



MATERIAL MANAGEMENT - TRACTION MACHINES
HEAVY ELECTRICAL PLANT, BHOPAL
BHARAT HEAVY ELECTRICALS LIMITED

BHEL ENQUIRY NO. E5953005
DUE ON 20-05-2025

NIT TERMS & CONDITIONS:

SL. NO.	DESCRIPTION	DETAILS
1.	RATE CONTRACT TERMS	We intend to enter into a Rate Contract (RC) for ordering up to 12 months from RC freeze date, i.e. RC is to be kept valid for ordering up to 12 months from RC freeze date. Ordering shall be done against firm requirement as & when needed by BHEL. BHEL reserves the right to cancel/ short close the RC at any point of time even before the expiry of RC validity without assigning any reason whatsoever it may be.
2.	ITEM DESCRIPTION	TA7003/OA 7002AZ, TA7003DV, TA7009AZ ALUMINIUM "V" BLOCK (FINISHED) TO DRG NO 34304581011 REV 04. TO BE SUPPLIED IN PROPER PACKING.
3.	QUANTITY	1500 Nos
4.	QUANTITY VARIATION	± 30%
5.	DELIVERY SCHEDULE REQUIREMENT	For the first lot of 750 Nos scheduled delivery date shall be within 60 days from the PO date and thereafter for each subsequent lot of 750 Nos scheduled delivery date shall be within 30 days from the scheduled delivery date of the previous lot. Early delivery acceptable.
6.	DELIVERY TERMS	FOR Destination (BHEL Bhopal)
7.	DELIVERY INSTRUCTION	SUPPLIER'S IDENTIFICATION MARK AND PO NO SHOULD BE ON EACH JOB.
8.	PAYMENT TERMS	As per attached BHEL GTC of ENQUIRY (BP200102B, Cl. No. 16) i.e. 100% payment in 90 days of receipt (45 days for Micro & Small and 60 days for Medium enterprises as registered in Udyam Certificate as per relevant MSME act in force) and subject to acceptance of material and relevant documents at BHEL. Any deviation from the above payment terms, if accepted (by BHEL), shall be loaded @ SBI base rate + 6% for the purpose of bid evaluation.
9.	SPLITTING OF ORDER	NO, however it shall be applicable in line to latest MII & MSE guidelines.
10.	TECHNICAL PQR (T-PQR)	Technical Pre-Qualification Requirements (T-PQR) for procurement of the items is attached with the NIT. Compliance of all the points in T-PQR is mandatory. In absence of compliance of above and non-submission of documents required against the T-PQR, the Vendor's offer is liable to be rejected. Duly filled T-PQR with desired documents shall be submitted by the Vendor along with the offer. <i>Information/ compliance/ documents submitted by vendor shall be authentic in all aspects. In case any deviation/ false information/ forged documents are observed / revealed later on, BHEL is free to initiate appropriate punitive proceeding against the Vendor as per Prevalent Processes and Guidelines of Company.</i>
11.	FINANCIAL PQR (F-PQR)	Not applicable
12.	QAP	Applicable as attached with tender documents



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13.	BID PARTS	Offer shall be submitted by the bidders in Two Parts, i.e. Part-I Technical cum Commercial bid & Part-II Price bid.
14.	PENALTY / LD	As per attached BHEL GTC of ENQUIRY (BP200102B, Cl. No. 9) i.e. 0.5% of the undelivered portion per week of delay or part thereof, subject to a maximum of 10% of the undelivered order value owing to delayed delivery.
15.	PRICE BASIS	Firm Price basis
16.	PRICING TERMS	As per attached BHEL GTC of ENQUIRY (BP200102B, Cl. No. 12)
17.	PRICE VALIDITY	As per attached BHEL GTC of ENQUIRY (BP200102B, Cl. No. 13) i.e. Offer shall be valid for a period of 90 days from the date of Techno- commercial (Part-I) bid opening date.
18.	TAXES & DUTIES	As per attached BHEL GTC of ENQUIRY (BP200102B, Cl. No. 14)
19.	TECHNICAL CONDITION	As per attached Drawing, PQR, SPEC & QAP.
20.	SAMPLE	As per attached Spec
21.	INSPECTION CONDITION	BY BHEL AUTHORISED TPIA AT VENDOR WORKS
22.	TEST CERTIFICATE	All Material TC to be supplied along with material as per Spec. and TC should incorporate Spec.
23.	GUARANTEE / WARRANTY	As per BHEL GTC of ENQUIRY (BP200102B, Cl. No. 18)
24.	GUARANTEE CERTIFICATE	GC to be supplied along with the material
25.	EVALUATION CRITERIA	Overall L1 basis
26.	BID SECURITY/ Earnest Money Deposit (EMD)	Not Applicable
27.	PERFORMANCE SECURITY (PBG)	Not Applicable
28.	REVERSE AUCTION	Not Applicable
29.	MSE PREFERENCE	As per attached BHEL GTC of ENQUIRY (BP200102B, Cl. No. 29)
30.	PUBLIC PROCUREMENT (PREFERENCE TO MAKE IN INDIA)	As per attached BHEL GTC of ENQUIRY (BP200102B, Cl. No. 33) For this procurement, the local content to categorize a supplier as a Class I local supplier/ Class II local Supplier/ Non-local supplier and purchase preference to Class I local supplier, is as defined in Public Procurement (Preference to Make in India), Order 2017 dated 19.07.2024 issued by DPIIT. In case of subsequent orders issued by the nodal ministry, changing the definition of local content for the items of the NIT, the same shall be applicable even if issued after issue of this NIT, but before opening of Part-II bids against this NIT.



