

	PPX-BOI DEPARTMENT BHARAT HEAVY ELECTRICALS LIMITED HEEP: HARDWAR-249 403 (Uttarakhand) FAX: +91 1334 226084/226462 TEL: +91 1334 28 4269/4421	ENQUIRY NO. B/4011/2016/3200V/1 PACKAGE: CONTROL FLUID PUMP PROJECT: TUTICORIN PROJECT DATE OF ISSUE OF ENQUIRY: 25/02/2017 ENQUIRY DUE DATE: 20/03/2017 (BY 1345 HRS IST)
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INSTRUCTION TO BIDDERS & SPECIAL TERMS OF ENQUIRY

1. SCOPE OF ENQUIRY

Sealed Bids are invited from bidders for the Supply and Supervision during Erection & Commissioning of **Control Fluid Pump** for **Tuticorin Project**, as per requirement mentioned below:

Sl. No.	Material Code & Item Description	Total Quantity	Scheduled Delivery
1	Material Code W90311924050 CONTROL FLUID PUMP SET COMPRISING OF PUMP MOTOR SET, FOUNDATION BASE PLATE, ANCHOR BOLT, LIFTING LUGS, COUPLING AND OTHER ACCESSORIES AS PER SPECIFICATION ST39012 AND PUMP DATA GIVEN ON DRG.31192416000 SPEC: ST39012 REV: 01	02 Nos.	24/03/2018

2. PROJECT INFORMATION

Project Name	1 x 525 MW TUTICORIN STAGE-IV PROJECT
Name of the End Customer	MEGHA ENGINEERING & INFRASTRUCTURES LTD
Consignee Address	BHEL HARIDWAR C/O MEGHA ENGINEERING & INFRA- STRUCTURES LTD, TTPP CHECK POST NO-1, VOC ROAD, THOOTHUKUDI-628004, TAMILNADU
Excise Duty Status	On Merit (i.e. Full Excise Duty)
Custom Duty Status	On Project Import

3. EARNEST MONEY DEPOSIT (EMD)

3.1 Interested vendors must submit their offer along with the following Earnest Money Deposit (EMD) in a separate sealed envelope:

Details	Amount In INR	Amount in Foreign Currency	Type
EMD	INR 2,00,000/- (INR Two Lacs)	USD 3000 or Equivalent foreign currency	Refundable

3.2 The EMD should be submitted in the form of demand draft / Pay Order/ Cash (as permissible under Income Tax Act). The Drafts shall be drawn in favor of "BHEL Hardwar". In case of foreign bidders, E-payment is also acceptable. For E-Payment, the RTGS details are as mentioned below:

Bank Details	SWIFT Details of bank	Contact Details of Banker
STATE BANK OF INDIA RANIPUR BRANCH, OPP: BHEL MAIN GATE, SECTOR-5, RANIPUR, HARIDWAR, UTTARAKHAND, INDIA PIN CODE : 249403	SWIFT NO : SBININBB225 CC ACCOUNT NO : 10667995458 IFSC CODE : SBIN0000586	Name: Sh. Sudhir Sharma Design: Chief Manager (IBD) Contact No. +91 1334 224201 +91 1334 226125 Fax: +91 1334 226512

3.3 Bidders already registered at BHEL Hardwar (i.e. PMD Vendors) for this package are exempted from submission of the EMD.

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- 3.4 MSE Suppliers/Central / State – PSUs / Government departments are exempted from submission of the EMD.
- 3.5 Bids not accompanied with requisite EMD or bids accompanied with EMD of inadequate value shall not be considered for further evaluation. An opportunity may be given to the bidder for submitting the requisite EMD and the offers would be evaluated only in case, the requisite EMD is received within a time bound period.
- 3.6 The bidder whose bid is technically not accepted will be informed & EMD wherever submitted shall be refunded after the finalization of the contract. EMD shall be forfeited in the event of bidder opting out after tender opening.

4. PRE-QUALIFICATION REQUIREMENT (PQR)

The Pre-Qualification Requirements have been compiled and placed at **ANNEXURE-1**. All the bidders should ensure submission of complete details and documents as called for in these requirements. The Offers submitted by the bidders would be scrutinized with respect to Pre-Qualification Requirements first. Techno-Commercial offer of only those bidders shall be evaluated who meet the Pre-Qualification Requirements.

5. SUBMISSION OF OFFER

- 5.1 Only English version of all documents would be valid & binding.
- 5.2 Bidders are advised to study all the tender documents carefully. Any submission of tender by the bidder shall be deemed to have been done after careful study and examination of the tender documents and with full understanding of the implications thereof. The specifications and terms & conditions shall be deemed to have been accepted unless otherwise specifically commented upon in 'Deviation' sheets by the bidder in his offer. Non-compliance with any of the requirements and instructions in the Tender Enquiry may result in rejection of the offer.
- 5.3 Name of vendor's dealing person with Contact No(s), Email ID and Address of correspondence shall be provided in the bid.
- 5.4 Tenders are to be submitted in Two Parts and Part-I (Techno-Commercial Bid alongwith PQR, as detailed below) will be opened first. The offers are to be submitted on or before the Due Date and time, as detailed below:

[A] PART-I: PRE-QUALIFICATION REQUIREMENT (PQR) & TECHNO-COMMERCIAL BID

Comprising of following documents:

- a. Earnest Money Deposit (EMD)/details of EMD in case of E-Payment.
- b. Bidders are required to furnish requisite details in the formats specified in bidding documents for meeting the stipulated **Pre-Qualification Requirements (PQR)** along with all supporting documents like copies of End User Certificates, Purchase Orders and Contract Agreements etc. The Pre-Qualification requirements is as per enclosed **ANNEXURE-1**.
- c. Complete Technical offer with relevant drawings/ documents etc. (as per **ANNEXURE-2**)
- d. **"INSTRUCTION TO BIDDERS & SPECIAL TERMS OF ENQUIRY"** and **"GISTC (General Instructions and Standard Terms & Conditions against Tender Enquiry)"** are an integral part of this enquiry and endorsed copies of these documents (duly signed and stamped on each page, as a token of acceptance) are to be necessarily submitted along with the offer. Deviations if any are to be listed out separately. Please note that in case no- deviation sheet is received along with offer, it will be presumed that all terms and conditions mentioned in **"INSTRUCTION TO BIDDERS & SPECIAL TERMS OF ENQUIRY"** and **"GISTC (General Instructions and Standard Terms & Conditions against Tender Enquiry)"** shall be acceptable to you and your offer will be processed accordingly.
- e. Quality Plan in enclosed BHEL Quality Plan format.
- f. Commercial Terms & Conditions

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- g. Any Deviation with reference to technical requirements/specification to be laid down on separate sheet along with the cost of Withdrawal of such technical deviations (if any). Acceptance of such technical deviations would be at the discretion of BHEL.
- h. **Supplier Registration Form (SRF):** Online Registration Portal is operational in BHEL. Bidders not registered at BHEL, Hardwar for this item, have to apply through Online Registration portal, <https://supplier.bhel.in/>. All credentials and/or documents duly signed and stamped related to registration has to be uploaded on the website and the application submitted for registration. One set of hard copy of the filled up Supplier Registration Form (SRF) downloaded from Online Registration Portal duly signed and stamped has to be submitted along with the offer.

Note: The SRF complete in all respects, should be submitted necessarily before price bid opening. The bidders registered at BHEL for this item (i.e. PMD Vendors) are exempted from submission of the SRF.

[B] PART-II: PRICE-BID

Containing Prices is to be submitted in original, strictly as per enquiry conditions for complete scope of tender enquiry

- 5.5 Following shall be superscribed on the envelopes which shall be addressed by name and designation to the official inviting tender:

PART-I (refer clause 5.4 [A]) : 1. TENDER ENQUIRY NO. AND ITEM DESCRIPTION
2. DUE DATE FOR OPENING
3. "TECHNO-COMMERCIAL BID WITH PQR".

PART-II (refer clause 5.5 [B]) 1. TENDER ENQUIRY NO AND ITEM DESCRIPTION
2. DUE DATE FOR OPENING
3. "PRICE BID".

- 5.6 Parts – I & II shall be submitted in separate sealed covers duly superscribed as indicated above and shall be enclosed further in a main cover duly sealed and superscribed as:

“OFFER FOR (ITEM NAME) AGAINST ENQUIRY NO. B/4011/2016/3200V/1 DUE ON _____, CONTAINING PART-I & PART-II Bids”. Vendor’s full name and address should be clearly mentioned on the envelope

- 5.7 Envelope not marked with tender enquiry number is liable to be ignored and may not be opened.
- 5.8 Quotation must be enclosed in sealed cover on which tender enquiry number and the due date MUST BE written and be invariably sent under REGISTERED POST / SPEED POST / COURIER/Dropped in the Tender Box, addressed as follows:

To,
THE HEAD OF MATERIAL MANAGEMENT,
Heavy Electrical Equipment Plant,
Bharat Heavy Electricals Limited,
HARIDWAR-249403 (Uttarakhand), INDIA.

- 5.9 Tender opening is scheduled to start in the Tender Room at 2:00 PM (IST), on the due date. Therefore bid/quotations must reach this office / tender Box latest by 1:45 PM (IST) on due date. Only participating bidders are allowed to attend tender opening. TENDERS RECEIVED AFTER THE SPECIFIED TIME OF THEIR 'SUBMISSION' WILL BE TREATED AS LATE TENDERS AND SHALL NOT BE CONSIDERED UNDER ANY CIRCUMSTANCES.

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- 5.10 The bid/quotation must be posted before due date, keeping allowance for postal transit time. Alternatively, the tenders duly sealed and super-scribed as above may be deposited in the Tender Box. Quotations sent by any mode but not received in time will be ignored. Tender received through authorized E-mail is also acceptable. However, in time submission of tender in tender box shall be the responsibility of the bidder, sent through any mode. Documents submitted with the offer/bid shall be signed and stamped in each page by authorized representative of the bidder.
- 5.11 **PART-I (Techno-Commercial bid with PQR)** will be opened on Due Date and time specified in the Enquiry, or extension thereof, in presence of tenderers who may like to attend. Incomplete offers are liable to be rejected.
- 5.12 **Techno-Commercial offer of only those bidders shall be evaluated who meet the Pre-Qualification Requirements mentioned in our Enquiry and who have submitted the EMD as stipulated in clause 3 above.** The Pre-Qualification requirements have been compiled in enclosed **ANNEXURE-1**.
- 5.13 After opening of the techno-commercial offer, the offers would be evaluated by BHEL and acceptance shall be subject to End Customer approval (if required). Price Bid shall be opened only of the Customer approved vendors.
- 5.14 After finalization of Techno-Commercial evaluation, offers of BHEL and Customer approved vendors who have qualified in techno-commercial offer shall be considered for Price Bid Opening/RA.
- 5.15 All correspondence thereof, shall be addressed to the following persons:

Mr. Rahul Sharma Designation: Dy. Manager (PPX-BOI) 4th Floor, Main Administrative Building HEEP, BHEL Hardwar- 249403 Uttarakhand, India Email ID: rahul@bhelhwr.co.in Tel: +91 1334 28 4421	Mr. Sudarshan Ram Designation: AGM (PPX-BOI) 4th Floor, Main Administrative Building HEEP, BHEL Hardwar- 249403 Uttarakhand, India Email ID: sram@bhelhwr.co.in Tel: +91 1334 28 4269
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- 5.16 Bidders shall be allowed in the tender room in area identified for bidders and only one authorized representative from each bidder shall be allowed.
- 5.17 Bidder shall not be allowed to carry camera/laptop in the tender room. The use of Mobile Phone is also restricted in the Tender Room.
- 5.18 Details of offers shall be read out to bidders and in no case the offers shall be handed over to any of the bidders for noting down.
- 5.19 As per directives of CENTRAL VIGILANCE COMMISSION, GOVERNMENT OF INDIA, one agent can not represent two or more suppliers or quote on their behalf in a particular tender. If so found at any stage, BHEL Hardwar is likely to cancel Enquiries / POs to such suppliers. Further, such Indian Agent is likely to be de-listed (Black listed for business from BHEL).
- 5.20 Vendors operating from BHEL quarters, unauthorized colonies on BHEL Land and Dharamshalas/ Hotels shall not be considered, hence such vendors need not apply.

6 RIGHT OF ACCEPTANCE

- 6.1 BHARAT HEAVY ELECTRICALS LIMITED (BHEL) HARIDWAR reserves the right to reject any or all the bids/quotations without assigning any reason thereof. BHEL also reserves the right to increase or decrease the tendered quantities. Bidders should be prepared to accept order for reduced quantity without any extra charges.

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- 6.2 Any discount/ revised offer submitted by a bidder on its own shall be accepted provided it is received on or before the due date and time of offer/bid submission (Part-I). The discount shall be applied on pro-rata basis to all items unless specified otherwise by the bidder. Conditional discounts shall not be considered for evaluation of tenders.
- 6.3 Unsolicited discounts/revised offers given after enquiry opening (i.e. Part-I bid opening) shall not be accepted.
- 6.4 In case there is no change in the technical scope and/or specifications and/or commercial terms & conditions, the bidder/s shall not be allowed to change his/their price bids after the due date (i.e. Part-I bid opening).
- 6.5 In case of changes in scope and/or technical specification and/or commercial terms & conditions, having price implications, techno-commercially acceptable bidders shall be asked by BHEL (after freezing the scope, technical specifications and commercial terms & conditions) to submit the impact of such changes on their price bid. A cut-off date and time shall be given to all the techno-commercially acceptable bidders to submit the impact on their price bids.
- 6.6 In the event of any bidder, after finalizing the technical specification & scope of supply, opting to revise and submit their latest price bid instead of submitting impact on their price bid asked by BHEL, then their latest price bid shall prevail. However in such condition their original price bid will necessarily be opened.
- 6.7 After technical & commercial examination of the offers received and clarifications obtained (if required), Part-II (Revised Price Bid/ Original Price Bid along with Price Impact and Discount, if any) shall be opened, for which the date and time shall be intimated to technically and commercially acceptable bidders in case of public opening. BHEL may opt to finalise the prices through Reverse Auction amongst technically and commercially acceptable bidders. BHEL reserves the right to open the earlier price bids, if any, submitted by the bidder(s), if required.
- 6.8 No correspondence shall be entertained from the tenderers after opening of Part-II (Price bid), except clarifications (if any) asked by BHEL in writing.

7 BASIS OF QUOTATION

For Supplies from outside India:

The prices are necessarily to be quoted on CFR Mumbai (India) basis.

For Supplies from within India:

The prices are to be quoted on Ex-Works with freight Pre-paid up to destination basis. The goods must be dispatched through any Bank approved transporters having their branch at Haridwar. The names and addresses of transporters approved by IBA as well as BHEL are posted at our website www.bhelhwr.co.in. Pls. note that, if you dispatch the material by any BHEL un-approved transporter then you will be required to furnish the MRC (Material Receipt Certificate) from Project Site for processing of your invoice. No demurrage charges would be borne by BHEL.

Vendors should quote inland freight charges (for supplies within India, if any). In case the offer is silent regarding inland freight charges, then, **the same would be considered to be inclusive in the offer.** In such case, no separate freight charges would be payable to the supplier (in the event of ordering) and transportation has to be arranged by supplier at their own cost.

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8 OFFER VALIDITY

The offer is to be submitted with a validity of 180 days from the date of opening of techno-commercial offers (Part-I Offer). BHEL will reserve the right to reject the offer, quoting validity less than 180 days.

9 SUPERVISION DURING ERECTION & COMMISSIONING

9.1 Vendor's supervision is required during Erection & Commissioning of the Control Fluid Pump.

9.2 Following charges are to be necessarily quoted in your offer:

- i. Lumpsum Per Day Charges (Inclusive of all i.e. fooding, boarding, lodging etc.)
- ii. Lumpsum Per Visit Charges (i.e. to & fro travel charges to site).

9.3 A Period of 02 Visits and 03 Days would be taken for evaluation of Charges for Supervision during Erection & Commissioning, for each Pump. However in the event of ordering, the payment would be made at actuals against submission of successful erection/commissioning certificate along with signed time sheet from BHEL Project Site.

9.4 In case the offer is silent regarding supervision charges, then, **the same would be considered to be inclusive in the offer.** In such case, no separate supervision charges would be payable to the supplier (in the event of ordering) and supervision during E&C has to be done by the supplier on Free of Cost basis.

10 PRICES & PRICE SCHEDULE

10.1 The prices are to be quoted on firm basis. BHEL will reserve the right to reject the offer of the vendors not quoting the prices on Firm basis.

10.2 Bidder shall closely peruse all clauses, specifications & drawings etc. indicated in tender documents before quoting. In case of any doubt about meaning of any portion of tender specifications or discrepancies or omissions in drawings/ tender document or clarifications regarding scope of work etc., the official(s) inviting the tender can be contacted for clarifications, before submitting the offer.

10.3 The prices for foreign scope of supply & services (i.e. from outside India) should be quoted in Euro/USD/JPY/UK Pound/ SF/Singapore Dollar or any other Internationally Freely Tradable Currency only.

10.4 In the Price Breakup source of billing, source country of supply, Currency of quotation, separate FOB & CFR Mumbai (India) Charges (for imported shipment) and rate of all applicable taxes & duties, should be clearly mentioned.

10.5 Transit Insurance (both Marine & Inland) would be arranged by BHEL.

10.6 Tenderer shall quote the rates in English language and international numerals only. Total Price shall be entered in figures as well as in words. All entries in the tender shall either be typed or written legibly in ink. Cancellations, corrections, insertions, erasures, over-writing (if unavoidable) shall be authenticated with signature and seal by the bidder.

11 APPLICABLE TAXES & DUTIES:

11.1 **Excise Duty (For supplies within India i.e. Indian Bidders):** Presently, Excise Duty is applicable on Merit (i.e. full Excise Duty) for Tuticorin Project. The rate of applicable Excise Duty including cess, if any, is to be clearly mentioned in your offer.

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11.2 Sales Tax (For supplies within India i.e. Indian Bidders): The rates of applicable Central Sales tax (CST) / Value Added Tax (VAT) percentage and the total amount with concessional form (s) should be specifically mentioned in your offer. The CST/VAT would be reimbursed only if the same is paid by the vendor/sub-vendor.

11.3 CUSTOM DUTY (For supplies outside India i.e. Foreign Bidders): Presently Custom Duty is on PI (Project Import Basis) for Tuticorin Project.

11.4 SERVICE TAX & TDS (for Supervision during E&C)

11.4.1 For Services being rendered and billed from outside India

The rates of applicable Service Tax & TDS (for supervision during E&C) should be clearly mentioned in your offer.

Please note in case TDS is inclusive in your quoted rates, BHEL will deduct tax from your bill of services at the time of payment of service portion and furnish Tax Deduction at Source (TDS) Certificate.

