

BHARAT HEAVY ELECTRICALS LIMITED
HEEP: HARDWAR-249 403 (UA)
Fax: 01334-223948/226462, Phone: 285291
E-mail: asanyal@bhelhwr.co.in

No. Cap/OT/07

Date: 15th Jan.'07

Subject: Open tender as detailed below:

OPEN TENDER

1. Sealed tenders with the Tender No. and opening date clearly super scribed on the cover are invited from the manufacturers/their authorized agents for the supply of the following items:-
2. Last date for taking tender documents and opening of tenders is indicated against each tender. Tenders will be received up to 1.45 P.M. on opening date and opened on the same day at 2.00 P.M. in the Tender Room.
3. Intending vendors must remit the tender fee of Rs. 2,000.00 for indigenous supplies (equivalent foreign currency \$ 50.00 / € 40.00) from foreign vendors against each tender along with the requisite EMD in the form of bank draft while submitting the tender documents as detailed in "Instruction to Bidders", after down loading from this web site.
4. BHEL will not be responsible for any type of postal delay/ incomplete information from vendor.
5. Other terms and conditions will be as per tender documents.

Sl. No.	Tender No.	Description of Equipment	Qty. (Nos.)	Last date to get from BHEL	Opening date
1.	C6743/5/5291T	Self Aligned Flame Proof Rotator 250Ton Cap. (as per enclosed specification)	01	01.03.07	02.03.07

(A. Sanyal)
DGM (Capital Purchase)



BHARAT HEAVY ELECTRICALS LIMITED
HEEP HARIDWAR INDIA-PIN 249403
FAX NO: 0091 1334 226462/223948
PHONE NO: 0091 1334 285291

Enq. No.:C6743/5/5219T

Date of issue: 15th Jan'07
Due Date: 2nd March'07

M/S.....

Sub: Tender Enquiry No.C6743/5/5219T

Dear Sir,

We are pleased to invite your offer in TWO PARTS.
Strictly as per enclosed terms and conditions and instruction to bidders, in sealed covers for the under mentioned equipment/systems.

S.N.	Description	Qty.	Delivery Required	EMD (Earnest Money Deposit)
1.	Self Aligned Flame Proof Rotator 250Ton Cap. as per enclosed Specifications	01	01.08.2007	Rs. 20,000.00/- (Rs. 20,000.00/- only or equivalent foreign currency)

Please submit your lowest quotation / offer for the above requirement subject to our terms and conditions.
Your offer should reach us on or before the due date by 1.45 PM.

**NOTE: The vendor should submit their best price at this stage it self and they will not be allowed to revise the price.
Any revision / discount given by vendor subsequently will be ignored & the bid is likely to be rejected.**

Part-1 bids shall be opened of those vendors **ONLY AFTER ENSURING PROOF OF EMD AND TENDER FEE (PLEASE SUBMIT SEPARATE DRAFTS FOR EMD AND TENDER FEE {drawn in favour of BHEL Hardwar} IN ANOTHER ENVELOPE SUPERSCRIBED WITH BOLD LETTERS "EMD & TENDER FEE")** at 2 PM on the due date in the presence of authorized representatives of the bidders who may like to be present. The authorized representative should bring authority letter from their principals (if any) for attending the bid opening. All Govt. of India / PSU / State Govt. entities are exempted from submission of EMD. Purchase preference will be given to CPSE s as per GOI notification no. DPE/13(12) 2003-Fin. Dated 26th Oct'04.

KINDLY READ "INSTRUCTIONS TO BIDDERS", QUOTATION NOT IN ACCORDANCE WITH THE ABOVE INSTRUCTIONS ARE LIABLE TO BE DISQUALIFIED AND IGNORED.

Thanking You,
Yours Faithfully,
For & ON BEHALF OF BHEL, HARDWAR

(A. Sanyal)
DGM (Capital Purchase)

INSTRUCTIONS TO BIDDERS FOR OPEN TENDER

Only those bids will be opened which has been submitted with requisite EMD & tender fee.