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		<p>The local content to categorize a supplier as a Class-I local supplier / Class-II local supplier / Non-Local supplier and purchase preference to Class-I local supplier, is as defined in above circular issued by DPIIT/ Nodal Ministry.</p> <p>Bidders to also inform the Actual Percentage of the Local Content and the Complete Address of the Location of Local Value Addition as per the attached MII format, failing which no purchase preference shall be granted.</p> <p>In case the bid value is more than Rs. 10 Crore, the declaration relating to the Actual Percentage of the Local Content and the Complete Address of the Location of Local Value Addition shall be Certified by the Statutory Auditor or Cost Auditor, if the OEM is a Company and by a Practicing Cost Accountant or a Chartered Accountant for OEM other than Companies as per the above circular.</p> <p>For contracts valuing more than Rs 10 Crores, local content (in cases of self-certification submitted by bidders at the time of tendering) will be re-verified during execution of contract by Cost/ Chartered Accountant/ Statutory Auditor/Cost Auditor (as applicable) and in case of defaults, penalty upto 10% of the contract value shall be imposed. However, contract once awarded shall not be terminated on this account.</p> <p><i>Bidders or successors can be debarred for false declarations for up to 2 years. Debarred suppliers not eligible for preference in any other procuring entity.</i></p>
31.	INTEGRITY PACT (IP)	Not Applicable
32.	RESTRICTION UNDER RULE 144 (xi) GFR	As per attached BHEL GTC of ENQUIRY (BP200102B, Cl. No. 34)
33.	ANNEXURE-IX	The Bidder/Supplier/Contractor will, when presenting his bid, declare 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. Format for declaration is available in the NIT documents for this enquiry (Annexure-IX). Same is to be submitted with the offer.
34.	BIDDER'S DECLARATION	<p>The bidder declares that they will not enter into any Illegal or Undisclosed Agreement or Understanding, whether Formal or Informal with other bidder(s). This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.</p> <p>In case, the bidder is found having indulged in above activities, suitable action shall be taken by BHEL as per extant Policies/ Guidelines.</p>
35.	CONFLICT OF INTEREST AMONG BIDDERS/ AGENTS	<p>A bidder shall not have conflict of interest with other bidders. Such conflict of interest can lead to anti-competitive practices to the detriment of Procuring Entity's interests. The bidder found to have a conflict of interest shall be disqualified. A bidder may be considered to have a conflict of interest with one or more parties in this bidding process, if:</p> <p>a) they have controlling partner (s) in common; or</p> <p>b) they receive or have received any direct or indirect subsidy/ financial stake from any of them; or</p> <p>c) they have the same legal representative/agent for purposes of this bid; or</p>



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		<p>d) they have relationship with each other, directly or through common third parties, <u>that puts them in a position to have access to information about or influence on the bid of another Bidder</u>; or</p> <p>e) Bidder participates in more than one bid in this bidding process. Participation by a Bidder in more than one Bid will result in the disqualification of all bids in which the parties are involved. <u>However, this does not limit the inclusion of the components/ sub-assembly/ Assemblies from. one bidding manufacturer in more than one bid</u>; or</p> <p>f) In cases of agents quoting in offshore procurements, on behalf of their principal manufacturers, one agent cannot represent two manufacturers or quote on their behalf in a particular tender enquiry. One manufacturer can also authorise only one agent/dealer. There can be only one bid from the following:</p> <ol style="list-style-type: none"> 1. The principal manufacturer directly or through one Indian agent on his behalf; and 2. Indian/foreign agent on behalf of only one principal; <p style="text-align: center;">or</p> <p>g) A Bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the contract that is the subject of the Bid; or</p> <p>h) In case of a holding company having more than one independently manufacturing units, or more than one unit having common business ownership/management, only one unit should quote. Similar restrictions would apply to closely related sister companies. Bidders must proactively declare such sister/ common business/ management units in same/ similar line of business. "</p>
36.	EVALUATION IN CASE OF MORE THAN ONE L-1 BIDDER	<p>In the course of evaluation, if more than one bidder happens to occupy L-1 status, effective L-1 will be decided by soliciting discounts from the respective L-1 bidders.</p> <p>In case more than one bidder happens to occupy the L-1 status even after soliciting discounts, the L-1 bidder shall be decided by a toss/draw of lots, in the presence of the respective L-1 bidder(s) or their representative(s).</p> <p>Ranking will be done accordingly. Decision of BHEL in such situations shall be final and binding.</p>
37.	SPECIAL CONDITIONS	<p>Bidders who fall under MSE (Micro & Small Enterprises only) and fail to upload 'UDYAM Registration Certificate (URC)' shall automatically be considered as Non-MSE supplier for this tender.</p> <p>Further, it is to be noted that MSE benefits are not being extended to Agent/ Dealer/ Trader/ Distributor (i.e. Other than manufacturer). Supplier has to also provide supporting document(s) such as Agreement Between OEM & Bidder(s) etc.</p> <p>Identification must. Soon after rejection of material, it is to be ensured by supplier that material should be taken back maximum within two weeks after communication for rectification/ replacement & supply back the rectified/ fresh material to BHEL Bhopal within 30 days from rejection. In the event of non-lifting of rejected material by supplier, BHEL will not be responsible for loss of such items to the supplier in any case.</p> <p>Offers of suppliers who are in 'HOLD/BANNED' status in BHEL Bhopal PMD shall not be considered.</p> <p>Unregistered vendors to submit documents required for registration to BHEL Portal Online (https://bhel.com/supplier-registration).</p>



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38.	OTHER TERMS & CONDITIONS	Other Terms & Conditions as per attached BHEL GTC of ENQUIRY (BP200102B) Any deviation of NIT, BHEL GTC of ENQUIRY (BP200102B) and BHEL PO Terms, where vendor response is not affirmative to be clearly indicated, else BHEL will consider that all above Terms & Conditions are acceptable to vendors.
39.	GEM REGISTRATION	As you are kindly aware that Government e-Marketplace (GeM) is a one stop portal to facilitate Online Procurement of Goods & Services required by various Government Departments/ Organizations/ PSUs. BHEL being a PSU, would like that its suppliers/ contractors also have visibility on this portal so that GeM can be used for procurement by BHEL. Hence, you are requested to get yourselves registered on GeM.
40.	TENDER FEE	Not applicable
41.	BID SUBMISSION WITHIN DUE DATE & TIME	No request for extension of tender due date will be entertained at the time of tender opening and after due date under any circumstances. Hence, all bidders are requested to submit their bid well within due date and time only. <i>BHEL reserves the right for extension of tender based on the situation without assigning any reason whatsoever it may be.</i>
42.	DOCUMENTS TO BE FURNISHED ALONG WITH YOUR QUOTATION	Signed and Sealed copy of: <ul style="list-style-type: none"> - NIT - BHEL GTC of ENQUIRY (BP200102B) - BHEL PO Terms Duly Filled, Signed and Sealed copy of: <ul style="list-style-type: none"> - T-PQR along with all supporting documents - Annexure-IX in Company Letterhead - PPP-MII Certificate for local content - Filled & Signed Techno-Commercial Annexure Others: <ul style="list-style-type: none"> - UDYAM Registration Certificate (<i>as applicable for MSME bidders only</i>)

IT IS HEREBY MENTIONED THAT THIS IS E-TENDER SO OFFER SUBMITTED THROUGH E-PROCUREMENT PORTAL (www.eprocurebhel.co.in) SHALL ONLY BE CONSIDERED.