The rate of TDS will be as per Double Taxation Avoidance Agreement between India and Vendor's Country. You should generally be able to get credit for TDS from the tax authorities in your country based on the certificate provided by BHEL (TDS certificate), if there is a Double-Taxation Avoidance Treaty with India.

The copy of PAN Card (if registered with income tax Department of India) is to be submitted along with your offer.

11.4.2 For Services being rendered and billed from within India

The rates of applicable Service Tax (for supervision during E&C) should be clearly mentioned in your offer.

BHEL shall not be liable towards income tax of whatever nature including variations thereof, arising out of this order/contract. The TDS for service portion is to be borne by the bidder and no separate payment/implication on account of TDS would be borne by BHEL.

11.5 OTHER TAXES & DUTIES: All taxes & duties other than above shall be deemed to be inclusive in the quoted prices unless specified by the bidder in their offer.

11.6 The comparison of offers would be done as per the applicable Taxes & Duty structure on the date of opening of Price Bid.

12 EVALUATION CRITERIA

12.1 Evaluation will be done on the basis of total landed cost for the complete requirement covered in the enquiry, with cost involved for delivery up to final project site (considering total material value, supervision charges, taxes & duties, Freight, Insurance, and Commercial Loading etc.).

12.2 Import Offers (supply portion offered on CFR Mumbai (India) basis) shall be loaded for Marine Insurance, Port Handling/Clearing Charges, applicable custom duties for the project, freight element and other charges involved for delivery up to Project Site as following:

	PPX-BOI DEPARTMENT BHARAT HEAVY ELECTRICALS LIMITED HEEP: HARDWAR-249 403 (Uttarakhand) FAX: +91 1334 226084/226462 TEL: +91 1334 28 4269/4421	ENQUIRY NO. B/4011/2016/3200V/1 PACKAGE: CONTROL FLUID PUMP PROJECT: TUTICORIN PROJECT DATE OF ISSUE OF ENQUIRY: 25/02/2017 ENQUIRY DUE DATE: 20/03/2017 (BY 1345 HRS IST)
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- o Marine insurance – @ 0.01% of FOB value
- o Port handling/ clearing charges – @ 1% of CIF value.
- o Custom Duty (including CVD & SAD): As prevailing on date of price bid opening.
- o Inland freight & Insurance (from Mumbai to Tuticorin Site): As per applicable rate of BHEL transportation contract/ standard practice at BHEL/GISTC, whichever is higher.

12.3 For evaluation (of offers quoted in Foreign Currency), exchange rate (TT selling rate of State Bank of India) as on date of tender opening (Part-I bid) 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.

13 GUARANTEE/WARRANTY CLAUSE

- 13.1 Guarantee/ Warranty: Guarantee/Warranty is to be provided for a period of 18 months from the date of installation & commissioning or 36 months from dispatch, whichever is later.
- 13.2 Please note that vendors quoting guarantee less than 24 months from dispatch shall not be considered. In case of deviation is Guarantee Period, offer shall be evaluated with loading @4% per annum (on pro-rata basis) of quoted material value, for the deviated guarantee period.

14 PERFORMANCE BANK GUARANTEE

- 14.1 Performance Bank Guarantee (PBG) is to be provided for 10% of the total order value (i.e. Material value + Supervision Charges). PBG should be valid for entire Guarantee/ Warranty period. PBG shall be submitted before negotiation of the documents. The PBG acceptance / receipt certificate will be a part of the negotiable documents
- 14.2 Initially PBG has to be submitted for a period of thirty six (36) months and extension of the same is to be provided to cover the entire period of Guarantee/Warranty. The extension of the PBG has to be provided atleast two months before the expiry of Guarantee/Warranty Period at bidders own cost.
- 14.3 The PBG is to be provided in BHEL format and should be from one of the BHEL's consortium Banks in India. Format of Performance Bank Guarantee & list of BHEL's consortium Banks are enclosed.
- 14.4 In case PBG is issued from foreign branch of BHEL's consortium banks, the same should be confirmed by Indian branch of a consortium bank and all charges for confirmation of PBG has to be borne by the bidder.
- 14.5 BHEL reserves the right to invoke the PBG and forfeit the amount in case of any default, failure or neglect on part of supplier in fulfillment of performance of the order, deficiency in supply, services etc. as per Order.
- 14.6 No deviation in submission of PBG would be accepted by BHEL. BHEL will reserve the right to reject the offers of the vendors not agreeing to submit PBG as per BHEL requirement.

15 PAYMENT TERMS

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- 15.1 **PAYMENT TERMS FOR MATERIAL PORTION (For both Foreign & Indigenous Bidders):** 100% payment shall be made after receipt and acceptance of material at Tuticorin Project Site. Following documents should be submitted for claiming payment:

For Foreign Bidders

- 2 of 3 Original Bill of Lading
- Copy of Material Receipt and Acceptance certificate from BHEL.
- Original Certificate of Origin (COO) endorsed by Economic Chamber of Commerce of originating country.
- Original Guarantee/Warranty Certificate.
- Original Invoice
- Original Packing List
- Copy of Material Dispatch Clearance Certificate issued by BHEL
- Copy of PBG acceptance / receipt certificate issued by BHEL
- Receipt & acceptance certificate of 01 of 03 OBL from BHEL Haridwar
- Phytosanitary certificate (if applicable, refer GISTC)

Note:

1 of 3 Original Bill of lading shall be sent by supplier directly to

AGM-Incharge (PPX/BOI),
Main Administrative Building
Bharat Heavy Electricals Limited
HEEP- HARIDWAR

For Indian Bidders

- Copy of Material Receipt and Acceptance certificate from BHEL.
- Original Guarantee/Warranty Certificate.
- Original Invoice
- Original Packing List
- Copy of Material Dispatch Clearance Certificate issued by BHEL
- Copy of PBG acceptance / receipt certificate issued by BHEL

- 15.2 **PAYMENT TERMS FOR SUPERVISION DURING E&C:** 100% against submission of successful Erection/Commissioning Certificate along with signed Time Sheet from BHEL project site.

- 15.3 The payment may be claimed thru bank (i.e. CAD) or directly to BHEL. In case of payment through bank, all bank charges shall be on either side i.e. your bank's charges shall be to your account and our bank's charges shall be to our account. In case documents are presented directly to our nominated Banks, bank charges shall be to your account.

- 15.4 **For Foreign Bidders:** In case Bidders insists Payment thru Letter of Credit for Material Supply, BHEL may agree for Un-Confirmed and Irrevocable Letter of Credit and will be opened 60 days prior to the scheduled delivery and will be valid for 90 days. However, material receipt and acceptance certificate from BHEL will be part of negotiation document for claiming payment.

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- 15.5 **For Indian Bidders:** Payment thru Letter of Credit (LC) will not be allowed. BHEL reserves the right to either reject the offer or load the offer of Indian bidders insisting payment thru LC.
- 15.6 **Loading for Deviation in Payment terms (for both Indian & Foreign Bidders):** BHEL reserves the right to load the offers of vendors for deviation in payment terms mentioned in the enquiry for Material Portion (as per Clause 15.1 above). Base rate of SBI (as on 31st March 2016) + 6% per annum, shall be considered for loading for the period of relaxation sought by bidders. Loading would be done on basic cost of items, as per table given below:

Payment Terms		Days of Loading
After Receipt & Acceptance of material at Site (Indian/Foreign Bidders)		No Loading
Against Delivery at BHEL Site (against Material Receipt Certificate) (Indian/Foreign Bidders)		15
Against documents through bank (CAD):	Foreign Bidders	45
	Indian Bidders	30
Letter of Credit (LC)	Foreign Bidders	60
	Indian Bidders (if allowed under exceptional circumstances)	45

16 DELIVERY PERIOD

- 16.1 Please quote your delivery completion period in line with the enquiry lot date. In case it is not possible to meet the lot date, you may quote your best possible delivery completion period in number of weeks from the date of Purchase Order.
- 16.2 If the delivery quoted by you does not meet BHEL's delivery requirement / revised delivery requirement as per site progress, you will be given a chance for reviewing your quoted delivery and inform revised delivery to BHEL. After this, if your delivery does not meet BHEL's required delivery / revised delivery as per site progress, BHEL reserve the right to reject your offer.

17 PENALTY FOR LATE DELIVERY

- 17.1 In case of delay in supply of material beyond the agreed contractual delivery, Penalty for Late Delivery would be applicable @ 0.5% of the **total order value** per week of delay or part thereof subject to a maximum of 10% of the **total order value**.
- 17.2 For Supplies from outside India, the date of OBL (Original Bill of Lading)/ Air Way Bill (AWB) would be treated as the date of delivery for penalty purposes.
- 17.3 For Supplies within India, the date of GR (Goods Receipt)/ LR (Lorry Receipt) would be treated as the date of delivery for penalty purposes.
- 17.4 In case of dispatch thru BHEL un-approved transporter (for indigenous supplies), receipted GR/LR from Project Site would be required for processing of the invoice. In such case, no demurrage charges would be borne by BHEL.

	PPX-BOI DEPARTMENT BHARAT HEAVY ELECTRICALS LIMITED HEEP: HARDWAR-249 403 (Uttarakhand) FAX: +91 1334 226084/226462 TEL: +91 1334 28 4269/4421	ENQUIRY NO. B/4011/2016/3200V/1 PACKAGE: CONTROL FLUID PUMP PROJECT: TUTICORIN PROJECT DATE OF ISSUE OF ENQUIRY: 25/02/2017 ENQUIRY DUE DATE: 20/03/2017 (BY 1345 HRS IST)
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- 17.5 In case of any deviation to the above penalty clause, BHEL reserves the right to load the offers to the extent to which it is not agreed by vendors (at offered value).

18 CUSTOMER APPROVAL, QUALITY REQUIREMENTS & THIRD PARTY INSPECTION

- 18.1 The final acceptance of the offers shall be subject to vendor approval by End Customer (if required). BHEL will open the Price Bids of only those vendors who are finally approved by the end customer.
- 18.2 Quality Plan is to be submitted in enclosed format. The scope of Third Party Inspection would be as Ordering Specification.
- 18.3 **For Indian Bidders (i.e. for supplies within India):** Pre-Inspection would be done by BHEL/BHEL nominated inspection agency and End Customer (if required) as per final approved Quality Plan. The charges for carrying out inspection would be borne by BHEL, however the co-ordination with the Third Party Inspection Agencies would be the sole responsibility of the bidder. The list of approved Third party Inspection agencies would be provided at the time of contract finalization. At least 15 days' notice period should be provided for arranging Pre-Inspection.
- 18.4 **For Foreign Bidders (i.e. for Supplies outside India):** The prices are to be quoted inclusive of Third Party Inspection Charges (By LRS/BVQI/TUV). The scope of inspection for Third Party Inspection Agency would be as per final approved Quality Plan. The co-ordination with the Third Party Inspection Agencies would be the sole responsibility of the bidder. In case if nothing has been mentioned in your offer about the Third Party Inspection charges, the same would be considered to be inclusive in your quoted prices.
- 18.5 The Test Certificates/Inspection reports will be submitted to BHEL for review and acceptance before dispatch of Material. The Material Dispatch Clearance (MDCC) will be provided within 7 days of receipt of these documents, provided those are complete in all respects.
- 18.6 The Material is to be dispatched only after receipt of Material Dispatch Clearance Certificate (MDCC) from BHEL.

19 PACKING & STORAGE

- 19.1 In the event of ordering, storage and handling instructions of the equipment shall be furnished separately. 2 copies of these instructions should be send along with the equipment.
- 19.2 Packing shall be in conformity with specifications and shall be such as to ensure prevention of damages, corrosion, deterioration, shortages, pilferage and loss in transit or storage.
- 19.3 **For supplies being made from outside India:** The material should be shipped in seaworthy packing.
- 19.4 Packing List shall be submitted as per standard format along with advance set of documents for claiming payment which shall also indicate:-
- Packing size.
 - Gross weight and net weight of each package.
 - Contents of the package with quantity of each item separately.

20 OPERATION & MAINTENANCE MANUALS:

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In the event of ordering O&M manuals will be provided in 20 Nos. of Hard Copies and 04 CD ROMs. Out of these, 17 Nos. Hard Copies & 3 CD ROMs of O&M Manuals shall be supplied directly to BHEL Haridwar, at least 3 months prior to the dispatch of the ordered equipment. Balance 3 Nos. of Hard Copies & 01 CD ROM of O&M Manuals shall be supplied directly to site along with the equipment and description of the same should be mentioned in packing list.

21 ENGINEERING DOCUMENT/DRAWING APPROVAL:

In case of ordering, Drawings/Data sheets/documents & Quality plan as called in the specifications shall be submitted for approval of BHEL 30 days of purchase order. Any delay in delivery on account of late submission of drawings shall be to vendors account. BHEL will arrange the approval of the drawings/data sheets/ documents within 30 days of their receipt provided those are complete in all respect.

22 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).

23 SETTLEMENT OF DISPUTES /ARBITRATION :

For Supplies from outside India:

Any dispute/difference arising out of or in connection with this contract, including any question regarding its existence, validity or termination, shall be referred to and finally resolved by arbitration under the

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Arbitration and Conciliation Act, 1996 of India by a Sole Arbitrator to be appointed with mutual consent of the parties. Such Sole Arbitrator shall be either a retired judge of Supreme Court or High Court or District Court of India or some Advocate having practiced in Indian Courts. The seat or place of arbitration shall be New Delhi, India. The language to be used in the arbitration shall be English. The governing law of the contract shall be the substantive law of India. In case the parties fail to agree on the appointment of arbitrator within 2 months of the notice invoking arbitration by one party, then the arbitrator shall be appointed in accordance with the Arbitration and Conciliation Act, 1996 of India.

JURIDICITION: The courts of Haridwar, India, shall have exclusive jurisdiction.

For Supplies from within India:

In case of dispute the matter shall be referred for ARBITRATION by sole arbitrator to be appointed by the Unit Head of Bharat Heavy Electricals Ltd., at HARIDWAR. The award of the Arbitrator shall be final and binding on both the parties. The place of Arbitration shall be Haridwar.

JURIDICITION: The courts of Haridwar, India, shall have exclusive jurisdiction.

BHEL reserves the right to reject the offer in case bidder does not agree to the arbitration clause.

24 RISK PURCHASE :

In case of abnormal delays (beyond the maximum late delivery period as per Penalty clause) in supplies / defective supplies or non-fulfillment of any other terms and conditions given in Purchase Order, BHEL may cancel the Purchase Order in full or part thereof, and may also make the purchase of such material from elsewhere / alternative source at the risk and cost of the supplier. BHEL will take all reasonable steps to get the material from alternate source at optimum cost. If bidder does not agree to the above Risk Purchase Clause, BHEL reserves the right to reject the offer. In case for compelling reasons BHEL accepts the offer without acceptance of this clause by the bidder and in the eventuality of Risk Purchase, appropriate action will be taken as per BHEL extant rules. This will be without prejudice to any other right of BHEL under the contract.

25 DEALING WITH BANNED SUPPLIERS/ CONTRACTORS IN BHEL

Offers of the bidders, who are on the banned list, as also 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.

26 PRE-BID MEETING :

Pre-Bid clarifications & deviations (if any) should be sought within 10 days of issue of the enquiry. Bidders to compile all clarifications, if any, preferably in single communication. The clarifications would be provided within 3 days of receipt of queries. Bidders may also have across the table discussions for seeking pre-bid clarifications (if required).

27 IMPORTANT NOTE

INSTRUCTION TO BIDDERS & SPECIAL TERMS OF ENQUIRY are to be read along with GISTC (for both Foreign & Indian Bidders). A signed & stamped copy of these documents as a token of acceptance is to be submitted along with the offer. In the event of contradiction of terms and conditions mentioned, the order of preference

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shall be INSTRUCTION TO BIDDERS & SPECIAL TERMS OF ENQUIRY followed by GISTC (General Instructions and Standard Terms & Conditions against Tender Enquiry).

Kindly ensure the timely submission of your offer (by 1345 Hrs IST on the due date) and note that Late Offers shall not be entertained under any circumstances.

28 List of Enclosures

- i. INSTRUCTION TO BIDDERS & SPECIAL TERMS OF ENQUIRY
- ii. Pre-Qualification Requirements along with Annexure mentioned therein (**Annexure-1**)
- iii. Technical Requirements (**Annexure-2**)
- iv. Specification NO. ST39012 Rev.01
- v. Addendum Drawing No. 418101E6005.
- vi. Drawing No. 31192416000.
- vii. Master Document List (MDL).
- viii. Quality Plan Format.
- ix. PBG Format
- x. List of Consortium Banks
- xi. GISTC (For Foreign Bidders)
- xii. GISTC (for Indian Bidders)

For and on behalf of BHEL, Hardwar

(Sudarshan Ram)
AGM (PPX/BOI)



**ANNEXURE-1
PRE-QUALIFICATION
REQUIREMENT**

ENQUIRY NO. B/4011/2016/3200V/1
PACKAGE: CONTROL FLUID PUMP
PROJECT:TUTICORIN PROJECT
DATE OF ISSUE OF ENQUIRY: 25/02/2017
ENQUIRY DUE DATE: 20/03/2017 (BY 1345 HRS IST)

PRE-QUALIFICATION REQUIREMENT

Sl. No.	Description	Vendor's Response
1	The vendor should have experience for design, manufacturing & testing of multi-stage centrifugal pump having simultaneous discharge at low pressure as well as high pressure, similar to the data given in BHEL Drg. No. 3-11924-16000. The vendor to confirm.	
2	Pump should be vertically mounted on tank in line with mounting arrangement as shown in Annexure-I of ST39012. The vendor to confirm.	
3	Working fluid for pump should be Fire Resistant Fluid as per Annexure-II of ST39012. The vendor to confirm.	
4	Pump should have been used for governing system of Steam Turbines (Power Station Application) having rating as 500MW & above. The vendor to confirm.	
5	The pump should have been used minimum for one year in continuous operation by the customer at one power station as on date of technical bid opening. The vendor to confirm. The vendor to furnish the experience details as per Annexure-A. Further, the vendor to furnish all the supporting documents like datasheet, GA drawing & Characteristics curves of pump & motor for our reference.	
6	The vendor to furnish the Customer / End User certificate against the details given at Sl. No.5 above, for satisfactory operation of supplied pump. Customer / End user certificate is not required, if the pump has been supplied to HEEP BHEL Haridwar.	
7	Vendor should have testing facility of Pump with coupled job motor in their works. Vendor to confirm the same & furnish supporting documents for the same.	