- 1.0 The tenders shall be submitted in three parts (part I Techno -Commercial Bid & part II price Bid & part III vendor evaluation form) as described below on or before the due date.
- **The Quotation should be from the Principal / Original Manufacturer, failing which the quotation is likely to be ignored.**
 - Any corrections / amendments shall be properly & fully authenticated with signature.
- 1.1 PART-I (TECHNO-COMMERCIAL BID) shall comprise of following documents:
- a) Complete Technical offer in TWO sets (one original + one copy).
 - b) Catalogue of the Equipment,
Complete reference of the past supply of equipment for the same or similar specification giving details of customer with Name of the contact person, Fax no, phone no, E-mail if available.
 - c) Acceptance of commercial terms by vendor as per **Annexure I**.
 - d) Deviation with reference to specification to be laid down on separate sheet.
 - e) Copy of price Bid (without prices).
 - f) Validity of offer should be at least 180 days from tender opening.
 - g) Quality plan to be submitted on the prescribed format as per BHEL Quality requirements for approval, Quality plan should enclose vendor's own standard, test procedures, list of sub vendors for Bought out items cross-referred, if any.
 - h) Acceptance to submit Security Deposit and Performance Bank Guarantee as per enclosed format **Annexure-III**.
 - i) Warranty 24 months from commissioning of the equipment unless other wise specified in the technical specifications.
 - j) The rating of the company quoting for this tender from a third party (independent agency) preferably by M/S Dun and Bradstreet should be submitted. (DUN NUMBER), however this is not mandatory.
 - k) Any additional documents (please specify).
 - l) Consortium Bank List at **Annexure-IV**.
- 1.2 PART-II (PRICE BID)
- The price Bid (with price) which has been submitted with part I, for the complete scope as specified in the price Format attached as **Annexure-II**.
- 1.2.1 a) Dispatching port & Country to be mentioned: The vendor has therefore **essentially to quote sea freight up to Mumbai port** / (Air freight up to Delhi Port). The foreign bids will be compared on C&F Mumbai port basis. For this purpose, the freight rates as per BHEL's rate contract shall be taken into account if the vendor has not quoted the freight rate up to Mumbai Port.
- b) For Indigenous -F.O.R. Destination/ Ex-works: When INDIGENIOUS bidders do not quote on "FOR Destination" basis the freight rates as per BHEL's transport contract shall be taken into account.

- 1) Transportation & Transit insurance shall be taken care of by BHEL.
- 2) Applicable sales Tax, Excise duty, service tax, educational cess and any other statutory levy should be indicated separately and clearly in the quotation, else it will be concluded that the offer is inclusive of all taxes and duties. The comparison between foreign and indigenous bids shall be done based on the Landed price basis (FOR DESTINATION).

1.3 Part-III (Vendor Registration/ evaluation form)

The VREF duly filled up will be assessed for manufacturing capability, quality systems being followed, organizational soundness and financial worthiness.

2.2 PART-I containing techno-commercial part and part-III containing vendor Registration/ evaluation form will be opened on the date and time specified in the covering letter, in the presence of those tenders who wish to attend.

2.3 BHEL reserves the right to open the price bid (part-II) along with the opening of techno-commercial offer at its option and in that case vendor will be informed accordingly.

2.3.1 The part-II price Bid along with supplementary priced bid if necessary will be opened at a later date of only those bidders whose techno-commercial bid and financial health has been found acceptable.

3.0 MARKING OF ENVELOPE:

3.1 The part-I, part-II & part-III and the envelope containing drafts for EMD and tender fee shall be individually sealed and super scribed as indicated above and shall be enclosed further in the envelop duly sealed and super scribed as "TENDER FOR (ITEM NAME) AGAINST TENDER NO.----- ----- DUE ON -----CONTAINING PART-I & PART-II OF THIS OFFER.

3.2 The following shall be subscribed on the envelopes:

1. EMD AND TENDER FEE. : Details of Drafts attached (No, Bank, Branch, Issue date)
2. PART-I
 1. TENDER NO. AND ITEMS DESCRIPTION.
 2. DUE DATE FOR OPENING.
 3. "TECHNO-COMMERCIAL BID PART-I"
3. PART-II
 1. TENDER NO. AND ITEMS DESCRIPTION.
 2. DUE DATE FOR OPENING OF PART-I.
 - 3."PRICE BID PART-II".
4. PART-III
 1. TENDER NO. AND ITEMS DESCRIPTION.
 2. DUE DATE FOR OPENING.
 3. Vendor evaluation/ registration form. Can be downloaded from www.bhel.com

3.3 Envelopes not marked as above are liable to be ignored and will not be opened.

4.1 Tenders when finalized shall be in the name of the bidder only and change of name during tender evaluation (without certificate from registrar of company) and after submission of the tender is liable to make the offer ineligible for participation.

4.2 All test certificates / Guarantee certificates to be submitted in TRIPLICATE prior to despatch of materials for review and acceptance by BHEL.

IN CASE YOU ARE NOT MAKING AN OFFER AGAINST THIS ENQUIRY, THEN PLEASE ARRANGE TO SEND A LETTER OF REGRET IF YOU HAVE COLLECTED THE TENDER DOCUMENTS FROM BHEL.

Thanking You,

Yours faithfully,
For & on behalf of BHEL, Hardwar.

