


BHARAT HEAVY ELECTRICALS LIMITED

 CORPORATE RESEARCH & DEVELOPMENT DIVISION
 VIKASNAGAR, HYDERABAD - 500 093, INDIA

PHONES:23774494 (EXT:9804)

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RD:DP:MPX:F-04

ENQUIRY

Ref: 441700601

Date 01-07-2017

To

OFFICE COPY

Enquiry for Rectangular Bars of Alloy 617M

Enquiry No:441700601 Enquiry Date : 01-07-2017 Due Date: 01-08-2017 Indicative Delivery Date : 28-02-2018

Sl.No	Item Description	Unit	Qty
1	Rectangular Rolled/Forged Bars of Alloy 617M as per BHEL specification No.: CRD/Alloy 617M Stubs/2017/03, Annexure-1, Wt.: 2.5 MT +/- 5%	LOT	1

Please submit your quotation for the above material in sealed cover superscribed with enquiry no, enquiry date and due date subject to our enclosed terms and conditions. The quotations shall reach us on or before the due date by 12 noon. The tenders can also be dropped in the tender box kept at the security gate,BHEL R&D. In case you are not in position to submit the offer,please send reply suitably specifying the reasons.

Sl.No	Description	Document Ref.
01	Enquiry, General Terms & Conditions, Commercial Terms & Conditions etc.	Volume - 1
02	Technical specifications, Scope of Supply etc.	Volume - 2

Sl.No Vendor Name and code

1

 Ravi Singh
 Engineer
 r.singh@bhel.in

	ENQUIRY & QUALIFYING CRITERIA	Volume - 1 Enquiry No 441700601
Rectangular Bars of Alloy 617M		

1	Tendor inviting officer / Authority, Designation and Address	Additional General Manager(MM) BHEL R & D, Vikas Nagar (Near Balanagar), Hyderabad -500093
2	Item Description - Qty	1) Rectangular Rolled/Forged Bars of Alloy 617M as per BHEL specification No.: CRD/Alloy 617M Stubs/2017/03, Annexure-1, Wt.: 2.5 MT +/- 5% - 1 LOT
3	Enquiry Reference no.	441700601
4	Indicative Delivery Date	28-02-2018
5	Due date, Time and place for submission of tender	01-08-2017 upto 12 noon. Sealed Quotations shall be addressed to Additional General Manager(MM), BHEL R & D Division, Vikas Nagar (Near Balanagar), Hyderabad AP,India Pin - 500 093 Quotations can also be deposited in the Tender box located at Security Gate of BHEL R & D BHEL shall not be responsible for any postal/courier delay.
6	Place, Date and time of Tech.Bid opening	Tender Opening Cell (Sangam) BHEL R & D Office. 01-08-2017, 2 PM
		Please submit your offer in one common sealed cover containing two parts in separate sealed covers as detailed below. 1) First Cover shall contain: a. Signed General Terms & Conditions (GTC) b. Filled and Signed Commercial Terms & Conditions (CTC) c. Filled and Signed Vendor Specifications against BHEL Specifications (Item wise) d. Signed commercial bid e. Copy of Price-bid with price(s) cells blank (un-priced price bid)as per annexure 2) Second cover shall contain Price Bid Containing Price quotes, applicable taxes, installation and/or commissioning charges shall be spelt out clearly taking into account total charges rather than quoting vaguely such as charges per man-day or charges per engineer per day etc as per annexure.

7	Mode of Submission of Tender	If the price bid was found later to be different from the unpriced pricebid format in any way, the offer will be rejected summarily. The rates shall be quoted both in figures and in words. The offers can also be submitted through e-mail and have to be sent in PDF format (files with PDF extension only). Files having extensions other than PDF like RAR, EXE, JPEG etc. and with external links will not be considered. They have to be sent to e-mail id: 'eoffers@bhelrnd.co.in' only. Copies should not be marked to anyone. If the offers are marked to anyone other than to eoffers, their offer will not be considered. The e-mail offers should have two attachments. 1) One attachment shall contain a. Signed General Terms & Conditions (GTC) b. Filled and Signed Commercial Terms & Conditions (CTC) c. Filled and Signed Vendor Specifications against BHEL Specifications (Item wise) d. Signed commercial bid e. Copy of Price-bid with price(s) cells blank (un-priced price bid), as per annexure 2) Second attachment shall contain Price Bid Containing Price quotes, applicable taxes, installation and/or commissioning charges shall be spelt out clearly taking into account total charges rather than quoting vaguely such as charges per man-day or charges per engineer per day etc as per annexure. The subject of the e-mail should contain Enquiry No, Enquiry Date and Due date.
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	GENERAL TERMS & CONDITIONS (GTC)	Volume - 1 Enquiry No 441700601
Rectangular Bars of Alloy 617M		

SL.No.	Clause	BHEL REQUIREMENT
1	Late Tenders	Tenders received after due date/time(12:00hrs) will not be considered
2	Discrepancy in words and figures	(a) If, in the price structure quoted for the required goods/ Services/ works, there is discrepancy between the unit price and the total price (which is obtained by multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly, unless in the opinion of the purchaser there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price corrected accordingly. (b) If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and (c). If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject of (a) and (b) above. (d) If there is such discrepancy in an offer, the same shall be conveyed to the bidder with target date upto which the bidder has to send his acceptance on the above lines and if the bidder does not agree to the decision of the purchaser, the bid is liable to be ignored.
3	Two Part bid clarifications	In the case of Two-part bid, the vendor should furnish technical and commercial clarifications, if any, within stipulated time mentioned, failing which, it will be construed that the vendor is not interested in the tender and BHEL shall not consider the offer for further evaluation.
4	Price Impacts	In the event of any bidder, after finalizing the technical specifications and scope of supply, opting to revise their original bid, they have to submit the Price-Impact only. The Original price bid along with Price-Impact bid shall be opened during price bid opening. Unsolicited price impacts will not be considered.
5	Price bid evaluation	All offers in price bid opening or reverse auction shall be evaluated in Indian currency based on unit price, packing & forwarding, taxes/duties, freight charges if any, exchange rate. Loading due to non-acceptance of our standard commercial terms will be evaluated as per the LOADING FACTORS form as enclosed along with the enquiry.The exchange rate declared by

		State Bank of India under TT Selling rate on the technical bid open date shall be adopted for evaluating foreign currency bids.
6	Packing	The supplier shall be responsible for the goods being properly and adequately packed so as to prevent any loss, damage or deterioration during transit.
7	Withdrawal	In case the supplier withdraws their offer before placement of order, BHEL reserves the right not to send next enquiry(ies). In case the supplier withdraws the quotation after its acceptance by BHEL or fails to supply the goods as per the terms and conditions of contract, or at any time repudiated the contract wholly or in part, BHEL shall be at liberty to cancel the Purchase Order and to recover from the supplier the extra cost and other loss, incidentals due to the breach of contract on the part of the supplier through risk purchase.
8	Risk Purchase	In case of default/late delivery, BHEL reserves the right to make alternate arrangement for procurement at suppliers risk and cost.
9	Banned List	The offers of the bidders who are in the banned list and the offers of the bidders who engage the services of the banned firms, shall be rejected. The list of banned firms is available on BHEL website www.bhel.com . Guidelines for suspension of business dealings with suppliers/contractors are available on www.bhel.com under supplier registration page
10	Over All L1	Order will be placed on overall L1 basis. Vendors should quote for all items, otherwise the offer will be rejected.
11	Additional Information	Suppliers are requested to visit our web site regularly for any updates and additional information, "All corrigenda, addenda, amendments, time extensions clarifications, etc. to the tender will be hosted on BHEL website only". The corrigendum will not be published in news paper.
12	Arbitration	Subject to the jurisdiction of Hyderabad/Secunderabad, Andhra Pradesh, India in respect of any suit or other legal proceedings relating this contract.
13	Foreign Vendors	BHEL will deal directly with foreign vendors, where ever required, for procurement of goods. However, if the foreign principal desires to avail of services of an Indian agent, then foreign principal should ensure compliance to regulatory guidelines which require mandatory submission of agency agreement (as per *). * The Agency Agreement shall specify 1) Agency commission, 2) Responsibilities of the agent, 3) Territory, 4) Agreement Period
14	Inspection	On receipt, the goods shall be subjected to inspection and our

		decision regarding the acceptability of the goods shall be final and binding on the suppliers.
15	Fraud Prevention Policy	The Bidder along with its associate/collaborators/sub-contractors/sub-vendors/consultants/service providers shall strictly adhere to BHEL Fraud Prevention Policy displayed on BHEL website http://www.bhel.com and shall immediately bring to the notice of BHEL Management about any fraud or suspected fraud as soon as it comes to their notice.
16	Signing & Stamping	Documents of BHEL's all Terms and conditions submitted with the offer shall be signed and stamped in each page of authorized representative of the bidder

