSTOMER: M/S ADANI CONSULTANT: NA PROJECT: 2X800 MW ADANI BANDHAURA BHEL SALE ORDER NO.: BHEL WORK ORDER NO					
		ITEM: HP HEATER TYPE: 800 MW		QP No: HYQA/SMQP/ADANI/800/3 Rev. No.: 01 DATE: 10.02.2023 SHEET Page 3 of 9									
SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	* D	AGENCY			REMARKS
										M	B	C	
1.5	SHELL MATERIAL	A	CHEMICAL COMPOSITION	MAJOR	CHEM.	AS PER SPEC	SA 516 GR.70, SPEC	SUPPLIER'S TC		P	V		
		B	MECH. PROPERTIES & HT CONDITION	MAJOR	MECH, HT	AS PER SPEC	SA 516 GR.70, SPEC.	SUPPLIER'S TC		P	V		
1.5	SHELL MATERIAL	C	UT OF THE PLATE	MAJOR	NDE	100%	SA435	SUPPLIER'S TC		P	V		
1.6	SHELL DISHED ENDS	A	VERIFICATION OF MILL TCS & IDENTIFICATION MARKS FOR COMPLIANCE	MAJOR	VISUAL	100 %	SA516 GR70	SA516 GR70	SUPPLIER'S TC		P	V	
		B	DIMENSIONAL CONFORMITY AFTER FORMING INCLUDING MINIMUM THICKNESS MEASRT.	MAJOR	MEASRT.	100%	DRAWING		SUPPLIER'S TC		P	W	
		C	VERIFICATION OF HT CHART AFTER FORMING	MAJOR	HT	100%	ASME SEC.VIII DIV.I UCS 56	ASME SEC.VIII DIV.I UCS 56	SUPPLIER'S TC		P	V	
		D	RT ON WELD SEAM AFTER FORMING (IF APPLICABLE)	MAJOR	NDE	100 %	ASME SEC VIII ARTICLE 2	ASME SEC VIII DIVISION1 UW 51	SUPPLIER'S TC		P	V	
		E	MT OF WELD SEAMS ON INSIDE AND OUTSIDE SURFACES AFTER NORMING AND NORMALISATION (IF APPLICABLE)	MAJOR	NDE	100 %	ASME SEC.V ARTICLE 7	ASME SEC.VIII DIVISION 1 APPENDIX 6	SUPPLIER'S TC		P	W	
		F	UT AFTER FORMING & SR	MAJOR	NDE	100%	SA 435		SUPPLIER'S TC		P	W	
1.7	FEED NOZZLE & MANWAY FORGING	A	CHEMICAL COMPOSITION	MAJOR	CHEM.	AS PER SPEC	SA350 LF2 CL1	SA350 LF2 CL1	SUPPLIER'S TC		P	V	
		B	MECHANICAL PROPERTIES & HEAT TREATMENT CONDITION	MAJOR	MECH, HT	AS PER SPEC	SA350 LF2 CL1	SA350 LF2 CL1	SUPPLIER'S TC		P	V	
		C	UT OF THE FORGING	MAJOR	NDE	100%	SA388	HE 71045	SUPPLIER'S TC		P	V	
		D	DIMENSIONAL CONFORMITY	MAJOR	MEASRT.	100%	DRAWING	DRAWING	SUPPLIER'S TC		P	V	
1.8	MAN HOLE COVER	A	CHEMICAL COMPOSITION	MAJOR	CHEM.	AS PER SPEC	SA 516 GR.70	SA 516 GR.70	SUPPLIER'S TC		P	V	
		B	MECHANICAL PROPERTIES & HEAT TREATMENT CONDITION	MAJOR	MECH., HT	AS PER SPEC	SA 516 GR.70	SA 516 GR.70	SUPPLIER'S TC		P	V	

LEGEND: M: MANUFACTURER / VENDOR B: BHEL /BHEL NOMINATED INSPECTION AGENCY, C: CUSTOMER / CUSTOMER NOMINATED INSPECTION AGENCY. P: PERFORM, W: WITNESS V: VERIFICATION, * D: RECORDS IDENTIFIED WITH TICK (✓) SHALL BE ESSENTIALLY INCLUDED IN QA DOCUMENTATION. CHP :CUSTOMER HOLD POINT	PREPARED BY:  ALOK BEHERA MGR/ QA	REVIEWED BY:  B. ASHOK KUMAR AGM / QA	APPROVED BY:  B. ASHOK KUMAR AGM / QA	APPROVED BY:  CUSTOMER / CONSULTANT
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													M	B	C	
1.9		NOZZLES		A	CHEMICAL COMPOSITION	MAJOR	CHEM.	100%	DRAWING	DRAWING	SUPPLIER'S TC		P	V		
				B	MECHANICAL PROPERTIES & HEAT TREATMENT CONDITION	MAJOR	MECH., HT	100%	DRAWING	DRAWING	SUPPLIER'S TC		P	V		
1.0 B VERIFICATION OF RAW MATERIAL TCS/SUPPLIER TCS AT BHEL WORKS																
1.1		TUBE SHEET		AS PER CL 1.0 A 1.1		MAJOR	TC VERIFN	100 %	SA 350 LF2 CL1,SPEC		SUPPLIER'S TC	✓		V	V	
1.2		TUBES		AS PER CL 1.0 A 1.2		MAJOR	TC VERIFN	100 %	SA 688 TP 304/304N / SA 213 TP 304 /304N & SPEC		SUPPLIER'S TC	✓		V	V	
1.3		HEMIHEAD		AS PER CL 1.0 A 1.3		MAJOR	TC VERIFN	100 %	SA 516 Gr.70,SPEC		SUPPLIER'S TC	✓		V	V	
1.4		SKIRT MATERIAL		AS PER CL 1.0 A 1.4		MAJOR	TC VERIFN	100 %	SA 516 GR.70 / SA 387 GR 12 CL2, SPEC		SUPPLIER'S TC	✓		V	V	
1.5		SHELL MATERIAL		AS PER CL 1.0 A 1.5		MAJOR	TC VERIFN	100 %	SA 516 Gr.70,SPEC		SUPPLIER'S TC	✓		V	V	
1.6		SHELL DISHED ENDS		AS PER CL 1.0 A 1.6		MAJOR	TC VERIFN	100 %	SA 516 Gr.70,SPEC		SUPPLIER'S TC	✓		V	V	
1.7		FEED NOZZLE & MANWAY FORGING		AS PER CL 1.0 A 1.7		MAJOR	TC VERIFN	100 %	SA 350 LF2 CL1,SPEC		SUPPLIER'S TC	✓		V	V	
1.8		MAN HOLE COVER		AS PER CL 1.0 A 1.8		MAJOR	TC VERIFN	100 %	SA 516 Gr.70,SPEC		SUPPLIER'S TC	✓		V	V	
1.9		NOZZLES		AS PER CL 1.0 A 1.9		MAJOR	TC VERIFN	100 %	MATERIAL GRADE AS PER GA DRAWING		SUPPLIER'S TC	✓		V	V	
2.0 INPROCESS INSPECTION (INSPECTION AT BHEL WORKS)																
2.1 TUBE SHEET OVERLAY AND DRILLING																
2.1.1		TUBE SHEET OVERLAY AND DRILLING		A	MATERIAL IDENTIFICATION AND VERIFICATION OF TC	MAJOR	VISUAL	100%	DRG. TC & SPEC	DRG. TC & SPEC	IR / LOG RECORD		P	V		
				B	PT ON SURFACE TO BE OVERLAYED	MAJOR	NDE	100%	ASME SEC.V ART.6	ASME SEC.VIII DIV.I APPX.8	NDE REPORT	✓	P	V	V	
				C	PT AFTER OVERLAY	MAJOR	NDE	100%	ASME SEC.V ART.6	ASME SEC.VIII DIV.I APPX.8	NDE REPORT	✓	P	V	V	

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Format no. : HYQA/QP/MQP-1 Rev.00

		MANUFACTURING QUALITY PLAN				CUSTOMER: M/S ADANI CONSULTANT: NA PROJECT: 2X800 MW ADANI BANDHAURA BHEL SALE ORDER NO.: BHEL WORK ORDER NO							
BHARAT HEAVY ELECTRICALS LIMITED R.C.PURAM, HYDERABAD		ITEM: HP HEATER TYPE: 800 MW		QP No: HYQA/SMQP/ADANI/800/3 Rev. No.: 01 DATE: 10.02.2023 SHEET Page 5 of 9									
SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	* D	AGENCY			REMARKS
										M	B	C	
		D UT ON OVERLAY FOR CLADDING BOND	MAJOR	NDE	100%	ASME SEC.V ART.5	HE 71046	NDE REPORT	✓	P	W	W	CHP
		E DIMN. CONFORMITY AFTER DRILLING.	MAJOR	MEASRT.	100%	DRAWING	DRAWING	IR / LOG RECORD		P	W	W	CHP
2.1.1	TUBE SHEET OVERLAY AND DRILLING	F PT/MT ON BOTH WELD EDGE PREPARATIONS FOR HEMIHEAD & SKIRT SIDE	MAJOR	NDE	100%	ASME SEC.V ART.6/7	ASME SEC.VIII DIV.I APPX.6/8	INSPN. RECORD		P	V		
2.2	SKIRT FABRICATION												
2.2.1	SKIRT FABRICATION	A IDENTIFICATION OF MATERIALS & VERIFICATION OF TC (SKIRT PLATES AND NOZZLES)	MAJOR	VISUAL	100%	DRAWING, TCS & SPECIFICATION	DRAWING., TCS & SPECIFICATION	IR / LOG RECORD		P	V		
		B L SEAM FIT UP OF SKIRT SEGMENT (PT/MT ON WELD EDGE PREPARATION OF PLATES > 40MM)	MAJOR	MEASRT., VISUAL	100%	DRAWING, ASME SEC.VIII DIV.I	DRAWING, ASME SEC.VIII DIV.I	IR / LOG RECORD		P	V		
		C RT OF L SEAM WELD	MAJOR	NDE	AS PER DRG	ASME SEC.V ART.2	ASME SEC.VIII DIV.I UW51	NDE REPORT	✓	P	V	V	REVIEW OF RT FILMS
		D C-SEAM FITUP OF SKIRT TO TUBE SHEET (PT/MT ON WELD EDGE PREPARATION OF PLATES > 40MM)	MAJOR	MEASRT., VISUAL	100%	DRAWING, ASME SEC.VIII DIV.I	DRAWING, ASME SEC.VIII DIV.I	IR / LOG RECORD		P	V		
		E UT OF SKIRT TO TUBE SHEET WELD	MAJOR	NDE	100%	ASME SEC.V ART.5	ASME SEC.VIII DIV.I APPX.12	NDE REPORT	✓	P	W	W	CHP
		F MT OF SKIRT TO TUBE SHEET WELD	MAJOR	NDE	100%	ASME SEC.V ART.7	ASME SEC.VIII DIV.I APPX.6	NDE REPORT	✓	P	V	V	
		G FIT UP OF NOZZLES & PADS TO SKIRT	MAJOR	VISUAL & MEASRT	100%	DRAWING	DRAWING	IR / LOG RECORD		P	V		
		H PT OF NOZZLE WELDS	MAJOR	NDE	100%	ASME SEC.V ART.6	ASME SEC.VIII DIV.I APPX.8	NDE REPORT	✓	P	V	V	
		I PWHT OF SKIRT ASSLY ALONG WITH TUBE SHEET	MAJOR	HT	100%	ASME SEC.VIII DIV.I UCS 56	ASME SEC.VIII DIV.I UCS 56	HT REPORT	✓	P	V	V	
		J DIMENSIONAL CONFORMITY OF SKIRT ASSLY.	MAJOR	MEASRT.	100%	DRAWING	DRAWING	IR / LOG RECORD		P	V	V	
2.3	SHELL FABRICATION												
2.3.1	SHELL FABRICATION	A IDENTIFICATION OF MATERIALS & VERIFICATION OF TC (SHELL PLATES AND NOZZLES)	MAJOR	VISUAL	100%	DRAWING, TCS & SPECIFICATION	DRAWING., TCS & SPECIFICATION	IR / LOG RECORD		P	V		
LEGEND: M: MANUFACTURER / VENDOR B: BHEL /BHEL NOMMNATED INSPECTION AGENCY, C: CUSTOMER / CUSTOMER NOMINATED INSPECTION AGENCY. P: PERORM, W: WITNESS V: VERIFICATION, * D: RECORDS IDENTIFIED WITH TICK (✓) SHALL BE ESSENTIALLY INCLUDED IN QA DOCUMENTATION. CHP :CUSTOMER HOLD POINT						PREPARED BY:  ALOK BEHERA MGR/ QA		REVIEWED BY:  B. ASHOK KUMAR AGM / QA		APPROVED BY:  B. ASHOK KUMAR AGM / QA		APPROVED BY:  CUSTOMER / CONSULTANT	