Techno-Commercial Annexure
(To be filled by supplier and submit with offer)

Tender No.		E5953005 due on 20/05/2025		
Description :		RATE CONTRACT FOR TA7003/OA 7002AZ, TA7003DV,TA7009AZ ALUMINIUM "V" BLOCK (FINISHED) TO DRG NO 34304581011 REV 04. TO BE SUPPLIED IN PROPER PACKING.		
		TENDER QTY.: 1500 Nos, +/- 30%		
		Delivery required as per NIT.		
Sr. No.	ELEMENTS	Standards	To be offered/confirmed by supplier	Remarks, if any
1	Quotation reference no. & date	As per supplier		
2	HSN / SAC code	As per supplier		
3	Quotation currency	In INR		
4	Contact person	As per supplier		
5	Phone / Mobile	As per supplier		
6	E-Mail	As per supplier		
7	Order to be placed on (Also provide supplier code at BHEL Bhopal, If registered)	As per supplier		
8	Address	As per supplier		
9	Please specify delivery in weeks/ days (Specify item wise, lot wise as per RFQ)	As per NIT/ Accepted with deviation (If select Accepted with deviation, please mention the deviation)		
10	Rate quoted on "Firm" price basis	Yes		
11	Quoted for all the items and full quantity of tender enquiry	Yes / No. (If "No" please mention item number with Qty of regreted items)		
12	Technical specifications	Accepted as per NIT / Accepted with deviation (If select Accepted with deviation, please mention the deviation)		
13	Inspection	As per NIT/ Accepted with deviation (If select Accepted with deviation, please mention the deviation)		
14	Test certificate & Gurantee certificate as per NIT, Drawings and specification will be submitted along with each consignment	Yes (In case of "No" your offer may be rejected).		
15	Brand name, if any.	As per supplier		
16	Supply from	As per supplier		
17	Terms of delivery ("FOR DESTINATION " means freight & insurance upto destination in supplier's scope (Destination: CRX Divn, BHEL Bhopal)	Accepted/ Accepted with deviation (If select Accepted with deviation, please mention the deviation)		
18	Transit insurance (In supplier's scope)	As per NIT/ Accepted with deviation (If select Accepted with deviation, please mention the deviation)		
19	CGST RATE (IN %)	As per supplier		
20	SGST RATE (IN %)	As per supplier		
21	IGST RATE (IN %)	As per supplier		
22	UGST RATE (IN %)	As per supplier		
23	Are you manufacturer of quoted item (s).	Yes / No		
24	Are you registered under MSMED ACT 2006 as small or micro. NOTE: - Firms registered under medium scale shall not be considered eligible for MSE benefits.	Yes / No (If select Yes, please enclosed valid UDYAM certificate)		

Techno-Commercial Annexure
(To be filled by supplier and submit with offer)

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Description :	RATE CONTRACT FOR TA7003/OA 7002AZ, TA7003DV,TA7009AZ ALUMINIUM "V" BLOCK (FINISHED) TO DRG NO 34304581011 REV 04. TO BE SUPPLIED IN PROPER PACKING. TENDER QTY.: 1500 Nos, +/- 30% Delivery required as per NIT.			
Sr. No.	ELEMENTS	Standards	To be offered/confirmed by supplier	Remarks, if any
25	Terms of Payment (100% payment in 90 days of receipt (45 days for Micro & Small and 60 days for Medium enterprises as registered in Udyam certificate as per relevant MSME act in force) and subject to acceptance of material and relevant documents at BHEL. Pl refer GTC BP200102B)	As per NIT/ Accepted with deviation (If select Accepted with deviation, please mention the deviation)		
26	SELF CERTIFICATION OF MINIMUM LOCAL CONTENT, IF MORE THAN 50% VALUE ADDITION IS IN INDIA. (Note- In case of tenders worth more than Rs. 10 crores, Suppliers shall necessarily submit certificate from statutory auditor or cost auditor or cost accountant or CA) Please also specify the amount of local content in India. EXAMPLE :if 100% INDIGENOUS (MADE IN INDIA) MARK "Y"/100%	As per supplier		
27	Details of location of value addition / manufacturing	As per supplier		
28	Other Charges (If any)	Applicable / Not Applicable. (If applicable please mention percentage (%) / Value (along with type of charges).		
29	Penalty for delayed performance as per BP200102B & NIT	Yes / No (In case of "No", your offer will be loaded suitably)		
30	Confirmation that documents pertaining to technical PQR & Financial PQR has been submitted	Yes / No		
31	Acceptance to "REVERSE AUCTION" if conducted (As per BHEL's RA policy)	Yes / No	Not Applicable	
32	Submission of Declaration format with duly sealed & signed (Annexure IX, refer attached) regarding whether other family firms or sister concern affiliates / subsidiary firms are participating in the same tender.	(Yes / No) If No please specify the reason.		
33	General terms and conditions of enquiry (Form No. BP-200102B) and BHEL PO Terms & Conditions is Acceptable.	Yes (In case of "No" your offer may be rejected).		
34	Quotation Validity will be 90 days from the date of techno-commercial bid opening.	Yes		
35	Tender fees submitted	Yes / Not Applicable	Not Applicable	