(A. Sanyal)
DGM (Capital Purchase)

ANNEXURE-I

ACCEPTANCE OF COMMERCIAL TERMS BY VENDOR

TENDER NO. SL. NO.	DESCRIPTION	VENDOR'S CONFIRMATION
1)	<u>Payment terms:</u> 80% of the material cost to be paid against delivery / dispatch documents. Balance 20% of material cost and E&C and proving charges will be paid after satisfactory erection & Commissioning. (Through Bank for Indigenous & L/C in case of Import).	
	NOTE: a) As per payment terms, minimum 20% will be released by BHEL after successful erection, commissioning and job proving. b) Further this 20% will be released against submission of performance bank guarantee valid for entire warrantee period from the date of commissioning. c) The security deposit is to be as per the tender condition.	
	Loading on payment terms if not agreed by vendor will be as follows: Loading: Advance amount, if any (Amount – X) 1.5% per month for the quoted delivery period for the amount 'X' Payment at the time of dispatch against shipping/dispatch documents (Amount Y): "1.5% per month for the amount X+Y exceeding 80% of contract value i.e. 1.5% of (X+Y-0.8Z) where Z is the contract value. As such loading of 6% will be done for imported and 3% for indigenous items."	
	In case any bidder does not accept any of the condition at (a) to (c) above then, their offer is likely to be rejected by BHEL and technical bid will not be processed, and no correspondence in this regards will be entertained	
1.2	<u>P.B.G. TERMS:</u> Performance Bank Guarantee to be submitted on the prescribed format equal to the value of 10% of the total order value valid WARRANTY / GUARANTEE agreed period. This bank guarantee in the format to be prescribed by BHEL, shall have to be submitted before release of last balance payment.	
1.3	<u>CURRENCY OF PAYMENT:</u> (Euro / Dollar / CHF etc.)	
1.4	For indigenous supply the currency shall be Indian Rupees.	
1.5	<u>SUPERVISION CHARGES:</u> For Indian Suppliers: It should be quoted in Rupees. For Foreign suppliers: If supervision is being carried out by persons residing in India, it should be quoted in Indian Rupees.	

<p>1.6 TAXES All statutory taxes, if any, will be deducted at source & to be borne by the beneficiary. Tax deduction certificate shall be issued at the end of financial year if required.</p>	
<p>2. Security Deposit: Vendor has to submit security equal to the amount of 5% of the total order value in the currency of order within one month of receipt of order in the form of Bank Guarantee in BHEL format valid for two months beyond shipment.</p>	
<p>2.1 Submission of Bank Guarantee : All bank guarantee for security deposit as well as proforma bank guarantee should be from one of the BHEL consortium banks and the bank guarantee should be in the proforma as prescribed by BHEL. The performance bank guarantee as well as the list of consortium banks is displayed at BHEL web-site www.bhelhwr.co.in however, in case the bank guarantee is not from BHEL consortium banks, then the vendor has to confirm bank guarantee on consortium bank and the bank charges are to be borne by the bidder.</p>	
<p>3. Liquidated damages: L.D. shall be applicable for delayed delivery @ 0.5% per week and part thereof subject to a maximum of 10% for total P.O. value. If any vendor do not accept the LD @ of 0.5% per week and part thereof subject to a maximum of 5% of total PO value, their offer will be ignored. Vendors accepting LD terms different from the proposed terms of 0.5% maximum 10% will be loaded @ %age deviation from the range of 10% on their prices (FOB for imported and ex-factory for indigenous). If the vendor does not accept as above their offer is likely to be ignored and technical bid will not be processed.</p>	
<p>4) Delivery of the equipment:</p> <ul style="list-style-type: none"> • Categorically indicate time period required for delivery of the equipment. • Firm delivery period for the equipment to be stated w.e.f. date of LOI/ Order. Commissioning & Handing over of complete system in weeks. 	
<p>5) Settlement of Disputes:</p> <ul style="list-style-type: none"> • Settlement of disputes through arbitration shall be in accordance with Arbitration Rules of Conciliation and Arbitration of the ICC, Paris. The venue of arbitration shall be Delhi. The courts of Delhi shall have exclusive jurisdiction. • For Indigenous Source. The venue of arbitration shall be Haridwar Courts, which will have exclusive jurisdiction. 	