BHARAT HEAVY
ELECTRICALS LIMITED
R.C.PURAM, HYDERABAD

MANUFACTURING QUALITY PLAN

ITEM: HP HEATER
TYPE: 800 MW

QP No: HYQA/SMQP/ADANI/800/3
Rev. No.: 01
DATE: 10.02.2023
SHEET Page 6 of 9

CUSTOMER: M/S ADANI
CONSULTANT: NA
PROJECT: 2X800 MW ADANI BANDHAURA
BHEL SALE ORDER NO.:
BHEL WORK ORDER NO

SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	* D	AGENCY			REMARKS
										M	B	C	
		B L SEAM FIT UP OF SHELL SEGMENTS (PT/MT ON WELD EDGE PREPARATION OF PLATES > 40MM)	MAJOR	MEASRT., VISUAL	100%	DRAWING, ASME SEC.VIII DIV.I	DRAWING, ASME SEC.VIII DIV.I	IR / LOG RECORD		P	V		
2.3.1	SHELL FABRICATION	C RT OF L SEAM WELDS	MAJOR	NDE	AS PER DRG	ASME SEC.V ART.2	ASME SEC.VIII DIV.I UW51	NDE REPORT	✓	P	V	V	REVIEW OF RT FILMS
		D C-SEAM FITUP OF SHELL SEGMENTS (PT/MT ON WELD EDGE PREPARATION OF PLATES > 40MM)	MAJOR	MEASRT., VISUAL	100%	DRAWING, ASME SEC.VIII DIV.I	DRAWING, ASME SEC.VIII DIV.I	IR / LOG RECORD		P	V		
		E RT OF C SEAM WELDS	MAJOR	NDE	AS PER DRG	ASME SEC.V ART.2	ASME SEC.VIII DIV.I UW51	NDE REPORT	✓	P	V	V	REVIEW OF RT FILMS
		F FIT UP OF NOZZLES & PADS TO SHELL	MAJOR	VISUAL & MEASRT	100%	DRAWING	DRAWING	IR / LOG RECORD		P	V		
		G PT OF NOZZLE WELDS	MAJOR	NDE	100%	ASME SEC.V ART.6	ASME SEC.VIII DIV.I APPX.8	NDE REPORT	✓	P	V	V	
		H PWHT OF SHELL ASSLY	MAJOR	HT	100%	ASME SEC.VIII DIV.I UCS 56	ASME SEC.VIII DIV.I UCS 56	HT REPORT	✓	P	V	V	
		I DIMENSIONAL CONFORMITY OF SHELL ASSLY.	MAJOR	MEASRT.	100%	DRAWING	DRAWING	IR / LOG RECORD		P	V	V	
2.4	TUBE BUNDLE FABRICATION												
2.4.1	TUBES	A MATERIAL IDENTIFICATION & VERIFICATION OF TC	MAJOR	VISUAL	100%	DRG TC & SPEC	DRG TC & SPEC	IR / LOG RECORD		P	V	V	
2.4.2	TUBE BUNDLE ASSEMBLY	A EXAMINATION OF SKELETON FABRICATION INCLUDING SHROUDS,BAFFLE ORIENTATION, LOCATION OF IMPINGEMENT PLATE (PRIOR TO INSERTION OF TUBES)	MAJOR	VISUAL & MEASRT	100%	DRAWING	DRAWING.	IR / LOG RECORD		P	V	V	
		B FIT UP EXAM OF TUBE TO TUBE SHEET JOINT	MAJOR	VISUAL & MEASRT	100%	DRAWING	DRAWING	IR / LOG RECORD		P	V	V	
		C DIMN. EXAM. OF TUBE BUNDLE AFTER COMPLETION OF ASSEMBLY	MAJOR	MEASRT.	100%	DRAWING	DRAWING	IR / LOG RECORD		P	V		
		D PT OF THE STRENGTH WELD	MAJOR	NDE	100%	ASME SEC.V ART.6	ASME SEC.VIII DIV.I APPX.8	NDE REPORT	✓	P	V	V	
2.5	TUBE BUNDLE TO SHELL ASSEMBLY												
2.5.1	TUBE BUNDLE TO SHELL	A FIT UP OF SHELL TO SKIRT	MAJOR	MEASRT.	100%	DRAWING	ASME SEC.VIII DIV.I	IR / LOG RECORD		P	V		

LEGEND:

M: MANUFACTURER / VENDOR B: BHEL /BHEL NOMMNATED INSPECTION AGENCY, C:

CUSTOMER / CUSTOMER NOMINATED INSPECTION AGENCY.

P: PERORM, W: WITNESS V: VERIFICATION, * D: RECORDS IDENTIFIED WITH TICK (✓) SHALL BE ESSENTIALLY INCLUDED IN QA DOCUMENTATION.

CHP :CUSTOMER HOLD POINT

PREPARED BY:

ALOK BEHERA
MGR/ QA

REVIEWED BY:

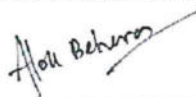
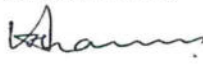
B. ASHOK KUMAR
AGM / QA

APPROVED BY:

B. ASHOK KUMAR
AGM / QA

APPROVED BY:

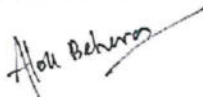
29.08.23
CUSTOMER /
CONSULTANT

		BHARAT HEAVY ELECTRICALS LIMITED R.C.PURAM, HYDERABAD		MANUFACTURING QUALITY PLAN			CUSTOMER: M/S ADANI CONSULTANT: NA PROJECT: 2X800 MW ADANI BANDHAURA BHEL SALE ORDER NO.: BHEL WORK ORDER NO						
				ITEM: HP HEATER TYPE: 800 MW	QP No: HYQA/SMQP/ADANI/800/3 Rev. No.: 01 DATE: 10.02.2023 SHEET Page 7 of 9								
SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	* D	AGENCY			REMARKS
										M	B	C	
	ASSEMBLY	B UT OF SHELL TO SKIRT WELD	MAJOR	NDE	100%	ASME SEC.V ART.5	ASME SEC.VIII DIV.I APPX.12	NDE REPORT	✓	P	W	W	CHP
2.5.1	TUBE BUNDLE TO SHELL ASSEMBLY	C MT OF SHELL TO SKIRT WELD	MAJOR	NDE	100%	ASME SEC.V ART.7	ASME SEC.VIII DIV.I APPX.6	NDE REPORT	✓	P	V	V	
		D PWHT OF SKIRT TO SHELL JOINT	MAJOR	HT	100%	ASME SEC.VIII DIV.I UCS 56 / IBR REG 267	ASME SEC.VIII DIV.I UCS 56 / IBR REG 267	HT REPORT	✓	P	W	V	DURING PWHT SS STUBES SHOULD NOT SENSITIZED
		E PNEUMATIC TESTING OF TUBE TO TUBE SHEET WELD JOINT	MAJOR	VISUAL	100%	HY 0852161	HY 0852161	IR / LOG RECORD	✓	P	W	W	CHP
		F EXAM. OF TUBE EXPANSION FOR % THINNING	MAJOR	MEASRT.	100%	HE 71011 REV.05	HE 71011 REV.05	IR / LOG RECORD	✓	P	W	W*	*RANDOM 10% CHP
		REVIEW OF ESTABLISHED MOCK UP TEST RESULTS AS PER ASME SEC VIII DIV 1 FOR TUBE TO TUBE SHEET JOINT									P	V	V
2.6	HEMI HEAD ASSEMBLY												
2.6.1	HEMI HEAD ASSEMBLY	A MATERIAL IDENTIFICATION & VERIFICATION OF TC	MAJOR	VISUAL	100%	DRG. TC & SPEC	DRG TC & SPEC	IR / LOG RECORD		P	V		
		B PT OF WELD EDGE PREPARATION FOR WELDING WITH TUBE SHEET	MAJOR	NDE	100%	ASME SEC.V ART.7	ASME SEC.VIII DIV.I APPX.6	NDE REPORT		P	V		
		C FIT UP OF NOZZLES, MANHOLE FORGING TO HEMIHEAD	MAJOR	VISUAL & MEASRT	100%	DRAWING	DRAWING	IR / LOG RECORD		P	V		
		D UT OF NOZZLES & MANHOLE WELD JOINTS.	MAJOR	NDE	100%	ASME SEC.V ART.5	ASME SEC.VIII DIV.I APPX.12	NDE REPORT	✓	P	V	V	
		E MT OF NOZZLES & MANHOLE WELD JOINTS.	MAJOR	NDE	100%	ASME SEC.V ART.7	ASME SEC.VIII DIV.I APPX.6	NDE REPORT	✓	P	V	V	
		F PWHT OF HEMI HEAD ASSLY	MAJOR	HT	100%	ASME SEC.VIII DIV.I UCS 56 / IBR REG 267	ASME SEC.VIII DIV.I UCS 56 / IBR REG 267	HT REPORT	✓	P	V	V	DURING PWHT SS STUBES SHOULD NOT SENSITIZED
		G DIMN. EXAM. OF HEMI HEAD ASSLY	MAJOR	MEASRT.	100%	DRAWING	DRAWING	IR / LOG RECORD		P	V	V	
2.7	FINAL ASSEMBLY												
LEGEND: M: MANUFACTURER / VENDOR B: BHEL /BHEL NOMINATED INSPECTION AGENCY, C: CUSTOMER / CUSTOMER NOMINATED INSPECTION AGENCY. P: PERFORM, W: WITNESS V: VERIFICATION, * D: RECORDS IDENTIFIED WITH TICK (✓) SHALL BE ESSENTIALLY INCLUDED IN QA DOCUMENTATION. CHP :CUSTOMER HOLD POINT						PREPARED BY:  ALOK BEHERA MGR/ QA		REVIEWED BY:  B. ASHOK KUMAR AGM / QA		APPROVED BY:  B. ASHOK KUMAR AGM / QA		APPROVED BY:  CUSTOMER / CONSULTANT	

		BHARAT HEAVY ELECTRICALS LIMITED R.C.PURAM, HYDERABAD		MANUFACTURING QUALITY PLAN				CUSTOMER: M/S ADANI CONSULTANT: NA PROJECT: 2X800 MW ADANI BANDHAURA BHEL SALE ORDER NO.: BHEL WORK ORDER NO						
				ITEM: HP HEATER TYPE: 800 MW	QP No: HYQA/SMQP/ADANI/800/3 Rev. No.: 01 DATE: 10.02.2023 SHEET Page 8 of 9									
SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS		CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	* D	AGENCY			REMARKS
											M	B	C	
2.7.1	FINAL ASSEMBLY	A	FIT UP OF HEMI HEAD TO TUBE SHEET.	MAJOR	MEASRT.	100%	DRAWING	ASME SEC.VIII DIV.I	IR / LOG RECORD		P	V		
		B	RT OF HEMI HEAD TO TUBE SHEET WELD JOINT.	MAJOR	NDE	100%	ASME SEC.V ART.2	ASME SEC.VIII DIV.I UW 51	NDE REPORT	✓	P	V	V	REVIEW OF RT FILMS
		C	UT OF HEMI HEAD TO TUBE SHEET WELD JOINT.	MAJOR	NDE	100%	ASME SEC.V ART.5	ASME SEC.VIII DIV.I UW 51	NDE REPORT	✓	P	W	W	CHP
		D	MT OF HEMI HEAD TO TUBE SHEET WELD JOINT.	MAJOR	NDE	100%	ASME SEC.V ART.7	ASME SEC.VIII DIV.I APPX.6	NDE REPORT	✓	P	V	V	
		E	PWHT OF HEMI HEAD TO TUBE SHEET JOINT.	MAJOR	HT	100%	ASME SEC.VIII DIV.I UCS 56 / IBR REG 267	ASME SEC.VIII DIV.I UCS 56 / IBR REG 267	HT REPORT	✓	P	V	V	
2.7.1	FINAL ASSEMBLY	F	UT OF HEMI HEAD TO TUBE SHEET WELD JOINT AFTER PWHT	MAJOR	NDE	100%	ASME SEC.V ART.5	ASME SEC.VIII DIV.I APPX.12	NDE REPORT	✓	P	W	W	CHP
		G	MT OF HEMI HEAD TO TUBE SHEET WELD JOINT AFTER PWHT	MAJOR	NDE	100%	ASME SEC.V ART.7	ASME SEC.VIII DIV.I APPX.6	NDE REPORT	✓	P	V	V	
		H	VISUAL & DIMENSIONAL INSPECTION OF FINAL ASSEMBLY	MAJOR	VISUAL, MEASRT	100%	DRAWING	DRAWING	IR / LOG RECORD	✓	P	W	W	CHP
3.0	HYDRO TEST													
3.1.1	HYDRO TEST	A	SHELL SIDE HYDRO TEST	CRITICAL	HYDRO	100%	DRAWING	DRAWING	HYDRO TEST REPORT	✓	P	W	W	CHP
		B	TUBE SIDE HYDRO TEST.	CRITICAL	HYDRO	100%			HYDRO TEST REPORT	✓	P	W	W	CHP
4.0	PRE DISPATCH INSPECTION													
4.1.1	PRE DISPATCH INSPECTION	A	DRAINING DRYING, N2 FILL-UP, CHECKUP FOR PRESSURE AND ITS MAINTENANCE WITHOUT DECAY	MAJOR	VISUAL	100%	DRAWING	DRAWING	IR / LOG RECORD	✓	P	W		
		B	PAINTING	MAJOR	VISUAL, MEASRT	100%	DRG. / SPECN.	DRG. / SPECN.	IR / LOG RECORD	✓	P	W		
		C	CLEANLINESS, COMPLETENESS, STAMPING/NAME PLATE.	MAJOR	VISUAL	100%	APPD. QP AND DRG		IR / LOG RECORD	✓	P	W		

NOTES:

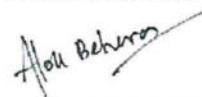
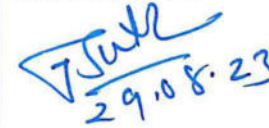
- ALL MATERIALS OF CONSTRUCTION SHALL BE AS PER APPROVED DATA SHEET/DRG.
- AS A STATUTORY REQUIREMENT, THE VESSELS WILL BE INSPECTED AND CERTIFIED BY DIRECTOR OF BOILERS.

LEGEND: M: MANUFACTURER / VENDOR B: BHEL /BHEL NOMMNATED INSPECTION AGENCY, C: CUSTOMER / CUSTOMER NOMINATED INSPECTION AGENCY. P: PERORM, W: WITNESS V: VERFICATION, * D: RECORDS IDENTIFIED WITH TICK (✓) SHALL BE ESSENTIALLY INCLUDED IN QA DOCUMENTATION. CHP :CUSTOMER HOLD POINT	PREPARED BY:  ALOK BEHERA MGR / QA	REVIEWED BY:  B. ASHOK KUMAR AGM / QA	APPROVED BY:  B. ASHOK KUMAR AGM / QA	APPROVED BY:  CUSTOMER / CONSULTANT
	Format no. : HYQA/QP/MQP-1 Rev.00			

		BHARAT HEAVY ELECTRICALS LIMITED R.C.PURAM, HYDERABAD		MANUFACTURING QUALITY PLAN			CUSTOMER: M/S ADANI CONSULTANT: NA PROJECT: 2X800 MW ADANI BANDHAURA BHEL SALE ORDER NO.: BHEL WORK ORDER NO						
		ITEM: HP HEATER TYPE: 800 MW		QP No: HYQA/SMQP/ADANI/800/3 Rev. No.: 01 DATE: 10.02.2023 SHEET Page 9 of 9									
SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTITY OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	* D	AGENCY			REMARKS
										M	B	C	

3. HOT-FORMED DISHED ENDS SHALL BE NORMALIZED EVEN IF HOT FORMING DONE AT NORMALIZING TEMPERATURE.
4. IN CASE OF INCONSISTENCY BETWEEN REQUIREMENTS OF DRG./DATA SHEET AND QP, DRG./DATASHEET WILL PREVAIL.
5. IN CASE OF DISHED END MADE WITH MULTIPLE JOINTS, RT OF L-SEAM PRIOR TO PRESSING AND UT AFTER FORMING & SR.
6. TESTING OF PRODUCTION WELD TEST COUPON AS PER IBR CODE.
7. RAW MATERIAL TCs AND IR AS PER APPROVED QAP SHALL BE FURNISHED FOR REVIEW DURING HYDROTEST.