ANNEXURE-1 PRE-QUALIFICATION REQUIREMENT

ENQUIRY NO. B/4011/2016/3200V/1
PACKAGE: CONTROL FLUID PUMP
PROJECT:TUTICORIN PROJECT
DATE OF ISSUE OF ENQUIRY: 25/02/2017
ENQUIRY DUE DATE: 20/03/2017 (BY 1345 HRS IST)

ANNEXURE-A

Experience details for Control Fluid Pump

		<u>Applicable data</u>
1	Name of the station and its Location	
2	Customer name and its address, Fax no. & Tel. No.	
3	Name and designation of the responsible person in customer's organization	
4	Purchase Order No. & date	
5	Date of Commissioning of pump	
6	Steam turbine Capacity (MW)	
7	Pump designed by	
8	Pump manufactured by	
9	Working Fluid	
10	Type of pump	
11	Number of stages	
12	Design temp./pressure	
13	Rated capacity of each pump (dm ³ /sec) (a) Low pressure pump (b) High pressure pump	
14	Discharge head at rated capacity (bar) (a) Low pressure pump (b) High pressure pump	
15	Shut off head (bar) (a) Low pressure pump (b) High pressure pump	
16	Pump BHP/KW at rated capacity	
17	Efficiency	
18	Rated speed (S ⁻¹)	
19	Material of construction of pump casing	
20	Material of construction of pump Impeller	
21	Suction pipe size (DN)	
22	Discharge pipe size (DN) (a) Low pressure pump (b) High pressure pump	
23	Weight of pump with motor & base plate	
24	Type of coupling	
25	Type, Rating & make of motor	



ANNEXURE-2 TECHNICAL REQUIREMENT

ENQUIRY NO. B/4011/2016/3200V/1
PACKAGE: CONTROL FLUID PUMP
PROJECT:TUTICORIN PROJECT
DATE OF ISSUE OF ENQUIRY: 25/02/2017
ENQUIRY DUE DATE: 20/03/2017 (BY 1345 HRS IST)

TECHNICAL REQUIREMENT

1. The Technical offer is to be submitted in line with requirements mentioned in following documents:
 - a. Specification No. ST39012 Rev.01
 - b. Addendum to Specification, Drawing No. 418101E6005 Rev.00
 - c. Drawing No. 31192416000
2. Vendors should furnish the Minimum Stable Flow of the Pump for BHEL Review.
3. Item is to be dispatched with Sea Worthy Packing and Painting of CF Pump as per standard practice (i.e. 150 Micron DFT of Epoxy Paint).
4. Suction Pipe and Flange in assembled condition having length 200 mm shall be supplied by the vendor. The material of Pipe shall be ASTM A312TP321 and the material of the flange shall be ASTM A182F321.
5. In the event of ordering, documents as per list of Master Documents (MDL) is to be submitted within 30 days of placement of order.
6. Vendor shall carry out supervision work during Erection & Commissioning of the equipment.



PRODUCT STANDARD
STEAM TURBINE ENGINEERING

ST 39012

PAGE 1 OF 3-2

④ BASED ON OWN EXPERIENCE

TECHNICAL SPECIFICATION FOR CONTROL FLUID PUMPING SET**1.0 INTENT OF SPECIFICATION :**

This specification is intended to cover design, manufacture, assembly, testing and supply of control fluid pump complete with foundation base plate, anchor bolts, lifting lugs, coupling and other accessories including motor, to the power station at which BHEL supplies the equipment.

The pumping sets are intended for operation in conjunction with steam turbines and should be suitable for continuous operation at an average ambient temperature of 50°C and 90% humidity. However, during start up fluid temperature may go as low as 20°C. Therefore the motor shall be capable of starting and continuous running of the pumping set at this

④ value of temperature i.e. 20°C, meeting the requirements of operating Point I of Control Fluid Pump Data Sheet Under PGMA 11924 of corresponding Project.

2.0 FUNCTION:
Control fluid pumping set feeds control fluid to the governing system of Steam Turbine during start up and continuous operation of the set. Two pumping sets are envisaged for each turbine. One pump is kept as standby pump.

3.0 GENERAL INFORMATION :

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						PAGE 1 OF 3-2		④ BASED ON OWN EXPERIENCE			
						<u>TECHNICAL SPECIFICATION FOR CONTROL FLUID PUMPING SET</u>					
						1.0 INTENT OF SPECIFICATION : This specification is intended to cover design, manufacture, assembly, testing and supply of control fluid pump complete with foundation base plate, anchor bolts, lifting lugs, coupling and other accessories including motor, to the power station at which BHEL supplies the equipment. The pumping sets are intended for operation in conjunction with steam turbines and should be suitable for continuous operation at an average ambient temperature of 50°C and 90% humidity. However, during start up fluid temperature may go as low as 20°C. Therefore the motor shall be capable of starting and continuous running of the pumping set at this ④ value of temperature i.e. 20°C, meeting the requirements of operating Point I of Control Fluid Pump Data Sheet Under PGMA 11924 of corresponding Project. 2.0 FUNCTION: Control fluid pumping set feeds control fluid to the governing system of Steam Turbine during start up and continuous operation of the set. Two pumping sets are envisaged for each turbine. One pump is kept as standby pump. 3.0 GENERAL INFORMATION :					
SIGN & DATE	SIGN & DATE	AGREED:	NAME	SIGN. & DATE	DEPTT	NAME	SIGN. & DATE	SUPERVISED	NAME	SIGN. & DATE	ST
INVENTORY NO.	P. 5510	Revision : 01	Distribution	Qty.	Approved :	ENG. DEV. MANAGER	ST	Prepared	Issued	Date	6.3.84

SIGN & DATE			PRODUCT STANDARD STEAM TURBINE ENGINEERING		ST 39012
					PAGE 2 OF 324
SUPERSEDES INVENTORY NO.	SIGN & DATE	COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED. It must not be used directly or indirectly in any way detrimental to the interest of the company.	3.1 PUMP MOUNTING DETAILS The pump shall be vertically mounted on the control fluid tank. The pump base plate shall match the counter flange provided on the tank as shown in annexure-I, OR AS PER THE SKETCH FURNISHED BY BHEL ALONG WITH ENQUIRY/ORDER CONFIRMATION FOR THE SAME IS TO BE GIVEN BY THE SUPPLIER.		
			3.2 FLUID SPECIFICATIONS The fluid to be handled by the pump is a fire resistant fluid. The relevant properties of the fluid are as mentioned in Annexure-II.		
4.0 PUMP TYPE & RATING : 4.1 PUMP TYPE The control fluid pump shall be of vertical, multistage, centrifugal type suitable for pumping control fluid. The control fluid pump shall combine a low pressure and a high pressure pump on a single shaft. Each pump shall have its own discharge flow/pressure characteristics. The total fluid flow needed for the low pressure and high pressure circuits flows through the low pressure pump and a pressure is built up according to the discharge flow/pressure curve of this part of the pump. After this stage, a part of the low pressure fluid is extracted and the remaining fluid flows through the high pressure pump where the pressure increases according to the discharge flow/pressure curve of the high pressure pump. The final discharge pressure from high pressure pump is addition of the pressures generated in the two pump sections.			4.2 PUMP RATING The pump is required to operate normally at three duty points. The characteristics of both the pumps (low pressure and high pressure pumps) of Control fluid pump at		
			INVENTORY NO. P-5570		

INVENTORY NO. P. 5510	SIGN & DATE	SIGN & DATE
	14-11-94	
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**PRODUCT STANDARD
STEAM TURBINE ENGINEERING**

ST 39012

PAGE 3 OF 32

31

the working fluid temperature of 55°C shall be as per the data sheet attached with the enquiry /order. The same are to be confirmed by the supplier at the time of submitting their offer.

Contd....

SUPERSEDES OLD TRACING BY NEW TRACING
 UNDER THE SAME NO.
 CHANGE ADVICE NO. STE-94-405.
 NAME R.C.A. SIGN *[Signature]* DATE 16-10-94

REVISION 01

WORKED BY	उमेश कुमार हजरे	अग्र	21-10-94
CHECKED BY	शं-चं अग्रवाल	21-10-94	31.10.94

SIGN & DATE

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INVENTORY No.

P-5570



PRODUCT STANDARD
STEAM TURBINE ENGINEERING

ST 39012

PAGE 4 OF 32

5.0 MOTOR :

A suitable motor conforming to the pump requirement shall be supplied. The motor shall also meet other requirements as mentioned in Annexure-III.

6.0 DESIGN AND CONSTRUCTION OF PUMP :

6.1 All materials used in the construction of the pumps shall be selected from the range of materials most appropriately suitable for the purpose & service conditions. The bidder shall furnish along with bid the material specification for all the components to BHEL for their review and acceptance by BHEL/owner. BHEL/owner reserves the right to ask for changes in material. The size shall be standardised wherever possible so as to ensure interchangeability.

6.2 The materials of construction of the pumps shall be such as to resist corrosion and erosion and shall give a long trouble free service.

6.3 The lubrication of the pump bearing and gear coupling shall be arranged through a tapped connection on pump casing itself as shown in Annexure-I.

6.4 The design shall be such as to keep the friction loss and wear caused by end thrust, wear in mechanical seals and bearings and cavitation to the minimum. It should ensure long and trouble free service. All the rotating parts of the pump shall be balanced dynamically in assembled condition. The permissible level of vibration shall be according to VDI 2056 ^{or equivalent}. The noise level should not be more than 85 dba when measured at a distance of 1.5 m above floor and 1.0 m horizontally from equipment base plate.

REV-01

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P. 55-10

REV-01



PRODUCT STANDARD
STEAM TURBINE ENGINEERING

FORM

ST 39012

PAGE 5 OF 32

- 6.5 The pump bore and casing shall be capable of withstanding hydrostatic test pressure in line with para 9.2.4. 10.3.2 (e) [ⓑ]
- 6.6 Seals must comply with the following properties :
- a) Easy access and amenability for maintenance work.
 - b) No contamination of the medium from material abraded from the seals.
 - c) Minimum leakage losses with their controlled removal.
 - d) The material of seals should be resistant to fire resistant fluid (see Annexure-II - for properties of fire resistant fluid).
- 6.7 At suitable points on the components, erection eyes or lifting hooks shall be fitted for transport and erection. Their locations must be shown on the dimensional drawings.
- 6.8 Suitable thrust bearings shall be provided in the pumping set to take the thrust load of the pump & motor. The bearings shall be designed so as to assure 30,000 hours of continuous service.
- 6.9 The mechanical design shall allow easy access to parts for maintenance work to be carried out.
- 6.10 Both the discharge branches of the pump shall be taken out above the base plate by the supplier.
- 6.11 The pumps shall be provided with drainage and venting devices.
- 6.12 All system parts conveying fluid shall be of fluid resistant construction.
- 6.13 Compression type fittings are not permissible.
- 6.14 For pump running at subcritical speeds, it shall be ensured ^{minimum 15%} that the critical speed lies above the maximum speed attainable during operation. For pump running at



PRODUCT STANDARD

STEAM TURBINE ENGINEERING

ST 39012

PAGE 6 OF 32

31

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INVENTORY No.

P. 5510

REV-01

supercritical speeds, it shall be demonstrated that there is a difference of sufficient magnitude (not less than 15%), between the operating speed and the bordering critical speeds.

6.15 NAME PLATE BILINGUAL ©

Name plate identification marking shall be as follows in Hindi as well as in English languages.

- Type/Designation
- Manufacturer's name
- Manufacturer's works no.
- Year of manufacturing
- Purchase order no.
- High Pressure pump -
 - Volumetric flow (Litres/min.)
 - Discharge pressure (Bar/MWC)
- Low Pressure pump -
 - Volumetric flow (Litres/min.)
 - Discharge pressure (Bar/MWC).
- Operating Temp. (°C)
 - Max.
 - Min.
- Flow Medium
- Speed

7.0 COUPLING :

A suitable gear coupling shall be provided for coupling pump with motor and shall be designed to facilitate easy alignment and long trouble free service.

8.0 BASE PLATE, ANCHOR BOLTS, NUTS ETC. :

Necessary base plate, anchor bolts, nuts, sleeves and inserts shall be supplied by the supplier.



PRODUCT STANDARD
STEAM TURBINE ENGINEERING

ST 39012

PAGE 7 OF 32

31

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9.0 CLEANING, PAINTING, CONSERVATION & PACKING

The surface shall be cleaned & prepared for the application of the coatings by blasting with non-silicatic abrasive agents. The protective coating shall be fluid resistant to prevent contamination of fluid specified & to prevent the deterioration of the coating itself. The supplier shall give exact and precise details about the measures envisaged by him for surface protection, which shall be checked & approved by BHEL.

After testing the pump, its internals shall be thoroughly cleaned, dried and conserved before packing it. The pump shall be suitably packed for transportation. It should be packed such that it is safe at least for 2 years in a very damp and saline atmosphere.

Instructions should be issued regarding deconservation, reconservation and storage of package.

10.0 QUALITY ASSURANCE, INSPECTION & TESTING.

- a) The manufacturer shall conduct all the tests required to ensure that all the component parts of the control Fluid Pump offered conform to the requirements of the specification and are in compliance with requirements of applicable codes and standards.
- b) The bidder shall submit alongwith his offer, quality plan in the enclosed format.

INVENTORY No. P-5516		SIGN & DATE 11/10/00	COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED. It must not be used directly or indirectly in any way detrimental to the interest of the company.	SUPERSEDES INVENTORY No.	SIGN & DATE		PRODUCT STANDARD STEAM TURBINE ENGINEERING		FORM ST 39012 PAGE 8 OF 32
							31		
10.1 The particulars of the proposed shop tests and procedures for the test shall be submitted to BHEL/its customer for approval along with quality plan. 10.2 The material shall be despatched only after inspection and clearance of material by BHEL/its customer and approval of test certificates by BHEL/its customer. 10.3 An indicative programme of minimum tests and checks to be carried out on the control fluid pump as envisaged by BHEL are given below. This is however not intended to form a comprehensive testing programme as it is supplier's responsibility to prepare detailed quality plan, which should also include tests, checks carried out by supplier as a part of their normal practice. The Quality Plan is subject to the approval of BHEL/its customer and BHEL/its customer reserves the right to ask for any more checks at the time of quality plan finalisation. BHEL/its customer shall indicate customer hold points in approved Quality Plan beyond which work shall not proceed without the approval of BHEL. The supplier shall furnish his production plan and scheduled dates of testing atleast 3 months in advance to enable BHEL/its customer to plan for witnessing the tests, identified as customer hold points.									
REV-01									

SIGN & DATE	SIGN & DATE	INVENTORY No.	INVENTORY No.		PRODUCT STANDARD STEAM TURBINE ENGINEERING	ST 39012
						PAGE 9 OF 32
10.3.1 Testing of materials -The material of each component shall be tested as per relevant specification for its chemical composition & mechanical properties viz, Y.S., UTS, Impact, % elongation, % R.A. etc. Suitable NDT to ensure freedom from surface and subsurface defects shall be carried out. 10.3.2 Following tests shall be carried out during various stages of manufacture at manufacturer's Works : - Check for dimensions of all the component parts including surface finish, axial & radial runout of shaft etc. - All the component parts of the pump shall be subjected to visual examination. - Impeller shaft and casing shall be subjected to MPE/DPT to ensure freedom from harmful surface defects. Shaft shall be subjected to UT examination to ensure freedom from harmful internal defects. - Complete rotor shall be subjected to dynamic balancing as per ISO - 1940 or equivalent. - Casing shall be subjected to hydraulic test at 1.5 times the design pressure. - All the welding shall be carried out as per qualified procedures and welders as per ASME section IX. All the welding in rotating and load carrying parts shall be subjected to						

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SIGN & DATE

INVENTORY No.

REV-01

SIGN & DATE	INVENTORY No.		PRODUCT STANDARD STEAM TURBINE ENGINEERING	ST 39012
				PAGE 10 OF 32
SUPERSEDES INVENTORY No.		to RT and DPT to ensure freedom from harmful internal and surface defects. Other weldments shall be subjected to DPT/MPI.		
COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED. It must not be used directly or indirectly in any way detrimental to the interest of the company.		g) Pump shall be subjected to performance test as per DIN 1944 or ^b equivalent. During performance test noise and vibration level shall be measured. Performance test shall be carried out with contract motor.		
SIGN & DATE		h) Alignment checks for pump shaft and coupling shall be carried out.		
INVENTORY No.		i) Strip down examination after performance test shall be carried out and during strip down examination visual examination for wear ring clearance check, radial clearance and axial play of shaft, dimension/fitment of bearing housing, check for trueness of coupling and alignment shall be carried out.		
SIGN & DATE		j) Type and routine test of motor as per IS: 325-1978. ^a In addition to this degree of protection and noise level shall be carried out as type test and vibration measurement as routine test as per relevant IS.		
INVENTORY No.		k) Check for completeness after reassembly shall be carried out.		
SIGN & DATE		l) Check for painting and conservation shall be carried out.		
11.0 SPECIAL TOOLS & TACKLES				
One set of tools required for erection, operation and maintenance of the pumping sets shall be supplied together with each pump. List of these tools shall be				

SIGN & DATE			PRODUCT STANDARD STEAM TURBINE ENGINEERING	FORM
				ST 39012 PAGE 11 OF 32
SUPERSEDES INVENTORY No.		submitted alongwith the offer. 12.0 <u>SPARES</u> : The tenderer shall quote item wise price of the recommended spares for both pump & motor for three years and five years of operation respectively. 13.0 <u>GUARANTEE</u> : 13.1 The supplier shall guarantee trouble free and satisfactory operation of the equipment for a period of 18 months after the installation and commissioning or for a period of 36 months from the day the equipment is received by purchaser whichever occurs earlier. 13.2 The supplier shall guarantee the capacity, head and efficiency of the pump as per the tested characteristics with the control fluid. 13.3 If during erection and commissioning at site and operation during guarantee period, any deficiency in a part is detected, BHEL site representative shall prepare the assessment report and a copy of the same shall be forwarded to the supplier. The supplier shall replace/rectify the concerned items free of charge. The supplier, if he so desires, may depute his representatives to site at his own cost otherwise the findings of BHEL shall be final and binding on the supplier of pumping set. 13.4 The supplier shall repair/replace the defective parts at his own cost during the guarantee period. 14.0 <u>DOCUMENTS REQUIRED WITH THE TENDER PROPOSAL</u> : Following documents shall be supplied by the tenderer with his tender proposal. In the absence of any of which, the offer may not		
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SIGN & DATE		REV-01		



PRODUCT STANDARD
STEAM TURBINE ENGINEERING

ST 39012

PAGE 12 OF 32

37

SIGN & DATE

SUPERSEDES
INVENTORY No.

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SIGN & DATE

INVENTORY No.

P-5510

REV-01

be considered.

Examination of the pre-approval documents by BHEL shall not release the manufacturer and his sub-contractors, of their responsibilities. The approval documents shall form the basis for the order. No further changes shall be made without approval from BHEL.