कदम कदम मिलाना है ग्राहक सफल बनाना है

Marching Towards Business Excellence



ENQUIRY

TWO PART BID

BPC 0007

E-TENDER

भारत हेवी इलेक्ट्रिकल्स लिमिटेड, पिपलानी, भोपाल- ४६२०२२ (भारत)

सामग्री प्रबंधन विभाग

BHARAT HEAVY ELECTRICALS LIMITED, PIPLANI, BHOPAL-462022 (INDIA)

MATERIALS MANAGEMENT DIVISION

TIN NO- 23573000001

ECC NO- AAACB4146PXM009

MPCT NO- HEL/05/01/0001/S15/11/79

PHONE NO : 91-755-2500100

FAX : 91-755-2500023

www.bhel.com

ENQUIRY NO

E5953005

ENQUIRY DATE

10/05/25

ENQUIRY DUE DATE

20/05/25

SUPP NAME AND ADDRESS	SUPP CODE	REV CD	REV NO	REV DATE	NO OF CATY2	NO OF CATY3	ENQ NO OF ITEMS	INDENT NO
	0	1	0	NA	1	2	1	121354522
	GUARANTEE CERTIFICATE		Y	SUPPLY CONDITION SUPPLIER'S IDENTIFICATION MARK AND PO NO SHOULD BE ON EACH JOB.				
	TEST CERTIFICATE		Y					
	INSTRUCTION BOOKLET		N	TECHNICAL CONDITION AS PER DRG.				
	SAMPLE		N					
	GATE PASS		Y	INSPECTION CONDITION BY BHEL AUTHORISED TPIA AT VENDORS WORK.				

NOTE: QUOTE PRICE BOTH IN FIGURES & WORDS.IN CASE OF MISMATCH PRICE IN WORDS WILL BE VALID,QUOTATIONS NOT BEARING ENQUIRY NO AND DUE DATE LIABLE TO BE REJECTED.

SL NO	MATERIAL CODE	DESC	UNIT	ITEM QTY	QTY VR%	LOT NO	LOT QTY	DEST	DELIVERY DATE
1	BP9094827174	TA7003/OA 7002AZ, TA7003DV,TA7009AZ ALUMINIUM "V" BLOCK (FINISHED) TO DRG NO 34304581011 REV 04. TO BE SUPPLIED IN PROPER PACKING.	NO	1500.000	30	1	750.000	213	06/07/25
						2	750.000	213	06/08/25

REMARK AS PER E-TENDER ON NIC PORTAL

DRAWING	Y	PURCH SPEC	N	CATALOUGE	N	Quality Surveillance Pl:	Y	TWO PART BID	Y
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NOTE:BHEL,BHOPAL'S Standard Terms & Conditions BP200102 (Latest Revision) form a part of this Enquiry. Bidders may obtain from us copies of these terms and conditions if not already available.

Note: During Bid Evaluation, No loading of price with regard to preferential payment of within 45 days will be made on vendore falling under MSMED ACT - OCT 06

Please submit your lowest quotation in sealed envelop essentially superscribed with ENQUIRY NO, DUE DATE AND PARTY'S NAME so as to reach at TENDER ROOM, GROUND FLOOR, ADM BUILDING, BHEL, PIPLANI BHOPAL-462022 by 11.00 am of due date.

1.This is only a request for Quotation & not an order.

2.Small Scale industries should indicate SSI Regn. No. in Quotation/invoice.

3.In case you are not making an offer against this Enquiry, we request you to post a regret letter.

4.Indian vendors to please indicate GSTIN on their quotation.

SPECIAL REMARK: Bid to be submitted through e-procurement. Refer eproc link on BHEL Bhopal B2B site.

Documents Enclosed

1.Drawing. 3.Purchase specification.

2.Catalogue. 4.Quality Surveillance Plan.

NAME : SHRI MANENDRA SINGH

DESG : DY.MANAGER

0755-2505880

manendra1@bhel.in

SIGN & SEAL

File No. 160-RPT-160-TPTNOMNX(59)/33/2025-HEP-TAM21300 (Computer No. 180161)
Generated from eOffice by Raj Bahadur Pal, AE-I(RBP)-MNX35408-HEP, AE-I, HEP-HEAVY ELECTRICALS PLANT (HEP) on 12/05/2025 08:27 am

ENQUIRY

INVENTORY NO.

SIGN. & DATE

REF. DRG. NO.