GENERAL LEGENDS					
NDE	NON DESTRUCTIVE EXAMINATION	ASSLY	ASSEMBLY	CHEM	CHEMICAL
UT	ULTRASONIC TEST	QC	QUALITY CONTROL	MECH	MECHANICAL
PT	DYE PENETRANT TEST	TPIA	THIRD PARTY INSPECTION AGENCY	TC	TEST CERTIFICATES
MT/MPI	MAGNETIC PARTICLE INSPECTION	WPS	WELDING PROCEDURE SPECIFICATION	VERFN	VERIFICATION
RT	RADIOGRAPHY TEST	WQR	WELDER QUALIFICATION RECORD	IGC	INTER GRANULAR CORROSION
MEASRT	MEASUREMENT	PQR	PROCEDURE QUALIFICATION RECORD	HT	HEAT TREATMENT
DIMN	DIMENSION	IR	INSPECTION REPORT	QA	QUALITY ASSURANCE

LEGEND: M: MANUFACTURER / VENDOR B: BHEL /BHEL NOMMNATED INSPECTION AGENCY, C: CUSTOMER / CUSTOMER NOMINATED INSPECTION AGENCY. P: PERORM, W: WITNESS V: VERFICATION, * D: RECORDS IDENTIFIED WITH TICK (✓) SHALL BE ESSENTIALLY INCLUDED IN QA DOCUMENTATION. CHP :CUSTOMER HOLD POINT	PREPARED BY:  ALOK BEHERA MGR/ QA	REVIEWED BY:  B. ASHOK KUMAR AGM / QA	APPROVED BY:  B. ASHOK KUMAR AGM / QA	APPROVED BY:  29.08.23 CUSTOMER / CONSULTANT
	Format no. : HYQA/QP/MQP-1 Rev.00			

Jitendra
Suthe



(Attachment to Enquiry No. XXXXXXXXXX Due on Date XX.XX.XXXX for submission by 11.00 hrs to open from 14.00 hrs.)

INSTRUCTIONS TO BIDDER (ITB)**NOTE: Bidder to confirm in affirmative by typing "YES" or "Applicable Data" in the response column. Deviations, if any shall be recorded in deviations/comments column (Separate sheet can be attached if needed). Non deviatable clauses are indicated as "NON DEVIATABLE".**

Sl. No.	DETAILED TERMS & CONDITIONS	BIDDER RESPONSE (YES/NO)	DEVIATIONS / COMMENT
1	SCOPE OF SUPPLY: Signed & Sealed offers are invited for the Scope of Supply of goods or services or both as detailed in the enquiry. Relevant enclosures/supporting documents / catalogue, if any shall be enclosed to the technical offer.		
2	DEFINITIONS A 'The Buyer' means BHEL-HPEP, Ramachandrapuram, Hyderabad-502 032 of Bharat Heavy Electricals Limited (A Govt. of India Undertaking) incorporated under the companies Act having its registered office at BHEL House, Siri fort, New Delhi-110049, India and shall be deemed to include its successors and assigns. It may also be referred to as BHEL. B 'The Bidder' means the persons, firm, company or organization on whom the Purchase order is placed and shall be deemed to include the bidder's successors, representatives, heirs, executors and administrator as the case may be. It may also be referred to as Contractor, supplier or bidder. C 'Contract' shall mean and include the Purchase order incorporating various documents viz., Notice Inviting Tender (NIT), Offer, Letter Of Intent/Acceptance (LOI/LOA), Instruction to Bidders (ITB) and Special Conditions of Contract (SCC), specifications, inspection/quality plan, schedule of prices and quantities, drawings, if any, enclosed by Bidder/ provided by the Buyer or his authorized nominee and the samples or patterns if any to be provided under the provision of the contract. In case of any inconsistency or contradiction between any of the documents, the order of precedence shall be Purchase Order, LOI/LOA followed by Minutes Of Meeting (MOM), NIT, SCC, ITB. D 'Parties to the contract' shall mean the bidder and the buyer as named in the main body of the Purchase Order. E 'Goods/Material' shall include Works and Services which are incidental or consequential to supply.		
3	GENERAL INSTRUCTIONS:		
A	Mode of submission of offer shall be as indicated in SCC		Non Deviatable
B	The quotation should be neatly typed and free from over writing/ erasures. Any correction or addition must be authenticated. The offer including annexures and brochures should be submitted in English / Hindi. All Pages of Techno Commercial Bids (Main Pages), ITB, SCC should be signed and Stamped. If there is a conflict in case of bilingual submission, the submission in English will be final. Prices shall be quoted both in figures and words. In case of any discrepancy in value, the prices quoted in words shall be considered for evaluation and establishing L1 Status. Any discount / revised offer / bids submitted by a bidder on his own shall be considered, provided it is received on or before the due date and time of offer / bid submission (Part-1). Conditional discounts shall not be considered for evaluation of tenders.		Non Deviatable
C	Incomplete offers are liable for rejection.		Non Deviatable
D	Bidders to please note that the Terms & conditions contained in this document and SCC are to be read fully before submission of quotations.		Non Deviatable
E	Bidders are advised to comply with ITB and SCC, should there be any deviations (where deviations are permitted), it shall be entered in the deviation column. BHEL reserves the right to reject such offers or load the bid suitably for evaluation.		Non Deviatable
F	Offers shall be submitted directly, only by the bidder or by their authorized representative / agent and the offer should be in line with the regulatory guidelines (i.e. A valid Agency agreement between principal bidder and agent / representative shall be attached and the agreement shall cover the scope of services rendered by Agent, Agency Commission and any other information called for as per the regulatory guidelines). OEM / Mill details shall be provided if bidder is not a manufacturer. Bid envelopes shall bear the name of Bidder. In case of submission through authorized representative/agent, the name of representative/agent should also be mentioned apart from bidder name.		Non Deviatable
G	Offer received after the specified time and date of submission will be rejected. No further correspondence shall be entertained.		Non Deviatable
H	Unsolicited offers will not be considered.		Non Deviatable
4	OTHER PARTICULARS (Please indicate applicable data)		
A	Name of the Bid currency (freely tradable foreign currency for imports and Indian Rupees for indigenous purchase).		
B	Name of the Port of loading and Port of Discharge (applicable to imports).		

5	BID SUBMISSION PROCEDURE FOR CONVENTIONAL TENDER:		
A	For Single Part Bids:		
	The complete bid shall be submitted in a single sealed cover superscribing the Tender number and due date, addressed to Sr DGM/CMM, 4 th Floor Administrative Building, BHEL, Hyderabad and sent by appropriate mode to above address or dropped in tender box located at Admin II Gate on or before the specified time and date of submission of offers, preferably in the bidder's envelope. E- mail bids shall be sent to mail ID pricebid_hyd@bhel.in only as an attachment.		Non Deviatable
B.	For two-Part Bids:		
i	The offer is to be submitted in two parts viz., Techno-commercial Bid - (Part-I), with all technical specification & scope including bill of material etc., Earnest Money Deposit (EMD)(wherever applicable) and unpriced bid with all applicable Commercial Terms and Conditions, rates of agency commission, duties, taxes and other charges, Signed and Stamped ITB and SCC, <u>except the price</u>, shall be kept in a separate sealed cover, superscribing enquiry No. (Techno-Commercial Bid) and due date AND Price Bid (Part-II), containing ONLY the price (including agency commission, if any) and the applicable duties/taxes/other charges shall be kept in a separate sealed cover superscribing Enquiry no. (Price bid) & due date. Both the above covers (Part –I & II) shall be kept in a Third cover superscribing Enquiry no. & due date. Bidder can also submit offer through email. Technical offer to be submitted to mail ID technicalbid_hyd@bhel.in, and price bid to be submitted to mail ID pricebid_hyd@bhel.in only as an attachment. Interchanging the information in the mails may lead to rejection of the offer. Bidder shall have no claim on e-mail offers sent to any other e-mail ID. In case of e-mail offers, the mail subject should contain Enquiry Number, Due date and Bidder name. Bidder address including contact details shall be mentioned in the content of the mail. Without these details, the offer is liable for rejection. All techno commercial terms & conditions mutually agreed prior to price bid opening shall prevail and supersede any terms and conditions specified otherwise in price bid.		Non Deviatable
ii	The bidders whose bids are techno commercially not accepted will be informed and EMD shall be returned wherever submitted.		
iii	Bidders will be allowed to submit the impact on their quoted prices due to changes in technical scope, specifications, and commercial terms/conditions as specified in NIT which in the opinion of BHEL , warrant changes in prices.		Non Deviatable
C	Bids shall be opened on due time and date in the presence of bidders who may like to be present. Only one representative of each bidder shall be permitted to attend the bid opening. Only the price bids of bidder (in case of two part bid) whose techno commercial bids are accepted will be opened later on a specified date.		Non Deviatable
6	DELIVERY TERMS		
A	Indigenous Purchase		
	a. Terms of Delivery for dispatches to BHEL Hyderabad (HPEP) shall be FOR Destination. b. Terms of Delivery for Direct Dispatch (DD) items shall be Ex Works. i. Incase specified in SCC that insurance is in customer/BHEL scope, price quoted shall include Freight charges up to Destination. ii. Otherwise, price quoted shall include Freight and Insurance upto Destination. However, beneficiary for insurance shall be BHEL.		
B.	Imports		
	The goods shall be delivered on FCA capital airport basis in case of freight by Air and CIP basis in case of freight by Sea.		
7	Documentation for Payment		
A	Indigenous Purchase		
	Following documents shall be submitted immediately on dispatch of material to BHEL HPEP / Site a. Two numbers of Original Tax Invoice (Refer ITB clause no 11 for Tax Compliance)/ e-invoice of GST Portal if applicable) b. Packing List - clearly showing number of packages, gross weight and net weight. c. Test/Warranty/Guarantee certificates, O&M Manual (If specified in SCC) d. Insurance intimation/declaration certificate e. Pre-dispatch Inspection report /Third Party Inspection Certificates. f. Consignee copy of LR signed & stamped by Customer/Site representative for DD Items g. e-waybill h. Any other documents as specified in SCC.		Non Deviatable

B	Softcopies of the above documents shall be uploaded in SUVIDHA portal https://suvidha.bhel.in/suvidha/ or https://hpep.bhel.com/mm/main.jsp Vendor Bills tab. immediately after dispatch of the material. Upload of Documents is mandatory for material Entry. Imports i) Bidder shall inform BHEL the readiness of material along with packing details 30 days in advance from the date of delivery. For Hazardous cargo/DG cargo, supplier must provide the following documents prior to handing over shipment to freight forwarder, wherever freight is in BHEL scope: 1. Valid MSDS 2. DGD certificate with appropriate UN numbers. 3. Labelling and marking on DG cargo along with photo of packaging. 4. Self-declaration for consignment 5. Packaging Certificate as per DG Standards 6. TSA Approved Truckers details to be provided to forwarder at the time of shipment In addition to the above, supplier should ensure to comply all IATA DG regulations, if any new requirement is added in future. ii). Bidder shall also upload the soft copy of the dispatch documents consisting of BL / AWB, Invoice, delivery note, packing list, country of origin & Test certificates and other documents as specifically indicated in the SCC in PRADAN Portal (https://hpep.bhel.com/mm) within Five days from the B/L date for sea shipment and One day from AWB date for Air shipment and sent to email ids: mssea@bhel.in, msair@bhel.in, cmmfe@bhel.in. iii) AWB/BL must contain the information of BHEL GST no., and PAN no. iv) Air Shipments: Bidder shall ensure the following a) Port of discharge -- Mumbai/Chennai/Hyderabad (as indicated in SCC). b) Consignee shall be BHEL, Hyderabad. Material shall be air freighted through cargo mode only and not through Courier. c) Upon handing over the cargo to the forwarder, bidder shall ensure the acknowledgement receipt with wordings "Cargo handed over in sound condition for Air freighting". Note: Warehouse receipt will not be considered for penalty calculations. d) In case of CIF/ shipments, bidder shall also inform BHEL the information about discharge port agent details and cargo arrival information within one day from the date of Shipment. e) Following dimensions of single package may be noted. - i). Maximum dimension of the cargo(ODC) -- 125" x 88" x 63" - ii). Maximum weight of the cargo -- 3.5 MT. If any package dimension or weight exceeds the above set limits, it will be treated as Over Dimension Cargo (ODC) or Over Weight Cargo and bidder shall inform BHEL 30 days in advance to the delivery date to enable BHEL to finalize the freight forwarder. - f). If package falls under Hazardous category, bidder shall communicate BHEL 30 days in advance period with document support. v) Sea Shipments:- bidder shall ensure the following - a). Port of discharge -- Nhavaseva/Mumbai/Chennai. - b). Place of Delivery / Final Destination for CIP shipments - Nhavaseva CFS / Chennai CFS. - c). In case of FOB shipments, bidder shall handover the material to BHEL nominated forwarder and obtain the cargo receipt. - d). If the material cannot be containerized in 20 or 40 GP containers, an advance information of 30 days prior to the delivery date shall be communicated to BHEL for necessary arrangements and finalisation of freight forwarder. - e). For CIP shipments 1. In case of FCL shipments, Detention free period must be 14 days. 2. Bidder shall also inform BHEL the information about discharge port agent details and cargo arrival information within 5 days from the date of Shipment. 3. No charges for the services rendered till place of destination will be payable by BHEL. In case liner / forwarder insist for charges, not in the scope of BHEL, the same will be adjusted from bidder account. 4. In case of CIF shipments -- Bidder must select a forwarder/liner whose discharge port published tariff for THC and other services is available. Any charges over and above the published tariff will not be borne by BHEL or will be adjusted from the bidder's bill. 5. bidder must insure the cargo for 110% of material value including the freight amount. (vi). Recovery charges for non-submission of documents: - Bidder shall submit all the required documents to BHEL as prescribed in the Purchase order and NIT.		
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	If BHEL incurs any charges such as Penalty, demurrage, container detention, wharfage, storage, Ground rent etc., due to non - compliance / non - submission of documents prescribed in Purchase Order/ NIT/Letter of credit, the same shall be recovered from the bidder as under: 1. EUROPE/USA/Black Sea/ Far East/Middle East/South East sector A. For FOB Sea Consignments:- Penalty for late submission / negotiation of documents beyond 14 days shall be as under: <table><tr><th rowspan="2">Sl. no</th><th rowspan="2">Period (From Date of Bill of Lading)</th><th>Recoverable Charges</th><th colspan="2">Recoverable Charges per day per container</th></tr><tr><th>LCL per week/ Break bulk cargo per day</th><th>20FT Container</th><th>40FT Container</th></tr><tr><td>i</td><td>Upto 14th day</td><td>Nil</td><td>Nil</td><td>Nil</td></tr><tr><td>ii</td><td>15th day onward</td><td>USD 10</td><td>USD 110</td><td>USD 200</td></tr></table> B. For CIP Sea Shipments: - Bidder shall provide rates for detention charges after free period at the time of offer itself in case of engagement of 20FT Container and 40FT category. In case of late presentation of documents to the bank recovery will be effected from the Bidder as per the rates quoted by the Bidder at the time of offer in this regard. In case of Break bulk cargo and LCL, Demurrage charges shall be recovered at the rate of USD 1 per Ton per day and storage charges at the rate of USD 10 per week respectively shall be charged as late presentation charges. (vii) Description of items in invoice, packing list, BL / AWB or LR shall be same as PO item description. Bidders shall ensure that invoice shall contain PAN nos. of both bidder and BHEL along with other tax related numbers. BHEL PAN AAACB4146P and BHEL TAN HYDB00086C Any other additional documents sought by the statutory authorities, the same shall be produced by the bidder on priority basis. (viii) Bidder shall provide package details including number of packages, gross weight, net weight etc. (ix) The bidder shall provide the following documents at the time of submission of offer: a) No Business Connection in India declaration issued by the bidder as per the format specified. (or) b) (i) No Permanent Establishment in India declaration issued by the bidder as per the format specified. (ii) Tax Residence Certificate issued by the bidder's tax authorities. (iii) Form 10F, as attached in Annexure V, to be issued by the bidder. c) In case the bidder has a Business Connection in India as per Section 9 of Income Tax Act or significant economic presence in India as per rule 11 UD of IT Act or Permanent Establishment in India as per Article 5 of Double Taxation Avoidance Agreement between India and the bidder's country, the bidder shall provide a withholding tax order issued by the Indian Income Tax authority for recovery of applicable tax.	Sl. no	Period (From Date of Bill of Lading)	Recoverable Charges	Recoverable Charges per day per container		LCL per week/ Break bulk cargo per day	20FT Container	40FT Container	i	Upto 14th day	Nil	Nil	Nil	ii	15th day onward	USD 10	USD 110	USD 200		
Sl. no	Period (From Date of Bill of Lading)			Recoverable Charges	Recoverable Charges per day per container																
		LCL per week/ Break bulk cargo per day	20FT Container	40FT Container																	
i	Upto 14th day	Nil	Nil	Nil																	
ii	15th day onward	USD 10	USD 110	USD 200																	
8	Delivery Schedule																				
	The tendered goods shall be delivered within the period stipulated in NIT/ SCC as accepted. Inordinate delay/early supply are liable for rejection/Hold on payment.		Non Deviatable																		
9	Pricing Terms																				
	Quoted price shall be inclusive of Packing & Forwarding and shall remain firm and valid during the execution of PO. Offers with PVC will be rejected outright except in cases where specifically called for in the SCC.		Non Deviatable																		
10	PRICE VALIDITY :																				
	Unless otherwise specified, offer shall be valid for a period of 90 days from the date of bid opening (Technical bid /part-I in case of two part bid). However the prices quoted for spare parts of the Main equipment shall be kept valid for a period as specified in SCC.		Non Deviatable																		