<p>6) <u>Authorization for pre-inspection:</u> BHEL is authorized to pre inspect the material at your works. The material will be despatched only after getting clearance from BHEL.</p>	
<p>7) <u>Drawing / data approval</u> Any drawing / data approval required from BHEL after placement of order Shall be the responsibility of the vendor and any delay on account of the same shall be the responsibility of the vendor and have no bearing on the penalty applicable.</p>	
<p>8) <u>Drawing / design / information use:</u> The vendor will have to give an undertaking that the drawing / design / Information enclosed with the enquiry / proposed order will not be parted to any other agency and will also not be used for manufacturing for any other customer.</p>	
<p>9) <u>Time period for Foundation / Erection & Commission:</u> vendor will have to ensure deputation of their people for erection & commissioning or for attending to any complaint during guarantee period within 7 days of intimation. In case of delay BHEL will be within their rights to get the job completed at the risk and cost of the supplier.</p>	
<p>10) <u>5 Sets of O&M Manual:</u> 5 Sets of Operation & Maintenance Manual shall have to be supplied along with the equipment. Final payment will be released only after receipt of the required documentation.</p>	
<p>11) <u>Training:</u> Vendor shall provide required training to BHEL personnel free of cost.</p>	
<p>12) <u>Purchasing of BOI items:</u> Vendor shall purchase the BOUGHT OUT ITEMS only from vendors of repute and indicate the same to BHEL at the time of approval of GA drawing. BHEL reserves the right to visit / inspect the works of supplier and that of their sub contractors before or after placement of order.</p>	
<p>13) <u>Spares, tooling, jigs and fixtures:</u> The equipment being new, above items shall be needed in bulk at a later stage. However two separate lists of spares, tooling, jigs and fixtures should be sent along with quotation. 1. Items which you recommend very necessary to be available along with the equipment. 2. Item which may be required at a later stage. (The price validity of these items should be for a minimum period of two years from the date of commissioning of the equipment).</p>	

14) Warranty/ Guarantee: 24 months from the date of despatch or 18 months from the date of commissioning.	
15) Details of Contact person Name, Designation, Department complete postal, E-mail address & Fax no, phone, Mobile no. to be mentioned.	
16) Phyto sanitary Certificate essential for packages (Wooden).	
17) Validity: Validity of the offer should be 180 days from tender opening.	
18) Bank Charges: Bank Charges to be borne by Vendor.	
Note: Attach separate sheet for additional information if necessary. The above terms & condition supersedes the terms & conditions found contradictory written else where in the tender enquiry.	

PRICE SCHEDULE**ANNEXURE-II**

SL. No.	DESCRIPTION	PRICE IN (RS. / CURRENCY)
1.1	BASIC M/C AND EQUIPMENT AS PER TECH. SPECIFICATION COVERING ALL FEATURES (PLEASE ATTACH UNPRICED COPY OF YOUR PRICE BID) THE SEQUENCE OF PRICE AND OTHER DEATAILS SHALL BE KEPT SAME AS STATED IN THE SPECIFICATIONS.	
1.2	ESSENTIAL TOOLINGS / CONSUMABLES (PL. ATTACH ITEM WISE DETAILS SEPARATELY).	-----
	SUB TOTAL	-----
1.3	SUPERVISION OF ERECTION & COMMISSIONING CHARGES.	-----
	SUB TOTAL	-----
1.4	SPARES AS SPECIFIED (PL. GIVE ITEMWISE DETAILS SEPARATELY).	-----
1.5	PACKING AND FORWARDING CHARGES	-----
1.6	FREIGHT	-----
	TOTAL	-----
2.0	OPTIONAL	
2.1	OPTIONAL ITEMS AS PER TECH SPECIFICATION (PL. ATTACH ITEMWISE DETAILS SEPARATELY).	-----
	SUB TOTAL	-----
2.2	ERECTION & COMMISSIONING CHARGES IF UNDERTAKEN BY VENDOR.	-----
	SUB TOTAL	-----
2.3.	OCEAN FREIGHT UPTO MUMBAI INDIA IF SHIPMENT DONE ON C & F BASIS.	-----
	SUB TOTAL	-----

NOTES :-

- a) Item wise breakup of the prices shall be as per TECH. SPECIFICATION / DISCUSSIONS; ELSE, THE BID IS LIABLE FOR REJECTION.
 - b) Bidder to note that total price indicated above SL 1.1-1.6 shall be considered for evaluation and hence should be complete in all respects for the full scope defined and considering all terms and conditions. Optionals as indicated in specification will not be taken for evaluation.
 - c) Any item not included in this price quoted above and shown separately will not be taken cognizance of and shall be ignored while evaluation.
- 3.0 Total weight – /Gross / Net in Kg. Also package size essentially should be indicated if not exact then approximate.
- 4.0 Following details shall be provided in separate Annexure.
- A) Unit prices for variable items.
 - B) Prices for any other OPTIONAL items.
- 5.0 **Excise duty:** Concession forms requirements etc. to be stated wherever applicable.

