

PI 220440038 ANNEXURE-1**TECHNICAL ANNEXURE FOR RATE CONTRACT FOR PLAIN SHAFT MACHINING**

- 1) Three vendors required for this contract in each item. Quantity Distribution shall be as 50:30:20 ratio.
- 2) Tools, jigs & fixtures will not be provided by BHEL.
- 3) Rate contract will be valid for one year from RC freeze date for placement of PO. RC validity may be extended for further 6 months with mutual consent of both BHEL and the suppliers.
- 4) Material should be lifted within 3 working days from date of intimation. If any error or discrepancy found in rough material dimensions, it should be intimated and returned back to BHEL within 3 working days after lifting of material. If Shaft is not lifted in above mentioned time frame, then BHEL reserves the right to cancel / divert the PO to other vendors and same will be as per BHEL norms.
- 5) In every supply against each PO., supplier has to ensure identification on each Shaft by hard punch which includes PO no., Drg. No., Sl. no. of lot and supplier identification code prefixed with "MACHINED BY" (Supplier to submit their code for identification). BHEL reserves the right to reject the Shafts on account of non-availability of identification by Hard Punch as mentioned above.
- 6) BHEL reserves the right to revise the technological hours on account of Technological improvement / Tooling improvement / Development / Shop feedback. RC will be freed on Rs./Hr. & PO shall be placed on number basis based on machining technological hours of each Shaft.
- 7) Supplier to submit dimension report along with each supply to IMM / QC as well as retain a copy with them for record.
- 8) BHEL reserves the right to reject each Shaft subject to unsatisfactory Assembly / Performance of motor on account of Shaft.
- 9) Soon after rejection of Shaft, it is to be ensured by supplier that Shaft should be taken back maximum within 3 working days after communication for rectification / replacement & supply back the rectified / fresh material to BHEL Bhopal within 5 working days from lifting of material.
- 10) Any build up / repairs if required for machining shall be done by vendor as per BHEL specification as mentioned in drawing with prior approval from BHEL.
- 11) Total cost of finished Shaft will be recovered by BHEL from vendor on final rejection of Shaft as per BHEL norms.
- 12) Supplier to submit name of one competent person along with his / her mobile no. and email ID to whom all communication (verbal or written) to be made for purpose of status and PDC.
- 13) Issuing of free issue Raw Materials will depend on availability and requirement of items.
- 14) Delivery of Shaft shall be as per following details from date of issue of Shaft:
 - (a) Upto issue of 2 Shafts at a time - Delivery will be within 10 days for both the Shafts from issue date.
 - (b) Upto issue of 3 Shafts at a time - Delivery will be within 10 days for first 2 Shafts and within 15 days for 3rd Shaft from issue date.

- (c) Upto issue of 4 Shafts at a time - Delivery will be within 10 days for first 2 Shafts and within 15 days for 3rd Shaft and within 20 days for 4th Shaft from issue date.
- (d) For more than 4 Shafts at a time - Delivery will be in same ratio as above to be followed i.e. 5 days per Shaft from 5th Shaft onwards.

15) In labour basis jobs, delivery is governed from the date of lifting of material. The manufacturing cycles for IMM Motors are very short and IMM are receiving short contract delivery from customers. Also inventory is not maintained for these Shafts. Hence as soon as requirement for these Shafts comes and material is received in IMM from FBM, Shafts will be machined in-house or offloaded against this RC as applicable. Hence, offer of firms not meeting BHEL requirements will not be considered.

16) Inspection will be done by BHEL approved TPIA / QIX at supplier work.

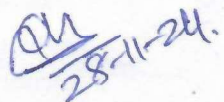
17) Offloading will be done only after full utilisation of shop capacity.

18) Total variation in quantity may be +/-20%.

19) Scrap generated during machining will be retained by vendor and corresponding cost will be deducted from invoice. Scrap Rate will be taken by Finance.

Sr. MGR [IMM-PLG]

AGM [IMM] - HOD


SUMEET KHADAKKAR
MGR [IMM-PLG]