Documents submitted with the offer shall be signed and stamped in each page of authorized representative of the bidder

Read and agreed for all the above general terms and conditions

Signature of the bidder with Seal & Date

	COMMERCIAL TERMS & CONDITIONS (CTC)	Volume - 1 Enquiry No 441700601
Rectangular Bars of Alloy 617M		

SL.No.	Clause	BHEL REQUIREMENT	SUPPLIERS ACCEPTANCE / REMARKS
1	Reverse Auction	BHEL reserves the right to go for Reverse Auction (RA) (Guidelines as available on www.bhel.com) instead of opening the sealed envelope price bid, submitted by the bidder. This will be decided after techno-commercial evaluation. Bidders to give their acceptance with the offer for participation in RA. Non-acceptance to participate in RA may result in non-consideration of their bids, in case BHEL decides to go for RA. Those bidders who have given their acceptance to participate in Reverse Auction will have to necessarily submit 'Process compliance form' (to the designated service provider) as well as 'Online sealed bid' in the Reverse Auction. Non-submission of 'Process compliance form' or 'Online sealed bid' by the agreed bidder(s) will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines for suspension of business dealings with suppliers/ contractors (as available on www.bhel.com). The bidders have to necessarily submit online sealed bid less than or equal to their envelope sealed price bid already submitted to BHEL along with the offer. The envelope sealed price bid of successful L1 bidder in RA, if conducted, shall also be opened after RA and the order will be placed on lower of the two bids (RA closing price & envelope sealed price) thus	

		obtained. The bidder having submitted this offer specifically agrees to this condition and undertakes to execute the contract on thus awarded rates. If it is found that L1 bidder has quoted higher in online sealed bid in comparison to envelope sealed bid for any item(s), the bidder will be issued a warning letter to this effect. However, if the same bidder again defaults on this count in any subsequent tender in the unit, it will be considered as fraud and will invite action by BHEL as per extant guidelines for suspension of business dealings with suppliers/contractors (as available on www.bhel.com).	
2		Please submit your offer in one common sealed cover containing two parts in separate sealed covers as detailed below. 1) First Cover shall contain: - Signed General Terms & Conditions (GTC) - Filled and Signed Commercial Terms & Conditions (CTC) - Filled and Signed Vendor Specifications against BHEL Specifications (Item wise) - Signed commercial bid - Copy of Price-bid with price(s) cells blank (un-priced price bid) as per annexure 2) Second cover shall contain Price Bid Containing Price quotes, applicable taxes, installation and/or commissioning charges shall be spelt out clearly taking into account total charges rather than quoting vaguely such as charges per man-day or charges per engineer per day etc as per annexure. If the price bid was found later to be different from the unpriced pricebid format in any way, the offer will be rejected summarily. The rates shall be quoted both in figures and in	

	Two part	words. The offers can also be submitted through e-mail and have to be sent in PDF format (files with PDF extension only). Files having extensions other than PDF like RAR, EXE, JPEG etc. and with external links will not be considered. They have to be sent to e-mail id: 'eoffers@bhelrnd.co.in' only. Copies should not be marked to anyone. If the offers are marked to anyone other than to eoffers, their offer will not be considered. The e-mail offers should have two attachments. 1) One attachment shall contain a. Signed General Terms & Conditions (GTC) b. Filled and Signed Commercial Terms & Conditions (CTC) c. Filled and Signed Vendor Specifications against BHEL Specifications (Item wise) d. Signed commercial bid e. Copy of Price-bid with price(s) cells blank (un-priced price bid), as per annexure 2) Second attachment shall contain Price Bid Containing Price quotes, applicable taxes, installation and/or commissioning charges shall be spelt out clearly taking into account total charges rather than quoting vaguely such as charges per man-day or charges per engineer per day etc as per annexure. The subject of the e-mail should contain Enquiry No, Enquiry Date and Due date.	
3	Weight and Packing Dimensions.	The Supplier shall indicate the shipping weight (Kgs) and dimensions(L x W x H in cms) clearly along with offer.	
4	Validity of Offer	90 days from date of techno-commercial bid opening.	

5	Agency Agreement	Guidelines regarding dealing with Indian agents of foreign suppliers 1. BHEL shall deal directly with foreign vendors, wherever required, for procurement of goods. However, if the foreign principal desires to avail of services of an Indian agent, then the foreign principal should ensure compliance to regulatory guidelines which require mandatory submission of agency agreement. 2. It shall be incumbent on the Indian agent and the foreign principal to adhere to the relevant guidelines of government of India, issued from time to time. 3. The agency agreement should specify the precise relationship between the foreign OEM and services to be rendered by Indian agent / associate, whether general in nature or in relation to the particular contract, must clearly be stated by the foreign supplier / Indian Agent. Any payment, which the Indian agent / associate receives in India or abroad from the OEM, whether as commission or as a general retainer fee shall be brought out in record in the agreement and be made explicit in order to ensure compliance to the laws of the country. 4. Any agency commission to be paid by BHEL to the Indian agent shall be Indian currency. 5. When ever Indian agents are representing on behalf of their principals, the relevant authorization letter and agreement copy to be enclosed along with technical bid to consider the offer.	
6	Foreign Suppliers without Indian Agent	To be quoted in Foreign Currency. Purchase Order will be placed on Foreign Supplier.	
		Foreign principal should ensure compliance to regulatory guidelines which require mandatory	

7	Foreign Principal availing services of an Indian Agent	submission of Agency agreement. (as per *) To be quoted in Foreign Currency. Purchase order will be placed on Foreign Supplier. Agency Commission will be paid to Indian Agent in Indian rupees. * The Agency Agreement shall specify 1) Agency commission, 2) Responsibilities of the Agent, 3) Territory, 4) Agreement Period	
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Note : All the clauses of the above format should be filled and submitted with the Techno Commercial Bid (Part-1). The filled in BHEL Commercial terms & Conditions format submitted with technical bid, responding to all the clauses duly signed with seal **only shall be considered**. Any other Commercial terms & conditions of bidders entered else where in their offer shall not be considered and are liable for rejection.

Read and understood the above commercial terms and conditions

Signature of the bidder with Seal & Date

	OTHER TERMS & CONDITIONS	Volume - 1 Enquiry No 441700601
Rectangular Bars of Alloy 617M		

SL.No.	Clause	BHEL REQUIREMENT	SUPPLIERS ACCEPTANCE / REMARKS
1	Micro & Small Enterprises (MSEs)	MSE suppliers can avail the intended benefits only if they submit along with offer, UAN Udyog Aadhaar no. Non submission of such documents will lead to consideration of their bids at par with other bidders and MSE status of such suppliers shall be shifted to Non MSE supplier till the supplier submits these documents.	
2	Regarding concessional duties	Concessional duties/taxes, if any, available to BHEL at price bid opening shall be taken into account for evaluating landed cost calculation. Hence suppliers are requested to submit their bids clearly stating applicable taxes/duties. However, all suppliers have to accept Concessional duties in case if the same is available to BHEL at dispatch.	
3	Payment terms	The payment shall be released in two tranches/Stage. A).Stage-I Paymnet:80% +100 % Taxes of PO value less lower weight amount,if any, against dispatch document and test reports cleared by BHEL Engineers before dispatch . B).Stage-II Payment :20% of invoice value and additional weight amount if any, limiting to -/+ 5 % for the block, after receipt and acceptance of the materials at FOR-BHEL HEEP,RANIPUR, HARIDWAR, UTTARAKHAND 249403 Stores by EFT/RTGS/Wire transfer.	