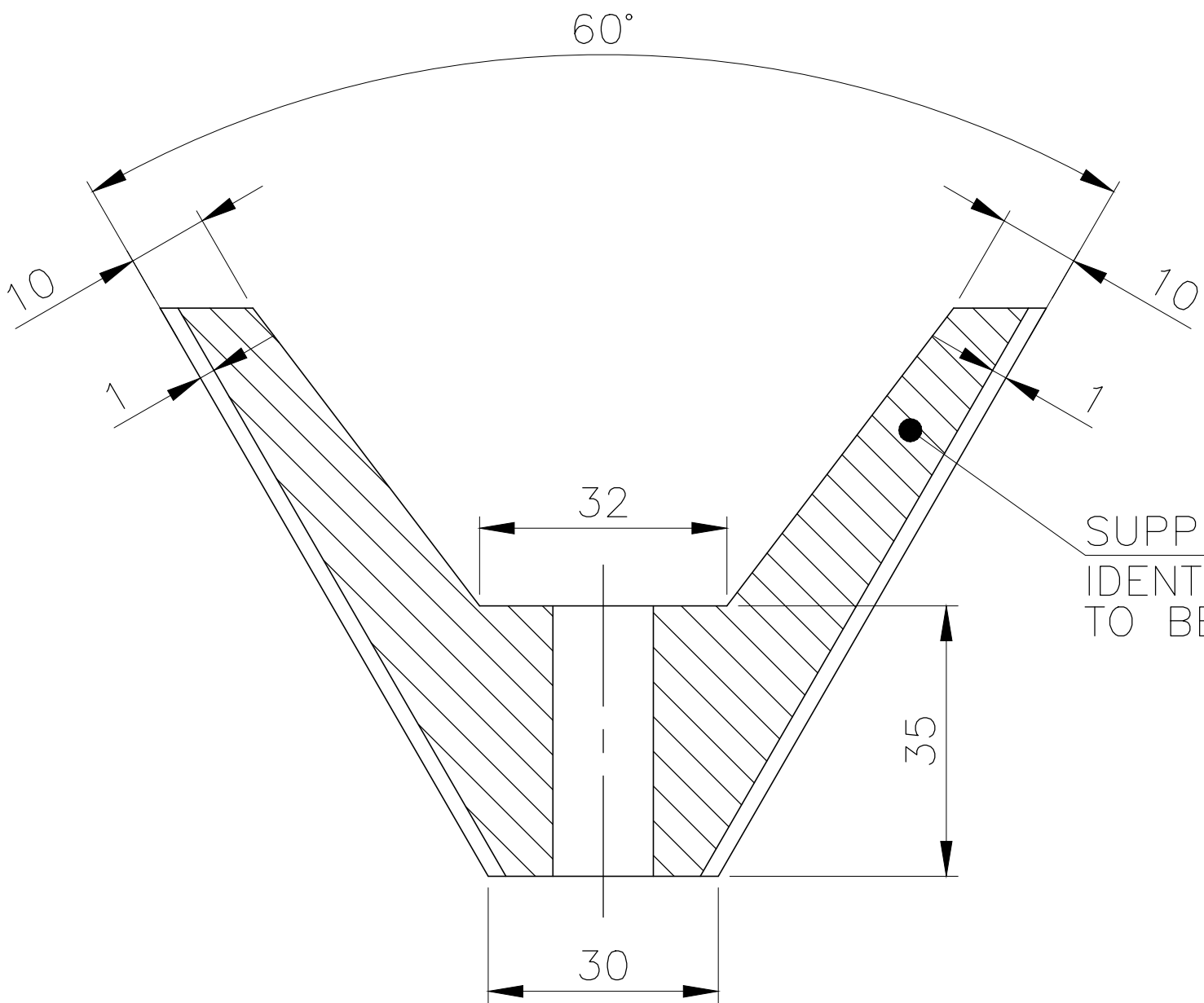
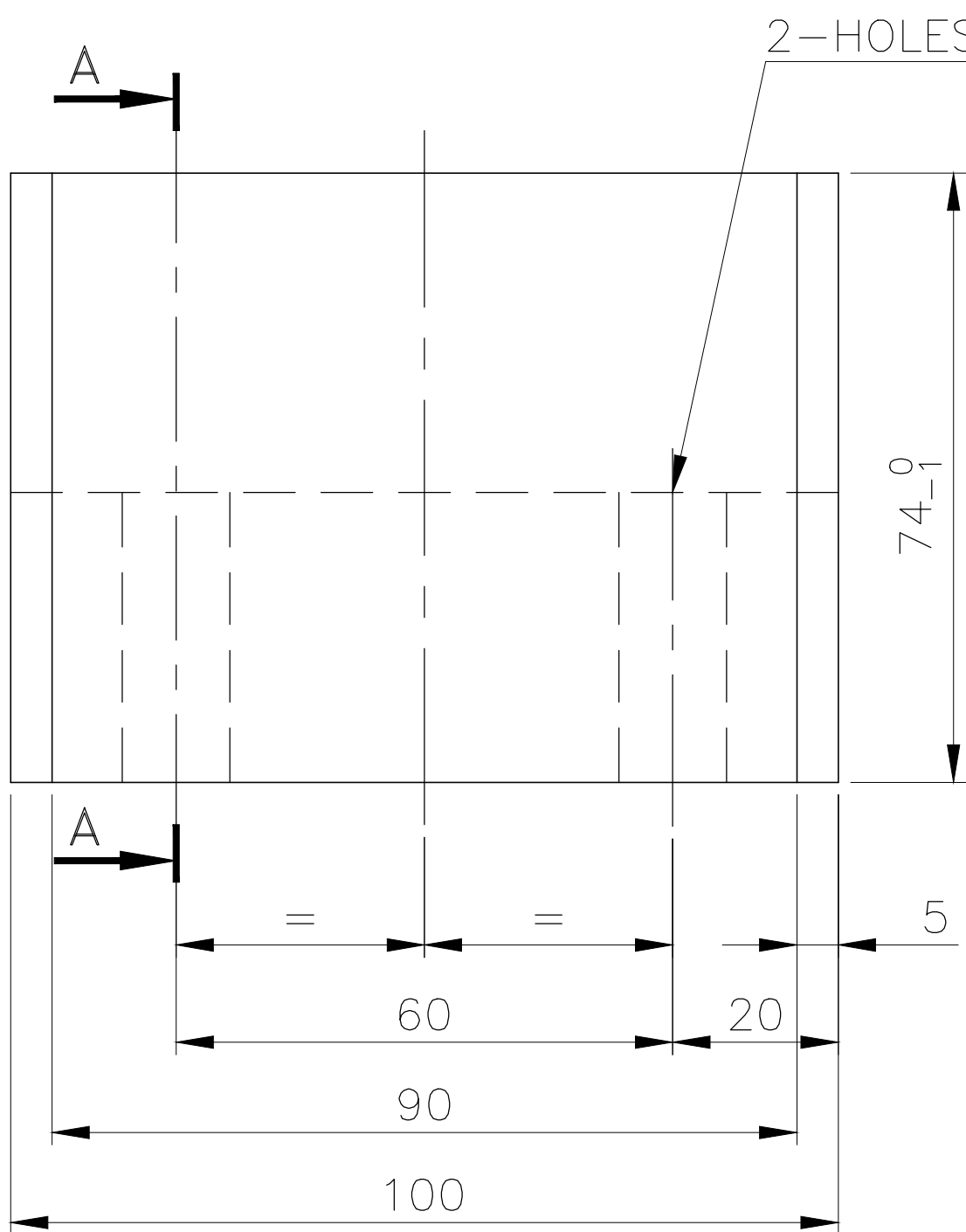
FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