PI 220440038 ANNEXURE-2
ANNUAL REQUIREMENT OF PLAIN SHAFT MACHINING
FOR RATE CONTRACT FOR ONE YEAR

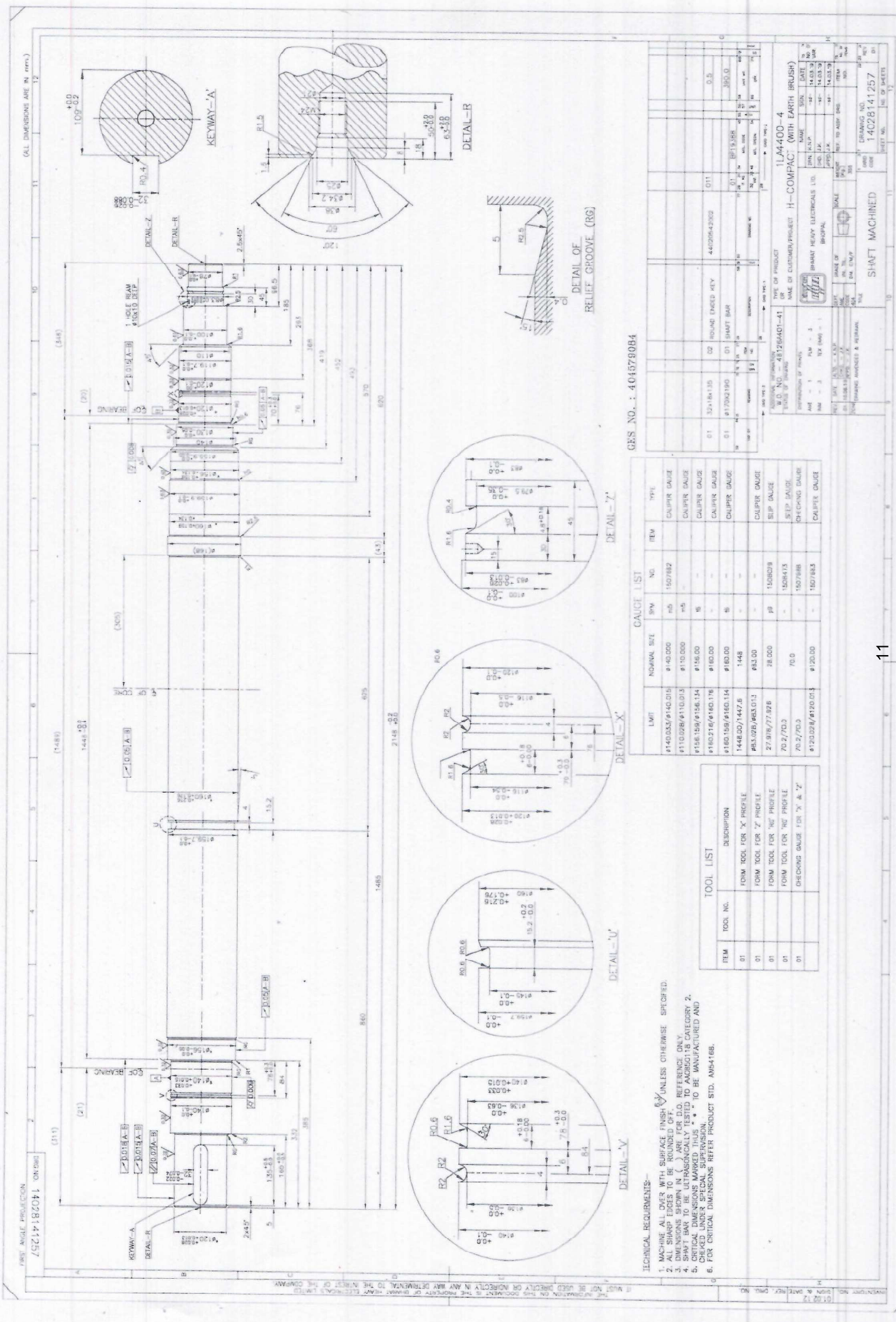
Sl. No.	Description	Avg M/c Hr / Shaft	Qty in Nos.	Total Hrs.	M/c Rate / Hr	Total Value in Rs.	Total Value in Rs. including +20% quantity variation
1	Plain Shaft Machining	32	150	4800			

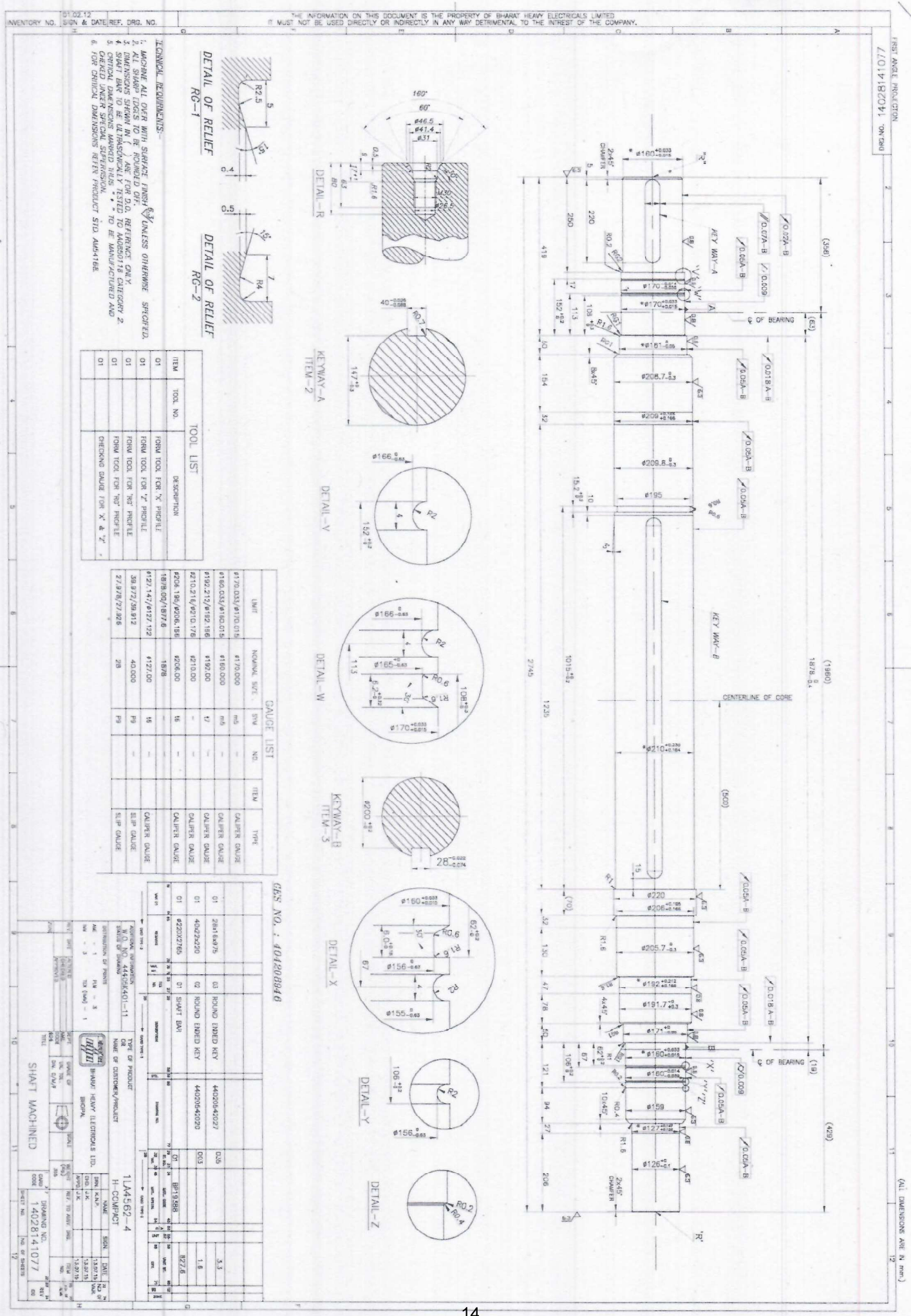
- [1] Average machining hrs may vary as per actual technological hours.
- [2] All Technical & Delivery Requirement along with other terms & condition shall be as per Annexure-1.
- [3] For estimate refer Annexure-2 as enclosed in envelope.
- [4] Material Category 003700 will be applicable
- [5] PMD NAS03 & PMD Item No. 81 will be applicable.