11	Taxes & Duties (RATE TO BE INDICATED by the bidder against the space provided)	
A	Indigenous Purchase i) Only valid GST registered bidders will be considered for the tender. The GSTIN of the bidder should be clearly mentioned in the offer. ii) If bidder is exempted from GST registration under any provision of the GST Law, a declaration with due supporting documents should be furnished for considering the offer. iii) Bidder to quote the applicable taxes in the following manner: - Harmonized System of Nomenclature (HSN) of Goods - Services Accounting Code(SAC) of Services. - IGST/CGST/SGST/UTGST: Rate of Tax to be quoted as extra in % against the space provided iv) Bidders to ensure correct applicability of IGST/CGST/SGST/UTGST based on the Inter / Intra state movement of goods/services. v) In case Bidder has opted for GST Composition Scheme, the same may be stated explicitly both in their technical and price bids. An undertaking to the effect that any change in the status of the bidder will be intimated. vi) Any other taxes & duties not covered anywhere above may be indicated separately. Taxes deducted at source: - TDS as per the extant statutes shall be deducted. - In case bidder does not provide PAN details, higher rate of tax shall be deducted as per the Act. - Concessional certificates, if any, should be provided well in time for lower deduction of tax.	Non Deviatable
	Terms & Conditions to be complied 1. All invoices (incl. Credit Notes, Debit Notes) to contain BHEL HPEP GSTIN ie 36AAACB4146P1ZG. Invoices submitted should be in the format as specified under GST Law. All details as mentioned in Invoice Rules including Dealer GST registration number (GSTIN), invoice number with date of issue, quantity, rate, value, taxes with nomenclature – CGST, SGST, UGST, IGST mentioned separately, HSN Code / SAC Code etc. 2. Reimbursement of GST amount will be made only upon completion of the following: i. Bidder declaring such invoice in their GSTR-1 Return/ IFF ii. Receipt of Goods or Services and Submission of Tax invoice by BHEL iii. The tax invoice is reflected in the GSTR2B of BHEL, HPEP (buyer). Payment of GST will be made only if it is matching with data uploaded by the Bidder in GST portal. 3. In case of discrepancy in the data uploaded by the bidder in the GSTN portal vis-a-vis the tax invoice or in case of any shortages or rejection in the supply, then BHEL will not be able to avail the tax credit. The same would be available in PRADAN Portal for the bidder's information. Bidder has to rectify the data discrepancy in the GSTN portal or issue credit note or debit note (details also to be uploaded in GSTN portal) for the shortages or rejections in the supplies or additional claims for processing of such invoices. 4. In cases where invoice details have been uploaded by the bidder but failed to remit the GST amount to GST Department within stipulated time, then GST on the invoices in default will be recovered from the bidder along with the applicable interest. 5. In case GST credit is delayed/denied to BHEL due to non/delayed receipt of goods and/or tax invoice or expiry of timeline prescribed in GST law for availing such ITC, or any other reasons not attributable to BHEL, such GST amount will be recoverable from bidder along with interest levied/ leviable on BHEL. 6. GST TDS deducted as per GST Act, is uploaded in GSTN portal along GSTR7. Bidders can directly download the GST TDS Certificate from the GSTN Portal. 7. Bidders to note that Rules & Regulations pertaining to E-way bill system are to be strictly adhered to, as and when notified by Govt. authorities. 8. Vendors who fall under the E-Invoice regulations, i.e., having an annual turnover of Rs. 10 crores (Rs 5 crore w.e.f 01.08.2023) in the previous year shall issue e-invoice in line with Rule 48(4) of CGST Rules failing which GST amount will not be reimbursed to the vendor even if the other requirements are fulfilled. 9. In case the vendor is exempted by the GST department under the Rule 48(4) of CGST Rules from issuing E-invoice, a declaration as prescribed in the Notification 17/2022 - Central Tax dated 01-08-2022 shall be provided on the invoice. 10. Vendors who do not fall under the E-Invoice regulations, i.e., whose annual turnover is less than Rs. 10 crores (Rs 5 crore w.e.f 01.08.2023) in the previous year have to give an undertaking indemnifying BHEL that the vendor is not falling under the E-invoice requirement category and that in case of any breach of this E-invoicing requirement, the vendor indemnifies BHEL of any consequences that may arise due to such a breach. 11. No GST shall be levied on liquidated damages / penalty.	

B.	Foreign Purchase (Imports) The offered price shall be inclusive of all the Taxes and duties as applicable in country of export / country of dispatch for the quoted price. Taxes deducted at source: a. In case of goods or services subject to Income tax in India, such tax as per the extant statute shall be recovered. b. In case bidder does not provide necessary documents for beneficial taxation (Refer clause 7-B-(ix) a-c of ITB), the TDS deduction shall be at the maximum percentage stipulated as per the provisions of Income Tax Act.		Non Deviatable
12	Payment Terms: Unless otherwise specified in SCC, following shall be the terms of Payment.		
A	Indigenous: a. Micro & Small Enterprises (MSEs) - 100% EFT payment within 45 days b. Medium Enterprises - 100% EFT payment within 60 days c. Non MSME Bidders - 100% Direct EFT Payment within 90 Days Note A. Above due date is reckoned from the date of Receipt of material or 15 days from the date of submission of complete set of documents as per PO whichever is later. Objections, if any on the invoice, available on SUVIDHA portal need to be closed. In such instances, due date is reckoned from the closure of objections. Vendors are advised to get familiarized with the document exchange feature on SUVIDHA portal. Payment will be made for Material accepted value. B. MSEs (covered under MSME Act) need to register and renew periodically and update the same with BHEL C. The taxes that are reimbursed are limited to applicable taxes as on the Purchase Order delivery date or the amount actually paid whichever is less. D. Adherence to the above time schedule of payment is contingent upon Bidder complying with GST provisions and availment of Input Tax Credit by BHEL before the date of payment. E. In case of packaged items, 10% of supply value will be retained till completion of total supplies. F. Bidders to comply with clause 11 on GST requirements G. MSE benefits are not applicable to Traders / Wholesalers registered as MSEs. H. . In respect of procurement of goods or services from Micro, Small and Medium enterprises (MSMEs), the settlement of invoice shall be only through any of the TReDS platform (i.e RXIL, MI xchange, Invoicemart, KReDX), authorised by the Reserve Bank of India. Supplier will have the option to change the TReDS platform from the drop down menu on Suvidha portal of BHEL, at the time of invoice submission. Wherever the Trade Receivable is accepted by BHEL, the same shall be validated by the Unit on the respective TReDS platform selected by the supplier. The routing of invoices through the TReDS platform shall not be construed as mandating discounting of such invoices and the MSMEs supplier shall have the option to avail or not avail financing or discounting of its receivables on the TReDS platform. In case discounting is not availed by the supplier on TReDS, the trade receivables will be paid through TReDS as per the payment timelines indicated in the contract."		
B	Imports: i) 100% payment (less Indian Agency Commission, if any) shall be through Wire Transfer with a credit period of 45 days - Cash Against Documents (CAD) ii) In case Bidder opts for Letter of Credit payment, the LC Usance period shall be 90 days with respective bank charges to respective accounts and loading of 0.50% iii) Indian Agency commission if payable and so specified in the Purchase order shall be paid in Indian Rupees, considering the SBI TT selling exchange rate, as on the date of payment after successful completion of the contract.		
C	Conditions for LC: a. LC validity period will be 90 days and for any extension, applicable charges will be to bidder's account. b. LC will be opened after successful completion of pre dispatch inspection prior to the scheduled / agreed delivery date. LC will be opened within 15 bank working days from the date of request.		Non Deviatable
D	Conditions for both Indigenous & Foreign Bidders: a. In case Bidders insist for lesser Credit period and BHEL accepts, a loading of 0.60% for every 15 days reduction will be applicable. b. In case PBG as required is not furnished, Payment will be released deducting the BG amount, which will be paid after expiry of warranty period against submission of supplementary claim. c. Payment does not imply in any respect whatsoever a waiver of Buyer's right to performance of the Order. Buyer is entitled to set off claimable debts against claimable liabilities with the bidder by means of a setoff Note.		Non Deviatable

13	Penalty clause:		
	In the event of delay in supply /part-supply of goods, Penalty as detailed below is leviable a. Penalty of 0.5% per week or part there of shall be levied, limited to a max of 10% (ten percent) of delayed portion value / order value (as specified in SCC). b. Penalty applicable for delay in documentation is as per SCC. c. Date Reckoned for Penalty - Indigenous Orders with delivery terms FOR HPEP: C Note date. - Indigenous Orders (Others): Date of e-waybill. - Imports: For CIP/CIF Orders: IGM date - Imports: For FOB Orders: AWB / BL date - Imports: - For FCA Orders: - Date of acknowledgement from Freight Forwarder. - For Ex Work Orders (both air and sea): - Latest of Air Freight Request (AFR), Invoice, Packing List, Inspection date (if applicable) or any other documentary evidence confirming material readiness. d. In case of Deviation to above Penalty clause, loading applicable to the extent to which not agreed by Bidder. e. Timelines as mentioned in the Annexure 1 will be considered for reckoning delivery.		
14	Excess materials supplied beyond tolerance limit as specified in PO will not be paid and bidder may raise credit note for the excess/unaccepted material as per GST law.		Non Deviatable
15	Rejected materials , if any, shall be collected by the bidder within 90 days of such communication to the bidder. Beyond this period the bidder forfeits their right to the materials.		Non Deviatable
16	Guarantee / Warranty Period: Wherever required, and so provided in the specifications/SCC/Purchase Order, the bidder shall guarantee that the goods supplied shall comply with the specifications laid down, for materials, workmanship and performance. a. Guarantee period shall be 12 months from the date of commissioning or 18 months from the date of supply whichever is earlier. b. In case erection & commissioning is involved, guarantee period shall be 12 months from the date of commissioning. c. In case of equipment bought as a package which are intended to be incorporated in installations or systems, the guarantee period shall be 12 months from the date of commissioning of such equipment. The guarantee period shall be extended by the period during which the goods are not in compliance. If the delivery is found to be non-complaint, bidder shall replace, repair or re-execute the as requested by BHEL. If the bidder defaults on his obligations, buyer has the right to proceed to replace, repair or re-execute at the bidder's expense. A guarantee period as described above shall apply afresh to replaced, repaired or re-executed parts of a delivery. Loading for deviation: In case warranty specified in SCC is over and above the period mentioned in b & c above; loading will be 1% per annum for the deviation in warranty end period, on the contract value. Expected commissioning period is as indicated in SCC.		Non Deviatable
17	PERFORMANCE BANK GUARANTEE (PBG) (Applicable in case mentioned in SCC) In case enquiry specifically spells out PBG requirement, PBG is to be submitted by Bidder in requisite format as per Annexure VII. Further detailing on PBG as specified in SCC. The PBG shall be for the performance of the goods and shall remain binding notwithstanding such variations, alterations or extensions of item as may be made, give, conceded or agreed to between the Bidder and BHEL under these Terms and conditions or otherwise.		Non Deviatable
NOTE: Deviations (Commercial as well as Technical) from the tender specifications and conditions are generally not acceptable. However, deviation if any, shall be brought out clearly with proper justification in the offer. The deviation, if considered by BHEL, shall be loaded for comparison, while evaluating the offer. If a bidder unconditionally withdraws any deviation before price bid opening, the same shall not be loaded. Loading criteria in respect of major commercial conditions where deviations if any are accepted shall be as per clause No.18. The Bidders may specifically note the following.			