NOTE:

1. BHEL will evaluate the technical bids against essential criteria/requirements. BHEL may seek clarifications, if required, from the qualified bidders only. These clarifications will be communicated to the eligible vendors and they will be asked to attend techno-commercial discussions on specified dates. The bidders will be given 15 days notice to come prepared with the required documents/ clarifications. No extension will be given. **The offers of those bidders, who are unable to respond in this time frame, are likely to be ignored.**
2. The vendors found technically acceptable against their original technical offer and subsequent technical discussion BHEL will communicate equivalent scope of supply to the qualified bidders who will be required to submit their supplementary technical bid along with impact in the form of addition and deletion in their price bid in separate sealed envelopes. They will also be required to submit copy of un-priced price bid of these impacts in a 3rd sealed envelope duly super-scribed. These will be submitted within 15 days. The technical bid along with un-priced price bid of impact will be opened on the communicated date and no extension in this time will be given.

It is clarified that no correspondence – technical or commercial – other than the above bids is permissible. In case any uncalled for correspondence – technical or commercial – is received, the same will be ignored and entire bid also may be ignored. It is also clarified that no commercial discount will be acceptable.

3. All the bidders whose offers have been accepted by BHEL will be given one-week notice for opening of their original price bid and supplementary impact.

Date

Signature

Name

Designation

Department

M/S

LIST OF CONSORTIUM BANK

- | | |
|---|--|
| <p>1. State Bank of India
CAG Branch,
10-th Floor, Vijaya Building,
Barakhamba Road,
New-Delhi-110001</p> | <p>10. HDFC Bank Ltd
5th Floor, HT House,
K G Marg,
New-Delhi-110001</p> |
| <p>2. Canara Bank
74, Janpath,
New-Delhi-110001</p> | <p>11. CITI Bank N A
Jeevan Vihar Building,
Sansad Marg,
New-Delhi-110001</p> |
| <p>3. Punjab National Bank
74, Janpath,
New-delhi-110001</p> | <p>12. Standard Chartered Bank
H2 Block, Connaught place,
New-Delhi-110001</p> |
| <p>4. Bank of Baroda
Corporate Banking Branch,
11th Floor, BOB Building,
Sansad Marg,
New-Delhi-110001</p> | <p>13. ICIC Bank Ltd.
ICIC Tower,
Bisham Pitamah Marg,
Pragati Vihar,
New Delhi 110003</p> |
| <p>5. Deutsche Bank
Tolstoy Marg,
New-Delhi-110001</p> | <p>14. IDBI Bank Ltd.
19, K G Marg,
Surya Kiran Building,
New-Delhi-110001</p> |
| <p>6. State Bank of Hyderabad
Surya Kiran Building,
K. G. Marg,
New-Delhi-110001</p> | <p>15. HSBC Ltd.
ECE House,
28 KG Marg,
New-Delhi-110001</p> |
| <p>7. State Bank of Mysore
Antriksh Bhawan,
K. G. Marg,
New-Delhi-110001</p> | |
| <p>8. State Bank of Mysore
Industrial Finance Branch,
Ramanashree Arcade,
MG Road,
Bangalore-560001</p> | |
| <p>9. State Bank of Travancore
Travancore House,
IF Branch, K G Marg,
New-Delhi-110001</p> | |



ANNEXURE-IV

WAM-28

Proforma for Bank Guarantee

In consideration of the Bharat Heavy Electrical Limited Siri fort N. Delhi through Division HEEP Hardwar (hereinafter called the Company') having agreed to exempt ----- (hereinafter 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 date. ----- Made between ----- and ----- for (hereinafter 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).