24/11/24
 Sr. DGM [IMM-PLG]

25-11-24
 SUMEET KHADAKKAR
 DY. MGR [IMM-PLG]

29.11.2024
 AGM [IMM & LEM] - HOD





**Minimum Technical Qualifications Required for supplying Shaft machining
as per BHEL Drawing and technical requirements**

Ref no: AME/MTQ/SHAFT machining

Date: 14-12-2024

Following are the mandatory requirements. Offers of vendors not meeting these requirements will not be considered.

S. No.	Description of pre-qualification requirement	Supporting Documents required	Complied (Yes / No)																		
1.	<p>a. Vendor must have machining experience of shaft for industrial motor /generator at least 2 years.</p> <p>b. Vendor must have manufacturing facilities for machining shaft of following range:</p> <p>i. for plain shaft, diameter D (in mm) $130 < D < 300$.</p> <p>ii. length L (mm) $1500 < L < 4000$</p> <p>iii. Weight 200kg min.</p> <p>iv. For Ribbed shaft, diameter D(in mm) $250 < D < 500$</p> <p>v. Length L(mm) $1500 < L < 4000$</p> <p>vi. Weight 300kg min.</p> <p>c. Out of these, vendor must have executed machining of shaft having diameter equal or more than quoted items and as per current Enquiry.</p> <p>In addition to the above, Offer of vendor will be considered only for those items where the above condition is fulfilled.</p>	<p>a. In support of this, the vendor has to furnish details of 02 Nos. Shaft machining supplied in last 5 years. In following formats:</p> <table><tr><td></td><td>Supply No. 1</td><td>Supply No. 2</td></tr><tr><td>Name of customer</td><td></td><td></td></tr><tr><td>Month & Year of Supply</td><td></td><td></td></tr><tr><td>PO No</td><td></td><td></td></tr><tr><td>Shaft major Diameter (in mm)</td><td></td><td></td></tr><tr><td>Other info if any</td><td></td><td></td></tr></table> <p>This should be accompanied by Self-declaration, providing, purchase order/SRV reference, purchase order date, customer name, quantity supplied and supply date.</p> <p>b. 2 copies of Po /SRV shall be submitted. In case of BHEL PMD vendors only PO no will suffice the requirement against SI no 01.</p> <p>c. Details dimensions report of machined shaft to be submitted.</p>		Supply No. 1	Supply No. 2	Name of customer			Month & Year of Supply			PO No			Shaft major Diameter (in mm)			Other info if any			
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2.	<p>a. Vendors must have sufficient manufacturing facilities to machine the shaft meeting all geometrical and linear tolerance viz run out, concentricity, parallelity, cylindricity etc and as per drawings, and enquiry/PO terms and conditions.</p> <p>b. The design feature, dimensions, size, tolerances shall be strictly as per technical requirements of BHEL drawings, specifications.</p>	<p>a. * Details of machining facilities to be submitted.</p> <p>b. *Compliance to be submitted.</p> <p>♥This Clause not applicable for BHEL PMD Vendors who had executed machining of shafts (plain and Ribbed) as per BHEL drawing and technical requirements as per specifications and PO terms and conditions.</p>																			
3.	<p>Vendors must have detailed manufacturing plan.</p>	<p>*Manufacturing process plan to be submitted by vendors.</p>																			
4.	<p>Vendors to confirm that machined shaft shall be as per BHEL drawing, specification and PO/Enquiry term and conditions. Vendors to sign each page of BHEL specification, drawing, technical requirements and submit with offer.</p>																				

M.K. Maravi
M. K Maravi/AGM/AME 14.12.14

Anand
Anand Kr Modi /SR Mgr

**Minimum Technical Qualifications Required for supplying Shaft machining
as per BHEL Drawing and technical requirements**

Ref no: AME/MTQ/Ribbed SHAFT machining

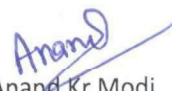
Date: 24-12-2024


Following are the mandatory requirements. Offers of vendors not meeting these requirements will not be considered.