18	Evaluation and Loading Criteria: i) Evaluation Currency for this tender shall be “INR”. ii) Evaluation of prices shall be done item-wise unless otherwise specified in the SCC. iii) Evaluation shall be on the basis of delivered cost, i.e. “Total Cost to BHEL” w.r.t the finalized technical scope and commercial conditions (after considering incidence of applicable taxes and duties and loading). iv) In the course of evaluation, if more than one Bidder happens to occupy L1 status, effective L1 will be decided by soliciting discounts from the respective L1 Bidders. In case more than one Bidder happens to occupy the L1 status even after soliciting discounts, the L1 Bidder shall be decided by a toss/draw of lots, in the presence of the respective L1 Bidders or their representatives. Ranking will be done accordingly. BHEL decision in such situations shall be final and binding. INDIGENOUS a. Bidder shall ensure to indicate the applicable taxes against each line item, failing which the same will be considered as inclusive/NIL. b. Ex-works offers received (as against FOR Destination mentioned in enquiry) shall be loaded by 2% of Ex-works value. c. GST and any other charges quoted will be added to the base price. However, in case input credit is available for GST (SGST, CGST/IGST), the same shall be excluded for arriving at “Total Cost to BHEL” IMPORTS For evaluation of offers in foreign currency, exchange rate (TT selling rate of State Bank of India) as on the date of bid opening (Part-I, in case of two-part bids) shall be considered. If the relevant day happens to be a bank holiday, then the forex rate as on the previous bank (SBI) working day shall be taken. In case of foreign Bidders, the quoted price shall be loaded by the following factors to arrive at “Total Cost to BHEL”: - Import duty as applicable on the date of Part-I bid opening. - Loading will be as per the table below <table><tr><td></td><td>Ex Works</td><td>FOB/F CA</td><td>CIF/C FR</td><td>CIP</td></tr><tr><td>Foreign Inland freight and insurance</td><td>2%</td><td></td><td></td><td></td></tr><tr><td>Marine freight and marine insurance</td><td>3%</td><td>3%</td><td></td><td></td></tr><tr><td>Destination Port handling charges</td><td>0.50%</td><td>0.50%</td><td>0.50%</td><td></td></tr><tr><td>clearing charges & inland freight and insurance</td><td>2%</td><td>2%</td><td>2%</td><td>2%</td></tr></table> COMMON LOADING FOR IMPORTS & INDIGENOUS that will be added for arriving the "Total Cost to BHEL" A. Loading on Deviated Penalty clause shall be 10% or to the extent to which the bidder has opted for deviation. B. Loading for payment terms as per clause 12 of ITB C. Loading for deviation in Warranty & PBG as per clause 16,17.		Ex Works	FOB/F CA	CIF/C FR	CIP	Foreign Inland freight and insurance	2%				Marine freight and marine insurance	3%	3%			Destination Port handling charges	0.50%	0.50%	0.50%		clearing charges & inland freight and insurance	2%	2%	2%	2%
	Ex Works	FOB/F CA	CIF/C FR	CIP																						
Foreign Inland freight and insurance	2%																									
Marine freight and marine insurance	3%	3%																								
Destination Port handling charges	0.50%	0.50%	0.50%																							
clearing charges & inland freight and insurance	2%	2%	2%	2%																						
19	Procurement directly from the manufacturers/ suppliers shall be preferred. However, no agent shall be allowed to represent more than one manufacturer/ supplier in the same tender. Moreover, either the agent could bid on behalf of the manufacturer/ supplier or the manufacturer / supplier could bid directly but not both. In case bids are received from both from the manufacturer/ supplier and the agent, bid received from the agent shall be ignored.																									
20	RIGHT OF REJECTION /NON- PLACEMENT OF PO: BHEL reserves the right to accept or reject any or all bid/s in full or part without assigning any reason whatsoever.																									
21	INTEGRITY PACT Bidders shall have to enter into Integrity Pact with BHEL as per Annexure VI - for Tender value of rupees two crores and above and shall be signed by the authorized signatory along with the offer, failing which Bidder’s offer will be rejected.																									
22	Public Procurement																									
A	Make in India For this Procurement, the local content to categorize a bidder as a Class I local bidder / Class II local bidder / Non-Local bidder and purchase preference to Class I local bidder, is as defined in Public Procurement (Preference to Make in India) order No P-45021/2/2017-PP(BE-II) dated 04-06-2020 issued by DPIIT as amended from time to time. Proforma for self-certification for minimum local content and auditor’s certification is given in Annexure III.																									

B	Any Bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with competent authority. GOI website https://www.mea.gov.in/ to be referred for latest details of competent authority and exemptions . Proforma for self-certification for compliance is given in Annexure IV.															
C	Startups: For Start-ups duly registered with DPIIT (Copy of certificate to be provided), condition of prior turnover and prior experience in Public Procurement may be relaxed subject to meeting of Quality and Technical Specifications. Startups are exempt from paying EMD.															
23	Benefits earmarked for Purchase from Micro & Small Enterprises (MSEs) – Indigenous Purchase															
A	All Micro and Small Enterprises (MSEs) as defined in MSE Procurement Policy are exempt from Paying EMD. NSIC/UDYAM registered bidders shall submit NSIC/UDYAM Certificate along with bid documents. Any Bidder falling under MSE category shall furnish the following details & submit documentary evidence/ Govt. Certificate etc. in support of the same along with their techno-commercial offer. <table border="1"><thead><tr><th>Type under MSE</th><th>SC/ST Owned</th><th>Women Owned</th><th>Others (excluding SC/ST & Women 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> Note: If the bidder does not furnish the above in the tender, offer shall be processed construing that the bidder is not falling under MSE category. Date to be reckoned for determining the deemed validity will be the last date of Technical bid submission. Non- submission of such document will lead to consideration of their bid, at par with other bidders and MSE status of such bidders shall be shifted to Non- MSE Category till the bidder submits these documents.				Type under MSE	SC/ST Owned	Women Owned	Others (excluding SC/ST & Women Owned)	Micro				Small			
Type under MSE	SC/ST Owned	Women Owned	Others (excluding SC/ST & Women Owned)													
Micro																
Small																
B	MSE suppliers can avail the intended benefits in respect of the procurements related to the Goods and Services only (Definition of Goods and Services as enumerated by Govt. of India vide Office Memorandum F. No. 21(8)/2011-MA dtd. 09/11/2016 office of AS & DC, MSME) and subsequent amendments & clarifications, if any. Documents NSIC/UDYAM Certificate submitted by the bidder shall be verified by BHEL for rendering the applicable benefits.															
C	If an enterprise falling under MSME category as defined in the Act, graduates to a higher category from its original category or beyond the purview of the Act, it shall continue to avail all non-tax benefits of its original category notified by the Ministry of Micro, Small and Medium Enterprise for a period of three years from the date of such graduation to the higher category.															
D	BHEL HPEP is registered with TReDS (RXIL , M1XCHANGE , InvoiceMart) platform. MSME bidders are requested to get registered with TReDS(RXIL / M1XCHANGE / InvoiceMart/ exchanges added from time to time) platform to avail the facility as per the GOI guidelines.															
24	Inspection Measuring and Test Equipment (IMTE) used by the Bidder/ Contractor or sub-contractor shall be calibrated, maintained and controlled. Calibration shall be valid and IMTE maintained in sound condition during usage.															
25	ISO-9001, ISO14001 & OHSMS 45001 shall be complied.															
26	If BHEL registered supplier is not quoting against this NIT, supplier shall send regret letter positively with valid reasons for not participating. Repeated lack of response on the part of supplier may lead to deletion of such registered supplier from BHEL's approved supplier's list as per BHEL SEARP Guidelines.															
27	<u>BREACH OF CONTRACT, REMEDIES AND TERMINATION</u> 27.1 BREACH OF CONTRACT: The following shall amount to breach of contract: i. Non-supply of material/ non-completion of work by the Supplier/Vendor within scheduled delivery/ completion period as per contract or as extended from time to time. ii. The Supplier/Vendor fails to perform as per the activity schedule and there are sufficient reasons even before expiry of the delivery/ completion period to justify that supplies shall be inordinately delayed beyond contractual delivery/ completion period. iii. The Supplier/Vendor delivers equipment/ material not of the contracted quality. iv. The Supplier/Vendor fails to replace the defective equipment/ material/ component as per guarantee clause. v. Withdrawal from or abandonment of the work by the Supplier/Vendor before completion as per contract. vi. Assignment, transfer, subletting of Contract by the Supplier/Vendor without BHEL's written permission resulting in termination of Contract or part thereof by BHEL. vii. Non-compliance to any contractual condition or any other default attributable to Supplier/Vendor. viii. Any other reason(s) attributable to Vendor towards failure of performance of contract. In case of breach of contract, BHEL shall have the right to terminate the Purchase Order/ Contract either in whole or in part thereof without any compensation to the Supplier/Vendor. ix. Any of the declarations furnished by the contractor at the time of bidding and/ or entering into the contract for supply are found untruthful and such declarations were of a nature that could have resulted in non-award of contract to the contractor or could expose BHEL and/ or Owner to adverse consequences, financial or otherwise. x. Supplier/Vendor is convicted of any offence involving corrupt business practices, antinational activities or any such offence that compromises the business ethics of BHEL, in violation of the Integrity Pact entered into with BHEL has the potential to harm the overall business of BHEL/ Owner. Note- Once BHEL considers that a breach of contract has occurred on the part of Supplier/Vendor, BHEL shall notify the Supplier/Vendor by way of notice in this regard. Contractor shall be given an opportunity to rectify the reasons causing the breach of contract within a period of 14 days. In case the contractor fails to remedy the breach, as mentioned in the notice, to the satisfaction of BHEL, BHEL shall have the right to take recourse to any of the remedial actions available to it under the relevant provisions of contract															

	27.2 Remedies in case of Breach of Contract.: i. Wherein the period as stipulated in the notice issued under clause 27.1 has expired and Supplier/Vendor has failed to remedy the breach, BHEL will have the right to terminate the contract on the ground of "Breach of Contract" without any further notice to contractor. ii. Upon termination of contract, BHEL shall be entitled to recover an amount equivalent to 10% of the Contract Value for the damages on account of breach of contract committed by the Supplier/Vendor. This amount shall be recovered by way of encashing the security instruments like performance bank guarantee etc available with BHEL against the said contract. In case the value of the security instruments available is less than 10% of the contract value, the balance amount shall be recovered from other financial remedies (i.e. available bills of the Supplier/Vendor, retention amount, from the money due to the Supplier/Vendor etc. with BHEL) or the other legal remedies shall be pursued. iii. Wherever the value of security instruments like performance bank guarantee available with BHEL against the said contract is 10% of the contract value or more, such security instruments to the extent of 10% contract value will be encashed. In case no security instruments are available or the value of the security instruments available is less than 10% of the contract value, the 10% of the contract value or the balance amount, as the case may be, will be recovered in all or any of the following manners: iv. In case the amount recovered under sub clause (a) above is not sufficient to fulfil the amount recoverable then; a demand notice to deposit the balance amount within 30 days shall be issued to Supplier/Vendor. v. If Supplier/Vendor fails to deposit the balance amount within the period as prescribed in demand notice, following action shall be taken for recovery of the balance amount: a). from dues available in the form of Bills payable to defaulted Supplier/Vendor against the same contract. b). If it is not possible to recover the dues available from the same contract or dues are insufficient to meet the recoverable amount, balance amount shall be recovered from any money(s) payable to Supplier/Vendor under any contract with other Units of BHEL including recovery from security deposits or any other deposit available in the form of security instruments of any kind against Security deposit or EMD. vi. In-case recoveries are not possible with any of the above available options, Legal action shall be initiated for recovery against defaulted supplier/Vendor. vii. It is an agreed term of contract that this amount shall be a genuine pre-estimate of damages that BHEL would incur in completion of balance contractual obligation of the contract through any other agency and BHEL will not be required to furnish any other evidence to the Supplier/Vendor for the purpose of estimation of damages. viii. In addition to the above, imposition of liquidated damages, debarment, termination, de-scoping, short-closure, etc., shall be applied as per provisions of the contract. ix. Non-performance of contract attracts penal provisions in line with BHEL guidelines for Suspension of Business Dealings (SBD). Note: 1) The defaulting Supplier/Vendor shall not be eligible for participation in any of the future enquiries floated by BHEL to complete the balance work. The defaulting contractor shall mean and include: (a) In case defaulted Supplier/Vendor is the Sole Proprietorship Firm, any Sole Proprietorship Firm owned by same Sole Proprietor. (b) In case defaulted Supplier/Vendor is The Partnership Firm, any firm comprising of same partners/ some of the same partners; or sole proprietorship firm owned by any partner(s) as a sole proprietor.
28	Any other terms and conditions of the bidder attached / referred against the tender enquiry will not be considered.
29	All drawings, patterns and tools supplied by BHEL or made at BHEL's expense are BHEL's property. These cannot be used or referred to any other party and must be used only in the execution of BHEL's orders.
30	Any amount payable by the bidder under any of the conditions of this contract shall be liable to be adjusted against any amount payable to the bidder under any other work / contract awarded by BHEL HPEP or any other BHEL Units. This is without prejudice to any other action as may be deemed fit by BHEL.
31	The bids of the bidders who are on the banned list and also the bids of the bidders, who engage the services of the banned firms, will be rejected. The list of firms banned by BHEL is available on BHEL web site: www.bhel.com
32	Ordering and confirmation of order
	The bidder shall send the order acceptance within one week from the date of LOI/Purchase order or such other period as specified/agreed by the Buyer. Buyer reserves the right to revoke the order placed if the order confirmation differs from the original order placed. Buyer shall be legally bound, only if agreed for any deviation explicitly in writing. The acceptance of deliverables or supplies by Buyer as well as payments made in this regard shall not imply acceptance of any deviations. The Purchase order will be deemed to have been accepted if no communication to the contrary is received within one week (or the time limit as specified /agreed by the Buyer) from the date of P.O. Buyer, is at liberty to send signed P.O. through electronic media such as e-mail and the receipt of which shall be treated as receipt of order.
33	Execution
	The whole contract is to be executed in the most workman like manner, substantial and approved as per the contracted terms.
34	Progress Report
	The bidder shall render such report as to the progress of work and in such form as may be called for by the Buyer from time to time. The submission and acceptance of such reports shall not prejudice the rights of the buyer in any manner. Bidder shall communicate to BHEL immediately, the change of address, ownership, contact person(s), the mobile numbers and e-mail of the dealing person concerned. Milestones shall be periodically updated by bidder through PRADAN Portal (https://hpep.bhel.com/mm/). Non updation will adversely affect service rating of bidder performance.