- 14.1 Certified performance curves of both the pumps & control fluid pump (viz. Low pressure pump and high pressure pumps) at working fluid temperature of 20°C and 55°C.
 - (a) Discharge vs head
 - (b) Discharge vs power input
 - (c) Discharge vs efficiency
 - (d) Speed vs torque
- 14.2 Cross sectional assembly drawing of the pump with the bill of material.
- 14.3 Pump, motor assembly drawing giving important dimensions, base plate details, suction & discharge nozzle details, details of lubrication arrangement, lifting lugs/ eye bolts locations, mounting arrangement showing static and dynamic loading.
- 14.4 Data required as per enclosed blank data sheet (Annexure-VI).
- 14.5 Quality plan in the enclosed format along with all the reference documents, inhouse ^{test} Procedures etc. during the manufacture of the
- 14.6 Technical literature on the pumping set - Pumping set. under offer. The technical literature shall particularly include detailed description, Assembly and dismantling instructions and instructions for erection, operation, cleaning and maintenance of the pumping set.
- 14.7 Technical details/data of motor offered in line with Annexure-III. Detailed filled



PRODUCT STANDARD
STEAM TURBINE ENGINEERING

ST 39012

PAGE 13 OF 32

SIGN & DATE

SUPERSEDES
INVENTORY No.

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SIGN & DATE

INVENTORY No.

P-5510

up data sheets as per Annexure-IV shall be furnished after placement of the order.

15.0 DOCUMENTS TO BE SUPPLIED AFTER THE PLACEMENT OF ORDER :

Unless otherwise specified 15 copies and one reproducible each of the following documents duly approved by BHEL shall be furnished by the supplier within 12 weeks after the award of contract. BHEL's Customer name shall be indicated on the drawing/documents as per the instructions given in the Purchase Order.

- 15.1 General arrangement drawing, in line with para 14.3 above.
- 15.2 Cross sectional assembly drawing, with complete bill of materials.
- 15.3 Motor data as per enclosed format(Annexure IV).
- 15.4 Spare part list for both pump and motor.
- 15.5 Gear coupling details.
- 15.6 List of tools and tackles.
- 15.7 The static and dynamic loading details on support/foundation.
- 15.8 Operating instructions.
- 15.9 Cleaning and maintenance instructions
- 15.10 Assembly and dismantling instructions.
- 15.11 Instructions on deconservation and reconservations.
- 15.12 Model packing list.



PRODUCT STANDARD
STEAM TURBINE ENGINEERING

ST 39012

PAGE 14 OF 32

31

SIGN & DATE

SUPERSEDES
INVENTORY No.

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SIGN & DATE

INVENTORY No.

P-55/10

16.0 CERTIFICATES

Unless otherwise specified fifteen copies of following certificates in english language for each pumping set shall be supplied before the despatch of the equipment. The despatch clearance shall be given only after the approval of test certificates as is indicated 10.20 above.

16.1 Material test certificate for tests conducted as per clause 10.3.1 above ^{for} the main component parts such as impeller, casing, shaft, casing bolts, wear rings, pressure pipes, tooth type gear coupling, bearing supports, stuffing box, packing, mechanical seal etc.

16.2 Hydraulic test certificate.

16.3 Performance test reports and curves. Noise and vibration level report.

16.4 Type and routine reports of motor.

16.5 For all other tests/checks as is indicated in Quality Plan and is carried out by bidder as his usual practice.

16.6 Shipping documents.

16.7 Guarantee certificates: Approval of test certificates by BHEL/its customer shall not relieve bidder of his responsibility and guarantee of satisfactory performance for the stipulated period.

17.0 MISCELLANEOUS

The tenderer can make suitable offer even if there are minor deviations which do not affect the efficient functioning of the equipment. However, the deviations must be clearly spelled out in the offer, which can be incorporated in supply if duly approved by BHEL/Owner.

Failure to do so shall render the supplier responsible for all consequences in the event of placement of an order.

REV-01



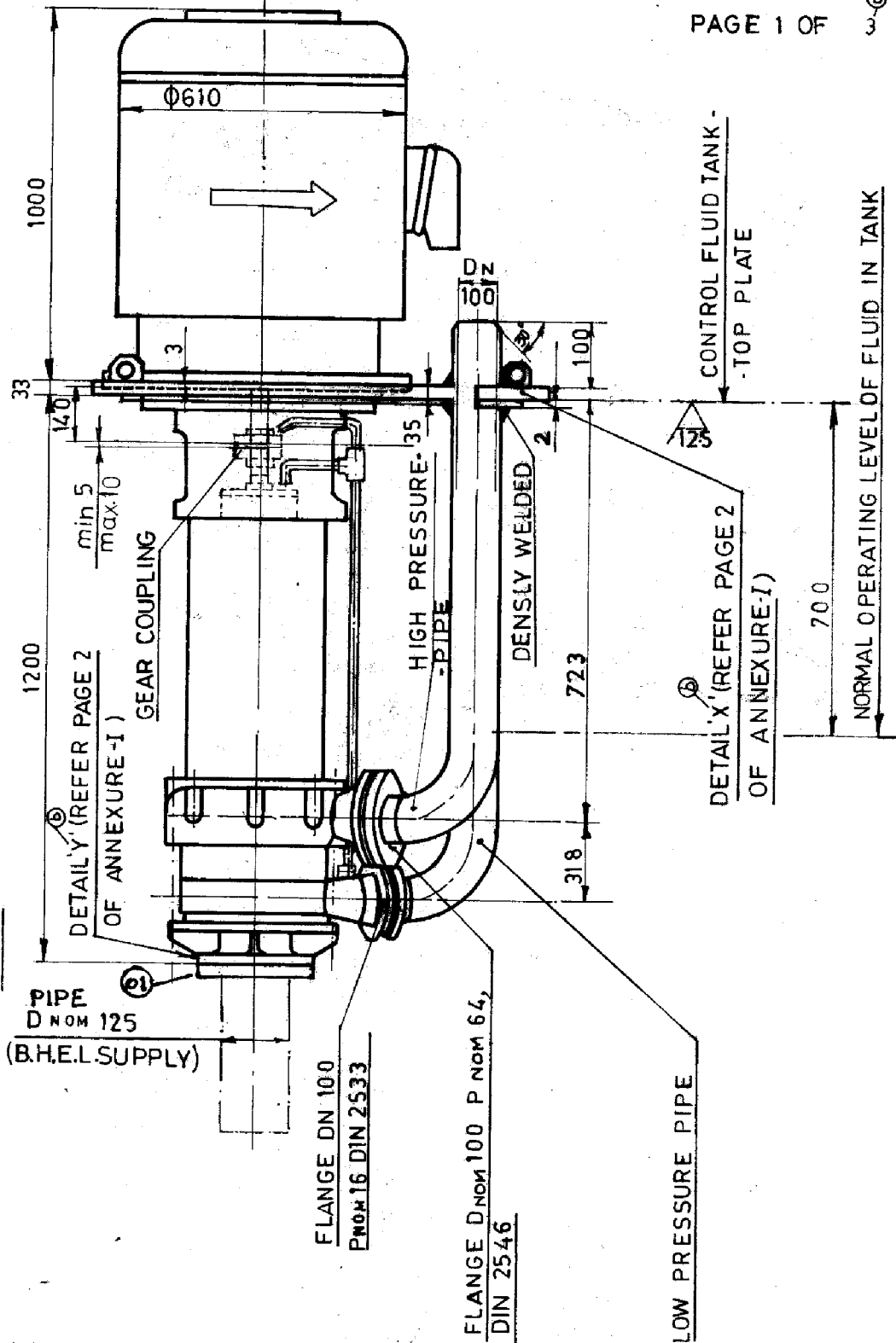
PRODUCT STANDARD

STEAM TURBINE ENGINEERING

ST 39012

PAGE 15 OF 32

ANNEXURE I
PAGE 1 OF 3



REV-01

SIGN & DATE

SUPERSEDES
INVENTORY No.

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SIGN & DATE

INVENTORY No.
P. 5510

PRODUCT STANDARD
STEAM TURBINE ENGINEERING

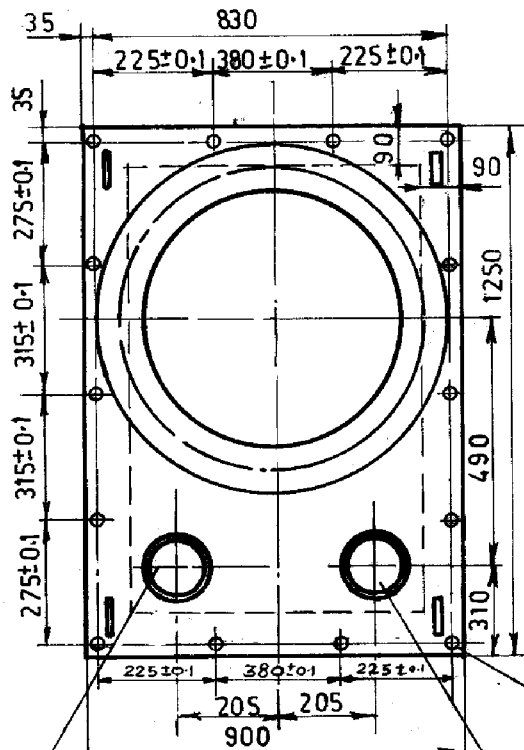
FORM

ST 39012

PAGE 16 OF 32

ANNEXUR I
PAGE 2 OF 3

31

HIGH PRESSURE PIPE $\phi 114.3 \times 8.8$ 

NOTE :-

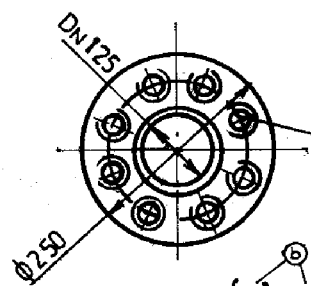
ANY DEVIATION FROM
THE DIMENSIONS MENTIONED
ON BOTH PAGES OF ANNEX-
-URE-I SHOULD BE CLEARLY
SPELLED OUT BY THE
SUPPLIER AT THE TIME
OF OFFER.

14 HOLES $\phi 18$

DETAIL 'X', 90° TURNED (CLOCK WISE)
(PUMP BASE PLATE)

LOW PRESSURE PIPE $\phi 114.3 \times 4$

VAR 00



8 HOLES M16 ON PCD 210

DETAIL 'Y', VAR 00
(FLANGE DIN 2533 PN16)

REMARK:- APPLICABLE ONLY FOR SINGRAULI,
KORBA, & RAMAGUNDAM 500MW TG SETS.
FOR FUTURE SETS. REFER NEW SHEET 17.

REV - 01

AGREED By STE(TL) - *SmSanka* 7-3-84

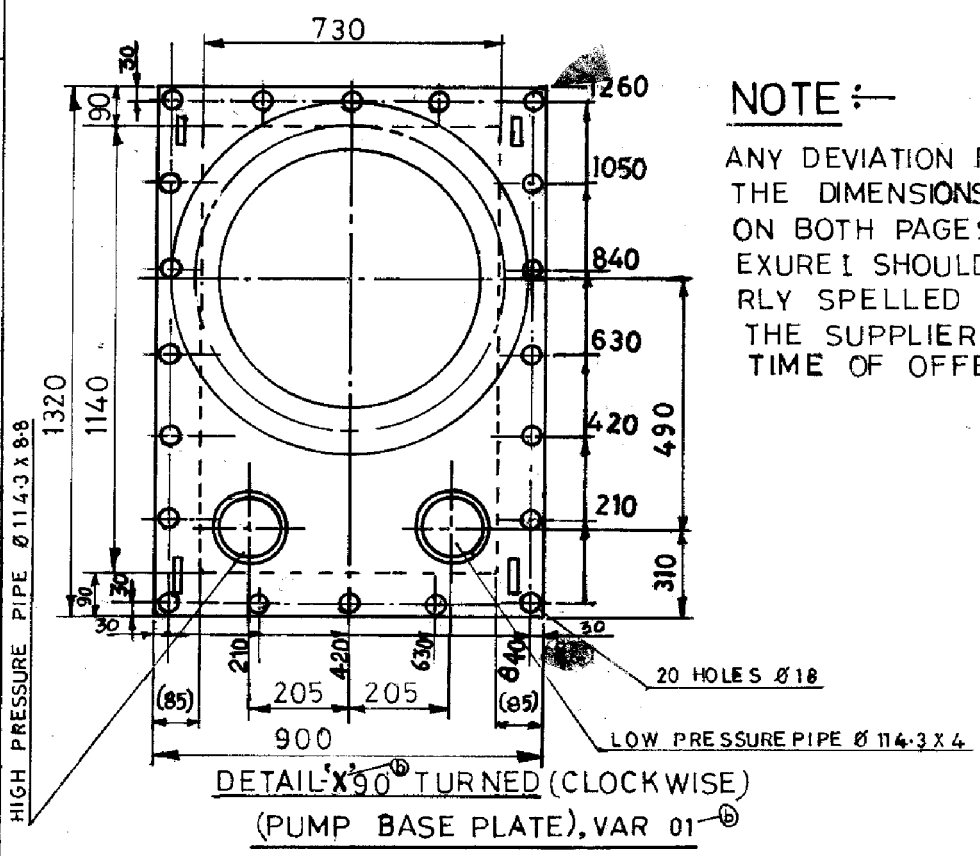
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P-5510	7.1.87	4-11925-75101	
SUPERSEDES INVENTORY No.	SIGN & DATE		



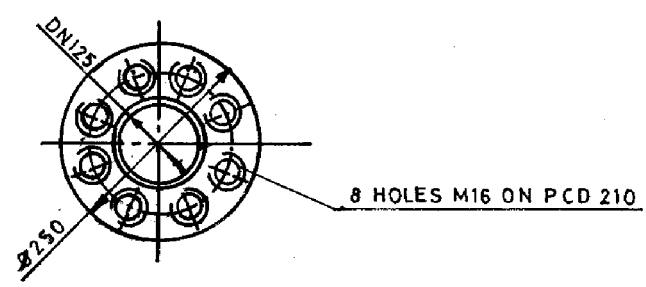
PRODUCT STANDARD
STEAM TURBINE ENGINEERING

FORM
ST 39012
PAGE 17 OF 3231

ANNEXUR 1
PAGE 3 OF 3



NOTE :-
ANY DEVIATION FROM THE DIMENSIONS MENTIONED ON BOTH PAGES OF ANNEXURE I SHOULD BE CLEARLY SPELLED OUT BY THE SUPPLIER AT THE TIME OF OFFER.



DETAIL 'Y', VAR 00
(FLANGE DIN 2533 PN16)

REV-01

AGREED BY S.T.E (T.L.) - *Sign* 7.1.87

WORKING FLUID SPECIFICATION

1. KINEMATIC VISCOSITY

- | | |
|--------------------------------------|---|
| at 55°C | 21 mm ² /sec. |
| at 40°C |) (Min) - 33 mm ² /sec.
) (Max.) - 48 mm ² /sec. |
| at 20°C |) (Min) - 115 mm ² /sec.
) (Max.) - 210 mm ² /sec. |
| 2. <u>DENSITY</u> | |
| at 55°C | - 1.11 gm/cm ³ |
| at 20°C | - 1.136 gm/cm ³ |
| 3. Flash point | 235°C Min. |
| 4. Autoignition point | 500°C Min |
| 5. Pour Point | -18°C |
| 6. Water content | Max. 0.1% (By weight) |
| 7. Neutralisation No. | Max. 0.1 mg KOH/gm |
| 8. Chlorine content | 50 PPM (Max.) |
| 9. Air release property at 50°C | 5 minutes (Max.) |
| 10. Filtration class as per SAE A-6D | Class 6 |

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INVENTORY No.

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REV-01

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		PRODUCT STANDARD STEAM TURBINE ENGINEERING				FORM ST 39012 PAGE 19 OF 323	
<u>MOTOR - REQUIREMENTS</u> Annexure III Page 1 OF 4							
1.0		A suitable motor conforming to the pump requirements shall be supplied. The motor shall also meet the following requirements broadly. The motor shall conform to IS: 4722, IS: 325, IS: 2253, IS: 2254, IS: 4039 and IS: 3202, or equivalent BS: specifications. The motor shall match the requirements of the driven equipment in all respects. The motor shall meet all Indian statutory requirements.					
2.0		<u>APPLICATION</u> To drive control fluid pump for supplying fluid to the governing elements.					
3.0		<u>TYPE OF MOTOR</u> Squirrel cage, induction motor.					
3.1		KW rating of the motor should be the maximum of the following three conditions:					
3.1.1		It shall have atleast 15% reserve capacity than required to drive the pump when it is discharging maximum quantity at a viscosity corresponding to 50°C temperature.					
3.1.2		It shall have at least 5 % reserve capacity than required to drive the pump when it is discharging maximum quantity at a viscosity corresponding to 35°C temperature.					
3.1.3		It shall have at least 5 % reserve capacity than required to drive the pump when it is discharging 70% of maximum quantity at a viscosity corresponding to 20°C Temperature. Finally supplier shall furnish the KW rating at an ambient temperature of 50°C.					
3.2		KW actually required : Pump capacity. by driven equipment under specified operation/startup conditions.					
3.3		Rated Voltage : 415 V Frequency : 50 Hz					

REV-01

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SUPERSEDES
INVENTORY No.

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SIGN & DATE

INVENTORY No.



PRODUCT STANDARD
STEAM TURBINE ENGINEERING

ST 39012

PAGE 20 OF 2234

Annexure III

Page 2 OF 4

- 3.4 Permissible voltage and frequency variation under normal running condition. : $\pm 10\%$ Volt.
: $\pm 5\%$ frequency
- 3.5 Combined variation : 10 % (SUM OF ABSOLUTE VALUES)
- 3.6 Min. voltage required under starting conditions to bring driven equipment up to rated speed. : 80% rated
- 3.7 No. of phases : 3 ϕ
- 3.8 Type of duty : Continuous
- 3.9 Full load speed : It shall be commensurate with pump speed as per design.
- 3.10 Full load current : As per design
- 3.11 Starting current : Not to exceed 600% of I rated. (Subject to 1S tolerance)
- 3.12 Starting torque : 1.3 (Min) of rated torque.
- 3.13 Break down torque : 2.05 times (min) of rated value.
- 3.14 Efficiency at full load : 90 % (Min)
- 3.15 Power factor at full load : 0.85 (Min)
- 3.16 Motor shall be designed to withstand the voltage and torque stresses developed due to the difference between the motor residual voltage and incoming supply voltage equal to 150% of the rated motor voltage during fast changeover of buses.
- 4.0 STARTING DATA
- 4.1 Starting : Suitable for DOL starting
- 4.2 Acceleration time with full load connected. : 3.5 $\pm$ 0.5 Secs.
Min. locked rotor with-stand time under hot conditions at highest voltage: 2.5 sec. more than starting time.
- 4.3 Permissible starting duty cycle, No. of starts. : 3 Starts equally spread over an hour & 2 consecutive starts from hot condition without any injurious heating to the winding.

REV-01

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INVENTORY No.

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SIGN & DATE

INVENTORY No.