DRG. NO. 3 430 45 81 011

TOOL LIST		
IT. NO.	TOOL NO.	DESCRIPTION
001	1407028	DRILL JIG

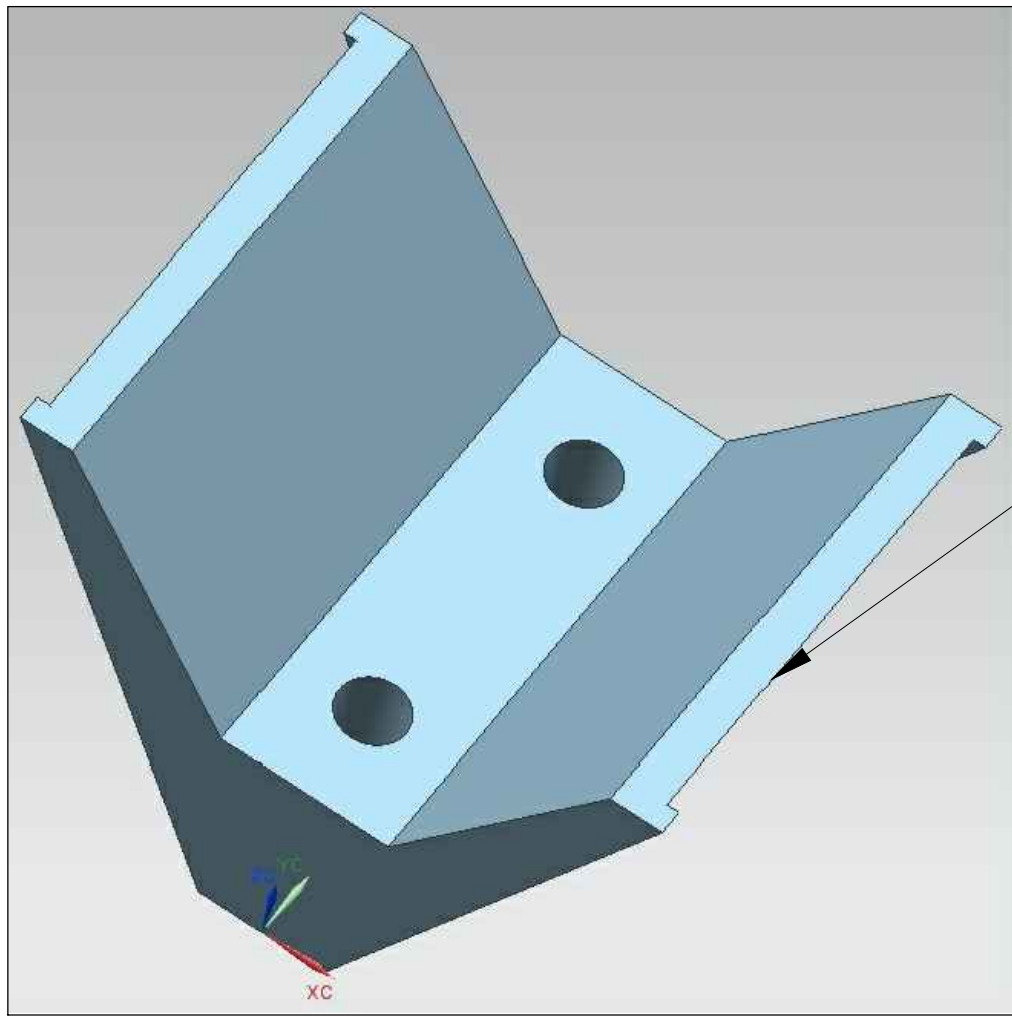
STYLE LIST	
IT. NO.	ST. NO.
001	BP9094827174



SUPPLIERS NAME &
IDENTIFICATION NO. OF JOB
TO BE PUNCHED ON THIS FACE

NOTE:-

- ✓ ALL OVER.
- ONE SAMPLE FROM EACH HEAT TREATMENT BATCH PER CONSIGNMENT SHALL BE SUPPLIED TO BHEL FOR TESTING.



POSITION OF SLOT

ISOMETRIC VIEW
(FOR REF. ONLY)

		WT. OF RAW MATL.=2.9KG.				001		VEE BLOCK 110TK.x80x120										KG		0.70			
														BP12391									
59	64	65	75	78 79	25	27	29	58	59	60	77	29	31	34	45	55	56	57	58	65	72	ZONE	
QTY VAR 00		REMARKS		VAR. NO.		ITEM NO.		DESCRIPTION		STD		DRAWING NO.		IT.NO.		MATL. CODE		UNIT		UNIT WT.			CS
														32 33 VAR.		46		54		68		QTY.	

REV.	DATE	ALTERED	SDB
04	21.03.24	CHECKED	JK
		APPROVED	JK

DIM. 74 WAS 76.

ADDITIONAL INFORMATION

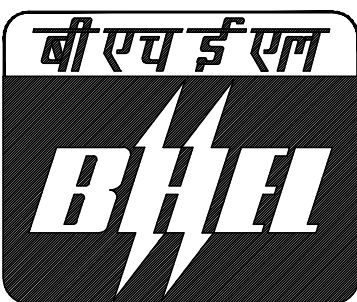
STATUS OF DRAWING

DISTRIBUTION OF PRINTS

TME-1, TAM-3,
TNX-1

TYPE OF PRODUCT
OR
NAME OF CUSTOMER/PROJECT

TRACTION ALTERNATOR
TA7003BX



BHARAT HEAVY ELECTRICALS LTD.
BHOPAL

	NAME	SIGN	DATE	NO. OF VAR.
DRN.	BHAGAT		02/05/14	—
CHD.	JITENDRA		05/05/14	
APPD.	A.SHARMA		05/05/14	

REV.	DATE	ALTERED
03	25.04.15	CHECKED
		APPROVED

NOTE-2 ADDED.

REV.	DATE	ALTERED
02	30.12.14	CHECKED
		APPROVED

ISOMETRIC VIEW ADDED FOR
REF. ONLY.

REV.	DATE	ALTERED
01	11.7.14	CHECKED
		APPROVED

STYLE NO. WAS NOT ON.