35	Non-disclosure Obligations
	Drawings, technical documents or other technical information received by one party shall not without the consent of the other party, be used for any other purpose than that for which they were provided. They may not, without the consent of the submitting party, otherwise be used or copied, reproduced, transmitted or communicated to third parties. All information and data contained in general product documentation, whether in electronic or any other form, are confidential and binding only to the extent that they are by reference expressly included in the contract. The bidder shall, as per agreed date/s but not later than the date of delivery, provide free of charge any information and/or drawings which are necessary to permit the Buyer to erect, commission, operate and maintain the product. Such information and drawings shall be supplied as specified in technical specification. All intellectual properties, including designs, drawings and product information etc. exchanged during the formation and execution of the contract shall continue to be the property of the submitting party. The bidder shall provide Buyer with all information pertaining to the delivery in so far as it could be of importance to Buyer. The bidder shall not reveal confidential information to its own employees not involved with the tender/contract and its execution and delivery or to third parties, unless Buyer has agreed to this in writing beforehand. The bidder shall not be entitled to use the Buyer's name in advertisements and other commercial publications including website without prior written permission from Buyer. In the event of violation of the confidentiality as agreed, BHEL will take legal action as deemed fit. Non-disclosure agreement to be entered as per Annexure- II wherever applicable.
36	Inspection and Testing
A	The goods and stores shall be manufactured by approved quality system and each part/component may be inspected and tested by the Buyer prior to shipment and shall comply with relevant requirements. Buyer has the right to inspect at any stage during manufacture/ delivery.
B	Buyer or his authorized representative shall be entitled at all reasonable times during execution to inspect, examine and test at the bidder's premises the material and workmanship of all stores to be supplied under the contract, and if the part of the stores are being manufactured at other premises, the bidder shall obtain for buyer or his authorized representative permission to inspect, examine and test as if the said stores are being manufactured at the bidder's premises. Such inspection, examination and testing, if made shall not release the bidder from any obligation under the contract. For indigenous bidders all costs related to first inspection request shall be borne by the buyer and the cost of subsequent inspections due to non-readiness of material/rework/ rejections shall be borne by the bidder. In case of imports all inspection charges including third party inspections if any shall be borne by the bidder. The cost of inspection staff/third party specified by the Buyer shall be borne by bidder unless otherwise specifically agreed. If the contract provides for tests on the premises of the bidder or any of his sub-contractor/s, bidder shall be responsible to provide such assistance, labor, materials, electricity, fuels, stores, apparatus, instruments as may be required and as may be reasonably demanded to carry out such tests efficiently. Cost of any type test or such other special tests shall be borne by the bidder unless otherwise specifically agreed in the contract. The Bidder shall give the authorized representative of the buyer reasonable notice in writing of the date on and the place at which any stores will be ready for inspection/ testing as provided in the Contract. Annexure – I, may strictly be complied with or the time lines. Any delay in submission of the documents by the bidder will not alter the delivery date.
37	Quality and Condition of the Deliverables
	The bidder shall be responsible for compliance with applicable technical, safety, quality, environmental requirements and other regulations in relation to products, packaging and raw and ancillary materials.
38	Packaging and Dispatch
	The bidder shall package the deliverables safely and carefully and pack them suitably in all respects considering the peculiarity of the material for normal safe transport by sea/air/rail/road to its destination suitably protected against loss, damage, corrosion in transit and the effect or tropical salt laden atmosphere. The packages shall be provided with fixtures/hooks and sling marks as may be required for easy and safe handling by mechanical means. Special packaging conditions/ environmental conditions as defined in the NIT shall be fully complied. Each package must be marked with consignee name, address, P.O. number, Package Number, gross weight & net weight, dimensions (Lx B x H) and bidder's name. The packing shall allow for easy removal and checking of goods on receipt and comply with carrier's conditions of packing or established trade practices. Packing list for goods inside each package with P.O. item No. & quantity must also be fixed securely outside the box to indicate the contents. If any consignment needs special handling instruction, the same shall be clearly marked with standard symbols/instructions. Hazardous material should be notified as such and their packing, transportation and other protection must conform to relevant regulations.
39	Contract variations; Increase or decrease in the scope of supply
	Buyer may vary the contracted scope during execution due to exigencies of project requirement. If the bidder is of the opinion that the variation has an effect on the agreed price or delivery period, Buyer shall be informed of this immediately in writing along with technical details, and in the event of additional work, submit a quotation with regards to the price and period involved, as well as the effect this additional work will have on the other work to be performed by the bidder. Wherever unit rates are available in the contract, the same shall be applied to such additional work. The bidder shall not perform additional work before buyer has issued written instructions/amendment to the purchase order to that effect. The work which the bidder should have or could have anticipated in terms of delivering the service (s) and functionality (ies) as described in this agreement should be executed by the bidder without any price implication. In case of no change in the scope / technical specifications, bidder shall endeavor to keep the material ready and intimate the same to BHEL within the contractual delivery date, failing which, the delay if any will be attributed to supplier, and any upward price variation thereof for delivery at a later date is not admissible.
40	Rejected/Short shipments/ warranty/guarantee replacements
	In case of any short shipment during initial supply which is subsequently dispatched by the bidder or any guarantee / warranty replacements shall be dispatched on "DDP-Delivered duty paid BHEL stores" basis for imported items and "FOR-BHEL Stores/designated destination" basis for indigenous items.

41	Export Administration Regulations
	If a delivery includes such technology and / or supply that is subjected to the export regulations the bidder shall obtain due permissions, approvals, license etc.
42	Force Majeure
	The bidder shall not be considered in default if delay occurs due to causes beyond their control such as Acts of God, Natural calamities, Fire, Frost, Flood, Civil War, civil commotion, riot, Government Restrictions. Only those causes that have duration of more than seven days shall be considered cause of force majeure. Notification to this effect duly certified by local chamber of commerce/statutory authorities with supporting documents shall be given by the bidder to BHEL by registered letter/courier service immediately without loss of time. In the event of delay due to such causes the delivery schedule shall be extended for a length of time equal to the period of Force Majeure or at the option of BHEL the order may be cancelled. Such cancellation would be without any liability whatsoever on the part of BHEL. In the event of such cancellation the bidder shall refund any amount advanced or paid to the bidder by BHEL and deliver back any material issued to him by BHEL and release facilities, if any provided by BHEL.
43	Non-waiver of Defaults
	If any individual provision of the contract is invalid, the other provisions shall not be affected.
44	Settlement of Disputes
	Except as otherwise specifically provided in the contract, all disputes concerning questions of the facts arising under the contract, shall be decided by the Buyer, subject to written appeal by the bidder to the buyer, whose decision shall be final. Any disputes of differences shall to the extent possible be settled amicably between the parties thereto, failing which the disputed issues shall be settled through arbitration The bidder shall continue to perform the contract, pending settlement of disputes(s).
45	Conciliation clause
	CONCILIATION CLAUSE FOR CONDUCTING CONCILIATION PROCEEDINGS UNDER THE BHEL CONCILIATION SCHEME, 2018: The Parties agree that if at any time (whether before, during or after the arbitral or judicial proceedings), any Disputes (which term shall mean and include any dispute, difference, question or disagreement arising in connection with construction, meaning, operation, effect, interpretation or breach of the agreement, contract or the Memorandum of Understanding, penalty deduction, time extension), which the Parties are unable to settle mutually, arise inter-se the Parties, the same may, be referred by either party to Conciliation to be conducted through Independent Experts Committee to be appointed by competent authority of BHEL from the BHEL Panel of Conciliators. 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 in http://www.bhel.com/index.php/story_details?story=2454 . The Procedure together with its Formats will be treated as if the same is part and parcel hereof and shall be as effectual as if set out herein in this ITB
46	ARBITRATION
	46.1 Except as provided elsewhere in this Contract, in case Parties are unable to reach amicable settlement (whether by Conciliation to be conducted as provided in Clause 45 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 IAMC (International Arbitration and Mediation Centre, Hyderabad) and such dispute to be adjudicated by Sole Arbitrator appointed in accordance with the IAMC Rules. 46.2 A party willing to commence arbitration proceeding shall invoke Arbitration Clause by giving notice to the other party in terms of section 21 of the Arbitration & Conciliation Act, 1996 (hereinafter referred to as the 'Notice') before referring the matter to IAMC. The Notice shall be addressed to the Head of the 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. 46.3 After expiry of 30 days from the date of receipt of aforesaid notice, the party invoking the Arbitration shall submit that dispute to IAMC 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. 46.4 The fee and expenses shall be borne by the parties as per the Arbitral Institutional rules. 46.5 The Arbitration proceedings shall be in English language and the seat and venue of Arbitration shall be Hyderabad. 46.6 Subject to the above, the provisions of Arbitration & Conciliation Act 1996 and any amendment thereof shall be applicable. All matters relating to this Contract and arising out of invocation of Arbitration clause are subject to the exclusive jurisdiction of the Court(s) situated at Hyderabad. 46.7 Notwithstanding any reference to the Designated Engineer or Conciliation or Arbitration herein, a. the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree. Settlement of Dispute clause cannot be invoked by the Contractor, if the Contract has been mutually closed or 'No Demand Certificate' has been furnished by the Contractor or any Settlement Agreement has been signed between the Employer and the Contractor. 46.8 It is agreed that Mechanism of resolution of disputes through arbitration shall be available only in the cases where the

	value of the dispute is less than Rs. 10 Crores. 46.9 In case the disputed amount Claim, Counter claim including interest is Rs. 10 crores and above, the parties shall be within their rights to take recourse to remedies other than Arbitration, as may be available to them under the applicable laws after prior intimation to the other party. Subject to the aforesaid conditions, provisions of the Arbitration and Conciliation Act, 1996 and any statutory modifications or re-enactment thereof as amended from time to time, shall apply to the arbitration proceedings under this clause. 46.10 In case, multiple arbitrations are invoked (whether sub-judice or arbitral award passed) by any party to under this contract, then the cumulative value of claims (including interest claimed or awarded) in all such arbitrations shall be taken in account while arriving at the total claim in dispute for the subject contract for the purpose of clause 46.9. 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. In the event of any dispute or difference relating to the interpretation and application of the provisions of commercial contract(s) between Central Public Sector Enterprises (CPSEs)/ Port Trusts inter se and also between CPSEs and Government Departments/Organizations (excluding disputes concerning Railways, Income Tax, Customs & Excise Departments), such dispute or difference shall be taken up by either party for resolution through AMRCD (Administrative Mechanism for Resolution of CPSEs Disputes) as mentioned in DPE OM No. 05/0003/2019-FTS-10937 dated 14-12-2022 as amended from time to time.		
47	Applicable Laws and jurisdiction of Courts		
	This contract shall be governed by the Law for the time being in force in the Republic of India. Subject to clause 46 of this contract, the Civil Court having original Civil Jurisdiction at Hyderabad, shall alone have exclusive jurisdiction in regard to all matters in respect of the Contract."		
48	BHEL-Fraud prevention policy shall be adhered to.		
	The Bidder along with its associate/ Collaborators/ Sub-contractors/ sub-bidders/ consultants/ service providers shall strictly adhere to BHEL Fraud Prevention policy displayed on BHEL Website http://www.bhel.com and shall immediately bring to the notice of BHEL management about any fraud or suspected fraud as soon as it comes to their notice. List of nodal officers is hosted on BHEL Hyderabad website https://hpep.bhel.com/.		
49	Suspected Cartel Formation		
	The Bidder declares that they will not enter into any illegal or undisclosed agreement or understanding, whether formal or informal with other Bidder(s). This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process. In case , the Bidder is found having indulged in above activities, suitable action shall be taken by BHEL as per extant policies / guidelines .		
50	Treatment of cases regarding conflict of interest: The bidder notes that a conflict of interest would said to have occurred in the tender process and execution of the resultant contract, in case of any of the following situations: i) If its personnel have a close personal, financial, or business relationship with any personnel of BHEL who are directly or indirectly related to the procurement or execution process of the contract, which can affect the decision of BHEL directly or indirectly; ii) The bidder (or his allied firm) provided services for the need assessment/procurement planning of the Tender process in which it is participating; iii) Procurement of goods directly from the manufacturers/ suppliers shall be preferred. However, if the OEM/ Principal insists on engaging the services of an agent, such agent shall not be allowed to represent more than one manufacturer/ supplier in the same tender. Moreover, either the agent could bid on behalf of the manufacturer/ supplier or the manufacturer/ supplier could bid directly but not both. In case bids are received from both the manufacturer/supplier and the agent, bid received from the agent shall be ignored. However, this shall not debar more than one Authorized distributor (with/ or without the OEM) from quoting equipment manufactured by an Original Equipment Manufacturer (OEM) in procurements under a Proprietary Article Certificate. iv) A bidder participates in more than one bid in this tender process. Participation in any capacity by a Bidder (including the participation of a Bidder as a partner/ JV member or sub-contractor in another bid or vice-versa) in more than one bid shall result in the disqualification of all bids in which he is a party. However, this does not limit the participation of an entity as a subcontractor in more than one bid if he is not bidding independently in his own name or as a member of a JV. The Bidder declares that they have read and understood the above aspects, and the bidder confirms that such conflict of interest does not exist and undertakes that they will not enter into any illegal or undisclosed agreement or understanding, whether formal or informal with other Bidder(s), in this regard. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process. In case, the Bidder is found having indulged in above activities, the same will be considered as a violation of the tender conditions, and suitable action shall be taken by BHEL as per extant policies/guidelines.		
51	Escalation Matrix		
	Details	Name	Contact Number
	Authorised representative		
	Technical In-charge		
	Finance and Taxation		
	Escalation for above		



52	Grievance Redressal Mechanism
	To promote transparency and ensure fair treatment of all bidders, a structured Grievance Redressal Mechanism is in place to address any concerns or issues arising during the tendering process or in subsequent business dealings with the company. Suppliers/Contractors are requested to follow the below escalation process for grievance resolution: 1. First Level: Any grievance should initially be addressed to the designated Dealing Officer, whose contact details are provided in the Notice Inviting Tender (NIT)/Contract. 2. Second Level: If the issue remains unresolved, it may be escalated by lodging a formal grievance through the SUVIDHA Portal: https://suvidha.bhel.in/suvidha/. Responses will be provided in accordance with the defined escalation matrix.”