		Note: Strict adherence to new provisions by vendor like timely submission of invoices, tax payment, filing of returns – GSTR-1 etc. will form base of new regime for release for payment from BHEL. Hence, any financial loss occurred due to non-compliance of the GST provisions would be endured at defaulter's end.	
4	Penalty for Delay in supply for Stage-I & II	1 For the purpose of penalty for delay in Stage-II of the materials acceptance. 2 Penalty on delay in 'Supply' of Stage-I and/or 'Stage II materials' will be applicable to the delays attributed to vendor . Penalty will be considered separately for 'Supply' of Stage-I and/or 'Stage II materials'. The rate of penalty for delayed Supply shall be @ 0.5% per week of delay of total PO value(Stage-I and Stage-II materials'. in supply subject to a maximum of 10% of total PO value (Supply of Stage-I & II Materials acceptance). The rate penalty for delayed Stage-II MATERILAS shall be @0.5% per week of delay of total PO Value (Stage-I + Stage II materials') in stage-ii subject to a maximum of 10% of total PO value (Stage-I + Stage II materials') Maximum penalty for delay in Supply and E&C together shall be limited to 15% of total PO value (Stage-I + Stage II materials'). In case PO includes more than one machine, the penalty shall be limited to 0.5% per week of delay on total PO Value(Stage-I + Stage II materials') for the delayed machine. 3 Loading on account of nonacceptance of Penalty for delayed Stage-I and/or 'Stage II materials' shall be as under: In case any bidder is not accepting the above penalty for delayed Stage-I and/or 'Stage II	

		materials' , the offer of bidder shall be loaded to the extent to which it is not agreed by the bidder. 4 Incase, any shortage is noticed viz-a-viz PO requirement	
5	Details required	IT Permanent Account No. (PAN): GSTIN Registration Status: Tax type:- CGST/SGST/IGST/UGST GSTIN No: GSTIN No. Issuance Date : Provisional/ Final Registration : Name of the Contact Person : Contact Phone / Mobile : Email id for correspondence : Address with PIN code and State:	
6	Force Majeure clause	If at any time during the continuance of the contract the performance in whole or in part by either party of any obligations under the contract is prevented or delayed by reason, of any war, hostilities, acts of the public enemy, civil commotion, sabotage, fires, explosions, epidemics, quarantine, restrictions or acts of GOD (hereinafter referred to as events) and notice of happening of any such events is given by either party to other within twenty one days from the date of occurrence thereof then neither party shall by reason of such events be entitled to terminate the contract. If the performance in whole or part of any obligation under this contract is prevented or delayed by reason of occurrence of such events, then claims for extension of time shall be granted for period considered reasonable by the purchaser subject to prompt notification by the seller to the purchaser the particulars of the events, if required with supporting evidence. Any waiver of time in respect of partial instalment shall not be deemed to be a waiver of time in respect of remaining deliveries	

7	PART SHIPMENT:	NOT ALLOWED	
8	PART SHIPMENT / TRANSHIPMENT:	NOT ALLOWED	
9	Import License:	These items are being imported without any license under "Foreign Trade Policy 2015-2020", Export-Import Policy of India, General Provisions regarding Imports and Exports	
10	Note	Bids to be submitted in Formats as per annexures II, III, IV and V	

Signature of the bidder with Seal & Date

	ITEM SPECIFICATIONS	Volume - 2 Enquiry NO 441700601
Rectangular Bars of Alloy 617M		

SL.No.	Item			
1	Rectangular Rolled/Forged Bars of Alloy 617M as per BHEL specification No.: CRD/Alloy 617M Stubs/2017/03, Annexure-1, Wt.: 2.5 MT +/- 5%			
	sl no	Descriptions	BHEL Specifications	Vendor Specifications/ Deviations
	1	Supply	Supply of rectangular bars as per BHEL Specification No.:CRD/Alloy617M stubs/2017/03	
	2	Condition of Delivery	As per sl. No.04 of BHEL Specification No.:CRD/Alloy617M stubs/2017/03	
	3	Chemical Composition	As per sl. No.7.1 of BHEL Specification No.:CRD/Alloy617M stubs/2017/03	
	4	Dimension and Tolerances	As per sl. No.5.0 of BHEL Specification No.:CRD/Alloy617M stubs/2017/03	
	5	Melting Process	As per sl. No.6.2 of BHEL Specification No.:CRD/Alloy617M stubs/2017/03	
	6	Process of Manufacturing	ROLLING / FORGING As per Sl. No. 6.3 of BHEL Specification No.: CRD/Alloy 617M stubs/2017/03	
	7	Heat Treatment	As per sl. No.6.4 of BHEL Specification No.:CRD/Alloy617M stubs/2017/03	
	8		As per sl. No.7.2 of BHEL Specification	

		Mechanical Properties	No.:CRD/Alloy617M stubs/2017/03	
	9	Non-Destructive Examination(s)	As per sl. No.7.4 of BHEL Specification No.:CRD/Alloy617M stubs/2017/03	
	10	Documents	As per sl. No.9 of BHEL Specification No.:CRD/Alloy617M stubs/2017/03	
	11	Witnessing the Forging Process	BHEL Engineer shall witness the rolling/forging process and NDE testing, if required. Vendor/Supplier should intimate at least 45 days prior to the proposed date. Travelling, Lodging and boarding of the BHEL engineer will be to BHEL's account.	
	12	Delivery Period	As per sl. No.14 of BHEL Specification No.:CRD/Alloy617M stubs/2017/03	
G	General Specifications			
	sl no	Descriptions	BHEL Specifications	Vendor Specifications/ Deviations
	1	Pre-Qualification Criteria (PQC)	As per sl. No. 6.1.1 of BHEL Specification No.:CRD/Alloy617MStubs/2017/03	

* Vendors are advised to write specifications in detail and not to write like 'Complied/ Yes / No ' etc. in specifications.

Signature of the bidder with Seal & Date

LOADING FACTORS



NOTE : IN CASE OF DEVIATION TO BHEL TENDER SPECIFIED TERMS, LOADING FACTOR INDICATED IN FOLLOWING TABLE WILL BE APPLIED TO QUOTED PRICE WHILE EVALUATING THE LOWEST QUOTE

A. FOR INDIGENOUS PURCHASES					
SLNO	SCOPE	COMMERCIAL TERMS	BHEL STANDARD TERM	AS OFFERED	LOADING FACTOR FOR NON COMPLIANCE TO BHEL STANDARD TERMS
A.1	SUPPLY OF EQUIPMENT	PAYMENT TERMS	100% PAYMENT, WITH IN 30 DAYS FROM THE DATE OF RECEIPT AND ACCEPTANCE OF MATERIAL AT BHEL R & D	SAME	NIL
				PAYMENT AGAINST PROFORMA INVOICE / DESPATCH DOCUMENTS	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON THE TOTAL PO VALUE FOR ONE MONTH
				FULL ADVANCE PAYMENT WITH BANK GUARANTEE	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON THE TOTAL PO VALUE FOR THE DELIVERY PERIOD (Rounded off to nearest month) + 1 MONTH
				PART ADVANCE (X%) PAYMENT WITH BANK GUARANTEE AND BALANCE PAYMENT WITH IN 30 DAYS FROM THE DATE OF RECEIPT AND ACCEPTANCE OF THE MATERIAL	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON PART ADVANCE AMOUNT (X%) FOR THE DELIVERY PERIOD (Rounded off to nearest month) + 1 MONTH
				PART ADVANCE (X%) PAYMENT WITH BANK GUARANTEE AND BALANCE PAYMENT ON RECEIPT AND ACCEPTANCE OF MATERIAL	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON PART ADVANCE AMOUNT (X%) FOR THE DELIVERY PERIOD (Rounded off to nearest month) + 1 MONTH AND LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON BALANCE AMOUNT FOR ONE MONTH
A.2	SUPPLY OF EQUIPMENT INCLUDING ERECTION AND COMMISSIONING (E&C)	PAYMENT TERMS	90% PAYMENT, WITH IN 30 DAYS FROM THE DATE OF RECEIPT AND ACCEPTANCE OF MATERIAL AND BALANCE 10% WITH IN 30 DAYS OF COMPLETION OF E&C.	SAME	NIL
				100% PAYMENT WITH IN 30 DAYS AFTER COMPLETION OF SUPPLIES AND E&C	NIL
				90% PAYMENT AGAINST PROFORMA INVOICE/ DESPATCH DOCUMENT AND BALANCE 10% WITH IN 30 DAYS AFTER COMPLETION OF E&C.	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON 90% OF THE VALUE OF PO FOR ONE MONTH
				90% PAYMENT AGAINST PROFORMA / DESPATCH DOCUMENT AND BALANCE 10% AFTER COMPLETION OF E&C	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON TOTAL VALUE OF THE PO FOR ONE MONTH
				90% ADVANCE PAYMENT WITH BANK GUARANTEE AND BALANCE 10% PAYMENT WITH IN 30 DAYS AFTER COMPLETION OF E&C	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON 90% OF THE PO VALUE FOR DELIVERY PERIOD (ROUNDED OFF TO THE NEAREST MONTH) + 1 MONTH
				PART ADVANCE (X%) PAYMENT WITH BANK GUARANTEE AND (90 -X) % PAYMENT ON RECEIPT AND ACCEPTANCE OF THE MATERIAL AND 10% PAYMENT WITH IN 30 DAYS AFTER COMPLETION OF E&C	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON THE PART ADVANCE AMOUNT (X%) FOR THE DELIVERY PERIOD (ROUNDED OFF TO THE NEAREST MONTH)+ 1 MONTH AND LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON BALANCE (90-X)% AMOUNT FOR ONE MONTH
				PART ADVANCE (X%) PAYMENT WITH BANK GUARANTEE AND BALANCE (90 - X) % PAYMENT AFTER RECEIPT AND ACCEPTANCE OF THE MATERIAL AND 10% PAYMENT AFTER COMPLETION OF E&C	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON THE PART ADVANCE AMOUNT (X%) FOR THE DELIVERY PERIOD (ROUNDED OFF TO THE NEAREST MONTH)+ 1 MONTH AND LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON BALANCE AMOUNT (100-X)% FOR ONE MONTH