DEPT.	UNTOL. DIMS. GR.	SCALE	WEIGHT	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
TME	DIM. 6/M/F	NTS	(K.G.)	0 430 45 81 001	033	001
CODE	AA0230208					

TITLE
V-BLOCK

DRAWING NO.	REV.
3 430 45 81 011	04
SHT. NO.	NO. OF SHT.
01	01

SIZE A3



TSD6206

PLANT PURCHASING SPECIFICATION BHOPAL

BP 12391

REV NO. 05

PAGE 1 of 03

SUPERSEDES
BP 12391 Rev 04

ALUMINIUM ALLOY RODS, BARS, AND PLATES HEAT TREATED (Gr. 24345 - WP)

1. GENERAL :

This specification governs the quality of wrought aluminium alloy bars/ rods upto 150mm size and plates over 6 mm & upto 25 mm thick.

2. APPLICATION:

For General engineering purposes.

3. CONDITION OF DELIVERY:

Fully heat treated (WP).

4. COMPLIANCE WITH NATIONAL STANDARDS:

i) For Bars and Rods :

IS:733-1983

(Reaffirmed 2017)

Gr:24345 Condition :WP

Specification for Wrought Aluminium & Aluminium Alloy Bars, Rods and Section for general Engineering Purposes

ii) For Plates

IS:736-1986

(Reaffirmed 2017)

Gr:24345 Condition :WP

Specification for Wrought Aluminium & Aluminium Alloy Plate For General Engineering Purposes.

5. DIMENSIONS AND TOLERANCES :

5.1 Sizes :

The material shall be supplied as per the dimensions specified in the order.

5.2 Tolerances :

5.2.1 For Bars & Rods :- The tolerance shall comply to IS: 3965.

5.2.2 For Plates :- The tolerance shall comply to IS: 2677.

6. MANUFACTURE :

The method of manufacture of the material shall be at the discretion of the manufacturer.

Revision :

Reaffirmed of IS added in cl 4 & Updated.

Issued by :

STANDARDS AND MATERIALS GROUP
TECHNICAL SERVICES DEPTMENT

Rev. 05

Date : 25.09.2021

Date of first Issue: Feb 1970



PLANT PURCHASING SPECIFICATION BHOPAL

BP 12391

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7. HEAT TREATMENT :

The material shall be fully heat treated i.e. solution treated and subsequently precipitation treated (W.P.)

8. FREEDOM FROM DEFECTS:

The material shall be clean, smooth and free from fins, spills, porosity, cracks or other defects and shall be reasonably straight and free from twists.

9. CHEMICAL COMPOSITION:

The chemical composition of the material, when analysed in accordance with IS : 504 (Methods of chemical analysis of aluminium and its alloys) or any other suitable instrumental/chemical method shall be as follows :

Element	Percent	
	min.	max
Copper	3.8	5.0
Magnesium	0.2	0.8
Silicon	0.5	1.2
Manganese	0.3	1.2
Iron	-	0.7
*Zinc	-	0.2
Aluminium	Reminder	

Note :- Titanium and/or other grain refining elements and/or chromium may be present upto 0.30 percent, max.

*This element need not be determined when the material supplied confirms with the mechanical properties specified in this specification. However, the supplier shall ensure that the composition of the material lies within the limits specified above.

10. TEST SAMPLES :

One test sample from each heat treatment batch per consignment shall be selected for test.

11. MECHANICAL PROPERTIES:

11.1 Tensile Test :

The material when tested in accordance with IS: 1608 (method for tensile test of light metals & their Alloys) shall show the following tensile properties.

11.2 For Bars and Rods :

Size		0.2% Proof Stress N/mm ² Min.	Tensile Strength N/mm ² Min.	%Elongation on 50mm G.L Min
Over	Upto & incldg. mm			
-	10	375	430	6
10	25	400	460	6
25	75	420	480	6
75	150	405	460	6



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11.3 For Plates : Over 6mm upto & including 25 mm thick :

0.2% Proof Stress N/mm ² Min.	Tensile Strength N/mm ² Min	% Elongation on 50 mm G.L. Min.	
		Over 6 mm Upto and Including 12.5 mm thick	Over 12.5 mm Upto and including 25 mm thick
310	405	7	5

12. TEST CERTIFICATES:

Unless otherwise stated, three copies of certificates shall be supplied alongwith each consignment.

In addition, the supplier shall ensure to enclose one copy of test certificate along with their dispatch documents to facilitate quick clearance of the material.

The test certificate shall bear the following information :-

BHEL Order No.

BP12391 (Rev. 05) Aluminium Alloy Rod/Bars/Plates-Heat Treated (Gr.24345- WP)

Supplier's reference and Name.

Batch No.

Melt No

Size

Specification / Order

Drawing / Pattern No.

Consignment / Identification No.

Results of Test

Results of chemical analysis mechanical test dimensional tolerance and all other tests as called for in this specification / order.

13. PACKING AND MARKING:

The material shall be suitably packed to prevent corrosion & damage during transit. Each package or crate shall be legibly marked with the following information.

BHEL Order No.

BP 12391: Aluminium Alloy Rod / Bars / Plates - Heat Treated (Gr. 24345- WP)

Batch No.

Identification Mark/No.

Weight.

Supplier's reference and name.

Duly filled Technical Pre-Qualification Requirements to be submitted along with the offer by vendor

For uploading along with enquiry

Ref No: TME/PQR/V-Block/R00

Dated: 03/05/2025

Technical Pre-Qualification Requirements (PQR) for “Aluminum V-Block”

Vendor should comply with the following clauses in order to qualify for supply of Aluminum V-Block (duly filled PQR shall be submitted along with the offer by vendor):

Cl. No.	Description	Vendor to comment	
		Complied / Not complied	Supporting relevant document to be submitted along with offer
1.	Vendor shall supply item as per drawing no. & description mentioned in the enquiry.	Yes/No	Not Required
2.	Vendor to confirm that it is the manufacturer of the offered item and not the trader.	Manufacturer/ Trader	Not Required
3.	Vendor should have past experience of successfully supply of any component involving milling of length of min. 120 mm, in preceding 5 years from enquiry opening date. (Vendor to ensure that experience/supply proof submitted for b) & c) shall correlate with the submitted P.O. copy)	Yes/No	a. Un-priced PO copies. b. Drawing of supplied item. c. Supply proof (copy of invoice).
4.	For verification of information furnished by vendor, additional documents proofs etc. may be required by BHEL. Vendor to confirm providing the same.	Yes/No	Not Required

Notes:

1. Compliance of all the points in above T-PQR is mandatory. In absence of compliance of above, vendor's offer is liable to be rejected.
2. Information / compliance/documents submitted by vendor shall be authentic in all aspects. In case any deviation/false information/forged documents are observed, BHEL is free to initiate appropriate punitive proceeding against the supplier.