Note: Purchase officer has to fill Annexure-I while sending enquiry

(Attachment to Enquiry No. XXXXXXXXXX Due on Date XX.XX.XXXX					
Special Conditions of Contract (SCC)			Rev 01		
Sl.No	ITB Clause No.	Clause	Available Options	BHEL requirements	Bidder response
1	3	Mode of Submission	Conventional / E-Procurement		
2	5	Type of Bid	Single part / Two Part / Three Part		
3	6	Indigenous purchase - Destination	BHEL, RCPuram, Hyderabad / Site		
4			Destination in case of Site		
		Mode of Shipment	Air / Sea		
5		Imports purchase - Destination	Mumbai / Navasheva / Hyderabad / Others		
6		Freight	Customer / BHEL / Vendor		
7		Insurance	Customer / BHEL / Vendor		
8		Basic Custom Duty	Project Imports/ Concessional Duty / Merit Duty / Nil / Others Duty Structure		
9	9	Price validity	_____ days		
		Optional Spares price validity	_____ Months / years from the date of _____		
10	8	Delivery Period	____ weeks / ____ Months (Staggered delivery to be detailed)		
11	18	Evaluation basis	Itemwise / Total		
12	Others	Quantity Split	Splittable / Non-Splittable		
13			(Tabulation for splitting to be detailed)		
14	9	Price Variation Clouser (PVC)	Applicable / Not applicable		
15	12	Payments Terms	Inland Letter of Credit (ILC) In case Bidder opts for ILC Payment, the LC Usance period shall be 120 days with all charges to bidder's account and loading of 0.50%. Note : Wherever it is felt commercially prudent to include Inland Letter of Credit (ILC) payment term, a separate note, before publishing tender, with proper justification for inclusion of ILC payment terms to be concurred by Head of Finance and approved by Product/Functional Head (not less than GM).		
16		Tender cost	Applicable / Not applicable		
17		Earnest Money Deposit (EMD)	____ % of tender value / Not applicable		
18		E & C Supervision Charges	Applicable / Not applicable		
19			If applicable , max 2% of Total contract value .		
20		Bank Guarantee against milestone payment	(If envisaged to be detailed with %)		
21	Others	Contract execution Bank Guarantee	____ % of PO Value to be submitted after receipt of PO / Not Applicable		
22	17	Performance Bank Guarantee			
	7	Additional documentation for payment	Test / Warranty / Guaranty / O&M Manual etc.,		
24	13	Max Penalty applicable on	Delayed portion / Order value		
25	Others	Contract Specific Penalty Clause	including Documentation delay , Performance , E&C etc., to be detailed , considering Project , Unit , Set , etc.,		
26	16	Guarantee / Warranty Period	Applicable Clause a/b/c		
27		Contract Specific Guarantee / Warranty Period	Specific period if any to be detailed		
28	Others	Expected commissioning period	_____ months from the date of supply		
29	48	Detailed Billing Breakup (BBU)	Applicable / Not applicable		
30			(If applicable , Bidder shall provide detailed billing break-up in respect of the major items/components (stipulated in the tender) as part of offer .)		
31	Others	Customer approval of vendor	Applicable / Not applicable		
32		Drawing approval	Applicable / Not applicable		
33		QAP approval	Applicable / Not applicable		
34	36	Inspection by	BHEL / BHEL TPI / Vendor TPI / Customer		
35	Others	Financial / Commercial PQC	Applicable / Not applicable		
36			if Applicable to be detailed		

Note:

Special Conditions of Contract (SCC) shall be got approved by the Checklist approving authority, for all tenders.

Annexure-I			
Major Activity timelines shall be considered for indigenous purchases			
S No	Activity	Agency	Timeline
1	PO acknowledgement	Vendor	_____ days from PO
2	Submission of Drawings and QP	Vendor	_____ days from PO
3	Approval of Drawings and QP	BHEL/Customer	_____ days from PO
4	Raising of Inspection Call	Vendor	_____ days from PO
5	Inspection completion	Self/BHEL/Third party inspection agency	_____ days from inspection call date
6	Despatch Instructions	BHEL	_____ days from inspection report
7	Reciept of Material	Vendor	_____ days from Despatch instructions

Above is illustrative only. Purchase department can add more activities depending on nature of prodcut/contracts

However absence of this annexure in NIT will entail non processing of delivery extention cases in case of delay in supplies of goods owing to reason attributable to BHEL.

(To be executed on Non- Judicial Stamp Paper for an appropriate value.
To be stamped as an agreement)

(For Suppliers on Unit's / Division's PMD)

ANNEXURE-II

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 Suppliers.
- 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 Contract 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 right 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 Improvements

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 This Supplier undertakes and agrees not to make copies or extracts of and not to disclose to other 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 in portions on different dates, 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 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 forgoing 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 9 (f) hereinabove, the Company shall have a right to withhold, recovery 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:

Except as provided elsewhere in this Contract, in case amicable settlement is not reached between the Parties, in respect of any dispute or difference; arising out of the formation, breach, termination, penalty deduction, validity or execution of the Contract; time extension, 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 to the sole arbitration. Sole arbitrator to be appointed by Head of the Unit - BHEL, HPEP.

The Arbitrator shall pass a reasoned award and the award of the Arbitrator shall be final and binding upon the Parties.

Subject as aforesaid, the provisions of Arbitration and Conciliation Act 1996 (India) or 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 Sangareddy / Hyderabad, Telangana. The language of arbitration shall be English and the documents shall be submitted in English.

The cost of arbitration shall initially be borne equally by the Parties subject to the final apportionment of the cost of the arbitration in the award of the Arbitrator.

Subject to the arbitration in terms of clause 46 of ITB (clause 27 of ATC GeM), the courts at Sangareddy, Telangana State shall have exclusive jurisdiction over any matter arising out of or in connection with this contract.

Notwithstanding the existence or any dispute or differences and/or reference for the arbitration, the Contractor shall proceed with and continue without hindrance the performance of its obligations under this Contract with due diligence and expedition in a professional manner except where the Contract has been terminated by either Party in terms of this Contract.

ARBITRATION FOR CONTRACT WITH PUBLIC SECTOR ENTERPRISE (PSE) OR A GOVERNMENT DEPARTMENT

In the event of any dispute or difference relating to the interpretation and application of the provisions of commercial contract(s) between Central Public Sector Enterprises (CPSEs/ Port Trusts inter se and also between CPSEs and Government Departments/Organizations (excluding disputes concerning Railways, Income Tax, Customs & Excise Departments), such dispute or difference shall be taken up by either party for resolution through AMRCD as mentioned in DPE OM No 4(1)/2013-DPE(GM/FTS 1835 dated 22-05-2018

CONCILIATION CLAUSE FOR CONDUCTING CONCILIATION PROCEEDINGS UNDER THE BHEL CONCILIATION SCHEME, 2018: The Parties agree that if at any time (whether before, during or after the arbitral or judicial proceedings), any Disputes (which term shall mean and include any dispute, difference, question or disagreement arising in connection with construction, meaning, operation, effect, interpretation or breach of the agreement, contract or the Memorandum of Understanding, penalty deduction, time extension), which the Parties are unable to settle mutually, arise inter-se the Parties, the same may, be referred by either party to Conciliation to be conducted through Independent Experts Committee to be appointed by competent authority of BHEL from the BHEL Panel of Conciliators.

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 in http://www.bhel.com/index.php/story_details?story=2454 . The Procedure together with its Formats will be treated as if the same is part and parcel hereof and shall be as effectual as if set out herein in this ITB

11. Governing Law & Jurisdiction:

This agreement shall be construed and interpreted in accordance with the laws of India and shall have exclusive jurisdiction of Sangareddy/Hyderabad courts, Telangana, India.

SIGNATURE

WITNESSES

1

Name:

Address:

2

Name:

Address:

Annexure - III

Proforma for self-certification by Supplier for minimum local content on their letter head for tender value less than Rs 10 Crore

"We _____ (Name of Manufacturer) undertake that we meet the mandatory minimum Local Content (LC) requirement i.e. _____ (to be filled as notified in the policy) for claiming Purchase Preference linked with Local Contents under the Govt. policy against tender no. _____."

Auditor's certification with respect to minimum local content on the letter head of Statutory Auditor/Cost Auditor for tender value above Rs.10 crore

"We _____ the statutory auditor/Cost Auditor of M/s _____ (name of the bidder) hereby certify that M/s _____ (name of manufacturer) meet the mandatory Local Content requirements of the Goods and/or Services i.e. _____ (to be filled as notified in the policy) quoted vide offer No. _____ dated _____ against BHEL's tender No. _____ by M/s _____ (Name of the bidder).=

Annexure - IV

Proforma for self-certification by Supplier for Compliance to Clause No 20 (B)

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and I certify that M/s.... (Name of firm) is **not from such a country/is from such a country** (delete whichever is NOT applicable) and has been duly registered with the Competent authority (delete if NOT applicable) . I hereby certify M/s fulfills all requirements in this regard and is eligible to be considered . (where applicable , valid registration by the competent authority shall be attached)

Sd/-

Authorised Signatory with Stamp

Annexure V

(On Company Letter Head)

FORM NO. 10F

[See sub-rule (1) of rule 21AB]

Information to be provided under sub-section (5) of section 90 or sub-section (5) of section 90A of the Income-tax Act, 1961

I..... son/daughter of Mr in the capacity of.....
(Designation) do provide the following information, relevant to the previous year **2021-22** in case of for the purposes of sub-section (5) of section 90/section 90A:-

Sl.No.	Nature of information	Details
(i)	Status (individual; company, firm etc.) of the assessee	Company
(ii)	Permanent Account Number (PAN) of the assessee if allotted	
(iii)	Nationality (in the case of an individual) or Country or specified territory of incorporation or registration (in the case of others)	
(iv)	Assessee's tax identification number in the country or specified territory of residence and if there is no such number, then, a unique number on the basis of which the person is identified by the Government of the country or the specified territory of which the assessee claims to be a resident	

(v)	Period for which the residential status as mentioned in the certificate referred to in sub-section (4) of section 90 or sub-section (4) of section 90A is applicable	<u>2022-23</u>
(vi)	Address of the assessee in the country or territory outside India during the period for which the certificate, mentioned in (v) above, is applicable	

I have obtained a certificate to in sub-section (4) of section 90 of sub-section (4) of section 90A from the Government of..... (name of country or specified territory outside India)

Signature:.....

Name:.....

Address:.....

Email ID:.....

Contact Number.....

Permanent Account Number:.....

Verification

I..... do hereby declare that to the best of my knowledge and belief what is stated above is correct complete and is truly stated. Verified today the..... day of.....

In case the M/s Bharat Heavy Electricals Limited, HPEP, Ramachandrapuram, Hyderabad is declared as an assessee in default due to any misstatement or incorrect declaration, we indemnify M/s Bharat Heavy Electricals Limited from any ensuing consequences thereunder.

Signature of the person providing the information

Place:.....

(On Company Letter Head)

No Business Connection or Permanent Establishment Certificate

Date

To

Bharat Heavy Electricals Limited
Ramachandrapuram, Hyderabad
India - 502032

Sir,

Sub: No Business Connection or Permanent Establishment declaration for FY **2021-22**

This is to certify that (Name of the supplier) is a company incorporated in(country) and does not have any business connection in India as per the provision of Section 9 of the Income Tax Act 1961 or any Permanent Establishment as defined in Article 5 of the India and(country) DTAA.

We hereby certify that we will notify BHEL in case of any change in the status as certified above.

For

Authorised Signatory

(Note – Please refer definition of the Business Connection on reverse and Permanent Establishment in the relevant DTAA)

"Business connection" as defined in Section 9 of the Income Tax Act shall include any business activity carried out through a person who, acting on behalf of the non-resident,—

- (a) has and habitually exercises in India, an authority to conclude contracts on behalf of the non-resident or habitually concludes contracts or habitually plays the principal role leading to conclusion of contracts by that non-resident and the contracts are—
 - (i) in the name of the non-resident; or
 - (ii) for the transfer of the ownership of, or for the granting of the right to use, property owned by that non-resident or that non-resident has the right to use; or
 - (iii) for the provision of services by the non-resident; or
- (b) has no such authority, but habitually maintains in India a stock of goods or merchandise from which he regularly delivers goods or merchandise on behalf of the non-resident; or
- (c) habitually secures orders in India, mainly or wholly for the non-resident or for that non-resident and other non-residents controlling, controlled by, or subject to the same common control, as that non-resident:

Provided that such business connection shall not include any business activity carried out through a broker, general commission agent or any other agent having an independent status, if such broker, general commission agent or any other agent having an independent status is acting in the ordinary course of his business :

Provided further that where such broker, general commission agent or any other agent works mainly or wholly on behalf of a non-resident (hereafter in this proviso referred to as the principal non-resident) or on behalf of such non-resident and other non-residents which are controlled by the principal non-resident or have a controlling interest in the principal non-resident or are subject to the same common control as the principal non-resident, he shall not be deemed to be a broker, general commission agent or an agent of an independent status

For the removal of doubts, it is hereby clarified with explanation-2A, that the significant economic presence of a non-resident in India shall constitute "business connection" in India and "significant economic presence" for this purpose, shall mean—

- (a) transaction in respect of any goods, services or property carried out by a non-resident in India including provision of download of data or software in India, if the aggregate of payments arising from such transaction or transactions during the previous year exceeds such amount as may be prescribed; or
- (b) systematic and continuous soliciting of business activities or engaging in interaction with such number of users as may be prescribed, in India through digital means:

Provided that the transactions or activities shall constitute significant economic presence in India, whether or not,—

- (i) the agreement for such transactions or activities is entered in India; or
- (ii) the non-resident has a residence or place of business in India; or
- (iii) the non-resident renders services in India:

Thresholds for the purposes of significant economic presence.

11UD. (1) For the purposes of clause (a) of Explanation 2A to clause (i) of sub-section (1) of section 9, the amount of aggregate of payments arising from transaction or transactions in respect of any goods, services or property carried out by a non-resident with any person in India, including provision of download of data or software in India during the previous year, shall be two crore rupees;

(2) For the purposes of clause (b) of Explanation 2A to clause (i) of sub-section (1) of section 9, the number of users with whom systematic and continuous business activities are solicited or who are engaged in interaction shall be three lakhs.

INTEGRITY PACT**Between**

Bharat Heavy Electricals Ltd. (BHEL), a company registered under the Companies Act 1956 and having its registered office at "BHEL House", Siri Fort, New Delhi - 110049 (India) hereinafter referred to as "The Principal", which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the ONE PART

and

_____, (description of the party along with address), hereinafter referred to as "The Bidder/ Contractor" which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the OTHER PART

Preamble

The Principal intends to award, under laid-down organizational procedures, contract(s) for _____

_____ (hereinafter referred to as "Contract"). The Principal values full compliance with all relevant laws of the land, rules and regulations, and the principles of economic use of resources, and of fairness and transparency in its relations with its Bidder(s)/ Contractor(s).

In order to achieve these goals, the Principal will appoint panel of Independent External Monitor(s) (IEMs), who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

Section 1- Commitments of the Principal

- 1.1 The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles: -
 - 1.1.1 No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
 - 1.1.2 The Principal will, during the tender process treat all Bidder(s) with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential/ additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.
 - 1.1.3 The Principal will exclude from the process all known prejudiced persons.
- 1.2 If the Principal obtains information on the conduct of any of its employees which is a penal offence under the Indian Penal Code 1860 and Prevention of Corruption Act 1988 or any other statutory penal enactment, or if there be a substantive suspicion in this regard, the Principal will inform its Vigilance Office and in addition can initiate disciplinary actions.

Section 2 - Commitments of the Bidder(s)/ Contractor(s)

- 2.1 The Bidder(s)/ Contractor(s) commit himself to take all measures necessary to prevent corruption. The Bidder(s)/ Contractor(s) commits himself to observe the following principles during participation in the tender process and during the contract execution.