B. FOR FOREIGN PURCHASES (IMPORTED)					
SLNO	SCOPE	COMMERCIAL TERMS	BHEL STANDARD TERM	AS OFFERED	LOADING FACTOR FOR NON COMPLIANCE TO BHEL STANDARD TERMS
B.1	SUPPLY OF EQUIPMENT	PAYMENT TERMS	100% PAYMENT BY WIRE TRANSFER WITHIN 30 DAYS FROM THE DATE OF RECEIPT AND ACCEPTANCE OF MATERIAL AT BHEL R&D. (DESPATCH DOCUMENTS WILL BE SENT TO BHEL R&D DIRECTLY ALONG WITH BANK DETAILS)	SAME	NIL
				SIGHT DRAFT ON PRESENTATION OF DESPATCH DOCUMENTS VIZ INVOICE, AWB ETC TO OUR BANKERS	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+6%) ON THE BASIC VALUE FOR ONE MONTH PLUS PAYMENT RELATED BANK CHARGES INCURRED BY BHEL
				LC PAYMENT AGAINST DESPATCH DOCUMENTS	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+6%) ON THE BASIC VALUE FOR ONE MONTH PLUS LC RELATED BANK CHARGES INCURRED BY BHEL
				FULL ADVANCE PAYMENT BY WIRE TRANSFER /LC WITH BANK GUARANTEE	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+6%) ON THE BASIC VALUE FOR DELIVERY PERIOD (Rounded off to nearest month) + 1 MONTH PLUS LC RELATED BANK CHARGES INCURRED BY BHEL
				PART ADVANCE (X%) PAYMENT BY WIRE TRNSFER/LC WITH BANK GUARANTEE AND BALANCE PAYMENT WITH IN 30 DAYS FROM THE DATE OF RECEIPT AND ACCEPTANCE OF THE MATERIAL	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+6%) ON THE PART ADVANCE AMOUNT (X%) FOR THE DELIVERY PERIOD (Rounded off to nearest month) + 1 MONTH PLUS LC RELATED BANK CHARGES INCURRED BY BHEL
				PART ADVANCE (X%) PAYMENT BY WIRE TRNSFER/LC WITH BANK GUARANTEE AND BALANCE PAYMENT ON RECEIPT AND ACCEPTANCE OF MATERIAL	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+6%) ON THE PART ADVANCE AMOUNT (X%) FOR THE DELIVERY PERIOD (Rounded off to nearest month) + 1 MONTH AND LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON BALANCE AMOUNT FOR ONE MONTH PLUS LC RELATED BANK CHARGES INCURRED BY BHEL
B. FOR FOREIGN PURCHASES (IMPORTED)					
SLNO	SCOPE	COMMERCIAL TERMS	BHEL STANDARD TERM	AS OFFERED	LOADING FACTOR FOR NON COMPLIANCE TO BHEL STANDARD TERMS
B.2	SUPPLY OF EQUIPMENT INCLUDING ERECTION AND COMMISSIONING (E&C)	PAYMENT TERMS	90% PAYMENT BY WIRE TRANSFER WITH IN 30 DAYS FROM THE DATE OF RECEIPT AND ACCEPTANCE OF THE MATERIAL AND BALANCE 10% WITH IN 30 DAYS AFTER COMPLETION OF E&C	SAME	NIL
				SIGHT DRAFT ON RESENTATION OF DESPATCH DOCUMENTS VIZ INVOICE, AWB ETC TO OUR BANKERS	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+6%) FOR ONE MONTH PLUS PAYMENT RELATED BANK CHARGES INCURRED BY BHEL
				90 PAYMENT BY WIRE TRANSFER /LC AGAINST DESPATCH DOCUMENTS BALANCE 10% WITH IN 30 DAYS AFTER COMPLETION OF E&C	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+6%) ON 90% OF BASIC VALUE FOR ONE MONTH PLUS LC RELATED BANK CHARGES INCURRED BY BHEL
				90% PAYMENT BY WIRE TRANSFER /LC AGAINST DESPATCH DOCUMENTS. BALANCE 10% AFTER COMPLETION OF E&C	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+6%) ON THE BASIC VALUE FOR ONE MONTH PLUS LC RELATED BANK CHARGES INCURRED BY BHEL
				90% OF BASIC VALUE AS ADVANCE PAYMENT BY WIRE TRANSFER /LC WITH BANK GUARANTEE AND BALANCE 10% WITH IN 30 DAYS AFTER COMPLETION OF E&C	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+6%) ON 90% OF THE BASIC VALUE FOR DELIVERY PERIOD (Rounded off to nearest month) + ONE MONTH PLUS LC RELATED BANK CHARGES INCURRED BY BHEL
				PART ADVANCE (X%) PAYMENT BY WIRE TRANSFER /LC WITH BANK GUARANTEE AND BALANCE (90-X)% PAYMENT BY WIRE TRANSFER /LC AFTER RECEIPT AND ACCEPTANCE OF THE MATERIAL AND 10% PAYMENT WITH IN 30 DAYS AFTER COMPLETION OF E&C	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+6%) ON THE PART ADVANCE AMOUNT (X%) FOR THE DELIVERY PERIOD(Rounded off to the nearest month) + ONE MONTH AND LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON BALANCE (90-X)% FOR ONE MONTH
				PART ADVANCE (X%) PAYMENT BY WIRE TRANSFER /LC WITH BANK GUARANTEE AND BALANCE (90-X)% PAYMENT BY WIRE TRANSFER /LC AFTER RECEIPT AND ACCEPTANCE OF THE MATERIAL AND 10% PAYMENT AFTER COMPLETION OF E&C	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+6%) ON THE PART ADVANCE AMOUNT (X%) FOR THE DELIVERY PERIOD(Rounded off to the nearest month) + ONE MONTH AND LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON BALANCE AMOUNT (100-X)% FOR ONE MONTH
C. PENALTY FOR DELAYED DELIVERY (COMMON FOR INDIGENOUS AND IMPORTS)					
SLNO	COMMERCIAL TERMS		BHEL STANDARD TERM	AS OFFERED	LOADING FACTOR FOR NON COMPLIANCE TO BHEL STANDARD TERMS
C	LD CLAUSE		IN THE EVENT OF DELAY IN AGREED CONTRACTUAL DELIVERY, PENALTY OF 0.5% (HALF PERCENT) PER WEEK BUT LIMITED TO A MAX OF 10% OF TOTAL ORDER VALUE WILL BE APPLICABLE	AGREED	NIL
				IF NOT AGREED	LOADING @ 10% OF THE BASIC MATERIAL COST
				IF AGREED FOR X%	LOADING @ (10-X)% OF THE BASIC MATERIAL COST
D. GUARANTEE/WARRANTY PERIOD (COMMON FOR INDIGENOUS AND IMPORTS)					
SLNO	COMMERCIAL TERMS		BHEL STANDARD TERM	AS OFFERED	LOADING FACTOR FOR NON COMPLIANCE TO BHEL STANDARD TERMS
D	GUARANTEE/WARRANTY PERIOD		STIPULATED OR REQUIRED GUARANTEE/ WARRANTY PERIOD(X)	AGREED	NIL
			MINIMUM ACCEPTABLE GUARANTEE / WARRANTY PERIOD(Y)	NOT AGREED FOR STIPULATED BUT AGREED FOR MINIMUM GUARANTEE/WARRANTY(Y)	LOADING @ 10 % OF THE ORDER VALUE PER ANNUM FOR THE REDUCED GUARANTEE PERIOD (X-Y)

BHEL R&D**Terms & Conditions of Reverse Auction**

Against this enquiry for the subject item/ system with detailed scope of supply as per enquiry specifications, BHEL may resort to “REVERSE AUCTION PROCEDURE” i.e., ON LINE BIDDING (THROUGH A SERVICE PROVIDER). The philosophy followed for reverse auction shall be English Reverse (No ties).