S. No.	Description of pre-qualification requirement	Supporting Documents required	Complied (Yes / No)																		
1.	<p>a. Vendor must have machining experience of shaft for industrial motor /generator applications.</p> <p>b. Vendor must have manufacturing facilities for machining shaft of following range:</p> <p>i. For Ribbed shaft, diameter D(in mm) $250 < D < 500$</p> <p>ii. Length L(mm) $1500 < L < 4000$</p> <p>iii. Weight 300kg min.</p> <p>c. Out of these, vendor must have executed machining of shaft having diameter equal or more than quoted items and as per current Enquiry.</p>	<p>a. In support of this, the vendor has to furnish details of 02 Nos. Shaft machining supplied in last 5 years. In following formats:</p> <table><tr><td></td><td>Supply No. 1</td><td>Supply No. 2</td></tr><tr><td>Name of customer</td><td></td><td></td></tr><tr><td>Month & Year of Supply</td><td></td><td></td></tr><tr><td>PO No</td><td></td><td></td></tr><tr><td>Shaft major Diameter (in mm)</td><td></td><td></td></tr><tr><td>Other info if any</td><td></td><td></td></tr></table> <p>This should be accompanied by Self-declaration, providing, purchase order/SRV reference, purchase order date, customer name, quantity supplied and supply date.</p> <p>b. 2 copies of Po /SRV shall be submitted. In case of BHEL PMD vendors only PO no will suffice the requirement against SI no 01.</p> <p>c. Details dimensions report of machined shaft to be submitted.</p>		Supply No. 1	Supply No. 2	Name of customer			Month & Year of Supply			PO No			Shaft major Diameter (in mm)			Other info if any			
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3.	<p>Vendors must have detailed manufacturing plan.</p>	<p>*Manufacturing process plan to be submitted by vendors.</p>																			
4.	<p>a. Vendors to confirm that machined shaft shall be as per BHEL drawing, specification and PO/Enquiry term and conditions.</p>																				

5.	Relaxation in PQR provided under MSMEs or Start-ups as recognized by DPIIT- Yes/No	No. (see note-1)
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Note: Shaft machining is critical items and hence no relaxation shall be provided for MSMEs or Start-ups.


Anand Kr Modi
Sr Mgr /AME


M. K Maravi
AGM/AME /ISE/SSM

PI 220440039 ANNEXURE-1**TECHNICAL ANNEXURE FOR RATE CONTRACT FOR RIBBED SHAFT MACHINING**

- 1) Three vendors required for this contract in each item. Quantity Distribution shall be as 50:30:20 ratio.
- 2) Tools, jigs & fixtures will not be provided by BHEL.
- 3) Rate contract will be valid for one year from RC freeze date for placement of PO. RC validity may be extended for further 6 months with mutual consent of both BHEL and the suppliers.
- 4) Material should be lifted within 3 working days from date of intimation. If any error or discrepancy found in rough material dimensions, it should be intimated and returned back to BHEL within 3 working days after lifting of material. If Shaft is not lifted in above mentioned time frame, then BHEL reserves the right to cancel / divert the PO to other vendors and same will be as per BHEL norms.
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- 7) Supplier to submit dimension report along with each supply to IMM / QC as well as retain a copy with them for record.
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- 10) Any build up / repairs if required for machining shall be done by vendor as per BHEL specification as mentioned in drawing with prior approval from BHEL.
- 11) Total cost of finished Shaft will be recovered by BHEL from vendor on final rejection of Shaft as per BHEL norms.
- 12) Supplier to submit name of one competent person along with his / her mobile no. and email ID to whom all communication (verbal or written) to be made for purpose of status and PDC.
- 13) Issuing of free issue Raw Materials will depend on availability and requirement of items.
- 14) Delivery of Shaft shall be as per following details from date of issue of Shaft:
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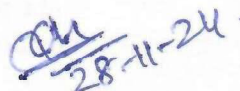
16) Inspection will be done by BHEL approved TPIA / QIX at supplier work.

17) Offloading will be done only after full utilisation of shop capacity.

18) Total variation in quantity may be +/-20%.

19) Scrap generated during machining will be retained by vendor and corresponding cost will be deducted from invoice. Scrap Rate will be taken by Finance.


Sr. MGR [IMM-PLG]


SUMEET KHADAKKAR
MGR [IMM-PLG]


AGM [IMM] - HOD

PI 220440039 ANNEXURE-2
ANNUAL REQUIREMENT OF RIBBED SHAFT MACHINING
FOR RATE CONTRACT FOR ONE YEAR

Sl. No.	Description	Avg M/c Hr / Shaft	Qty in Nos.	Total Hrs.	M/c Rate / Hr	Total Value in Rs.	Total Value in Rs. including +20% quantity variation
1	Ribbed Shaft Machining	50	150	7500			

[1] Average machining hrs may vary as per actual technological hours.

[2] All Technical & Delivery Requirement along with other terms & condition shall be as per Annexure-1.

[3] For estimate refer Annexure-2 as enclosed in envelope.

[4] Material Category 003700 will be applicable

[5] PMD NAS08 & PMD Item No. 81 will be applicable.