PRODUCT STANDARD
STEAM TURBINE ENGINEERING

ST 39012

PAGE 21 OF 32-34

Annexure III
Page 3 OF 4

- 4.4 Overload (% of full load): Motor shall be capable of running at full load at 80% of rated voltage for five minutes and 70% of rated voltage for 1 sec. that can be carried by motor without impairing over-all performance and period for which this overload is applicable.
- 4.5 Location : Indoor
- 4.6 Class of Insulation : Class - F, Fungus resistant, Tropicalised as per IS: 3202, with temp. rise limited to 70°C over ambient of 50°C.
- 4.7 Shaft disposition mounting : Vertical / flange mounted
- 4.8 Method of connections driven equipment. : Flange flexible coupling
- 4.9 Direction of rotation and corresponding terminal designation. : To suit pump
- 4.10 Enclosure and ventilation: Totally enclosed, fan cooled, IP-55
- 4.11 Bearing : Thrust bearing, minimum standard life not less than 30000 working hrs
- 4.12 Grounding device : Suitable arrangement shall be provided for earthing the motor at two separate and distinct connection points. Design of earthing conductor shall be as per IS: 4722-1992.
- 4.13 Terminal connectors for stator leads type and No. : 6, Neutral shall be connected externally in the terminal box.
- 4.14 Terminal box : To be provided with double compression gland for aluminium cable.
- 4.15 Whether phases segregated : No
- 4.16 Space heater : To be provided
- 4.17 Rated voltage : 240 Volts
- 4.18 Motor shall be provided with paint suitable for the working conditions. (Material, thickness, colour as specified.)
- 4.19 Following tests shall be carried out:
- Type and routine tests as per IS: 4722.
- Following additional tests shall also be carried out:

SIGN & DATE	SIGN & DATE	INVENTORY No.	INVENTORY No.		PRODUCT STANDARD STEAM TURBINE ENGINEERING	ST 39012
						PAGE 22 OF 3234 Annexure III Page 4 OF 4
SUPERSEDES INVENTORY No.				(1) <u>TYPE TESTS</u> (a) Measurement of Noise Level as per IS 12065. [Ⓢ] (b) Degree of protection test to conform to the specified degree of protection.		
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				5.0 <u>SPECIAL REQUIREMENTS</u> 5.1 Separate terminal box and space heaters shall be provided. The motor shall be suitable to operate in an environment of oil fumes. 5.2 The motor shall be rewoundable. 5.3 The motor shall have on line greasing facility. 5.4 The motor construction shall be suitable for easy disassembly and reassembly. 5.5 The terminal box shall be suitable for top and bottom entry of cables and shall be suitable for PVC insulated, PVC sheathed armoured aluminium cables. It shall be capable of being rotated through 180° in steps of 90°. It shall be able to withstand a fault level of 45 KA for 0.12 sec, degree of protection IP-55. [Ⓢ]		
				6.0 Documents : Ⓢ Motor data sheets and documents as per Annexure - IV shall be furnished with the offer. Final data sheet & documents shall be subject to BHEL approval after placement of purchase order.		
INVENTORY No.	SIGN & DATE	INVENTORY No.	SIGN & DATE			

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		PRODUCT STANDARD STEAM TURBINE ENGINEERING				FORM ST 30012		PAGE 29 OF 32	
DATA SHEET FOR AC-MOTOR						ANNEXURE - IV SHEET 01 OF 04			
1. GENERAL									
i) Vendor document no. and revision no./date						_____			
ii) Project						_____			
iii) Customer						_____			
iv) BHEL- P.O. no. and date						_____			
v) Manufacturer						_____			
vi) Equipment driven by motor						_____			
vii) Motor type						_____			
2. DESIGN AND PERFORMANCE DATA									
i) Frame size						_____			
ii) Type of duty						_____			
iii) Type of enclosure						_____			
iv) Type of cooling (IC)						_____			
v) Applicable standard to which motor conforms						_____			
vi) Enclosure degree of protection (IP)						_____			
vii) Type of mounting						_____			
viii) Direction of rotation as viewed from non-driving end						_____			
ix) KW rating at 50°C of ambient temp.						_____			
x) Rated voltage (volts)						_____			
xi) Rated frequency (Hz)						_____			
REV-01 		SUPERSEDES OLD SHEET UNDER C/A NO. 576/01/MS				WORKED BY SCV		1.5.01	
P-5510		CHECKED BY V. KUMAR				1.5.01			

SIGN & DATE		FORM	
INVENTORY NO.	SIGN & DATE	 PRODUCT STANDARD STEAM TURBINE ENGINEERING	ST 39012
		PAGE 24 OF 32 ANNEXURE - IV SHEET 02 OF 04	
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INVENTORY NO. P-5510 SIGN & DATE 12/5/01	WORKED BY SCV 1.5.01 CHECKED BY V. K. K. M. A. 1.5.01		

SIGN & DATE	INVENTORY NO.		PRODUCT STANDARD		ST 39012
			STEAM TURBINE ENGINEERING		PAGE 25 OF 32
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			SHEET 03 OF 04		
xxii) Stator winding resistance per phase (ohms)			_____		
xxiii) Flywheel moment (GD^2) of motor (Kg-m ²)			_____		
3. CONSTRUCTIONAL FEATURE :					
i) STATOR WINDING INSULATION:					
a. Class			_____		
b. Tropicalised (yes / no)			_____		
c. Temperature rise over specified ambient of 50°C, max 70°C (yes / no)			_____		
d. Method of temp. measurement			_____		
e. Stator winding connection			_____		
f. Number of terminals brought out			_____		
ii) FOR SPACE HEATER:					
a. Type of terminal box and degree of protection			_____		
b. No. of space heaters			_____		
c. Location			_____		
d. Rated voltage & power			_____		
e. Double compression cable glands with lugs provided (yes / no)			_____		
f. Suitable for cable size			_____		
iii) FOR MAIN TERMINAL BOX :					
a. Type of terminal box & degree of protection			_____		
b. Double compression cable glands & lugs provided (yes / no)			_____		
c. Suitable for cable size			_____		
d. Terminal box capable of being rotated through 180° in steps of 90° (yes / no)			_____		
e. Fault level (KA , sec.)			_____		
① REV-01 SUPERSEDES OLD SHEET UNDER C/A NO. STE/01/103			WORKED BY SCV 1.5.01 CHECKED BY V.KUMAR 1.5.01		

INVENTORY NO. SIGN & DATE

P-5510 12/5/01

SIGN & DATE

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INVENTORY NO.

SIGN & DATE

P-5510 1-15-01



PRODUCT STANDARD

STEAM TURBINE ENGINEERING

FORM 2

ST 39012

PAGE 26 OF 26

ANNEXURE - IV 3/
SHEET 04 OF 04

iv) BEARINGS :

- a. Type (at DE / NDE)
- b. Make
- c. Recommended lubricant
- d. Life

v) Starting suitable for :

- a. DOL only (yes / no)
- b. DOL as well as star-delta (yes / no)

vi) Total weight of motor (Kg) :

4. i) Noise level :

ii) Vibration level :

iii) Paint materials, thickness, colour :

Note : Supplier / vendor shall get the confirmation
about paint from BHEL before manufacturing of motor.

5. DOCUMENTS :

- i) Motor GA / dimensional
drawings including terminal boxes

drg.no. :-

ii) CURVES AT RATED VOLTAGE :

- a. Starting current -vs- time curve
- b. Speed -vs- starting time curve
- c. Torque -vs- speed curve
- d. Speed -vs- current curve
- e. Thermal withstand curve for
hot and cold conditions.

drg. no. :-

drg.no. :-

drg.no. :-

drg.no. :-

drg. no. :-

① REV-01

SUPERSEDES OLD SHEET
UNDER C/A NO. 876/01/189

WORKED BY

ECV

1.5.01

CHECKED BY

V. KUMAR

1.5.01

INVENTORY No. P-5510	SIGN & DATE	COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED. It must not be used directly or indirectly in any way detrimental to the interest of the company.		SUPERSEDES INVENTORY No.	SIGN & DATE
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ANNEXURE-V
PAGE 1 OF 2

QUALITY CHECK PLAN

PRODUCT STANDARD
STEAM TURBINE ENGINEERING

FORM
ST 30012
PAGE 1 OF 32

Sl. No.	Operation	Characteristics	Type of Check	Quantum of Check	Reference Document	Acceptance Norm	Format of Record	Agency
1	Material checking	Chemical composition and mechanical properties as per relevant standard.	Testing	100%				
2	Dimensional checking	Visual and dimensional check including fits and tolerances, axial and radial runout of rotors.	Measurement	100%				
3	N.D.T.	Check shaft and impeller for surface/subsurface defects.	N.D.T.	100%				
4	Balancing	Dynamic balancing of all rotating parts in assembled condition.	Measurement	100%				
5	Hyd. Test	Hydrostatic pressure test of casing.	Testing	100%				
6	-	Direction of rotation of pump.	Visual					
7	Performance Test	Performance test including noise and vibration level.	Testing	100%				
8	Strip down Test	Open the end cover without dismantling the impeller. Check	Visual & measurement	100%				

REV-01

QAX Deptt : S.S. Chauhan
7/3/84

INVENTORY No. <i>P. 5510</i>	SIGN & DATE	COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED. It must not be used directly or indirectly in any way detrimental to the interest of the company.	SUPERSEDES INVENTORY No.	SIGN & DATE

REV-01

QUALITY CHECK PLAN

ANNEXURE-V
PAGE 2 OF 2



PRODUCT STANDARD
STEAM TURBINE ENGINEERING

FORM

ST *39012*
PAGE 28 OF 32

Sl	Operation	Characteristics	Type of Check	Quantum of Check	Reference Document	Acceptance Norm	Format of Record	Agency
----	-----------	-----------------	---------------	------------------	--------------------	-----------------	------------------	--------

the condition of the bearings. After reassembly, check the mechanical clearance and axial play of the shaft.

9. Conservation and Packing Visual 100%

After testing of pump, all internal/external surfaces shall be thoroughly cleaned, dried and conserved. All metallic surfaces except bright parts exposed to weather shall be given a suitable priming coat and then two coats of approved paints.

Ensure packing of all items in water and dust proof packages. The packages shall be sufficiently strong to safe guard against any damage during transit.

10. Motor Type and routine tests Testing 100%

as per relevant standards of Motor.

11. Certification Visual 100%

Completeness & correctness of test certificates as per purchase specification.

QAX Deptt: S.S. Chaurhan *S.S. Chaurhan*
7.5.84

SIGN & DATE	SIGNATURE	INVENTORY No.	P-5570		PRODUCT STANDARD STEAM TURBINE ENGINEERING	ST 39012	①
						PAGE 29 OF 32	31
ANNEXURE-VI PAGE 1 OF 3							
DATA TO BE FURNISHED BY BIDDER ALONG WITH BID FOR CONTROL FLUID PUMP							
1.0 Equipment and Service offered. Please state whether the following equipment service as specified in the data sheets are offered or not.							
1.1 Pump as per specification Yes/No 1.2 Motor Yes/No 1.3 Necessary instruments, test connections Yes/No 1.4 Base plate as per org. Yes/No 1.5 Companion flanges Yes/No 1.6 Spare parts Yes/No 1.7 Maintenance and special erection tools. Yes/No 1.8 Commissioning of the set Yes/No							
2.0 Design and Performance							
2.1 Rated capacity of each pump $M^3/hr.$							
2.2 Discharge head at rated capacity.							
2.3 Maximum discharge							
2.4 Minimum discharge pressure corresponding to maximum flow.							
2.5 Shut off head							
2.6 Performance guaranteed when installed as per given arrangement. Yes/No							
2.7 Pump b.h.p./kw at rated capacity.							
2.8 Maxn. allowable suction lift (for minimum NPSH required).							
2.9 Efficiency.							
② { 2.10 Rated speed (S^{-1}) 2.11 Rated power requirement (kw) 2.12 Installed actual power (kw)							

High Pr. Low Pr.
Pump Pump

SIGN & DATE

SUPERSEDES
INVENTORY No.

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SIGN & DATE

INVENTORY No.

P-5570

PRODUCT STANDARD
STEAM TURBINE ENGINEERING

FORM

ST 39012

PAGE 30 OF 32
ANNEXURE-VI
PAGE 2 OF 33.0 Material of construction

(TO BE CORRELATED WITH CROSS SECTIONAL DRAWING) ⑥

3.1 Casing

3.2 Impeller ⑥

b) GUIDE WHEEL

3.3 Base plate

3.4 Wearing rings

3.5 Shaft

3.6 Stuffing box

3.7 Packing

3.8 Mechanical seal

4.0 Connection

4.1 Suction size

4.2 Discharge size

5.0 Drawings.5.1 General arrangement and
sectional drgs. enclosed
with offer.

Yes/No

6.0 Weight Schedule

6.1 Weight of pump

6.2 Weight of motor

6.3 Weight of pump with
motor and base frame

7.0 Characteristic curves

7.1 CHARACTERISTIC OF TORQUE

7.2 7.1 Power consumption/
discharge pressure7.3 7.2 Discharge quantity/
pressure a) LOW PRESSURE PUMP
b) HIGH PRESSURE PUMP

7.4 7.3 Discharge efficiency

7.5 MOMENT OF INERTIA

8.0 any deviation taken
against specification

Yes/No

9.0 Deviations taken as
mentioned here.

REV-01

INVENTORY NO.	P-5570	SIGN & DATE	14/11/94
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SUPERSEDES INVENTORY NO.		SIGN & DATE	



PRODUCT STANDARD
STEAM TURBINE ENGINEERING

ST 39012

PAGE 31 OF 32 34

ANNEXURE-VI
PAGE 3 OF 3

10.0 Construction features

- 10.1 Type of pump
- 10.2 Number of stages
- 10.3 Type of impeller
- 10.4 Type of stuffing box sealing offered.
- 10.5 Type of coupling offered
 - (a) Make
 - (b) Type
- 10.6 Type of bearing and lubrication.
- 10.7 Impeller diameter (mm)
 - (a) First stage
 - (b) Second stage
- 10.8 Manufacturer
- 10.9 Design of temperature:
- 10.10 Self priming
- 10.11 Number of Rotor Rows:
- 10.12 Assly. DIM (MM)
- 10.13 Plate for the tank:
- 10.14 Intermediate bearing
- 10.15 Position of casing joint to shaft
- 10.16 Coating
 - (a) Out side
 - (b) Inside
- 10.17 Rating Plate in english

YES/NO

YES/NO

Axial /Radial

YES/NO

11.0 Lubrication

- (a) Type of Lubricant
- (b) Quantity
- (c) Interval of its use.

REVISION -01

WORKED BY	372 [Signature]	24.10.94
CHECKED BY	272 [Signature]	27.10.94

SUPERSEDES OLD TRACING PAGE 33 BY
 NEW TRACING PAGE 34 UNDER THE SAME
 DOCUMENT NO.
 CHANGE ADVICE NO. STE-94-485.
 NAME R.C.A. SIGN. DATE 10.9.94

Drawing No. - 4 18101 E6 005		REV. NO.-00 DATE- 13.06.2016
APPLICATION : C.F. PUMPS FOR STEAM TURBINE ITEM : MOTORS (AC)		
<u>ADDENDUM TO ST39012:</u> <i>Following additional specifications shall be complied to:-</i> - In addition to clause no.-4.14 at page –21 of 32 (Annexure –III) of ST39012:- - Motor Terminal box- fault level shall be 45 KA (rms) 1 second for 415V- AC system. - Cable glands shall be Nickel-Chromium plated brass, heavy duty, double compression type, confirming to BS:6121 with lugs. - The sizes of cables for glands are 1x3Cx300 mm² (AL). - In addition to clause no.-4.11 at page – 21 of 32 (Annexure-III) of ST39012:- Motor bearing shall be selected to take care of the Vertical/Axial thrust of the motor. - Paint shade shall be as per “RAL 7032”. - Reports of type tests shall be those conducted within last five years and shall be furnished along with motor data sheets. Test tests report shall be as per IS 325/ IEC60034. - Motor data sheets & other documents shall bear the “Document no.” , “Revision no.”. & “Date” and shall be subject to BHEL/customer approval. Motor data sheet shall also include Electrical terminal box details, dimensional General arrangement drawings & characteristic curves as per IEC60034. Following characteristic curves shall also be submitted after PO -1. Thermal withstand curves HOT & COLD, 2. Starting & speed torque characteristics at 80% & 100% voltage. - LT motors shall be energy Efficient motors, energy efficient level IE3 as per IS12615 – 2011 / IEC:60034-30. - For LT motors, the applicable starting current shall be limited to 7.2 times of full load current including all tolerance. - The space heater (if any)shall be rated 240 V, 1 phase 50 Hz and sized to maintain the motor internal temperature above dew point when the motor is idle.		
Sd/- (Nirbhay Kumar) Prepared & Checked by		Sd/- (Vinod kumar) Approved by

00091-42611-3

DRAWING No.

TABLE : —

1. LOW PRESSURE PUMP.			DISCHARGE PRESSURE AT THE EXTRACTION AFTER L.P. PUMP SECTION (bar)	DISCHARGE FLOW AT THE EXTRACTION AFTER L.P. PUMP SECTION (dm ³ /Sec)
SL.NO.	OPERATING POINT	TOTAL FLOW THROUGH L.P. PUMP SECTION(dm ³ /Sec)		
01	I	7.60+6.16=13.76	11.5 (REFER NOTE-1)	7.60
02	II	20.60+6.16=26.76	10.8	20.60
03	III	7.60+16.16=23.76	10.0 	7.60
2. HIGH PRESSURE PUMP.				
SL.NO.	OPERATING POINT	DISCHARGE FLOW THROUGH H.P.PUMP SECTION(dm ³ /Sec)	PRESSURE INCREASE THROUGH H.P. PUMP SECTION (bar)	FINAL DISCHARGE PRESSURE AFTER H.P. PUMP SECTION (bar)
01	I	6.16	27	38.5
02	II	6.16	27	37.8
03	III	16.16	21	31.0 

2. FLUID TO BE HANDLED
- BY THE PUMP:
- FIRE RESISTANT FLUID. PROPERTIES OF FLUID AS PER ANNEXURE-II OF ST 39012.
3. PUMP CHARACTERISTICS : AS PER TABLE.
4. ALL OTHER TECHNICAL REQUIREMENTS OF CONTROL FLUID PUMP MOTOR SET NOT SPECIFIED HERE SHALL BE AS PER ST 39012.
5. ALL THE TECHNICAL DATA REQUIRED AS PER ST 39012 FOR THE OFFERED PUMP MOTOR SET SHALL BE FURNISHED BY THE SUPPLIER AT THE TIME OF SUBMISSION OF OFFER.

THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETERIMENTAL TO THE INTEREST OF THE COMPANY.