1. For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate.
2. Those bidders who have given their acceptance for Reverse Auction (quoted against this tender enquiry) will have to necessarily submit online sealed bid in the Reverse Auction. Non-submission of online sealed bid by the bidder for any of the eligible items for which techno-commercially qualified, will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines in vogue.
3. BHEL will engage the services of a service provider who will provide all necessary training and assistance before commencement of on line bidding on internet.
4. In case of reverse auction, BHEL will inform the bidders the details of Service Provider to enable them to contact & get trained.
5. Business rules like event date, time, bid decrement, extension etc. also will be communicated through service provider for compliance.
6. Bidders have to fax the Compliance form (annexure IV) before start of Reverse auction. Without this, the bidder will not be eligible to participate in the event.
7. In line with the NIT terms, BHEL will provide the calculation sheet (e.g. EXCEL sheet) which will help to arrive at “Total Cost to BHEL” like Packing & forwarding charges, Taxes and Duties, Freight charges, Insurance, Service Tax for Services and loading factors (for non-compliance to BHEL standard Commercial terms & conditions) for each of the bidder to enable them to fill-in the price and keep it ready for keying in during the Auction.
8. Reverse auction will be conducted on scheduled date & time.
9. At the end of Reverse Auction event, the lowest bidder value will be known on auction portal.
10. The lowest bidder has to fax/e-mail the duly signed and filled-in prescribed format for price breakup including that of line items, if required, (Annexure VII) as provided on case-to-case basis to Service provider within two working days of Auction without fail.
11. In case BHEL decides not to go for Reverse Auction procedure for this tender enquiry, the Price bids and price impacts, if any, already submitted and available with BHEL shall be opened as per BHEL standard practice.
12. Bidders shall be required to read the “Terms and Conditions” section of the auctions site of Service provider, using the Login IDs and passwords given to them by the service provider before reverse auction event. Bidders should acquaint themselves of the „Business Rules of Reverse Auction?, which will be communicated before the Reverse Auction.
13. If the Bidder or any of his representatives are found to be involved in Price manipulation/ cartel formation of any kind, directly or indirectly by communicating with other bidders, action as per extant BHEL guidelines, shall be initiated by BHEL and the results of the RA scrapped/ aborted.
14. The Bidder shall not divulge either his Bids or any other exclusive details of BHEL to any other party.
15. In case BHEL decides to go for reverse auction, the H1 bidder (whose quote is highest in online sealed bid) may not be allowed to participate in further RA process.

AUTHORISATION LETTER FOR E-PAYMENT/ NEFT / RTGS

(PLEASE FILL UP THE FORM COMPLETELY IN CAPITAL LETTERS ON YOUR COMPANY LETTERHEAD ONLY)

Vendor Code (to be filled by BHEL)	
------------------------------------	--

Type of Request (Tick one)	NEW	CHANGE
1 Company Name		
2 Address		
3 City with PIN Code		
4 State		
5 PAN Number		
6 TIN/ VAT No.		
7 CST No.		
8 Service Tax No.		
9 Name of Contact Person		
10 Mobile number		
11 Ph. no. with STD Code		
12 Fax No. with STD Code		
13 Email ID		
14 Website (URL)		

BANK DETAILS FOR EFT / RTGS

1	Bank Name	
2	Branch	
3	Branch Code	
4	Branch Address	
5	Branch Phone No	
6	Account No.	
7	Account Type: SB/ Current/ other (Specify)	
8	MICR Code	
9	IFSC Code	

I, as an authorized representative / owner of the above named company, hereby state as under:

1. Enclosed here with a cancelled cheque in support of our company's bank details.
2. Authorize BHEL R&D Hyderabad, to electronically make payments to the designated bank account with bank charges, if any, to our account.
3. If the transaction is delayed or not effected at all for reasons of incomplete or incorrect information, I would not hold BHEL / transferring Bank responsible.
4. I hereby certify that the particulars given above are true, complete and correct.
5. This authority remains in full force until BHEL receives and acknowledge written notification requesting change or cancellation.

Date :
Company
Seal

Authorised Signatory
Designation :



RD:MPX:F-13

Bharat Heavy Electricals Limited

Corp. R&D DIVISION

VIKAS NAGAR,

HYDERABAD- 500 093 (INDIA)

VENDOR REGISTRATION FORM

(Indigenous supplier)

[FORM TO BE SUBMITTED* BY THE BIDDER ALONG WITH TECHNICAL-BID]

Before filling, please refer to instructions on page-4

1.0 VENDOR PROFILE:

1.1 Name and address of the vendor:

Phone Nos.:Fax No.:Email: 1.

2.

1.2 Local representative name & address in Hyderabad/Secundrabad :

Phone Nos.:Fax No.:Email:Contact Person:Mobile No:

2.0 TYPE OF ORGANISATION:

PROPRIETORSHIP	Company:	Sister Concern (mention vendor registration number of main organization)	
Partnership	CORPORATION	Small Scale Industry	ANY OTHER (Please specify)

In case of SSI unit, copy of registration to be enclosed. It is requested that MSME registration certificate to be enclosed and tick the following:

Type of Major Activity: Manufacturing / Service

Category of Enterprise: Micro / Small / Medium

Social Category : GENERAL / SC / ST / OBC

Udyog Adhaar Number (UAN): _____

3.0 ANNUAL TURN OVER:

#	Year	Turn-Over, Rs.
1	Current Year(budgeted)	
2	Previous year (200 - 0)	
3	Prior Year (200 - 0)	

4.0 NAME AND ADDRESS OF THE BANKER:

4.1 Bank Name

4.2 Branch name

4.3 Account number

4.4 Account Type

4.5 MICR Code:

4.6 IFSC Code(RTGS/NEFT):

4.7 Bank Phone number(s),

Blank cheque, duly cancelled, to be enclosed.

Please note that all payments shall be made through Electronic clearance services to your above account against the orders executed, if any.

5.0 REGISTRATION PARTICULARS(relevant copies to be enclosed)

5.1 IT Permanent Account No.(PAN):

5.2 State Sales Tax/VAT Registration No:

5.3 Central Sales Tax Registration No:

5.4 ED Registration No:

5.5 Service Tax Registration No:

5.6 PF Account No:

5.7 Labour Licence No:

5.8 ESI Account No:

6.0 CONTACT PERSON: S/Sri:

Designation:

Phone / Mobile No:

7.0 TOTAL NUMBER OF EMPLOYEES:

Graduates (Engr/Scientists/Mgmt/Fin.)	Consultants	Workers		
		Sup./Skilled	Semiskilled	Unskilled

8.0 LIST OF PRODUCTS/ SERVICES OFFERED:

#	Products/ Services	Capacity
1		
2		
3		
4		
5		

9.0 REFERENCE LIST :

(Only recognized public and private sector companies, attach if printed copy available)

#	Customer	Volume / Year
1		
2		
3		
4		
5		

10.0 INFRASTRUCTURE / FACILITIES:

#	Facility (with specifications)	Age/ Year procured
1		
2		
3		
4		
5		

11.0 REGISTRATION WITH OTHER BHEL UNIT/UNITS:

#	Unit	Registration No	Year
1			
2			
3			
4			

12.0 ANY OTHER INFORMATION :

DECLARATION:

The information furnished above is true and authentic.

(CEO / PROPRIETOR)

SEAL:

DATE:

Note:

1. Registered bidders, having BHEL (R&D) registration no. or have submitted this format for registration, need not furnish this information again.
2. The competent authority reserves the right to accept or reject the registration.
3. Vendors approved for registration will be informed by mail / email, as convenient. A separate communication will be sent in case of non-registration also, citing reasons thereof.
4. BHEL reserves the right to take penal action as deemed fit if any of the information provided by the vendor(s) is found to be incorrect.
5. AGM, Head (MM) may be contacted for clarification/additional information on registration.

Instructions

1. Fill all items. Please mention "N.A." for items/ clauses not applicable.
2. Use A4 sheets for this document and the enclosures. Use of additional sheets is permitted if space provided is not adequate.
3. Attach copies of latest documents in respect of items 5.0 (Registration no.s)
4. Photographs of registered office and the chief executive/proprietor shall be furnished.