Sum
28-11-24

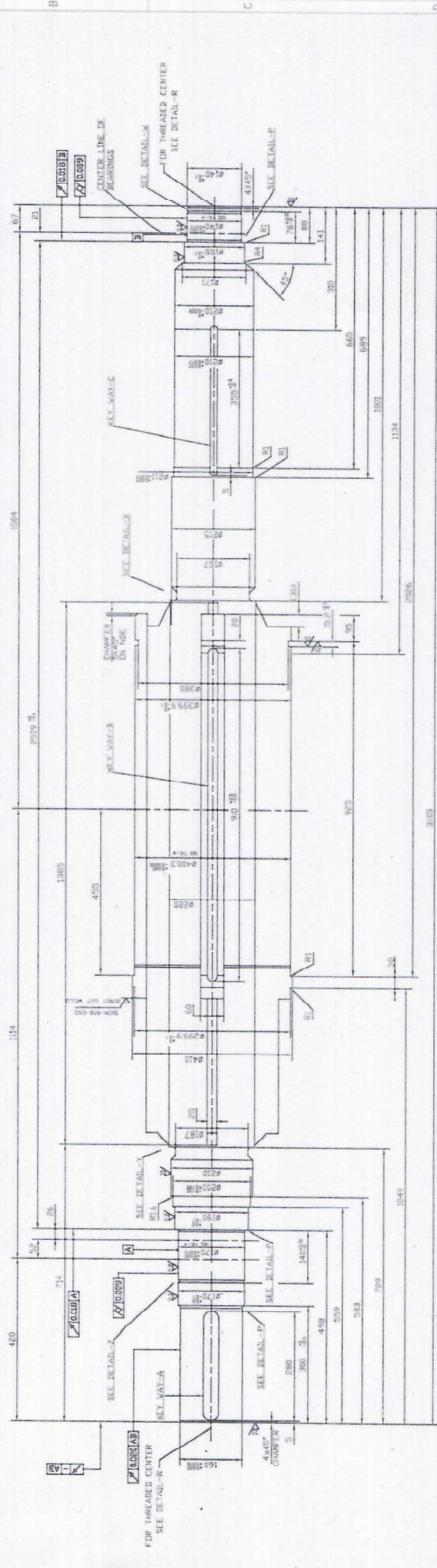
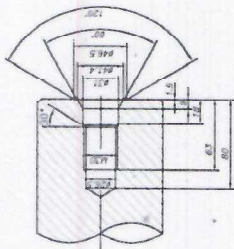
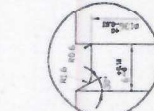
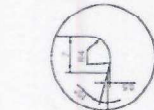
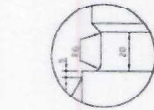
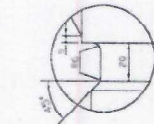
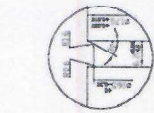
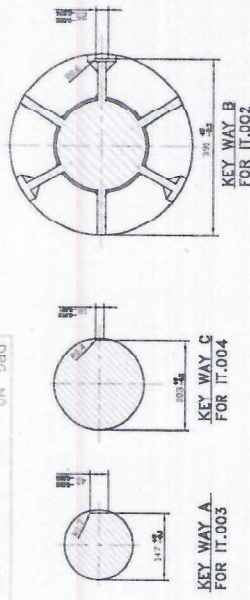
SUMEET KHADAKKAR
MGR [IMM-PLG]

Sum
24/11/24
Sr. MGR [IMM-PLG]

AGM [IMM]

Sum
25.11.2024

1402 81 41492



01	1111BX355	004	KEY (COLLECTOR)	AM 54003	001	900432024	0.55
01	22X4DX260	003	KEY (SHAFT EXTN.)	AM 54020	001		1.94
01	14X25X910	002	KEY (CORE)	AM 54001	009	900432012	2.34
01		001	SHAFT (FAB)	3402B140370	01		1130.5

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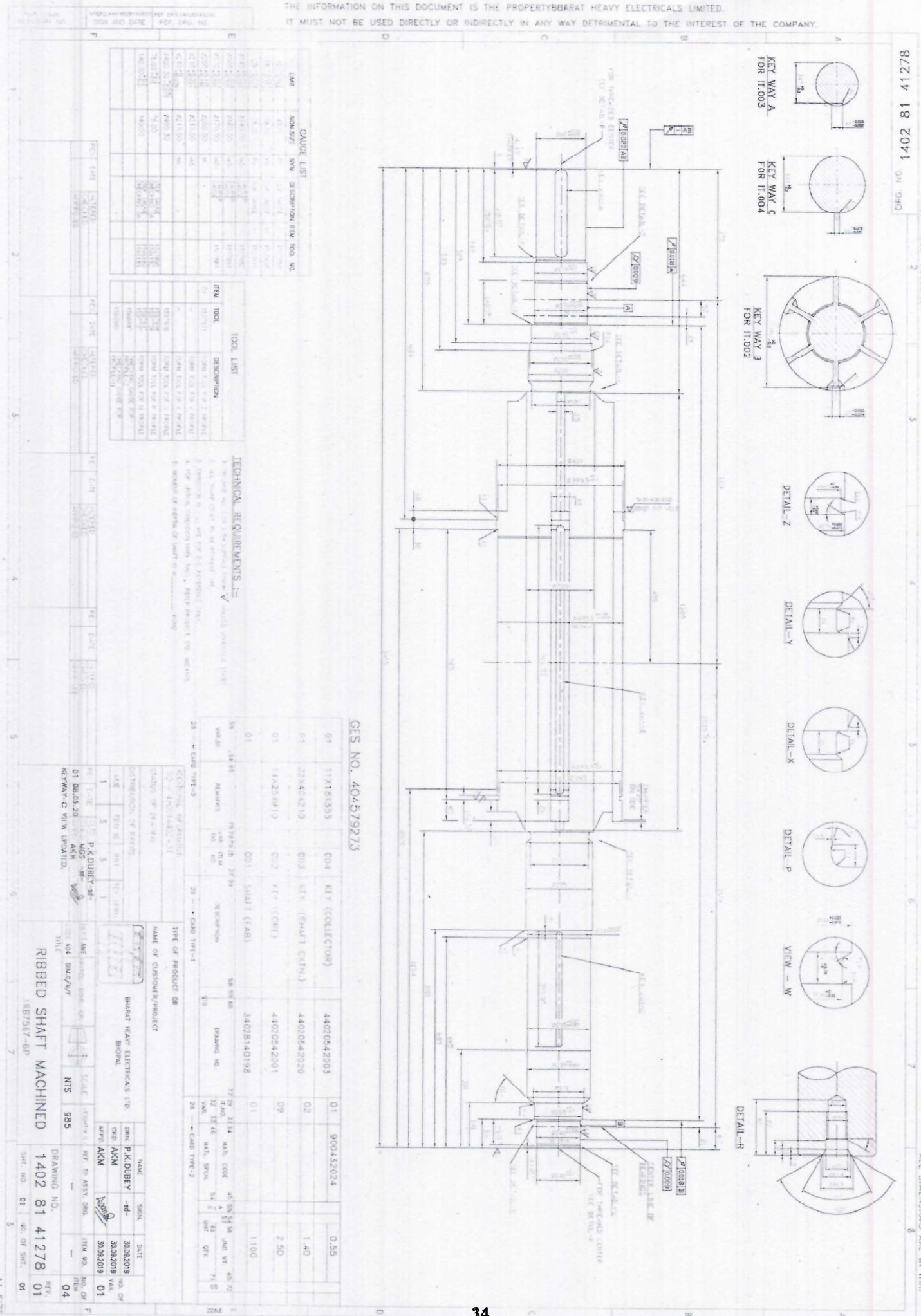
TECHNICAL REQUIREMENTS :-