Important: This document is to be filled and submitted along with the offer. This document must be signed by authorized representative of the vendor and should contain the name of representative & seal of the company.

Date: -

(Sign and Seal of Authorized representative of vendor)



BHARAT HEAVY ELECTRICALS LIMITED, BHOPAL

QUALITY ASSURANCE PLAN FOR V-BLOCK TO BHEL ORDERING SPECIFICATION/DRAWING AS PER PO

QUALITY PLAN NO. – QAP/QTm/VENDOR QAP/2022-23/ V-BLOCK DTD 30.12.2022 REV 00
Reference Document- PO DRAWING/SPECIFICATION

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SL. NO	COMPONENT	CHARACTERISTICS	TYPE OF CHECK	QUANTAM OF CHECK		REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	INSPECTION AGENCY	REMARKS
				TP	TP/A					
1)	Raw material TC	a) Mechanical properties b) Chemical properties	Record review	100%	100%	As per drawing & specification	As per drawing & specification	MTC	BHEL/TP/A	TEST LAB NABL/EQUIVALENT ACCREDITED/SOURCE MILL /Supplier to get the raw material correlated with material TC. & 2 Samples of 300X300 mm to be supplied to BHEL duly punched by TP/A
2)	Dimension	Dimension	TC verification & Measurement	100%	10%	As per drawing & specification	As per drawing & Specification	Supplier record	BHEL/TP/A	Witness
3)	Identification of grade of vendor name, PO & job serial no.,	Visual	Visual	100%	10%	As per drawing & specification	As per drawing & Specification	Supplier record	BHEL/TP/A	Witness
4)	Packing to avoid transit damage	Visual	Visual	100%	10%	As per drawing & specification	As per drawing & specification	Packing list for each kit box	BHEL/TP/A	Packing to be such that no damages should occur during transit. 1 kit items should be placed in on 1 box

Prepared By

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Engineer (QC)
Quality Control-CIM
BHEL, Bhopal

Approved By

Rahul Singh
Manager
QA/QC / QTM Division
BHEL, Bhopal

ENQUIRY

 <p>ENQUIRY</p> <p>TWO PART BID</p> <p>BPC 0007</p> <p>E-TENDER</p>	<p>भारत हैवी इलेक्ट्रिकल्स लिमिटेड, पिपलानी, भोपाल- ४६२०२२ (भारत)</p> <p>सामग्री प्रबंधन विभाग</p> <p>BHARAT HEAVY ELECTRICALS LIMITED, PIPLANI, BHOPAL-462022 (INDIA)</p> <p>MATERIALS MANAGEMENT DIVISION</p>			<p>ENQUIRY NO</p> <p>E5953005</p>	
	<table border="1"> <tr> <td>TIN NO- 23573000001</td> <td>ECC NO- AAACB4146PXM009</td> <td>MPCT NO- HEL/05/01/0001/S15/11/79</td> </tr> </table> <p>PHONE NO : 91-755-2500100</p>	TIN NO- 23573000001	ECC NO- AAACB4146PXM009	MPCT NO- HEL/05/01/0001/S15/11/79	<p>FAX : 91-755-2500023</p>
TIN NO- 23573000001	ECC NO- AAACB4146PXM009	MPCT NO- HEL/05/01/0001/S15/11/79			

SUPP NAME AND ADDRESS	SUPP CODE	REV CD	REV NO	REV DATE	NO OF CATY2	NO OF CATY3	ENQ NO OF ITEMS	INDENT NO
OFFICE COPY		1	0	NA	1	2	1	121354522
	GUARANTEE CERTIFICATE		Y	SUPPLY CONDITION SUPPLIER'S IDENTIFICATION MARK AND PO NO SHOULD BE ON EACH JOB.				
	TEST CERTIFICATE		Y					
	INSTRUCTION BOOKLET		N	TECHNICAL CONDITION AS PER DRG.				
	SAMPLE		N					
	GATE PASS		Y					
				INSPECTION CONDITION	BY BHEL AUTHORISED TPIA AT VENDORS WORK.			

NOTE: QUOTE PRICE BOTH IN FIGURES & WORDS.IN CASE OF MISMATCH PRICE IN WORDS WILL BE VALID,QUOTATIONS NOT BEARING ENQUIRY NO AND DUE DATE LIABLE TO BE REJECTED.

SL NO	MATERIAL CODE	DESC	UNIT	ITEM QTY	QTY VR%	LOT NO	LOT QTY	DEST	DELIVERY DATE
1	BP9094827174	TA7003/OA 7002AZ, TA7003DV,TA7009AZ ALUMINIUM "V" BLOCK (FINISHED) TO DRG NO 34304581011 REV 04. TO BE SUPPLIED IN PROPER PACKING.	NO	1500.000	30	1	750.000	213	06/07/25
						2	750.000	213	06/08/25

REMARK	AS PER E-TENDER ON NIC PORTAL
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DRAWING	Y	PURCH SPEC	N	CATALOGUE	N	PLAN	Y	TWO PART BID	Y
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SUPP CD.	SUPP NAME	MSME	STATUS	PMD	Cust Appr	S.NO	INDENT NO	ITEM NO	CATEGORY	ENQUIRY QTY.
						1	121354522	1	724140	1500.000

NOTE: BHEL, BHOPAL'S Standard Terms & Conditions BP200102 (Latest Revision) form a part of this Enquiry. Bidders may obtain from us copies of these terms and conditions if not already available.

<p>SPECIAL REMARKS: Bid to be submitted through e-procurement. Refer eproc link on BHEL Bhopal B2B site.</p>	<p>NAME : SHRI MANENDRA SINGH DESG : DY.MANAGER 0755-2505880 manendra1@bhel.in</p> <p style="text-align: right;">SIGN & SEAL</p>
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