31192425000

Ref.Drawing No>

Sign & Date

Inventory No

C.B.O.M. No.				STATUS OF DRG	
AGREED DEPT	NAME	SIGN	DATE		
GRADE OF UNTOL. DIM					
M/C.G. AA0230208 m					
WELDING CLASS 'B' OF AA0621104					
GAS CUTTING TABLE 3 OF AA0621104					
REV	DATE	REV	DATE	REV	DATE
ALTERED		ALTERED		ALTERED M.S.Bisht-sd-	
CHECKED		CHECKED		CHECKED V.Molhotra-sd-	
				01	27.05.06
				CHANGES ARE INCORPORATED AS PER C/ADV. NO. STE-06-F0110	
TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT				STEAM TURBINE	
 BHARAT HEAVY ELECTRICALS LTD. RANIPUR, HARDWAR				DRN	NAME
				U. VERMA	SIGN
				CHD	DATE
				VIKAS	NO. OF VAR
				Appd	NO. OF ITEMS
DEPT STE				R.C.A.	73 74
CODE 4011					
SCALE N.T.S.					
WEIGHT (KG)					
REF. TO ASSY. DRG.					
ITEM No.					
NO. OF					
DRAWING NO.					
3-11924-16000					
SHEET No. 1					
No. OF SHEETS 1					

NOTE : — 1. SHUT OFF HEAD OF L.P. PUMP SHOULD NOT EXCEED A VALUE OF 13 BAR.

ev ate

S L S F C N S L F C F P P

SI No	Document	Remarks
Documents to be submitted for B L approval prior to manufacturing		
1.	Datasheet of CF Pump	STE-TG
2.	Pump characteristics curves (HP & LP stages)	STE-TG
3.	Pump Cross-sectional drawing & Bill of material/Part list	STE-TG
4.	General Arrangement drawing of CF pump	STE-TG
5	Datasheet of CF Pump motor	CIE
6	Motor -GA drawing & Characteristics	CIE
7	Motor Electrical Connection diagram	CIE
8	Motor Type Test reports /Certificates	CIE

Notes

The vendor to submit the documents within 10 weeks from the date of placement of purchase order

While submitting the documents the vendor to clearly mention the exceptions for the documents already approved earlier by B L

MANUFACTURER'S NAME AND ADDRESS			QUALITY PLAN				TO BE FILLED BY BHEL		TO BE FILLED BY BHEL			
BHEL	VENDOR'S NAME	ITEM			QP NO.							
				REV								
		DRG. NO.	AS PER PO									
		SPEC.	AS PER PO									
		REV				Page 1 of 1						
SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORDS	AGENCY			REMARKS
									M	B	N	
1	2	3	4	5	6	7	8	9	D	10		11

MANUFACTURER/SUBCONTRACTOR		LEGEND:	FOR CUSTOMER USE	APPROVED BY
		! RECORDS IDENTIFIED WITH 'TICK' SHALL BE ESSENTIALLY INCLUDED BY CONTRACTOR IN QA DOCUMENTATION.		
		M: MANUFACTURER / SUBCONTRACTOR B: BHEL / NOM. INSPECTION AGENCY N: CUSTOMER INDICATE 'P' PERFORM 'W' WITNESS AND 'V' VERIFICATION ALL 'W' INDICATED IN COLUMN 'N' SHALL BE 'CHP' OF CUSTOMER		

BANK GUARANTEE BOND**WAM 28**

(Paragraph 4.9.6 of – Works Accounts Manual)

1. In consideration of the Bharat Heavy Electricals Limited, Siri Fort, New Delhi through HEEP Hardwar Division (hereinafter called 'the Company') having agreed to exempt _____ (hereafter called 'the said Contractor' which term includes 'Suppliers' for the purpose of this Bond) from the demand under the terms and conditions of an Agreement dt. _____ made between _____ and _____ for (hereafter called 'the said Agreement') of Security Deposit for the due fulfillment by the said Contractor of the terms and conditions contained in the said Agreement, on production of a Bank Guarantee for Rs. _____ (Rupees _____ only) we,

(Indicate the name of the Bank)
(hereinafter referred to as 'the Bank') at the request of _____

Contractor(s) do hereby undertake to pay to the Company an amount not exceeding Rs. _____ against any loss or damage caused to or suffered or would be caused to or suffered by the Company by reason of any breach by the said Contractor(s) of any of the terms and conditions contained in the said Agreement.

2. We, _____ do hereby undertake
(indicate the name of the Bank)
to pay the amounts due and payable under this guarantee without any demur, merely on a demand from the Company stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the Company by reason of breach by the said Contractor(s), of any of the terms or conditions contained in the said Agreement or by reason of the contractor(s), failure to perform the said Agreement. 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. _____.

3. We undertake to pay to the Company any money so demanded notwithstanding any dispute or disputes raised by the Contractor(s) in any suit or proceeding pending before any Court or Tribunal relating thereto our liability under this present being absolute and unequivocal.

The payment so made by us under this bond shall be valid discharge of our liability for payment thereunder and the Contractor(s) shall have no claim against us for making such payment.

4. We _____ further agree that the Guarantee
(Indicate the name of the bank)

herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Agreement and that it shall continue to be enforceable till all the due of the Company under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till _____ Office / Department / Division of Bharat Heavy Electricals Limited certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said contractor(s) and accordingly discharges this guarantee. Unless a demand or claim under this guarantee is made on us in writing on or before the _____, we shall be discharged from all the liability under this guarantee there after.

5. We, _____, further agree with the company that
(Indicate the name of the bank)

the Company 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 Agreement or to extend time to performance by the said contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the company against the said contractor(s) and to forbear or enforce any of the terms and conditions relating to the said Agreement and we shall not be relieved from our liability by any reason of any such variation or extension being granted to the said contractor(s) or for any forbearance, act or omission on the part of the company or any indulgence by the company to the said contractor(s) 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.

6. This guarantee will not be discharged due to the change in the constitution of the Bank or the contractor(s)

7. We _____ lastly undertake not to revoke
(Indicate the name of the bank)

this guarantee during its currency except with the previous consent of the Company in writing.

Dated the _____ day of _____

For _____
(Indicate the name of the Bank)

List of Consortium Banks *			
	Nationalised Banks		Nationalised Banks
1	Allahabad bank	19	Vijaya Bank
2	Andhra bank		Public Sector Banks
3	Bank of Baroda	20	IDBI
4	Canara Bank		Foreign banks
5	Corporation bank	21	CITI Bank N.A
6	Central bank	22	Deutsche Bank AG
7	Indian Bank	23	The Hongkong and Shanghai Banking Corporation Limited
8	Indian Oversea Bank	24	Standard Chartered Bank
9	Oriental bank of Commerce	25	J P Morgan
10	Punjab National Bank		
11	Punjab & Sindh Bank		Private banks
12	State Bank of India	26	Axis Bank
13	State Bank of Hyderabad	27	The Federal Bank Limited
14	Syndicate Bank	28	HDFC
15	State Bank of Travancore	29	Kotak Mahindra Bank
16	UCO Bank	30	ICICI
17	Union Bank of India	31	Indusind Bank
18	United Bank of India	32	Yes Bank

* wef 22.03.2016



BHARAT HEAVY ELECTRICALS LIMITED

HEEP-HARIDWAR, UTTARAKHAND (249403)

General Instructions and Standard Terms & Conditions for bidding against Tender Enquiry (GISTC)

For Foreign Bidders (Version April-2016)

TABLE OF CONTENT

1. GENERAL
2. ORIGIN OF QUOTATION.
3. SUBMISSION OF TENDER.
4. TENDER OPENING.
5. SPECIFICATION, DRAWINGS & STANDARD.
6. PRICE SCHEDULE.
7. REVERSE AUCTION.
8. DELIVERY TERMS.
9. PENALTY FOR LATE DELIVERY.
10. PAYMENT TERMS.
11. BANK GUARANTEE.
12. GUARANTEE / WARRANTY AND CORRESPONDING REPAIRS / REPLACEMENT OF GOODS.
13. QUALITY REQUIREMENT.
14. VALIDITY.
15. RIGHT OF ACCEPTANCE.
16. TRANSIT INSURANCE.
17. PHYTOSANITARY CERTIFICATE
18. RISK PURCHASE.
19. FORCE MAJEURE CLAUSE.
20. NON-DISCLOSURE AGREEMENT.
21. SETTLEMENT OF DISPUTES/ARBITRATION.
22. INFORMATION TO THE BIDDERS.
23. NOTE.

1. GENERAL.

These general terms & conditions shall apply to all the Tender Enquiries, notice inviting tenders, request for quotations concerning the supply of goods and / or rendering of services to Bharat Heavy Electricals Ltd., HEEP, Haridwar (hereinafter referred to as BHEL or the Purchaser).

2. ORIGIN OF QUOTATION.

- a) The quotation should preferably be from the principal bidder. However tender specific authorized registered dealer/agent can also submit the bid on their behalf, failing which the quotation is liable to be ignored. BHEL prefers to deal directly with the principal manufacturers.
- b) An agent cannot quote on behalf of more than one principal in the same Tender Enquiry.

3. SUBMISSION OF TENDER.

- a) Bid/Quotation must be enclosed in sealed cover on which tender enquiry number and the due date MUST BE written and be invariably sent under REGISTERED POST / SPEED POST / COURIER/Dropped in the Tender Box: addressed as follows:-

Quotation Against Enquiry No. _____

Dated: _____

Due on: _____

To,
THE HEAD OF MATERIAL MANAGEMENT,
Heavy Electrical Equipment Plant,
Bharat Heavy Electricals Limited,
HARIDWAR-249403 (Uttarakhand), INDIA.

- b) In case of Three/Two Part Bid, technical bid containing technical offer, duly signed; and un-priced copy of the Price Bid should be kept in one envelope. Price Bid containing only the price should be kept in a separate envelope. All envelopes indicating Part-1 or Part-2 or Part-3 as the case may be to be put in a bigger envelope. Please note that un-priced bid should be the exact replica of price bid but without prices.
- c) The bid/quotation must be posted before due date, keeping allowance for postal transit time. Alternatively, the tenders duly sealed and super-scribed as above may be deposited in the Tender Box. Quotations sent by any mode but not received in time will be ignored. Tender received through authorized E-mail is also acceptable. However, in time submission of tender in tender box shall be the responsibility of the bidder, sent through any mode. Documents submitted with the offer/bid shall be signed and stamped in each page by authorized representative of the bidder.
- d) Any additional documents submitted by supplier/bidder, during processing of registration application / tender or after placement of order shall not be accepted unless it is submitted with forwarding letter and duly signed and stamped as mentioned above in clause c.

Quotations / Bids not in accordance with General Instructions and Standard Terms & Conditions are likely to be ignored.



BHARAT HEAVY ELECTRICALS LIMITED

HEEP-HARIDWAR, UTTARAKHAND (249403)

General Instructions and Standard Terms & Conditions for bidding against Tender Enquiry (GISTC)

For Foreign Bidders (Version April-2016)

e) 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, shall be rejected. The cutting/overwriting in the bid/offer must be duly attested by the signatories to the bid. The list of firms banned by BHEL is available on BHEL web site www.bhel.com. f) Being PMD vendor, if you are not quoting against this tender enquiry, please send your regret letter positively for our reference with valid reasons for not participating in the tender enquiry. Repeated lack of response on the part of bidder may lead to deletion such PMD vendor from BHEL's approved vendor list. g) The bidders will submit Integrity Pact, duly signed by its authorized signatory, along with their bids wherever estimated tender value is Rs. 5 Crore or more. h) In case of open tender, the unregistered bidder shall submit inter alia duly filled-in Supplier Registration Form (SRF) along with the bid. Bidders can download the SRF from www.bhel.com i) BHEL reserves the right to award tendered quantities among more than one bidder (after acceptance of L1 price by the other bidders). BHEL can also consider awarding of part of the tendered quantity to other than L-1 bidder at L1 counter offered rates, if the quantity offered by the L-1 bidder is less than the quantity tendered for. j) BHEL may also reduce the Tender Quantity for offering it to Micro & Small Enterprise (MSE) Indian Vendors as per applicable Government of India rules whose prices are within 15% of L1 prices as per directives of Government of India. 4. TENDER OPENING. Tender opening is scheduled to start in the Tender Room at 2:00 PM, on the due date. Therefore bid/quotations must reach this office / tender Box latest by 1:45 PM on due date. Only participating bidders are allowed to attend tender opening. <u>TENDERS RECEIVED AFTER THE SPECIFIED TIME OF THEIR 'SUBMISSION' WILL BE TREATED AS LATE TENDERS AND SHALL NOT BE CONSIDERED UNDER ANY CIRCUMSTANCES.</u> The bidders or their authorized representatives (contd. --)	(-- contd.) may be allowed to attend tender opening if duly authorized by their principals, through a tender specific letter, for price bid opening on that particular day. General authorization letter is not acceptable. 5. SPECIFICATION, DRAWINGS & STANDARD. a) Bidders must give their detailed specification in the quotation along with relevant technical literature/catalogue etc. against the tender enquiry. b) The Bid should be accompanied with relevant copies of catalogues, drawings or specification as per tender enquiry. If these documents are not furnished, the offer is liable to be rejected. c) Wherever national/international (N/IN) standards are referred, the latest N/IN standards are to be followed. Mention year & date of standard revision that shall be followed for the supply. d) All Drawings and Standards are proprietary of BHEL. It must not be used in anyway detrimental to the interest of the company. 6. PRICE SCHEDULE. a) Kindly quote your prices in figures and words both. In case of any discrepancy in value, the prices quoted in words shall be considered for evaluation and establishing L1 status. b) Prices quoted should not be more than the prices quoted to any other BHEL units/offices/divisions. Vendor to submit copy of latest Purchase Order placed by any unit of BHEL for similar items in the technical bid. In case no order has been placed on such items, specific confirmation that no order has been placed on such items should be provided. c) Bidders need to quote their prices on CFR any sea port in Mumbai or FCA basis to the named airport in Euro/USD/JPY/UK Pound/SF/Singapore Dollar or any other Internationally freely tradable currency only. The name of the currency should be clearly indicated in your bids.
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Quotations / Bids not in accordance with General Instructions and Standard Terms & Conditions are likely to be ignored.



BHARAT HEAVY ELECTRICALS LIMITED

HEEP-HARIDWAR, UTTARAKHAND (249403)

General Instructions and Standard Terms & Conditions for bidding against Tender Enquiry (GISTC)

For Foreign Bidders (Version April-2016)

d) Offers received other than CFR basis may result in non consideration of such bids. e) However if BHEL agrees to accept the FOB condition, to arrive at landed cost at our plant/site, the FOB prices shall be loaded for 3% (of FOB Value) towards marine insurance, port handling charges & inland freight or actual freight / port handling charges as per BHEL contract whichever is higher . f) Basis of Evaluation for Bid/Quotation in foreign currency: - Currency exchange rate (TT selling rates of SBI) for evaluation of the bid/quotation received in foreign currency will be as follows: - Single part bid – Date of tender opening. - Two / Three part bid – Date of part 1 opening. - Reverse auction – Date of part-1 opening. g) Evaluation of Indian Agents Commission: - BHEL prefers to deal directly with foreign bidder, wherever required, for procurement of Goods. However if the Foreign Principal desires to avail services of an Indian Agent then the Principal should ensure compliance to applicable guidelines. - The FOB / CIF price quoted will be deemed to be inclusive of Indian Agency commission. Agency commission if payable shall be converted to Indian Rupees at TT buying rates of exchange ruling on tender opening date which shall not be subjected to any further exchange rate variation, as disclosed by the bidder in his quoted FOB / CIF price will be paid in Indian Rupees on receipt & acceptance of Materials or it's installation at destination, as the case may be. The lower of the TT buying rate prevailing on the date of technical bid opening shall be considered for computation of Agency commission. - In a tender either the Indian Agent on behalf of Principal / OEM or the Principal / OEM itself can bid, but both cannot bid simultaneously for same item / product in the same Tender. If both OEM and its authorized agent submit their bids separately in that case only the offer of OEM can be considered as an exception.	h) While submitting your bids please clearly indicate: - Expected weight of goods (lots wise). - The size of packed goods. - Whether the goods can be dispatched in containers? - Port of Loading. - Port of Discharge. 7. REVERSE AUCTION. a) BHEL reserves the right to go for Reverse Auction (RA) instead of opening the sealed envelope price bid, submitted by the bidder. This will be decided after Techno-Commercial Evaluation. All bidders to give their acceptance for participation in RA. Non-acceptance to participate in RA may result in non-consideration of their bids, in case BHEL decides for RA. Detailed guidelines available at our site www.bhel.com b) In case BHEL decides to go for Reverse Auction, only those bidders who have given their acceptance to participate in RA will be allowed to participate in the Reverse Auction. Those bidders who have given their acceptance to participate in Reverse Auction will have to necessarily submit 'online sealed bid' in the Reverse Auction. Non-Submission of 'online sealed bid' by the bidder will be considered as tempering of the tender process and will invite action by BHEL as per extant guidelines in vogue. 8. DELIVERY TERMS. a) Goods shall be dispatched by sea, unless stated otherwise in the tender enquiry or purchase order. b) In the event of bidder offering CFR delivery terms for delivery in FCL (Full Container Load), the bidder shall provide 21 days' time free of detention for General Purchase Container/High Cube Container and 14 days for the other types from the date of delivery at delivery port. Wherever the detention free period offered is less than the above specified period, the consequential cost at port of clearance shall be to the account of the bidder. Number of detention free days must be mentioned on Bill of Lading (BL).
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BHARAT HEAVY ELECTRICALS LIMITED

HEEP-HARIDWAR, UTTARAKHAND (249403)

General Instructions and Standard Terms & Conditions for bidding against Tender Enquiry (GISTC)