RD:MPX:F-14

Bharat Heavy Electricals Limited

Corp. R&D DIVISION

VIKAS NAGAR,

HYDERABAD- 500 093 (INDIA)

SUPPLIER REGISTRATION FORM

(FOREIGN SUPPLIER)

ALL COLUMNS SHOULD BE PROPERLY FILLED IN THE SPACE PROVIDED FOR. WHEREVER IT IS NOT APPLICABLE PLEASE WRITE "NOT APPLICABLE". INCOMPLETE OR INCORRECT FORMS MAY NOT BE CONSIDERED.

1.0 GENERAL INFORMATION:

1.1 NAME OF COMPANY

1.2 DETAILS OF HEAD OFFICE:

ADDRESS :
TELEPHONE :
FAX :
EMAIL :
WEB SITE :

1.3 DETAILS OF FACTORY/WORKS:

ADDRESS :
TELEPHONE :
FAX :
EMAIL :
WEB SITE :

1.4 DETAILS OF MARKETING AGENT

ADDRESS :
TELEPHONE :
FAX :
EMAIL :
WEB SITE :

1.5 CHIEF EXECUTIVE

1.6 CONTACT PERSON(S)
FOR PRODUCT OFFERED

NAME(S) :
OFFICIAL
CAPACITY :
ADDRESS :
TELEPHONE :
FAX :
EMAIL :

1.7 YEAR OF ESTABLISHMENT

1.8 PRODUCTION CAPACITY PER ANNUM

1.9 PARTICULARS OF PRODUCT INCLUDING
SPECIFICATION AND RANGE OFFERED
FOR REGISTRTION
(Attach brouchers and catalogues)

1.10 NAME(S) OF BANKERS

1.11 BANKER'S CERTIFICATE

1.12 PORT OF LOADING

1.13 NEAREST AIRPORT

1.14 NAME OF THE INDIAN AGENT, IF ANY
WITH AUTHORIZATION LETTER

2.0 FINANCIAL INFORMATION:

2.1 TOTAL CAPACITY

2.2 ANNUAL TURN OVER FOR LAST 3 YEARS

2.3 WHEHER CREDIT LICENSE ACCEPTABLE YES/NO

3.0 QUALITY MANAGEMENT SYSTEMS
ENCLOSED FORMAT PART-B

**3.1 EXPERIENCE LIST FOR SAME/ SIMILAR ITEMS
TO BE ENCLOSED**

4.0 FUTURE EXPANSION PLANS:

(Give details)

5.0 LIST OF ENCLOSURES:

(Including brochures, catalogues, technical literature etc)

6.0 ANY OTHER INFORMATION:

SIGNATURE OF SUPPLIER (Authorized signatory)

NAME :

DESIGNATION :

DATE :

OFFICIAL SEAL

Note:

1. BHEL Reserves the right to take penal action as deemed fit if any of the information provided by the vendor is found to be incorrect.
2. Please attach separate sheets, if space found is inadequate



Bharat Heavy Electricals Limited

Corp. R&D DIVISION

VIKAS NAGAR,

HYDERABAD- 500 093 (INDIA)

RD:MPX:F-13

Ph: 040 – 23772704, Fax: 040 – 23770698, email: mpx@bhelrnd.co.in

GUIDE LINES REGARDING DEALINGS WITH INDIAN AGENTS OF FOREIGN SUPPLIERS

- i. BHEL shall deal directly with foreign vendors, wherever required, for procurement of goods. However, if the foreign principal desires to avail of the services of an indian agent, then the foreign principal should ensure compliance to regulatory guidelines - which require mandatory submission of an Agency Agreement.
- ii. It shall be incumbent on the Indian agent and the foreign principal to adhere to the relevant guidelines of Government of India, issued from time to time.
- iii. The Agency Agreement should specify the precise relationship between the foreign OEM / foreign principal and their Indian agent and their mutual interest in the business. All services to be rendered by agent/ associate, whether of general nature or in relation to the particular contract, must be clearly stated by the foreign supplier/ Indian agent. Any payment, which the agent or associate receives in India or abroad from the OEM, whether as commission or as a general retainer fee should be brought on record in the Agreement and be made explicit in order to ensure compliance to laws of the country.
- iv. Any agency commission to be paid by BHEL to the Indian agent shall be in indian currency only.
- v. Whenever Indian agents are representing on behalf of their principals the relevent authorisation letter and agreement copy to be enclosed along with Technical bid to consider the offer.



SPECIFICATION FOR RECTANGULAR BARS OF ALLOY 617M

1.0 GENERAL

This specification governs the quality of rolled/forged flat bars of grade Alloy 617M

2.0 APPLICATION

For milled blades of steam turbine.

3.0 COMPLIANCE WITH NATIONAL/INTERNATIONAL STANDARDS

Based on VDTUV Data Sheet 485, ASME SB-564 (non-destructive examinations).

4.0 CONDITION OF DELIVERY

A) Bars shall be supplied in Hot rolled or Forged and milled, solution annealed condition. The bars should be straight and free from waviness.

B) Entire weight shall be dispatched in a single lot.

5.0 DIMENSION AND TOLERANCES

Bars shall be supplied to the dimensions and tolerances as per Annexure-1.,

Approximate weight 2.5 MT $\pm$ 5%

6.0 MANUFACTURING

6.1 GENERAL REQUIREMENTS

6.1.1 PREQUALIFICATION CRITERIA (PQC)

A) Vendor on whom PO will be placed must be the Original Manufacturer (OM) and supplier of this rectangular rolled/forged bars. Country of OM must also be the country of origin. Country of origin certificate issued by the chamber of commerce to be submitted as a proof of compliance.

B) List of Customers (at least 5) where nickel base super alloy or other super alloy (cumulative weight approximately 100 kg) has been supplied by the manufacturer/vendor in the last 5 years from the date of techno-commercial bid opening.

C) Customer list should be provided with contact details, e-mail and phone number, organization, etc.

D) BHEL will carry out independent verification on the supply of material to other listed customers. Hence, prospective bidders are required to give only reference of those customers who are willing to confirm independent verification and not refrain from the same on the grounds of confidentiality.

E) Before starting the production the manufacturer shall submit a flow chart of the Manufacturing and Inspection Sequence (MIS) of forging for BHEL review.

6.2 MELTING PROCESS

Alloy 617M shall be produced by using Vacuum Induction Melting (VIM) followed by Vacuum Arc Remelting (VAR) or Electro Slag Refining (ESR). Any other suitable melting and remelting processes shall be used only after approval from BHEL

**6.3 MANUFACTURING PROCESS ROLLING/FORGING**

Sufficient discard shall be made from each ingot to ensure freedom from piping, injurious segregation and other imperfections. The manufacturing process must ensure a homogenous grain structure over the entire length of the bar and the bar cross section

6.4 HEAT TREATMENT

The material shall be supplied in solution annealed condition with minimum heat treatment temperature of 1165°C. The heat treatment temperature and time shall be recorded and the records shall be made available to BHEL. Heat treatment in bundles is not allowed. Suitable gaps between two bars are to be ensured during heat treatment for uniformity of properties.

7 PROPERTIES AND TESTS**7.1 CHEMICAL COMPOSITION: Heat Analysis in weight%**

The material shall conform to the chemical composition (in weight %) limits specified in Table-1. The chemical analysis shall be carried out as per ASTM E-350 or equivalent method.

Table -1: Chemical composition (in weight %) of Alloy 617M														
Element	Cr	Fe	Mn	Mo	Co	Al	C	Cu	B	Si	S	N	Ti	Ni
Wt. %	21.0- 23.0	1.5 max	0.3 max	8.0- 10.0	11.0- 13.0	0.8- 1.3	0.05- 0.08	0.05 max	0.003- 0.005	0.3 max	0.008 max	0.05 max	0.3- 0.5	Bal.

7.2 MECHANICAL PROPERTIES

The manufacturer shall test specimens taken from the bar in the longitudinal direction, after heat treatment. The location of tensile specimens shall be indicated in the MIP.

The following properties shall be achieved at room temperature:

0.2% Proof strength : $\geq 300 \text{ N/mm}^2$

Tensile strength : $\geq 700 \text{ N/mm}^2$

% Elongation ($L = 5.65\sqrt{A}$) : $\geq 35\%$

% Reduction in Area : for information purpose.

Impact (at 20°C) Charpy V Notch : $\geq 120\text{J}$ (average of 3 values with lowest value shall be $\geq 90\text{J}$)

7.3 GRAIN SIZE

Grain size distribution in the bar shall be within the ASTM grain size nos. 2-5.

7.4 NON DESTRUCTIVE EXAMINATIONS**7.4.1 Surface examination – Surface defects**

The surface condition shall meet the requirements of various non-destructive examinations.