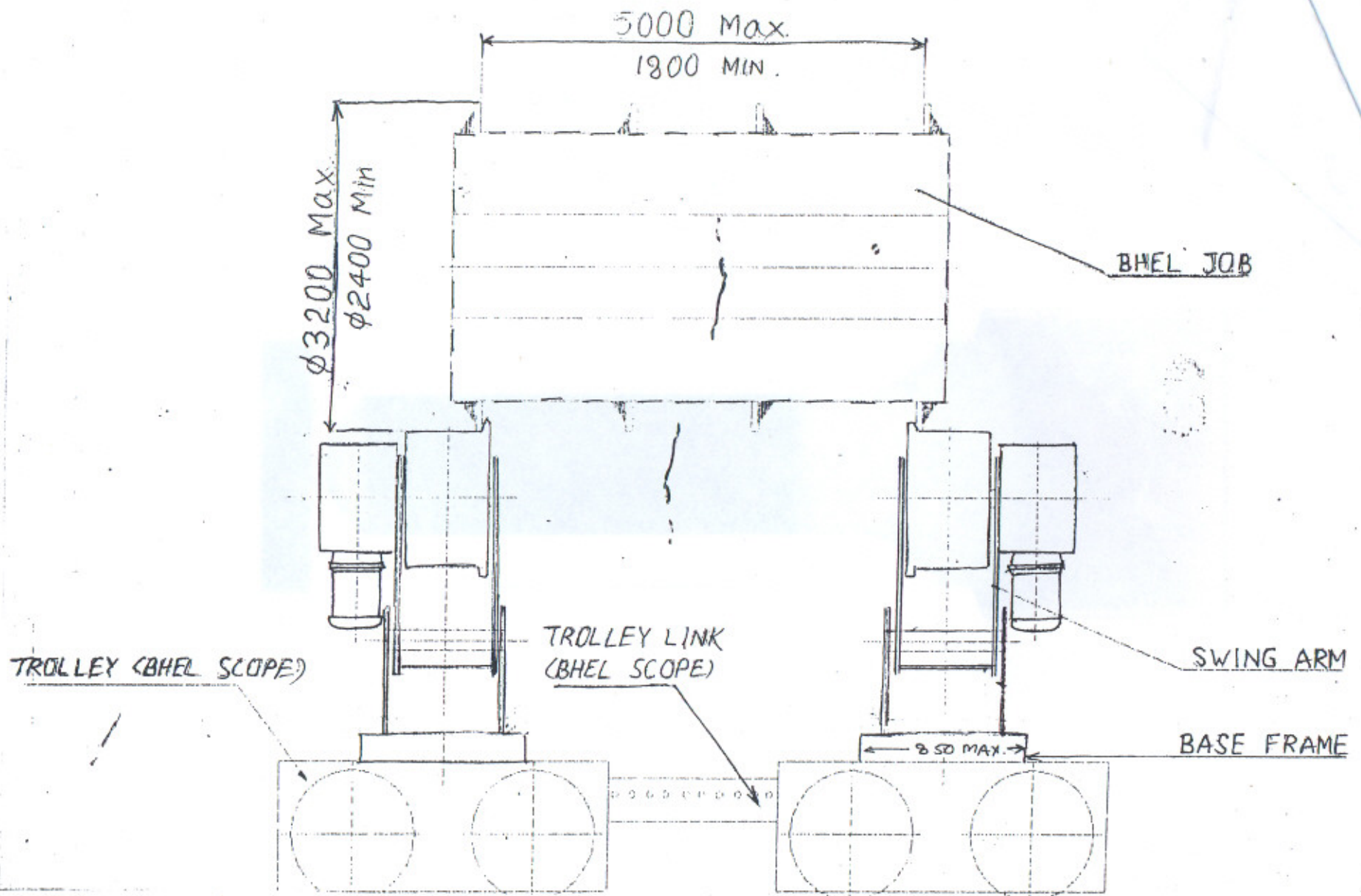
1. We, ----- (Indicate the name of the Bank) (hereinafter referred to as 'the Bank') at the request of----- (Contractor (s) do hereby undertake to pay to the Company an amount not exceeding Rs. ----- against any loss or damage caused to or suffered or would be caused to or suffered by the Company by 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 to pay the amounts due and (indicate the name of the Bank) 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 of 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 a valid discharge of our liability for payment there under and the Contractor(s) shall have no claim against us for making such payment.

4. We, ----- further agree that the Guarantee herein contained (indicate the name of the Bank) 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 dues 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 Electrical 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 discharged 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 thereafter.
5. We, -----, further agree with the Company that the (indicate the name of the Bank) 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 of performance by the said contractor(s) from time to time or to postpone for any time or from time to time any of the power 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 this guarantee during its (indicate the name of Bank) currency except with the previous consent of the Company in writing.