For Foreign Bidders (Version April-2016)

c) In case of CFR delivery, Port congestion charges or any additional charges claimed by shipping line till delivery at destination port shall be to the bidder's account. d) Specifically confirm your agreement to change the mode by Air at BHEL's request as per mutually agreed terms even after placement of Purchase Orders. e) The Trans-shipment is not permissible in case of Break Bulk Cargo. In rest of the case Trans-shipment condition in BHEL purchase order / letter of credit will be as per Uniform Custom and Practice for documentary credits, UCP 500 of International Standard Bank proceed re-issued by International chamber of Commerce (ICC). f) No demurrage / godown rent will be payable to the vendor / vendor's transporter for any delay in payments attributable to the vendor. g) The shipping line should be ready to move the containers to consignees nominated CFS (Container Freight Station) yard and Indian agent of shipping line should issue Cargo Arrival Notice (CAN) 7 days in advance to filing the IGM (Import General Manifest) at discharge port. h) In case of CFR contract, bidder to supply the material through a Certified Sea worthy vessel. i) A certificate of origin (COO) sanctioned in country of origin from chamber of commerce of the manufacturing country is mandatory to be provided. However a certificate of origin (COO) from the countries under the restricted list of Govt. of India will not be acceptable. j) For reasons of delay in receipt of documents from suppliers or due to the same being found to be incomplete, and/or faulty, the suppliers shall be responsible to reimburse in all demurrages/ wharfages. if any; paid by BHEL (for stated reasons). k) The invoices being issued by shipping lines must be in the name of BHEL. Otherwise, BHEL will have to forego Input Credit on Service tax.	l) While booking the shipment, bidder to also finalize <u>destination charges</u> and the same should appear over BL or agreed tariff to be provided to BHEL before arrival of shipment. m) If cargo is stuffed in container then the same should be allowed to be moved to CFS of importers choice without any additional charges. n) Load port charges shall be settled by the supplier and not be passed on to BHEL in form of destination charges. o) NNDs (preferably with OBLs) should be sent at least 7 days in advance i.e. 7 days before the arrival of vessel so as to enable BHEL to move the containers to JWC CFS. p) Information related to OBL/AWB Documents: I. Consignee name and address should be same as mentioned in the Purchase order. II. Notify party : Name and address will be as follows:(For discharge port Mumbai or Nhava Sheva) Bharat Heavy Electricals Limited 14th Floor World Trade Centre-1, Cuffe Parade, Colaba, Mumbai -400005 Email: msseahwr@bhel.in and ppximx@bhelhwr.co.in (in case of Sea Shipments) Email: kkant@bhel.in; salvi@bhel.in, Sunil.patil@bhel.in (in Case of Air shipments) For latest updation please refer our web site: www.bhelhwr.co.in III. OBL should clearly mention the Indian agent address and contact details. IV. OBL should be issued as per UCP 600. V. In case of incoterms other than FOB, OBL should mention the container detention free period.
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HEEP-HARIDWAR, UTTARAKHAND (249403)

General Instructions and Standard Terms & Conditions for bidding against Tender Enquiry (GISTC)

For Foreign Bidders (Version April-2016)

9. PENALTY FOR LATE DELIVERY.

- a) Date of delivery will be considered as per the delivery terms mentioned in the Purchase Order. Penalty will be applicable on total order value @0.5% per week or part thereof subject to maximum of 10% of the PO value unless otherwise specified in Special Conditions of tender enquiry. Acceptance / Non Acceptance of this CONDITION must be specifically mentioned in your quotation. Any deviation from this will be loaded accordingly i.e. BHEL shall load maximum penalty under penalty for late delivery Clause, to the extent the same is not agreed by the bidder, for the purpose of evaluation.
- b) Bidders are requested to quote the best delivery meeting the delivery requirements. BHEL reserves the right to reject the offers not meeting BHEL's delivery requirement.
- c) Commencement of delivery period shall be reckoned from the date of PO / LOI or any other agreed milestone.
- d) Bidder shall deliver the goods in the manner and schedule agreed under the terms and conditions of Purchase order.
- e) The delivery date for penalty purpose will be the Bill of Lading Date/Air way bill.

10. PAYMENT TERMS.

- a) BHEL's standard payment term is Payment After Receipt and Acceptance of Material/Item at HEEP, BHEL-Store or at desired destination unless otherwise specified in Special Terms attached to the tender enquiry.
- b) BHEL reserves the right to accept or reject the offer of the bidder who quotes the payment term other than BHEL's standard payment term.
- c) Loading on account of deviation in payment terms shall be done as per extant rules of BHEL-Haridwar.
- d) Where the payments are through bank, the documents may be presented for negotiation through BHEL designated banks which will be specified in Purchase order. Documents should be submitted within 5 day of vessel sailing and receipt of OBL from shipping line.

- e) In case BHEL agrees for payment through LC, the same shall be irrevocable, unconfirmed and will be opened 60 days prior to the scheduled delivery and will be valid for a period of 90 days.

11. BANK GUARANTEE.

In case the bank guarantees are required to be deposited towards security deposit/performance guarantee or for any other purpose as per the terms of this tender enquiry, such bank guarantees of the requisite value in the denominated currency of the purchase order should be from one of the Indian branch of BHEL consortium banks and the bank guarantee should be in the proforma as prescribed by BHEL. The proforma of bank guarantee and the list of consortium banks are displayed at BHEL website www.bhelhwr.co.in. However, in case the bank guarantee is not from BHEL consortium banks, then the bidder has to get the bank guarantee confirmed from one of the Indian branch of BHEL consortium banks and the bank charges for such confirmation will be borne by the bidder.

12. GUARANTEE / WARRANTY AND CORRESPONDING REPAIRS / REPLACEMENT OF GOODS.

- a) Goods shall comply with the specifications for material, workmanship and performance. Unless otherwise specified, the warranty shall be for a period of 12 months from the date of receipt. If the delivery is found non-compliant during the warranty period, leading to rejection, the Seller shall arrange free replacement / repair of goods, within one month from the date of intimation or any mutually agreed period. The rejected goods shall be taken away by the Seller at his cost and replaced on Delivered Duty Paid (DDP) (FOR - BHEL Stores / designated destination basis) within such period. In the event of the Seller's failure to comply, Purchaser may take action as appropriate, including Repair / Replenish rejected goods & disposal of rejections, at the risk & cost of the Seller. In case the defects attributable to Seller are detected during processing of the goods at BHEL or our subcontractor's works, the Seller shall be responsible for free replacement / repair of the goods as required by BHEL.

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BHARAT HEAVY ELECTRICALS LIMITED

HEEP-HARIDWAR, UTTARAKHAND (249403)

General Instructions and Standard Terms & Conditions for bidding against Tender Enquiry (GISTC)

For Foreign Bidders (Version April-2016)

b) In case the material is rejected, then date of replacement will be considered as the actual date of delivery. c) The bidder shall have to pay 5% incidental charges while taking back supplied material if it is found rejected on receipt. The rejected material shall be sent back only after receipt of replacement /submission of BG/refund of amount paid. 13) QUALITY REQUIREMENT. Your bid/quotation should have specific confirmation regarding meeting all our quality requirements such as. (i) Test Certificate (TC), (ii) Guarantee Certificate (GC) / Warranty Certificate (WC), (iii) Quality Plan (QP) (if applicable); and (iv) Pre-Dispatch Inspection at your works (if applicable). 14. VALIDITY. The quotation should be valid for a minimum period of 90 days effective from the date of opening of tender, unless otherwise specified in the tender enquiry. 15. RIGHT OF ACCEPTANCE. a) BHARAT HEAVY ELECTRICALS LIMITED HARIDWAR reserves the right to reject any or all the bids/quotations without assigning any reason thereof. BHEL also reserves the right to increase or decrease the tendered quantities. Bidders should be prepared to accept order for reduced quantity without any extra charges. b) Any discount/revised offer/bids submitted by a bidder on its 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. c) Unsolicited discounts/revised offers/bids given after Part-1 bid opening shall not be accepted. No change in price will be permitted within the validity period asked for in the tender enquiry.	d) In case of changes in scope and/or technical specification and/or commercial terms & conditions having price implication, techno-commercially acceptable bidders shall be asked by BHEL to submit the impact of such changes on their price bids. In case a bidder opts to submit revised price bid instead of impact called for, then latest price bid shall prevail. However in both situations, original price bid will be necessarily opened. e) The bidder whose bid is technically not accepted will be informed & EMD wherever submitted shall be returned after finalization of contract. EMD shall be forfeited in the event of bidder opting out after tender opening. f) BHEL reserves the right to short close the existing Purchase Order / Rate Contract / Work Order or any extension thereof at any stage. 16. TRANSIT INSURANCE. a) Transit Insurance will be covered by BHEL under its open Marine Insurance Policy. Seller shall inform dispatch particulars (Purchase Order, RR/GR/BL/AWB, Invoice value etc.) to "Finance department (Store bill Section), BHEL Ranipur Haridwar (Uttarakhand -India) with value of consignment to the Purchaser within 07 days of dispatch for BHEL to arrange insurance coverage in its policy. Failure on the part of seller to inform dispatch particulars will make him liable to pay for any transit damages / losses suffered by the Purchaser. b) If Quoted Prices are inclusive of transit insurance, no weightage shall be given while evaluating the bids for Cost of Insurance, being in BHEL Scope. 17. PHYTOSANITARY CERTIFICATE: a) As per the Indian Law, all consignments being imported into India by air/sea require a phytosanitary certificate from the country of origin-if articles have been packed with wooden packaging materials. This is mandatory. Please confirm in your offer/dispatch documents that the required phytosanitary certificate will be submitted.
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HEEP-HARIDWAR, UTTARAKHAND (249403)

General Instructions and Standard Terms & Conditions for bidding against Tender Enquiry (GISTC)

For Foreign Bidders (Version April-2016)

- b) Packaging material means any kind of material of plant origin used for packing which include hay, straw wood shavings, wood chips, saw dust, wood waste, wooden pallets, dunnage mats, wooden packages, coir pith, peat or sphagnum moss etc.

18. RISK PURCHASE.

In case of abnormal delays (beyond the maximum late delivery period as per Penalty clause) in supplies / defective supplies or non-fulfillment of any other terms and conditions given in Purchase Order, BHEL may cancel the Purchase Order in full or part thereof, and may also make the purchase of such material from elsewhere / alternative source at the risk and cost of the supplier. BHEL will take all reasonable steps to get the material from alternate source at optimum cost. If bidder does not agree to the above Risk Purchase Clause, BHEL reserves the right to reject the offer. In case for compelling reasons BHEL accepts the offer without acceptance of this clause by the bidder and in the eventuality of Risk Purchase, appropriate action will be taken as per BHEL extant rules. This will be without prejudice to any other right of BHEL under the contract.

19. FORCE MAJEURE CLAUSE.

- a) Either party shall be entitled to suspend/cancel performance of his obligations under the contract without any cost to the other party, to the extent that such performance is impeded or made unreasonably onerous by any of the following circumstances: fire, war, flood, riots, earthquake, any other act of God, change in Government Policies, terrorist attack etc. or any other circumstances beyond the control of either party which inter alia include cancellation, suspension of order by end customer due to Force Majeure conditions.
- b) The party claiming to be affected by force majeure shall notify the other party in writing immediately without delay on the intervention and on the cessation of such circumstances.
- c) Regardless of what might otherwise follow from these general conditions, either party shall be entitled to terminate the contract by notice in writing to the other party if performance of the contract remains suspended under Clause Force Majeure for more than six months.

- d) If the war like situation has developed in a country where a bidder's works involved in this tender is located or there is political instability and Indian Embassy located in that country forbids or advises for not having any business dealing with the bidders located in such zone / region/ country, then the offer of such bidders shall be rejected. BHEL reserves the right to cancel the order in case the order has already been placed and suspend further dealings till normalcy in the country/ region is confirmed by the Indian embassy located in the affected country.

20. NON-DISCLOSURE AGREEMENT.

All Drawing and Technical Documents relating to the product or it's manufacture submitted by one party to the other, prior or subsequent to the formation of contract, shall remain property of the submitting party. Drawing, 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. Such technical information shall not without the consent of the submitting party, otherwise be used or copied, reproduced, transmitted or communicated to a third party. Patterns supplied by BHEL will remain BHEL's property which shall be returned by the bidder on demand to BHEL. Bidder shall in no way share or use such intellectual property of BHEL to promote his own business with others. BHEL reserves the right to claim damages from the bidder, or take appropriate penal action as deemed fit against the bidder, for any infringement of the provisions contained herein.

21. SETTLEMENT OF DISPUTES/ARBITRATION.

Any dispute/difference arising out of or in connection with this contract, including any question regarding its existence, validity or termination, shall be referred to and finally resolved by arbitration under the Arbitration and Conciliation Act, 1996 of India by a Sole Arbitrator to be appointed with mutual consent of the parties. Such Sole Arbitrator shall be either a retired judge of Supreme Court or High Court or District Court of India or some Advocate having practiced in Indian Courts. The seat or place of arbitration shall be New Delhi, India. The language to be used in the arbitration shall be English. (Contd.--)

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BHARAT HEAVY ELECTRICALS LIMITED

HEEP-HARIDWAR, UTTARAKHAND (249403)

General Instructions and Standard Terms & Conditions for bidding against Tender Enquiry (GISTC)

For Foreign Bidders (Version April-2016)

(-- contd.) The governing law of the contract shall be the substantive law of India. In case the parties fail to agree on the appointment of arbitrator within 2 months of the notice invoking arbitration by one party, then the arbitrator shall be appointed in accordance with the Arbitration and Conciliation Act, 1996 of India.

JURIDICION: The courts of Haridwar, India, shall have exclusive jurisdiction.

22. INFORMATION TO THE BIDDERS.

- a) Purchase related information is available at our Business-to-Business (B2B) Portal available on our website www.bhelhwr.co.in. The user ID & password can be obtained by sending a request to concerned purchase executives.
- b) Intimate your change in mail address or communication address or changes, if any, by email to pplx_idx@bhelhwr.co.in giving your bidder Code.
- c) Please resolve your rejections and unexecuted overdue purchase order immediately which are posted at our B2B Portal, which can be visited through our site www.bhelhwr.co.in.
- d) Copy of this Tender Enquiry is being sent through the post.
- e) Invoice description and Unit of measurement should be strictly in accordance with Purchase order.
- f) Unit of measurement for dimension and weight should be in metric system only.

23. NOTE.

- a) Special conditions of enquiry, if enclosed, will supersede the standard/general terms of enquiry.
- b) Any other Standard terms and Conditions of the bidder attached/referred against the tender enquiry will be treated as null and void ab initio.

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BHARAT HEAVY ELECTRICALS LIMITED

HEEP-HARIDWAR, UTTARAKHAND (249403)

General Instructions and Standard Terms & Conditions for bidding against Tender Enquiry (GISTC)
For Indian Bidders (Version April-2016)

TABLE OF CONTENT

1. GENERAL
2. ORIGIN OF QUOTATION.
3. SUBMISSION OF TENDER.
4. TENDER OPENING.
5. SPECIFICATION, DRAWINGS & STANDARD.
6. PRICE SCHEDULE.
7. REVERSE AUCTION.
8. DELIVERY TERMS.
9. PENALTY FOR LATE DELIVERY.
10. PAYMENT TERMS.
11. TAXES & DUTIES.
12. BANK GUARANTEE.
13. GUARANTEE / WARRANTY AND CORRESPONDING REPAIRS / REPLACEMENT OF GOODS.
14. QUALITY REQUIREMENT.
15. VALIDITY.
16. RIGHT OF ACCEPTANCE.
17. TRANSIT INSURANCE.
18. RISK PURCHASE.
19. FORCE MAJEURE CLAUSE.
20. NON-DISCLOSURE AGREEMENT.
21. SETTLEMENT OF DISPUTES/ARBITRATION.
22. WHARFAGE / DEMURRAGE RESPONSIBILITY.
23. CONDITIONS FOR AVAILING MICRO & SMALL ENTERPRISES (MSE'S) BENEFITS.
24. INFORMATION TO THE BIDDERS.
25. NOTE.

1. GENERAL.

These general terms & conditions shall apply to all the Tender Enquiries, notice inviting tenders, request for quotations concerning the supply of goods and / or rendering of services to Bharat Heavy Electricals Ltd., HEEP, Haridwar (hereinafter referred to as BHEL or the Purchaser).

2. ORIGIN OF QUOTATION.

- a) The quotation should preferably be from the principal bidder. However tender specific authorized registered dealer/agent can also submit the bid on their behalf, failing which the quotation is liable to be ignored. BHEL prefers to deal directly with the principal manufacturers.
- b) An agent cannot quote on behalf of more than one principal in the same Tender Enquiry.

3. SUBMISSION OF TENDER.

- a) Bid/Quotation must be enclosed in sealed cover on which tender enquiry number and the due date MUST BE written and be invariably sent under REGISTERED POST / SPEED POST / COURIER/Dropped in the Tender Box: addressed as follows:-

Quotation Against Enquiry No. _____

Dated: _____

Due on: _____

To,
THE HEAD OF MATERIAL MANAGEMENT,
Heavy Electrical Equipment Plant,
Bharat Heavy Electricals Limited,
HARIDWAR-249403 (Uttarakhand), INDIA.

- b) In case of Three/Two Part Bid, technical bid containing technical offer, duly signed; and un-priced copy of the Price Bid should be kept in one envelope. Price Bid containing only the price should be kept in a separate envelope. All envelopes indicating Part-1 or Part-2 or Part-3 as the case may be to be put in a bigger envelope. Please note that un-priced bid should be the exact replica of price bid but without prices.
- c) The bid/quotation must be posted before due date, keeping allowance for postal transit time. Alternatively, the tenders duly sealed and super-scribed as above may be deposited in the Tender Box. Quotations sent by any mode but not received in time will be ignored. Tender received through authorized E-mail is also acceptable. However, in time submission of tender in tender box shall be the responsibility of the bidder, sent through any mode. Documents submitted with the offer/bid shall be signed and stamped in each page by authorized representative of the bidder.
- d) Any additional documents submitted by supplier/bidder, during processing of registration application / tender or after placement of order shall not be accepted unless it is submitted with forwarding letter and duly signed and stamped as mentioned above in clause c.