Bars shall be visually examined. Their surface shall be plain, uniform and free from wrinkles, overlaps, tears, cracks and any other injurious defects. After cutting to as-delivered dimensions, the edges shall be visually examined. There shall be no cleavage or lamination.



7.4.2 Liquid Penetrant Inspection

Each bar shall be subjected to 100% liquid penetrant inspection. The test procedure and acceptance shall be as per supplementary requirement standard in ASME SB-564.

7.4.3 Ultrasonic Examination

Each bar shall be subjected to 100% ultrasonic examination by longitudinal wave technique. The test procedure shall be as per supplementary requirement stated in ASME SB-564 except that the flat – bottomed reference hole of 3 mm diameter shall be the acceptance criteria. The examination shall be axially on both the sides. Indication observed if any, shall be reported for information. The examination shall also be carried out with bottomed reference hole of 1.5 mm diameter and indications, if any, shall be reported for information.

Defects above the recording level are not acceptable and must be cut out. It shall be confirmed in writing to BHEL that bar section containing defects above the recording level have been cut out of the bar.

8.0 MARKING

Each bar shall be marked/Punched with following information on one face of the bar:

- a) Material Grade, Purchase order number, Cross section size LXB(Cross section), Supplier Name
- b) This shall be stamped with authorized inspector's seal.

9.0 DOCUMENTATION:

The supplier shall furnish 4 copies of test certificates unless and otherwise stated on the order. The test certificates shall be from national/international certified labs and bear the following information:

BHEL Reference:

- a) Purchase order number
- b) Bar cross section size LXB (Cross section)
- c) Specification number

Supplier's Reference:

- c) Name of supplier
- d) Material designation
- e) Melt Number, melting & refining process

Test Results:

- a) Melt analysis & check analysis along with tramp elements.
- b) Details of reduction ratio, heat treatment with batch number, actual time and temperature sequence, soaking time, cooling media
- c) Mechanical test results (all individual values & test piece locations are to be indicated).



Specification No: CRD/Alloy 617M Stubs/2017/03

- d) Results of Liquid penetrant examination.
- e) Ultrasonic examination results (type of instrument, test probe, adjustment and test sensitivity are to be mentioned).
- f) Dimensional data sheet

10.0 CLEARANCE FOR DELIVERY:

The entire results of test performed are deciding factors for the clearance of the delivery. BHEL shall evaluate the total results with respect to intended operational requirements for the bar and judge accordingly the permissibility of deviations (if any) of the properties of the piece required.

The clearance does not relieve the manufacturer from the responsibility for hidden impermissible defects, which may be found later on.

11.0 DEVIATIONS:

Deviations from this Purchase Specification (if any), which may arise during manufacturing, shall be submitted to BHEL in writing giving full details of the deviations. Acceptance of concession request will be at the sole discretion of the BHEL.

12.0 PACKING & DISPATCH:

Before dispatch, the rectangular bars shall be suitably packed to prevent corrosion and damage during transit.

Each bar shall be coated with oil, covered with polythene sheets and waterproof paper and then packed in a sea-worthy export wooden crate. Shipment of bars shall be done after conducting all tests as mentioned above and submission of test report to BHEL and accepted by BHEL.

13.0 CROSS REFERRED STANDARDS

VD TUV Data Sheet 485, ASME SB-564, ASTM E-350



14.0 DELIVERY PERIOD

The Forging enquired forms a part of a Government of India funded Project (Scheme) and the delivery period mentioned below has been derived keeping in view of the Scheme completion date. Vendor shall comply with this required period. Vendor should quote time period separately for 'Supply' of equipment

Supply period: Duration shall be counted from the date of Purchase Order (PO). Vendors are required to indicate the best delivery period i.e., Order Acceptance, submission of drawings etc., should not be linked to the delivery period. Supply period indicated by vendor should include reasonable time required for approval of drawings and other inputs from BHEL. In the Techno-Commercial Bid, the vendor shall submit milestones for various activities in correlation with Supply quoted by him. Time period required for dispatch Ocean Bill of Lading (OBL) date for out-side India Suppliers / Lorry Way Bill(LWB) date for FOR-BHEL HEERWARANIPUR, HARIDWAR, UTTARAKHAND 249403 Stores for Indian Suppliers from the date of Purchase Order in the "Vendor's confirmation" below.

DELIVERY PERIOD (in Weeks) AS DESIRED BY BHEL (PO date to OBL/LWB date):
21 Weeks

DELIVERY PERIOD (in Weeks) OFFERED BY VENDOR (PO date to OBL/LWB date):_____

However, while evaluating the offers, those offers which are not conforming the requested delivery, COMMERCIAL LOADING @ $\frac{1}{2}$ % of the purchase order value per week will be done for the EXTRA PERIOD requested.

Commercial loading on the offered price will be done during evaluation of the offers



Specification No: CRD/Alloy 617M Stubs/2017/03
ANNEXURE-1

Table-02: DIMENSIONS OF RECTANGULAR ROLLED/FORGED BARS

Sl. No	L mm	B mm	H mm Each Bar	No. Of Bars	Wt. (kg)	Total Length in (Meters)
1	73.0	34.2	243.7	89	452.69	21.69
2	73.8	33.7	263.1	90	492.33	23.68
3	73.4	32.6	258.9	95	492.01	24.60
4	77.9	33.3	257.5	94	524.92	24.21
5	76.1	34.4	235	88	452.58	20.68
					2414.54	

- Note:**
1. Vendor shall supply either minimum height H or multiples of H
 2. Tolerances for all dimensions +1mm
 3. Total Weight Approximately 2.5 MT. $\pm 5\%$

ANNEXURE-II: I

**UN-PRICED BID FORMAT FOR RECTANGULAR ROLLED/FORGED BARS
OF ALLOY 617M – INDIAN SUPPLIER**

Enquiry Description	Enquiry No	Enquiry Date	Vendor's Name and Address	

1.0 Supply

S. No.	Item Description	Units	Qty.	Unit Rate (INR)	Total C=(A*B)	HSN Code
COL. No 1	2	3	4	5	6	7
			(A)	(B)	C=A*B	
	Deliverable Item**					
1.0	Rectangular Rolled/Forged Bars of Alloy 617M as per BHEL specification-2.5MT±5%	No.	1	Quoted	Quoted	
1.1	Other (Misc.) charges	_____ %				
1.2	Packing and Forwarding charges	_____ %		Quoted	Quoted	
1.3	Subtotal (EXW Price)				Quoted	
1.4 a	Freight to BHEL HEEP Stores, RANIPUR, HARIDWAR	_____ %		Quoted	Quoted	
1.4 b	Insurance to BHEL HEEP Stores, RANIPUR, HARIDWAR	_____ %		Quoted	Quoted	
1.5a	CGST	_____ %		Quoted	Quoted	
1.5b	SGST	_____ %		Quoted	Quoted	
1.5c	IGST	_____ %		Quoted	Quoted	
1.5d	Cess, if any	_____ %		Quoted	Quoted	
1.6	Total Price (Delivery to BHEL Stores) =1.3+1.4a+1.4b+1.5a+1.5b+1.5c+1.5d					

SIGNATURE OF THE BIDDER WITH SEAL

**** Items may be quoted in same format only as per actual nomenclature and part numbers with quantity and unit price at appropriate location. All columns to be filled. If any item does not carry any value it must be mentioned as zero (0).**

#Actual taxes/ rates as applicable at the time of placement of Purchase Order

Note:

1. Submission of GST Registration details along with the Un priced bid is required for consideration of the Offer.
2. Kindly provide the HSN code and the breakup of the tariff/taxes (CGST/SGST/IGST/UGST) based on from and to locations with individual components.
3. Concessional taxes/duties, if any, available to BHEL as on date of price bid opening shall be taken into account for evaluating landed cost.
4. Hence all offers shall be evaluated at available concessional rates of, if any, on or before opening of price bid date or otherwise it shall be evaluated with quoted/prevaling rates as on date of price bid opening for landed cost comparison. However, all suppliers have to accept Concessional taxes/duties in case if the same is available to BHEL as on date of dispatch.
Suppliers are requested to quote on FOR BHEL HEEP Stores, RANIPUR, HARIDWAR, UTTARAKHAND 249403
5. This Un-Price bid format should be submitted along with Techno-Commercial Bid.
6. Rates to be quoted in figures with corresponding words.
7. Rates quoted against supply shall be inclusive testing's as per specification No: **CRD/Alloy 617M/2017/02**
8. All taxes and Duties to be submitted in Unpriced Bid also
9. Taxes and duties to be governed by GST acts. *Strict adherence to new provisions by the vendors like timely submission of invoices, tax payment, filing of returns-GSTR-I etc. will form base of new regime for release of payment from BHEL. Hence, any financial loss occurred due to non-compliance of the GST provisions would be endured at defaulters end.*
10. Vendor's undertaking: I/We have read and understood the NIT terms and conditions.