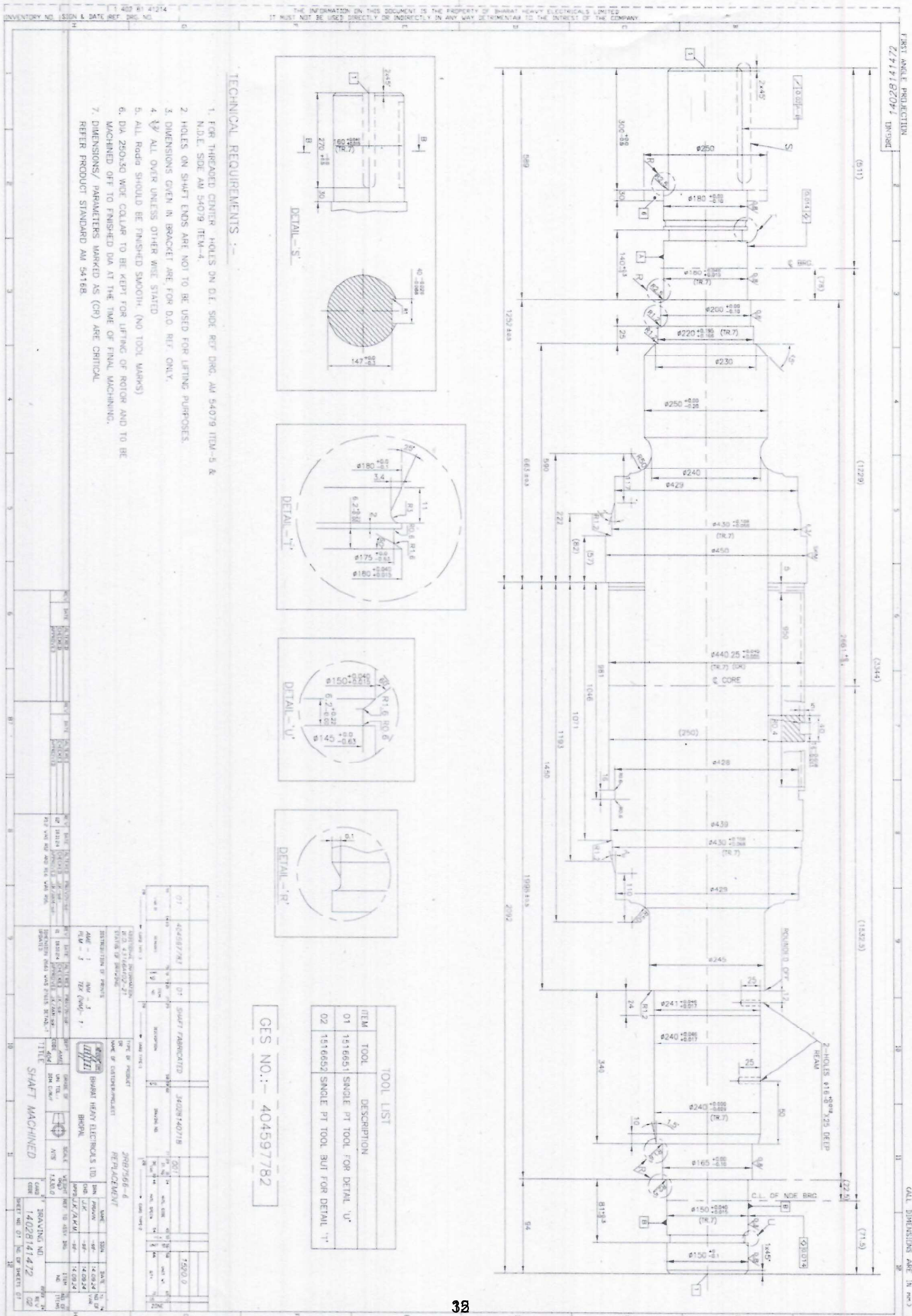
- MACHINE ALL OVER WITH SURFACE FINISH $\sqrt{\text{A}}$ UNLESS OTHERWISE STATED.
ALL SHARP EDGES TO BE ROUNDED OFF.
DIMENSION IN () ARE FOR 3-D REFERENCE ONLY.
FOR CRITICAL DIMENSION MARK THIS, REFER PRODUCT STD. AM44-168.
MOMENT OF INERTIA OF SHAFT IS = KG/M^2