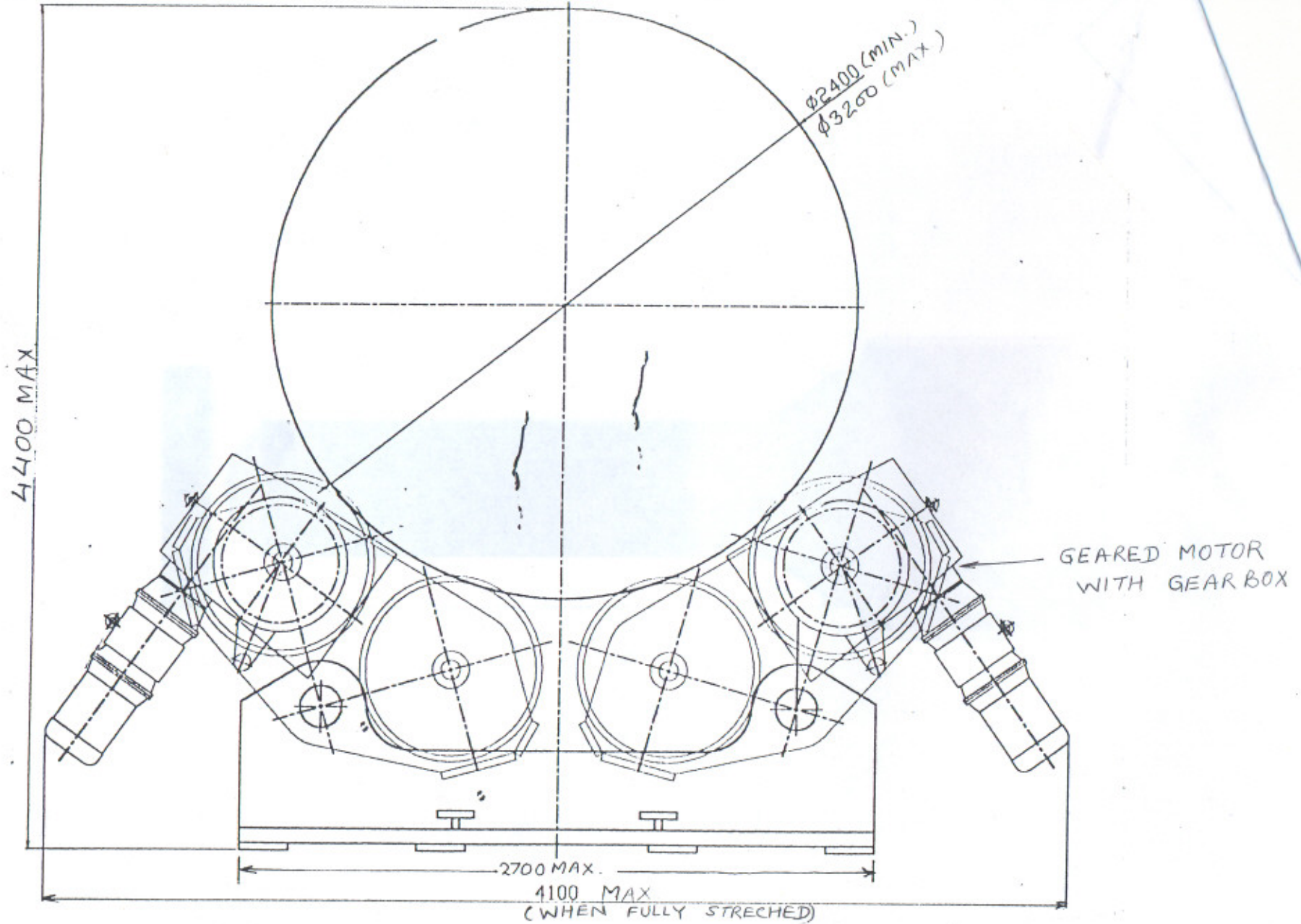
Date the -----day of -----
For -----
(Indicate the name of the Bank)