SIGNATURE OF THE BIDDER WITH SEAL

ANNEXURE-III: I

**PRICED BID FORMAT FOR RECTANGULAR ROLLED/FORGED BARS OF
ALLOY 617M – INDIAN SUPPLIER**

Enquiry Description	Enquiry No	Enquiry Date	Vendor's Name and Address	

1.0 Supply

S. No.	Item Description	Units	Qty.	Unit Rate (INR)	Total C=(A*B)	HSN Code
COL. No 1	2	3	4	5	6	7
			(A)	(B)	C=A*B	
	Deliverable Item**					
1.0	Rectangular Rolled/Forged Bars of Alloy 617M as per BHEL specification-2.5MT $\pm$ 5%	No.	1			
1.1	Other (Misc.) charges	_____ %				
1.2	Packing and Forwarding charges	_____ %				
1.3	Subtotal (EXW Price)					
1.4 a	Freight to BHEL HEPP Stores, RANIPUR, HARIDWAR	_____ %				
1.4 b	Insurance to BHEL HEPP Stores, RANIPUR, HARIDWAR	_____ %				
1.5a	CGST	_____ %				
1.5b	SGST	_____ %				
1.5c	IGST	_____ %				
1.5d	Cess, if any	_____ %				
1.6	Total Price (Delivery to BHEL Stores) =1.3+1.4a+1.4b+1.5a+1.5b+1.5c+1.5d					

1. Rates to be quoted in figures with corresponding words.
2. Rates quoted against supply shall be inclusive testing's as per specification No: CRD/Alloy 617M/2017/02
3. All taxes and Duties to be submitted in Unpriced Bid also
4. Vendor's undertaking: I/We have read and understood the NIT terms and conditions.

SIGNATURE OF THE BIDDER WITH SEAL

ANNEXURE-IV: F

**UN-PRICED BID FORMAT FOR RECTANGULAR ROLLED/FORGED BARS
OF ALLOY 617M – FOREIGN SUPPLIER**

Enquiry Description	Enquiry No	Enquiry Date	Vendor's Name and Address	

1.0 Supply

S. No.	Item Description	Units	Qty	Unit Rate with Currency	Total C=(A*B)	HSN Code
COL NO-1	2	3	4	5	6	7
			(A)	(B)	C=A*B	
	Deliverable Item**					
1.0	Rectangular Rolled/Forged Bars of Alloy 617M as per BHEL specification-2.5MT±5%	No.	1	Quoted	Quoted	
1.1	Other (Misc. charges)					
1.2	Packing and Forwarding charges	_____%		Quoted	Quoted	
1.3	Sub. total (EXW Price)					
1.4	Any other Charges	_____%		Quoted	Quoted	
1.5(a)	FOB (Nearest Gateway Sea Port) Charges	_____%		Quoted	Quoted	
1.5(b)	CFR Charges (Mumbai/ Nhavasheva / Chennai seaport/CPT)	_____%		Quoted	Quoted	
1.6	Sub Total, CFR-India Seaport				Quoted	
2.0	Landed Cost Calculations					
2.1	Exchange rate on Technical bid opening date, to be filled by BHEL			BHEL	BHEL	
2.2	Sub Total, CFR-India Seaport in Indian Currency (INR), to be filled by BHEL (1.6*2.1)			BHEL	BHEL	
2.3	Insurance (INR) @1%					
2.4	Basic Customs duty, (INR)			BHEL	BHEL	
2.5	IGST,(INR)			BHEL	BHEL	
2.6	CVD, (INR)					
2.7	Cess, (INR)			BHEL	BHEL	
2.8	Local Transport, India seaport BHEL HEEP Stores, RANIPUR, HARIDWAR , incl. taxes (for CFR-Mumbai/ Nhavasheva/ Chennai seaport shipment, (INR) @2%			BHEL	BHEL	
2.9	Total, imports (Delivery to BHEL HEEP Stores, Haridwar), (2.2 to 2.8), (INR)					

SIGNATURE OF THE BIDDER WITH SEAL

1. Indian agency commission is included in the price quoted: _____% (please specify the line item / items). Please attach Agency agreement copy.

** Item may be quoted in same format only as per actual nomenclature and part numbers with quantity and unit price at appropriate location. All columns to be filled. If any item does not carry any value it must be mentioned as zero (0).

Actual taxes/ rates as applicable at the time of placement of Purchase Order

Note:

1. This Un-Price bid format should be submitted along with Techno-Commercial Bid.
2. Kindly provide the HSN code and the applicable duties and taxes with breakup of components.
3. Concessional taxes/duties, if any, available to BHEL as on date of price bid opening shall be taken into account for evaluating landed cost.
4. Hence all offers shall be evaluated at available concessional rates of, if any, on or before opening of price bid date or otherwise it shall be evaluated with quoted/prevaling rates as on date of price bid opening for landed cost comparison. However, all suppliers have to accept Concessional taxes/duties in case if the same is available to BHEL as on date of dispatch.
5. Insurance charges @1% & Freight charges @2% against Sl.No.2.3 and 2.5 respectively will be taken towards cost calculations for evaluation.
6. **TERMS OF DELIVERY:**
CFR – MUMBAI / Nhavasheva Seaport / Chennai Seaport. Insurance @1% (Supplier's seaport to BHEL Ranipur, Haridwar) + local transport charges @2%(Mumbai / Nhavasheva / Chennai Seaport to BHEL Ranipur, Haridwar) shall be added for landed cost evaluation.
7. Rates to be quoted in figures with corresponding words.
8. Rates quoted against supply shall be inclusive testing's as per specification No: **CRD/Alloy 617M/2017/02**
9. Supplier's undertaking: I/We have read and understood the NIT terms and conditions.

SIGNATURE OF THE BIDDER WITH SEAL

PRICE BID FORMAT

ANNEXURE-V: F

PRICED BID FORMAT FOR RECTANGULAR ROLLED/FORGED BARS OF ALLOY 617M – FOREIGN SUPPLIER

Enquiry Description	Enquiry No	Enquiry Date	Vendor's Name and Address	

1.0 Supply

S. No.	Item Description	Units	Qty	Unit Rate with Currency	Total C=(A*B)	HSN Code
COL NO-1	2	3	4	5	6	7
			(A)	(B)	C=A*B	
	Deliverable Item**					
1.0	Rectangular Rolled/Forged Bars of Alloy 617M as per BHEL specification-2.5MT+5%	No.	1			
1.1	Other (Misc. charges)					
1.2	Packing and Forwarding charges	_____%				
1.3	Sub. total (EXW Price)					
1.4	Any other Charges	_____%				
1.5(a)	FOB (Nearest Gateway Sea Port) Charges	_____%				
1.5(b)	CFR Charges (Mumbai/ Nhavasheva / Chennai seaport/CPT)	_____%				
1.6	Sub Total, CFR-India Seaport					
2.0	Landed Cost Calculations					
2.1	Exchange rate on Technical bid opening date, to be filled by BHEL			BHEL	BHEL	
2.2	Sub Total, CFR-India Seaport in Indian Currency (INR), to be filled by BHEL (1.6*2.1)			BHEL	BHEL	
2.3	Insurance (INR) @1%					
2.4	Basic Customs duty, (INR)			BHEL	BHEL	
2.5	IGST,(INR)			BHEL	BHEL	
2.6	CVD, (INR)					
2.7	Cess, (INR)			BHEL	BHEL	
2.8	Local Transport, India seaport BHEL HEEP Stores, RANIPUR, HARIDWAR , incl. taxes (for CFR-Mumbai/ Nhavasheva/ Chennai seaport shipment, (INR) @2%			BHEL	BHEL	
2.9	Total, imports (Delivery to BHEL HEEP Stores, Haridwar), (2.2 to 2.8), (INR)					

SIGNATURE OF THE BIDDER WITH SEAL

1. Rates to be quoted in figures with corresponding words.
2. Rates quoted against supply shall be inclusive testing's as per specification No: **CRD/Alloy 617M/2017/02**
3. Insurance charges @1% & Freight charges @2% against Sl.No.1.9 and 1.11 respectively will be taken towards cost calculations for evaluation.

SIGNATURE OF THE BIDDER WITH SEAL