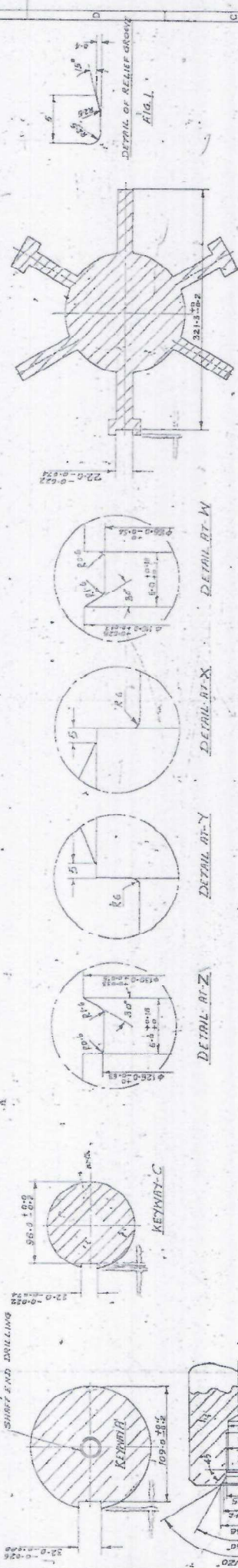
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GES NO. 404597912


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TECHNICAL REQUIREMENTS:

- 1 MACHINE ALL OVER (EXCEPT ON ϕ 3.00), WITH SURFACE FINISH V_1
2 EXCEPT WHERE SHOWN OTHERWISE.
3 REMOVE ALL SHARP EDGES.
4 DIMENSIONS ENCIRCLED THIS  ARE FOR D.D. LINE ONLY.

**Minimum Technical Qualifications Required for supplying Shaft machining
as per BHEL Drawing and technical requirements**

Ref no: AME/MTQ/SHAFT machining

Date: 14-12-2024

Following are the mandatory requirements. Offers of vendors not meeting these requirements will not be considered.

S. No.	Description of pre-qualification requirement	Supporting Documents required	Complied (Yes / No)																		
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M.K. Maravi
M. K Maravi/AGM/AME 14.12.14

Anand
Anand Kr Modi /SR Mgr

**Minimum Technical Qualifications Required for supplying Shaft machining
as per BHEL Drawing and technical requirements**

Ref no: AME/MTQ/plain SHAFT machining

Date: 24-12-2024

Following are the mandatory requirements. Offers of vendors not meeting these requirements will not be considered.

S. No.	Description of pre-qualification requirement	Supporting Documents required	Complied (Yes / No)																		
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Shaft major Diameter (in mm)																					
Other info if any																					
2.	<p>a. Vendors must have sufficient manufacturing facilities to machine the shaft meeting all geometrical and linear tolerance viz run out, concentricity, parallelity, cylindricity etc and as per drawings, and enquiry/PO terms and conditions.</p> <p>b. The design feature, dimensions, size, tolerances shall be strictly as per technical requirements of BHEL drawings, specifications.</p>	<p>a. * Details of machining facilities to be submitted.</p> <p>b. *Compliance to be submitted.</p> <p>*This Clause not applicable for BHEL PMD Vendors who had executed machining of shafts (plain and Ribbed) as per BHEL drawing and technical requirements as per specifications and PO terms and conditions.</p>																			
3.	<p>Vendors must have detailed manufacturing plan.</p>	<p>*Manufacturing process plan to be submitted by vendors.</p>																			
4.	<p>a. Vendors to confirm that machined shaft shall be as per BHEL drawing, specification and PO/Enquiry term and conditions.</p>																				

5.	Relaxation in PQR provided under MSMEs or Start-ups as recognized by DPIIT- Yes/No	No. (see note-1)
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Note: Shaft machining is critical items and hence no relaxation shall be provided for MSMEs or Start-ups.

Anand
24/12/24

Anand Kr Modi

Sr Mgr /AME

M.K. Maravi
24.12.24

M. K Maravi

AGM/AME/ISE/SSM

**Bharat Heavy Electricals Limited, Bhopal (India)****(A Govt. of India Undertaking)**

Ancillary & Subcontracting Division, HRDC Building, Ground floor, BHEL Bhopal

Part 1/Cover 1 : Techno-Commercial Bid

(To be filled by supplier and submit with offer)

**BHEL BHOPAL Tender No.: E2843053 Item: R/C FOR PLAIN SHAFT
MACHINING & RIBBED SHAFT MACHINING.****NIT Remarks:**

1. Inspection clause for NIT: important note:
Loading factor for third party inspection charges done by BHEL: Stage and final inspection is in BHEL scope hence a loading factor @ Inspection Charges (0.242% - loading on basic rate) for local inspection and for outside Bhopal inspection @ 0.173% - loading on basis rate will be done to arrive at landed cost to BHEL hence pls. take cognizance of loading factor for Inspection Charges while submitting your quotation. During Reverse Auction BHEL will provide price calculation sheet (annexure vii) to vendors to calculate total landed cost to BHEL. Hence, the start price will be inclusive of inspection charges Successful L1 bidder will have to deduct inspection charges in price break up after RA.
2. RA will be conducted. Please refer STC for RA process Pls refer attached RA guide lines.
3. Security/Bank guarantee, solvency and undertaking is required against issue of free issue items from BHEL as detailed in special term and condition of enquiry attached.