BHEL-IP

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- 2.1.1 The Bidder(s)/ Contractor(s) will not, directly or through any other person or firm, offer, promise or give to the Principal or to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material, immaterial or any other benefit which he/ she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.
- 2.1.2 The Bidder(s)/ Contractor(s) will not enter with other Bidder(s) into any illegal or undisclosed agreement or understanding, whether formal or informal. 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.
- 2.1.3 The Bidder(s)/ Contractor(s) will not commit any penal offence under the relevant Indian Penal Code (IPC) and Prevention of Corruption Act; further the Bidder(s)/ Contractor(s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
- 2.1.4 Foreign Bidder(s)/ Contractor(s) shall disclose the name and address of agents and representatives in India and Indian Bidder(s)/ Contractor(s) to disclose their foreign principals or associates. The Bidder(s)/ Contractor(s) will, when presenting his bid, disclose any and all payments he has made, and is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.
- 2.2 The Bidder(s)/ Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
- 2.3 The Bidder(s)/ Contractor(s) shall not approach the Courts while representing the matters to IEMs and shall await their decision in the matter.

Section 3 - Disqualification from tender process and exclusion from future contracts

If the Bidder(s)/ Contractor(s), before award or during execution has committed a transgression through a violation of Section 2 above, or acts in any other manner such as to put his reliability or credibility in question, the Principal is entitled to disqualify the Bidder(s)/ Contractor(s) from the tender process, terminate the contract, if already awarded, exclude from future business dealings and/ or take action as per the separate "Guidelines on Banning of Business dealings with Suppliers/ Contractors", framed by the Principal.

Section 4 - Compensation for Damages

- 4.1 If the Principal has disqualified the Bidder (s) from the tender process before award / order acceptance according to Section 3, the Principal is entitled to demand and recover the damages equivalent to Earnest Money Deposit/ Bid Security.
- 4.2 If the Principal is entitled to terminate the Contract according to Section 3, or terminates the Contract in application of Section 3 above , the Bidder(s)/ Contractor (s) transgression through a violation of Section 2 above shall be construed breach of contract and the Principal shall be-entitled to demand and recover from the Contractor an amount equal to 5% of the contract value or the amount equivalent to Security Deposit/ Performance Bank Guarantee , whichever is higher, as damages, in addition to and without prejudice to its right to demand and recover compensation for any other loss or damages specified elsewhere in the contract.

Section 5 - Previous Transgression

- 5.1 The Bidder declares that no previous transgressions occurred in the last 3 (three) years (to be reckoned from date of bid submission) with any other company in any country conforming to the anti-corruption approach in India that could justify his exclusion from the tender process. The date of such transgression, for the purpose of disclosure by the bidders in this regard, would be the date on which cognizance of the said transgression was taken by the competent authority. The transgression(s), for which cognizance was taken even before the said period of three years, but are pending conclusion, shall also be reported by the bidders.
- 5.2 If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason or action can be taken as per the separate "Guidelines on Suspension of Business dealings with Suppliers/ Contractors", framed by the Principal.

Section 6 - Equal treatment of all Bidder (s)/ Contractor (s) / Sub-contractor (s)

- 6.1 The Principal will enter into Integrity Pacts with identical conditions as this Integrity Pact with all Bidders and Contractors.
- 6.2 In case of a joint venture, all the partners of the joint venture should sign the Integrity Pact. In case of Sub-contracting, the Principal Contractor shall be solely responsible for the adherence to the provisions of IP by the sub-contractor(s).
- 6.3 The Principal will disqualify from the tender process all Bidders who do not sign this Integrity Pact or violate its provisions.

Section 7 - Criminal Charges against violating Bidders/ Contractors /Subcontractors

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the Vigilance Office.

Section 8 -Independent External Monitor(s)

- 8.1 The Principal appoints competent and credible panel of Independent External Monitor (s) (IEMs) for this Integrity Pact. The task of the IEMs is to review independently and objectively, whether and to what extent the parties comply with the obligations under this Integrity Pact on receipt of any complaint by them from the bidder(s).
- 8.2 The IEMs are not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the CMD, BHEL.
- 8.3 The IEMs shall be provided access to all documents/ records pertaining to the Contract, for which a complaint or issue is raised before them as and when warranted. However, the documents/records/information having National Security implications and those documents which have been classified as /Top Secret are not to be disclosed.
- 8.4 The Principal will provide to the IEMs sufficient information about all meetings among the parties related to the Contract provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the IEMs the option to participate in such meetings.

- 8.5 The role of IEM is advisory and the advice of IEM is non-binding on the Organization. However, as IEMs are invariably persons with rich experience who have retired as senior functionaries of the government, their advice would help in proper implementation of the IP.
- 8.6 For ensuring the desired transparency and objectivity in dealing with the complaints arising out of the tendering process, the matter should be examined by the full panel of IEMs jointly, who would look into the records, conduct an examination, and submit their joint recommendations to the Management. In case the full panel is not available due to some unavoidable reasons, the available IEM(s) will conduct examination of the complaints. Consent of the IEM(s), who may not be available, shall be taken on record.
- 8.7 The IEMs shall examine all the representations/grievances/ complaints received by them from the bidders or their authorized representative related to any discrimination on account of lack of fair play in modes of procurement and bidding systems, tendering method, eligibility conditions, bid evaluation criteria, commercial terms & conditions, choice of technology/ specifications etc.
- 8.8 The CMD, BHEL shall decide the compensation to be paid to the IEMs and its terms and conditions.
- 8.9 IEMs should examine the process integrity, they are not expected to concern themselves with fixing of responsibility of officers. Complaints alleging mala fide on the part of any officer of the Principal should be looked into by the CVO of the Principal.
- 8.10 If the IEMs have reported to the CMD, BHEL, a substantiated suspicion of an offence under relevant Indian Penal Code / Prevention of Corruption Act, and the CMD, BHEL has not, within reasonable time, taken visible action to proceed against such offence or reported it to the Vigilance Office, the IEMs may also transmit this information directly to the Central Vigilance Commissioner, Government of India.
- 8.11 After award of work, the IEMs shall look into any issue relating to execution of Contract, if specifically raised before them. As an illustrative example, if a Contractor who has been awarded the Contract, during the execution of Contract, raises issue of delayed payment etc. before the IEMs, the same shall be examined by the panel of IEMs.
- 8.12 However, the IEMs may suggest systemic improvements to the management of the Principal, if considered necessary, to bring about transparency, equity and fairness in the system of procurement.
- 8.13 The word 'Monitor' would include both singular and plural.

Section 9 - Pact Duration

- 9.1 This Integrity Pact shall be operative from the date this Integrity Pact is signed by both the parties. Any violation of the same would entail disqualification of the bidders and exclusion from future business dealings.
- 9.2 If any claim is made/ lodged during currency of this Integrity Pact, the same shall be binding and continue to be valid despite the lapse of this Pact as specified above, unless it is discharged/ determined by the CMD, BHEL.

Section 10 - Other Provisions

- 10.1 This Integrity Pact is subject to Indian Laws and exclusive jurisdiction shall be of the competent Courts as indicated in the Tender or Contract, as the case may be.
- 10.2 Changes and supplements as well as termination notices need to be made in writing.

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- 10.3 If the Bidder(s)/ Contractor(s) is a partnership or a consortium or a joint venture, this Integrity Pact shall be signed by all partners of the partnership or joint venture or all consortium members.
- 10.4 Should one or several provisions of this Integrity Pact turn out to be invalid, the remainder of this Integrity Pact remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
- 10.5 Only those bidders / contractors who have entered into this Integrity Pact with the Principal would be competent to participate in the bidding. In other words, entering into this Integrity Pact would be a preliminary qualification.
- 10.6 In the event of any dispute between the Principal and Bidder(s)/ Contractor(s) relating to the Contract, in case, both the parties are agreeable, they may try to settle dispute through Mediation before the panel of IEMs in a time bound manner. If required, the Principal may adopt any mediation rules for this purpose. However, not more than five meetings shall be held for a particular dispute resolution. The fees/expenses on dispute resolution shall be equally shared by both the parties. In case, the dispute remains unresolved even after mediation by the panel of IEMs, either party may take further action as per the terms & conditions of the Contract.

For & On behalf of the Principal
(Office Seal)

Place _____

Date _____

Witness: _____
(Name & Address) _____

For & On behalf of the Bidder/ Contractor
(Office Seal)

Witness: _____
(Name & Address) _____

BANK GUARANTEE FOR PERFORMANCE SECURITY

Bank Guarantee No:

Date:

To

NAME

& ADDRESSES OF THE BENEFICIARY

Dear Sirs,

In consideration of Bharat Heavy Electricals Limited (hereinafter referred to as the 'Employer' which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns) incorporated under the Companies Act, 1956 and having its registered office at _____ through its Unit at.....(name of the Unit) having awarded to (Name of the Vendor / Contractor / Supplier) with its registered office at _____ hereinafter referred to as the 'Vendor / Contractor / Supplier', which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns), a contract Ref No.....dated valued at Rs..... (Rupees -----)/FC.....(in words.....) for (hereinafter called the 'Contract') and the Vendor / Contractor / Supplier having agreed to provide a Contract Performance Bank Guarantee, equivalent to% (.... Percent) of the said value of the Contract to the Employer for the faithful performance of the Contract,

we, (hereinafter referred to as the Bank), having registered/Head office at and inter alia a branch at being the Guarantor under this Guarantee, hereby, irrevocably and unconditionally undertake to forthwith and immediately pay to the Employer any sum or sums upto a maximum amount of Rs ----- (Rupees -----) without any demur, immediately on first demand from the Employer and without any reservation, protest, and recourse and without the Employer needing to prove or demonstrate reasons for its such demand.

Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. _____.

We undertake to pay to the Employer any money so demanded notwithstanding any dispute or disputes raised by the Vendor / Contractor / Supplier in any suit or proceeding pending before any Court or Tribunal, Arbitrator or any other authority, our liability under this present being absolute and unequivocal.

The payment so made by us under this Guarantee shall be a valid discharge of our liability for payment thereunder and the Vendor / Contractor / Supplier shall have no claim against us for making such payment.

We thebank further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Contract/satisfactory completion of the performance ~~Hyderabad~~ ee period as per the terms of the Contract and that it shall continue to be enforceable till all the dues of the Employer under or by virtue of the said Contract have been fully paid and its claims satisfied or discharged.

WeBANK further agree with the Employer that the Employer shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Contract or to extend time of performance by the said Vendor / Contractor / Supplier from time to time or to postpone for any time or from time to time any of the powers exercisable by the Employer against the said Vendor / Contractor / Supplier and to forbear or enforce any of the terms and conditions relating to the said Contract and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Vendor / Contractor / Supplier or for any forbearance, act or omission on the part of the Employer or any indulgence by the Employer to the said Vendor / Contractor / Supplier or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

The Bank also agrees that the Employer at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against the Vendor / Contractor / Supplier and notwithstanding any security or other guarantee that the Employer may have in relation to the Vendor / Contractor / Supplier 's liabilities.

This Guarantee shall remain in force upto and including..... and shall be extended from time to time for such period as may be desired by Employer.

This Guarantee shall not be determined or affected by liquidation or winding up, dissolution or change of constitution or insolvency of the Vendor / Contractor / Supplier but shall in all respects and for all purposes be binding and operative until payment of all money payable to the Employer in terms thereof.

Unless a demand or claim under this guarantee is made on us in writing on or before thewe shall be discharged from all liabilities under this guarantee thereafter.

This Bank Guarantee shall be governed, construed and interpreted in accordance with the laws of India.

Courts at ~~Hyderabad~~ shall alone have exclusive jurisdiction over any matter arising out of or in connection with this Bank Guarantee

We, BANK lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Employer in writing.

Notwithstanding anything to the contrary contained hereinabove:

- a) The liability of the Bank under this Guarantee shall not exceed.....
- b) This Guarantee shall be valid up to
- c) Unless the Bank is served a written claim or demand on or before _____ all rights under this guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities under this guarantee irrespective of whether or not the original bank guarantee is returned to the Bank.

We, _____ Bank, have power to issue this Guarantee under law and the undersigned as a duly authorized person has full powers to sign this Guarantee on behalf of the Bank.

For and on behalf of
(Name of the Bank)

Dated.....

Place of Issue.....

¹ NAME AND ADDRESS OF EMPLOYER I.e Bharat Heavy Electricals Limited

² NAME AND ADDRESS OF THE VENDOR/ CONTRACTOR/ SUPPLIER

³ DETAILS ABOUT THE NOTICE OF AWARD/ CONTRACT REFERENCE

⁴ CONTRACT VALUE

⁵ PROJECT/ SUPPLY DETAILS

⁶ BG AMOUNT IN FIGURES AND WORDS

⁷ VALIDITY DATE

⁸ DATE OF EXPIRY OF CLAIM PERIOD

Notes:

1. It is advised that expiry of claim period may be kept 3-6 months after validity date. It may be ensured that the same is in line with the agreement/ contract entered with the Vendor.
2. The BG should be on Non-Judicial Stamp paper/e-stamp paper of appropriate value as per Stamp Act prevailing in the State(s) where the BG is submitted or is to be acted upon or the rate prevailing in the State where the BG was executed, whichever is higher. The Stamp Paper/e-stamp paper shall be purchased in the name of Contractor/sub-contractor /vendor/ Bank issuing the guarantee.

3. **In Case of Bank Guarantees submitted by Foreign Vendors-**

a. From Nationalized/Public Sector / Private Sector/ Foreign Banks (BG issued by Branches in India)

can be accepted subject to the condition that the Bank Guarantee should be enforceable in the town/city or at nearest branch where the Unit is located i.e. Demand can be presented at the Branch located in the town/city or at nearest branch where the Unit is located.

b. From Foreign Banks (wherein Foreign Vendors intend to provide BG from local branch of the Vendor country's Bank)

b.1 In such cases, in the Tender Enquiry/ Contract itself, it may be clearly specified that Bank Guarantee issued by **any of the Consortium Banks only** will be accepted by BHEL. As such, Foreign Vendor needs to make necessary arrangements for issuance of Counter- Guarantee by Foreign Bank in favour of the Indian Bank's (BHEL's Consortium Bank) branch in India. It is advisable that all charges for issuance of Bank Guarantee/ counter- Guarantee should be borne by the Foreign Vendor. The tender stipulation should clearly specify these requirements.

b.2 In case, Foreign Vendors intend to provide BG from Overseas Branch of our Consortium Bank (e.g. if a BG is to be issued by SBI Frankfurt), the same is acceptable. However, the procedure at **sl.no. b.1** will required to be followed.

b.3 The BG issued may preferably be subject to Uniform Rules for Demand Guarantees (URDG) 758 (as amended from time to time). The BG Format provided to them should clearly specify the same.