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BHARAT HEAVY ELECTRICALS LIMITED

HEEP-HARIDWAR, UTTARAKHAND (249403)

General Instructions and Standard Terms & Conditions for bidding against Tender Enquiry (GISTC) For Indian Bidders (Version April-2016)

e) 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, shall be rejected. The cutting/overwriting in the bid/offer must be duly attested by the signatories to the bid. The list of firms banned by BHEL is available on BHEL web site www.bhel.com. f) Being PMD vendor, if you are not quoting against this tender enquiry, please send your regret letter positively for our reference with valid reasons for not participating in the tender enquiry. Repeated lack of response on the part of bidder may lead to deletion such PMD vendor from BHEL's approved vendor list. g) The bidders will submit Integrity Pact, duly signed by its authorized signatory, along with their bids wherever estimated tender value is Rs. 5 Crore or more. h) In case of open tender, the unregistered bidder shall submit inter alia duly filled-in Supplier Registration Form (SRF) along with the bid. Bidders can download the SRF from www.bhel.com i) BHEL reserves the right to award tendered quantities among more than one bidder (after acceptance of L1 price by the other bidders). BHEL can also consider awarding of part of the tendered quantity to other than L-1 bidder at L1 counter offered rates, if the quantity offered by the L-1 bidder is less than the quantity tendered for. 4. TENDER OPENING. Tender opening is scheduled to start in the Tender Room at 2:00 PM, on the due date. Therefore bid/quotations must reach this office / tender Box latest by 1:45 PM on due date. Only participating bidders are allowed to attend tender opening. <u>TENDERS RECEIVED AFTER THE SPECIFIED TIME OF THEIR 'SUBMISSION' WILL BE TREATED AS LATE TENDERS AND SHALL NOT BE CONSIDERED UNDER ANY CIRCUMSTANCES.</u> The bidders or their authorized representatives may be allowed to attend tender opening if duly authorized by their principals, through a tender specific letter, for price bid opening on that particular day. General authorization letter is not acceptable.	5. SPECIFICATION, DRAWINGS & STANDARD. a) Bidders must give their detailed specification in the quotation along with relevant technical literature/catalogue etc. against the tender enquiry. b) The Bid should be accompanied with relevant copies of catalogues, drawings or specification as per tender enquiry. If these documents are not furnished, the offer is liable to be rejected. c) Wherever national/international (N/IN) standards are referred, the latest N/IN standards are to be followed. Mention year & date of standard revision that shall be followed for the supply. d) All Drawings and Standards are proprietary of BHEL. It must not be used in anyway detrimental to the interest of the company. 6. PRICE SCHEDULE. a) Kindly quote your prices in figures and words both. In case of any discrepancy in value, the prices quoted in words shall be considered for evaluation and establishing L1 status. b) Prices quoted should not be more than the prices quoted to any other BHEL units/offices/divisions. Vendor to submit copy of latest Purchase Order placed by any unit of BHEL for similar items in the technical bid. In case no order has been placed on such items, specific confirmation that no order has been placed on such items should be provided. c) Prices should be quoted on F.O.R. Destination basis. Transit insurance shall be arranged by BHEL and not to be included in the prices. The offers quoted on other than F.O.R destination basis may result in non consideration of such bids. d) In case BHEL accepts the EX-Works prices such offers will be loaded by 1.5% of EX-Works value towards freight or with actual freight charges as per BHEL freight rate contract whichever is higher.
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BHARAT HEAVY ELECTRICALS LIMITED

HEEP-HARIDWAR, UTTARAKHAND (249403)

General Instructions and Standard Terms & Conditions for bidding against Tender Enquiry (GISTC) For Indian Bidders (Version April-2016)

e) In case of Indigenous items covered by DGS & D Rate Contract, the bidders should submit latest valid copy of the rate contract along with bid / quotation f) Applicable Sales Tax, Excise Duty and any other statutory levy should be indicated separately and clearly in the bid/quotation. g) Bidders can despatch goods through any Indian Bank Association approved transporters having their branch at HARIDWAR/destination. If material is despatched through other than Indian Bank Association approved transporter, material to be delivered on door delivery BHEL Stores basis. h) In case of despatch of material through any other unapproved transporter, payment shall be made only after receipt of material and any additional charges payable to the transporter shall be to the bidder's account. i) No demurrage / godown rent will be payable to the vendor / vendor's transporter for any delay in payments attributable to the vendor. 7. REVERSE AUCTION. a) BHEL reserves the right to go for Reverse Auction (RA) instead of opening the sealed envelope price bid, submitted by the bidder. This will be decided after Techno-Commercial Evaluation. All bidders to give their acceptance for participation in RA. Non-acceptance to participate in RA may result in non-consideration of their bids, in case BHEL decides for RA. Detailed guidelines available at our site www.bhel.com b) In case BHEL decides to go for Reverse Auction, only those bidders who have given their acceptance to participate in RA will be allowed to participate in the Reverse Auction. Those bidders who have given their acceptance to participate in Reverse Auction will have to necessarily submit 'online sealed bid' in the Reverse Auction. Non-Submission of 'online sealed bid' by the bidder will be considered as tempering of the tender process and will invite action by BHEL as per extant guidelines in vogue.	8. DELIVERY TERMS. a) Goods shall be delivered on 'FOR Destination' basis to the named destination unless otherwise called for in the tender enquiry. b) Loading on account of 3rd party inspection charges in case of Indian bidders shall be 0.20%. 9. PENALTY FOR LATE DELIVERY. a) Date of delivery will be considered as per the delivery terms mentioned in the Purchase Order. Penalty will be applicable on total order value @0.5% per week or part thereof subject to maximum of 10% of the PO value unless otherwise specified in Special Conditions of tender enquiry. Acceptance / Non Acceptance of this CONDITION must be specifically mentioned in your quotation. Any deviation from this will be loaded accordingly i.e. BHEL shall load maximum penalty under penalty for late delivery Clause, to the extent the same is not agreed by the bidder, for the purpose of evaluation. b) Bidders are requested to quote the best delivery meeting the delivery requirements. BHEL reserves the right to reject the offers not meeting BHEL's delivery requirement. c) Commencement of delivery period shall be reckoned from the date of PO / LOI or any other agreed milestone. d) Bidder shall deliver the goods in the manner and schedule agreed under the terms and conditions of Purchase order. e) <u>DELIVERY IN CASE OF REJECTION:</u> In case the material is rejected, then date of replacement will be considered as the actual date of delivery. f) <u>DELIVERY AGAINST BANK DOCUMENTS:</u> In case payment terms quoted by bidder are documents through bank, and the delivery terms being "FOR Haridwar/FOR Transporter Godown", then date of delivery will be date of intimation by transporter/bidder of delivery of material at Haridwar for the penalty purpose.
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BHARAT HEAVY ELECTRICALS LIMITED

HEEP-HARIDWAR, UTTARAKHAND (249403)

General Instructions and Standard Terms & Conditions for bidding against Tender Enquiry (GISTC) For Indian Bidders (Version April-2016)

g) Where the payments are through bank, the documents may be presented for negotiation to BHEL authorized/nominated bank. 10. PAYMENT TERMS. a) BHEL's standard payment term is Payment After Receipt and Acceptance of Material/Item at HEEP, BHEL-Store or at desired destination unless otherwise specified in Special Terms attached to the tender enquiry. b) BHEL reserves the right to accept or reject the offer of the bidder who quotes the payment term other than BHEL's standard payment term. c) Loading on account of deviation in payment terms shall be done as per extant rules of BHEL-Haridwar. 11. TAXES & DUTIES. a) If PAN (Permanent Account Number) of the recipient is not available, tax is deductible either at the normal rate or at the rate of 20 percent, whichever is higher. As per Section 206AA of Indian Income Tax Act 1961. b) The bidder shall clearly indicate extent of taxes as applicable in his technical bid. c) All forms as required by Law to avail concessional tax benefits are to be submitted within the stipulated time. BHEL reserves the right to withhold the payment due to the bidder or deduct the payment equivalent to additional tax and other liability on BHEL due to non/late submission of above forms. d) Bidder to quote place from where supply of goods is expected, to evaluate us applicable Value Added Tax input credit. Any subsequent changes in this may affect availability of input credit to BHEL; the same will be on bidder's account. e) In case of intra-state sale, bidder to ensure quoting TIN Number of BHEL applicable in the state of transaction and same should be asked by bidder in time. f) Rate of Excise Duty, CST/VAT and Service Tax must be indicated in offer even if it is inclusive.	g) Taxes & duties as applicable at the time of supply shall be payable. h) <u>IMPORTED GOODS OFFERED BY INDIAN BIDDERS AGAINST DEALER INVOICE:</u> Wherever the material being offered is imported, bidder must quote the prices inclusive of CVD. The rate & value of CVD as included in the price must be indicated separately. In case quantum of CVD is not mentioned by the bidder the same will not be considered for evaluation. However bidder will have to pass on the benefit of CVD to BHEL at the time of actual supply. 12. BANK GUARANTEE. In case the bank guarantees are required to be deposited towards security deposit/performance guarantee or for any other purpose as per the terms of this tender enquiry, such bank guarantees of the requisite value in the denominated currency of the purchase order should be from one of the Indian branch of BHEL consortium banks and the bank guarantee should be in the proforma as prescribed by BHEL. The proforma of bank guarantee and the list of consortium banks are displayed at BHEL website www.bhelhwr.co.in. However, in case the bank guarantee is not from BHEL consortium banks, then the bidder has to get the bank guarantee confirmed from one of the Indian branch of BHEL consortium banks and the bank charges for such confirmation will be borne by the bidder. 13. GUARANTEE / WARRANTY AND CORRESPONDING REPAIRS / REPLACEMENT OF GOODS. a) Goods shall comply with the specifications for material, workmanship and performance. Unless otherwise specified, the warranty shall be for a period of 12 months from the date of receipt. If the delivery is found non-compliant during the warranty period, leading to rejection, the Seller shall arrange free replacement / repair of goods, within one month from the date of intimation or any mutually agreed period. The rejected goods shall be taken away by the Seller at his cost and replaced on Delivered Duty Paid (DDP) (FOR - BHEL Stores / designated destination basis) (Contd.--)
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BHARAT HEAVY ELECTRICALS LIMITED

HEEP-HARIDWAR, UTTARAKHAND (249403)

General Instructions and Standard Terms & Conditions for bidding against Tender Enquiry (GISTC) For Indian Bidders (Version April-2016)

(-- Contd.) within such period. In the event of the Seller's failure to comply, Purchaser may take action as appropriate, including Repair / Replenish rejected goods & disposal of rejections, at the risk & cost of the Seller. In case the defects attributable to Seller are detected during processing of the goods at BHEL or our subcontractor's works, the Seller shall be responsible for free replacement / repair of the goods as required by BHEL.

- b) **RETURN OF REJECTED MATERIAL FOR REPLACEMENT:** The bidder shall have to pay 5% incidental charges while taking back supplied material if it is found rejected on receipt. The rejected material shall be sent back only after receipt of replacement /submission of BG/refund of amount paid.

14. QUALITY REQUIREMENT.

Your bid/quotation should have specific confirmation regarding meeting all our quality requirements such as. (i) Test Certificate (TC), (ii) Guarantee Certificate (GC) / Warranty Certificate (WC), (iii) Quality Plan (QP) (if applicable); and (iv) Pre-Dispatch Inspection at your works (if applicable).

15. VALIDITY.

The quotation should be valid for a minimum period of 90 days effective from the date of opening of tender, unless otherwise specified in the tender enquiry.

16. RIGHT OF ACCEPTANCE.

- a) **BHARAT HEAVY ELECTRICALS LIMITED HARIDWAR** reserves the right to reject any or all the bids/quotations without assigning any reason thereof. BHEL also reserves the right to increase or decrease the tendered quantities. Bidders should be prepared to accept order for reduced quantity without any extra charges.
- b) Any discount/revised offer/bids submitted by a bidder on its 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.

- c) Unsolicited discounts/revised offers/bids given after Part-1 bid opening shall not be accepted. No change in price will be permitted within the validity period asked for in the tender enquiry.

- d) In case of changes in scope and/or technical specification and/or commercial terms & conditions having price implication, techno-commercially acceptable bidders shall be asked by BHEL to submit the impact of such changes on their price bids. In case a bidder opts to submit revised price bid instead of impact called for, then latest price bid shall prevail. However in both situations, original price bid will be necessarily opened.

- e) The bidder whose bid is technically not accepted will be informed & EMD wherever submitted shall be returned after finalization of contract. EMD shall be forfeited in the event of bidder opting out after tender opening.

- f) BHEL reserves the right to short close the existing Purchase Order / Rate Contract / Work Order or any extension thereof at any stage.

17. TRANSIT INSURANCE.

- a) Transit Insurance will be covered by BHEL under its open Marine Insurance Policy. Seller shall inform dispatch particulars (Purchase Order, RR/GR/BL/AWB, Invoice value etc.) to "Finance department (Store bill Section), BHEL Ranipur Haridwar (Uttarakhand -India) with value of consignment to the Purchaser within 07 days of dispatch for BHEL to arrange insurance coverage in its policy. Failure on the part of seller to inform dispatch particulars will make him liable to pay for any transit damages / losses suffered by the Purchaser.
- b) If Quoted Prices are inclusive of transit insurance, no weightage shall be given while evaluating the bids for Cost of Insurance, being in BHEL Scope.

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BHARAT HEAVY ELECTRICALS LIMITED

HEEP-HARIDWAR, UTTARAKHAND (249403)

General Instructions and Standard Terms & Conditions for bidding against Tender Enquiry (GISTC)
For Indian Bidders (Version April-2016)

18. RISK PURCHASE.

In case of abnormal delays (beyond the maximum late delivery period as per Penalty clause) in supplies / defective supplies or non-fulfillment of any other terms and conditions given in Purchase Order, BHEL may cancel the Purchase Order in full or part thereof, and may also make the purchase of such material from elsewhere / alternative source at the risk and cost of the supplier. BHEL will take all reasonable steps to get the material from alternate source at optimum cost. If bidder does not agree to the above Risk Purchase Clause, BHEL reserves the right to reject the offer. In case for compelling reasons BHEL accepts the offer without acceptance of this clause by the bidder and in the eventuality of Risk Purchase, appropriate action will be taken as per BHEL extant rules. This will be without prejudice to any other right of BHEL under the contract.

19. FORCE MAJEURE CLAUSE.

- a) Either party shall be entitled to suspend/cancel performance of his obligations under the contract without any cost to the other party, to the extent that such performance is impeded or made unreasonably onerous by any of the following circumstances: fire, war, flood, riots, earthquake, any other act of God, change in Government Policies, terrorist attack etc. or any other circumstances beyond the control of either party which inter alia include cancellation, suspension of order by end customer due to Force Majeure conditions.
- b) The party claiming to be affected by force majeure shall notify the other party in writing immediately without delay on the intervention and on the cessation of such circumstances.
- c) Regardless of what might otherwise follow from these general conditions, either party shall be entitled to terminate the contract by notice in writing to the other party if performance of the contract remains suspended under Clause Force Majeure for more than six months.

20. NON-DISCLOSURE AGREEMENT.

All Drawing and Technical Documents relating to the product or it's manufacture submitted by one party to the other, prior or subsequent to the formation of contract, shall remain property of the submitting party. Drawing, 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. Such technical information shall not without the consent of the submitting party, otherwise be used or copied, reproduced, transmitted or communicated to a third party. Patterns supplied by BHEL will remain BHEL's property which shall be returned by the bidder on demand to BHEL. Bidder shall in no way share or use such intellectual property of BHEL to promote his own business with others. BHEL reserves the right to claim damages from the bidder, or take appropriate penal action as deemed fit against the bidder, for any infringement of the provisions contained herein.

21. SETTLEMENT OF DISPUTES/ARBITRATION.

In all cases of dispute the matter shall be referred for ARBITRATION by sole arbitrator to be appointed by the Unit Head of Bharat Heavy Electricals Ltd., at HARIDWAR. The award of the Arbitrator shall be final and binding on both the parties. The place of Arbitration shall be Haridwar.

JURIDICTION: The courts of Haridwar, India, shall have exclusive jurisdiction.

22. WHARFAGE / DEMURRAGE RESPONSIBILITY.

In the event of delay in receipt of documents by Manager (Stores-Shipping) BHEL-Haridwar and in case where dispatches are made through Unapproved Transporter the sole responsibility for wharfage /demurrage for such delay shall be that of supplier.

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HEEP-HARIDWAR, UTTARAKHAND (249403)

General Instructions and Standard Terms & Conditions for bidding against Tender Enquiry (GISTC)

For Indian Bidders (Version April-2016)

23. CONDITIONS FOR AVAILING MICRO & SMALL ENTERPRISES (MSE'S) BENEFITS. a) "MSE Suppliers can avail the intended benefits only if they submit along with the offer, attested copies of either EM II certificate having deemed validity (five years from the date of issue of acknowledgement in EM II) or valid NSIC certificate or EM II certificate along with attested copy of a CA certificate (Format enclosed at annexure-1 where deemed validity of EM II certificate of five years has expired) applicable for the relevant financial year (latest audited). Date to be reckoned for determining the deemed validity will be the date of bid opening (Part 1 in case of two part bid). 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 is found or the requisite documents are not submitted before price bid opening. If the tender is to be submitted through e-procurement portal, then the above require document are to be uploaded on the portal. Documents should be notarized or attested by a Gazetted officer." b) Any new supplier will be eligible for registration with BHEL as MSE supplier provided at least any one of the following documents are submitted along with application for registration :- c) Valid NSIC Certificate or d) Entrepreneurs Memorandum part II (EM II) certificate (valid based on deemed validity of 5 years) or e) EM II certificate along with attested copy of CA Certificate (as per prescribed format at annexure-A) applicable for the relevant financial year (latest audited), where the deemed validity of EM II is over. f) However, credentials of all MSE suppliers will be verified before advancing the intended benefits. g) MSE bidders claiming SC/ST status will have to submit SC/ST certificate of the Proprietor from competent authority. Attested (notarized or attested by Gazetted officer) copy to be submitted along with the offer.	h) In case techno-commercial accepted bidders include MSE source and their prices (based on landed cost – considering quoted prices) are within the price band of 15% w.r.t. L-1 bidder, then BHEL can offer 20% of quantity of respective item (rounded off to nearest number) to MSE bidders at L-1 price and in case, more than one MSE bidder is in 15 % band and the same is accepted by more than one MSE bidders then 20% quantities of respective items will be considered for ordering on proportionate basis amongst MSE bidders. i) While distributing the 20% quantity amongst MSE bidders the decimal points in quantity shall be ignored for all the bidders except the L-1 amongst MSE bidders. Balance quantity after allocating the quantity to other MSE bidders ignoring the quantities in decimal, shall be given to L-1 (amongst MSE) bidder. However if there are more than one MSE bidder at the same price level than preference for additional quantities due to ignoring off the decimal (as mentioned above) shall be given to the bidder offering favorable terms to BHEL and if the conditions offered are also same then preference will be given to the bidder having high SPR rating. j) In case there are more than one MSE bidders (with different landed cost to BHEL) within 15% price band of lowest bidder and quantity to be offered is 1 no. only, then preference shall be given to the MSE bidder with lowest landed cost . k) In case there are more than one MSE bidders (with same landed cost to BHEL) within 15% price band of lowest bidder and quantity to be offered is 1 no. only, then preference shall be given first, based on the favorable terms in the bid and in case terms are also same, the bidder with high SPR rating shall be given preference. l) If L1 bidder is MSE bidder, entire quantity will be given to such MSE bidder only.
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**BHARAT HEAVY ELECTRICALS LIMITED**

HEEP-HARIDWAR, UTTARAKHAND (249403)

General Instructions and Standard Terms & Conditions for bidding against Tender Enquiry (GISTC)**For Indian Bidders (Version April-2016)****24. INFORMATION TO THE BIDDERS.**

- a) Purchase related information is available at our Business-to-Business (B2B) Portal available on our website www.bhelhwr.co.in The user ID & password can be obtained by sending a request to concerned purchase executives.
- b) Intimate your change in mail address or communication address or changes, if any, by email to ppx_idx@bhelhwr.co.in giving your bidder Code.
- c) Please resolve your rejections and unexecuted overdue purchase order immediately which are posted at our B2B Portal, which can be visited through our site www.bhelhwr.co.in
- d) Copy of this Tender Enquiry is being sent through the post.

25. NOTE.

- a) Special conditions of enquiry, if enclosed, will supersede the standard/general terms of enquiry.

Any other Standard terms and Conditions of the bidder attached/referred against the tender enquiry will be treated as null and void ab initio.

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