Sl.No.	Elements	Standards	To be offered/confirmed by supplier
1	BHEL BHOPAL Supplier Code	As per supplier	
2	Supplier Name	As per supplier	
3	GSTIN NUMBER	As per supplier	
4	PAN NUMBER	As per supplier	
5	Quotation Reference and Date	As per supplier	Ref No..... Dt.....
6	HSN/SAC Code	As per supplier	
7	(CGST % & SGST %) or IGST%	As per supplier	(CGST % & SGST %) or IGST %
8	Supply from address/Work address (City Name, State / UT)	As per supplier	
9	Delivery Point.	As per supplier	BHEL BHOPAL
10	E-Mail	As per supplier	
11	Phone/Mobile	As per supplier	
12	Contact Person & Designation	As per supplier	
13	Office Address	As per supplier	
14	Minimum delivery period to be quoted in no of weeks/days from the date of receipt of free issue material from BHEL Bhopal	1) Accepted as per NIT or 2) Not accepted then supplier to mention the delivery conditions in lot wise basis in weeks	DdELIVERY SHALL BE - a. Up to issue of 2 shafts at a time - Delivery will be within 10 days for both the shafts from issue date. b. Upto issue of 3 shafts at a time - Delivery will be within 10 days for first 2 shafts and within 15 days for 3rd shaft from issue date. c. Upto issue of 4 shafts at a time - Delivery will be within 10 days for first 2 shafts and within 15 days for 3rd shaft and within 20 days for 4th shaft from issue date e. For more than 4 shafts at a time - Delivery will be in same ratio as above to be followed i.e. 5 day per shaft from 5th shaft onwards CONFIRM YOUR ACCEPTANCE BY WRITING YES- <div></div>



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15	SPLIT OF QTY	SPLIT SHALL BE AS FOLLOWS CONFIRM YOUR ACCEPTANCE BY PUTTING YES	<table> <tr> <th>No of vendors at L1RATE</th><th>L1</th><th>L2</th><th>L3</th></tr> <tr> <td>1</td><td>100</td><td></td><td></td></tr> <tr> <td>2</td><td>65</td><td>35</td><td></td></tr> <tr> <td>3</td><td>50</td><td>30</td><td>20</td></tr> </table> <p>Splitting shall be in (N-1) vendors limited to 3 Bidders in ratio given above, wherever the numbers of qualified responses (N) are three or more</p> <div></div>	No of vendors at L1RATE	L1	L2	L3	1	100			2	65	35		3	50	30	20
No of vendors at L1RATE	L1	L2	L3																
1	100																		
2	65	35																	
3	50	30	20																
16	Prices shall be firm till delivery (Price to be furnished on FOR basis inclusive of P&F charges up to Destination , duly insured)	Yes																	
16A	Acceptance of INSPECTION as per NIT(at source as per QAP/Drawing and at BHEL as per QAP/Drawing)	Yes																	
17	Quoted for all the items of tender enquiry	Yes / No. (If "No" please mention item number of regretted items)																	
18	PQR/Technical Specifications /conditions/scope of work	Accepted as per enquiry / Accepted with deviation (If select Accepted with deviation, please mention the deviation)																	
19	Technical Specifications /conditions/scope of work	Accepted as per enquiry / Accepted with deviation (If select Accepted with deviation, please mention the deviation)																	
20.	TC, GC and All Inspection report as per tender enquiry and specification as applicable will be submitted along with each consignment.	Yes /No (In case of "No" your offer may be rejected).																	
21	Quotation Validity will be 90 days from the date of techno-commercial bid opening.	Yes																	
22	Are you registered under MSMED ACT 2006 as small or micro.	Yes / No (If select Yes, please enclosed valid UDYAM registration certificate)																	
23	Confirm whether bidder is Manufacturer or Trader or Dealer or Agent of items under enquiry. In case of Trader or Dealer or Agent, please furnish authorization certificate from OEM.	As per supplier																	
24	Acceptance of Payment terms as given in GTC	90 days(for non – MSE or Trader/Dealer/Agent) / 45 Days (for MSE Manufacturer)																	

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		60 Days (for Medium enterprise Manufacturer)	
25	Acceptance of all annexures, BHEL Enquiry Office Copy, PQR(if any), QAP(if any) as attached.	Yes	
26	To and Fro transportation and Transit Insurance will be in supplier scope.	Yes	
27	Penalty: - LD shall be 0.5% of the total order value per week of delay or part thereof, subject a maximum of 10% of clause 9 the total order value (as given in GTC).	Yes / No (In case of "No", your offer will be loaded suitably)	
28	Acceptance of General Terms and Conditions of enquiry (Form No. BP_200102B) & BHEL P.O. Terms & Conditions (Indigenous) MM5527 (available at B2B site of BHEL Bhopal).	Yes (In case of "No" your offer may be rejected).	
29	Kindly confirm whether other family firms or sister concern affiliates / subsidiary firms are participating in the same tender, so as to eliminate the possibility of cartel formation.	Kindly submit signed and sealed Annexure-IX (given with STC) with your offer.	
30	Acceptance of Security against Free issue Material clause as detailed in special terms and condition attached	Yes (In case of "No" your offer may be rejected).	
31	Acceptance of special term and condition of labour basis enquiry.	Accepted as per enquiry / Accepted with deviation (If select Accepted with deviation, please mention the deviation)	
32	By filling "Yes" in adjacent Box, I hereby declare & confirm that the details furnished above are true and correct to the best of my knowledge and belief and I undertake to inform you of any changes therein immediately. In case any of the above information is found to be false or untrue or misleading or misrepresenting, I am aware that I may be held liable for it.	As per supplier	

- 1) Deviation in any commercial condition shall be suitably loaded in the offered price.
- 2) In case of any conflict, confirmation by vendor provided here will supersede.
- 3) In case bidder is not making an offer against this enquiry, we request the bidder to post the regret letter

Name of Supplier :

Seal & Sign of supplier