Annexure-I



Schematic arrangement for mounting of wound stator core on rotator trolley

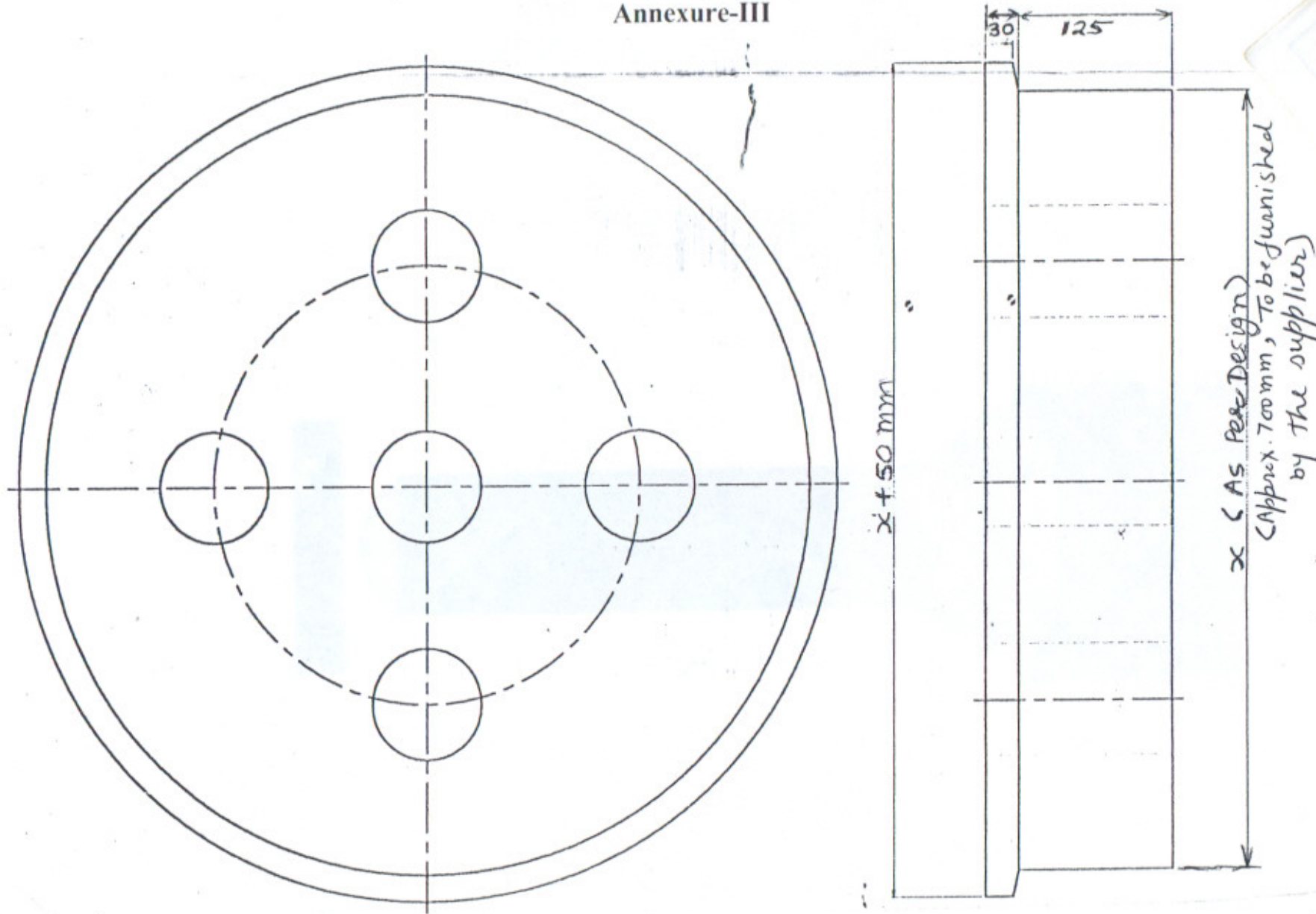
Annexure-II



**GENERAL LAYOUT OF 250 TONS CAPACITY
SELF-ALLIGNED FLAME PROOF ROTATORS**

WHEEL FOR - 250 TONS CAPACITY
SELF-ALIGNED FLAME PROOF ROTATORS

Annexure-III



QUALITY PLAN FOR CAPITAL MACHINE TOOLS

BHEL QC-178			NAME OF SUPPLIER-----NAME OF EQUIPMENT----- - Q.P NO.-----REV NO.-----INDENT NO----- SPECIFICATION NO.-----REV NO.-----						SHEET-----OF----- * P-PERFORMANCE 1.BHEL REP W-WITNESSED BY 2.VENDOR V-VERIFIED BY 3.SUB - VENDOR FINALLY TO BE REVIEWED BY BHEL HARDWAR			
SL. NO.	MAJOR COMPONENTS / SUB ASSEMBLIES	DETAILS OF COMPONENTS GOING IN THE ASSLY 'COL-2'	CLASSIFICATION MATERIAL GRADES	TYPE OF CHECKS (SEE DETAILS AT ANNEX-I)	QUANTUM OF TEST REFERENCE DOCUMENT FOR TESTING	REFERENCE DOCUMENT FOR TESTING	ACCEPTENCE NORMS	FORMAT OF RECORDS	AGENCY FOR TESTING (TO BE PROPOSED BY VENDOR)*			REMARKS
1	2	3	4	5	6	7	8	9	10	11	12	13

Prepared by:
 (Signature and seal of the Head of
 Quality Management Of Supplier's works)
NOTE: Annexure-I is enclosed herewith

Approved by:
BHEL Hardwar
 (Signature & Seal of Approving Authority)

TYPE OF CHECK FOR COL. NO. 5

Code	Description	Code	Description
1.	Visual	17.	No Load / Free running Test
2.	Dimensional	18.	Load / Over Load Test
3.	Fitment and alignment	19.	Measurement of speed / RPM
4.	Physical Test (Sample)	20.	Surface Finishing
5.	Chemical Test (Sample)	21.	Manufacturing Test Certificate for Bought
6.	Ultrasonic Test (UT)		Out Items (BOIs)
7.	Magnetic Particle Test (MPI)	22.	Internal Inspection Report by Contractor
8.	Radiography Test (RT)	23.	Hardness Test
9.	Dye Penetration Test (DPT)	24.	Acoustical Test
10.	Welder's Qualification Test	25.	High Voltage (HV) Test
11.	Heat Treatment	26.	Megger Test
12.	Pressure Test Leakage Test Balancing	27.	Circuit / Continuity Check
13.	Leakage	28.	Simulation Checking
14.	balancing	29.	Any other relevant tests to Assure the
15.	Vibration Test		performance of the Equipment
16.	Performance	30.	Proof Testing at BHEL Hardwar