

कदम कदम मिलाना है ग्राहक सफल बनाना है

Marching Towards Business Excellence

 BPC 0007	ENQUIRY	भारत हेवी इलेक्ट्रिकल्स लिमिटेड, पिपलानी, भोपाल- ४६२०२२ (भारत)			ENQUIRY NO E5953032 ENQUIRY DATE 09/09/25 ENQUIRY DUE DATE 19/09/25	
	TWO PART BID	सामग्री प्रबंधन विभाग				
	E-TENDER	BHARAT HEAVY ELECTRICALS LIMITED, PIPLANI, BHOPAL-462022 (INDIA) MATERIALS MANAGEMENT DIVISION				
TIN NO- 235730000001		ECC NO- AAACB4146PXM009		MPCT NO- HEL/05/01/0001/S15/11/79		
PHONE NO : 91-755-2500100		FAX : 91-755-2500023		www.bhel.com		

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	2	4	2	121357010
	GUARANTEE CERTIFICATE		Y	SUPPLY CONDITION IDENTIFICATION IS COMPULSORY (PO, SL, DR				
	TEST CERTIFICATE		Y	G NO,SUPLCODE,MONTH&YEAR OF PRODN BY HARD PUNCH ON EACH JOB				
	INSTRUCTION BOOKLET		N	TECHNICAL CONDITION AS PER DRG				
	SAMPLE		N					
	GATE PASS		Y	INSPECTION CONDITION AT BHEL BHOPAL.				

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	BP9014821123	OA7002, TA/OA6301 ,TA7003AZ TAPER KEY TO DRG.NO. 44304511005 ITEM 01 REV.06. NOTE : SUPPLIER TRADE MARK SHOULD BE PUNCHED ON EACH JOB. ITEM TO BE SUPPLIED IN PAIR OF TAPER KEY.	NO	300.000	30	1	150.000	213	01/11/25
						2	150.000	213	01/12/25
2	BP9014821131	OA7002,TA/OA6301, TA7003 AZ TAPER KEY 44304511005#2 REV.06.NOTE:- SUPPLIER'S TRADE MARK SHOULD BE PUNCHED ON EACH JOB. ITEM TO BE SUPPLIED IN PAIR OF TAPER KEY.	NO	300.000	30	1	150.000	213	01/11/25
						2	150.000	213	01/12/25

REMARK

DRAWING Y PURCH SPEC Y CATALOUGE N Quality Surveillance Pl: N TWO PART BID Y

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

ENQUIRY



MATERIAL MANAGEMENT - TRACTION MACHINES

HEAVY ELECTRICAL PLANT, BHOPAL

BHARAT HEAVY ELECTRICALS LIMITED

BHEL ENQUIRY NO. E5953032

DUE ON 19-09-2025

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. Purchase Ordering shall be done as per BHEL requirement against the finalised rate contract & within its validity. Dispatches to be made against our purchase order (computerized) only, which will be issued against this Rate Contract. BHEL reserves the right to cancel/ short close the Rate Contract for unordered qty at any point of time even before the expiry of RC validity without assigning any reason whatsoever it may be.
2.	ITEM DESCRIPTION	Item01: - OA7002, TA/OA6301, TA7003AZ TAPER KEY TO DRG.NO. 44304511005 ITEM 01 REV.06. NOTE: SUPPLIER TRADE MARK SHOULD BE PUNCHED ON EACH JOB. ITEM TO BE SUPPLIED IN PAIR OF TAPER KEY. Item02: - OA7002, TA/OA6301, TA7003 AZ TAPER KEY 44304511005#2 REV.06. NOTE: - SUPPLIER'S TRADE MARK SHOULD BE PUNCHED ON EACH JOB. ITEM TO BE SUPPLIED IN PAIR OF TAPER KEY.
3.	TECHNICAL CONDITION	As per attached PQRs, Drawings & Spec.
4.	QUANTITY	Item01: - 300 Nos Item02: - 300 Nos
5.	QUANTITY VARIATION	± 30% for each item.
6.	DELIVERY SCHEDULE REQUIREMENT	For the 1st lot of 150 Nos. of each item, scheduled delivery date shall be within 60 days from the PO date and thereafter for each subsequent lot of 150 Nos scheduled delivery date shall be within 30 days from the scheduled delivery date of the previous lot. Early delivery acceptable.
7.	DELIVERY TERMS	FOR Destination (BHEL Bhopal)
8.	DELIVERY INSTRUCTION	IDENTIFICATION IS COMPULSORY (PO, SL, DRG NO, SUPL CODE, MONTH & YEAR OF PRODN BY HARD PUNCH ON EACH JOB)
9.	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.
10.	SPLITTING OF ORDER	Not Applicable
11.	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.



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		<p>Duly filled T-PQR with desired documents shall be submitted by the Vendor along with the offer.</p> <p><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></p>
12.	FINANCIAL PQR (F-PQR)	Not Applicable
13.	QAP	Not Applicable
14.	BID PARTS	Offer shall be submitted by the bidders in Two Parts, i.e. Part-I Technical cum Commercial bid & Part-II Price bid.
15.	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.
16.	PRICE BASIS	Firm Price basis
17.	PRICING TERMS	As per attached BHEL GTC of ENQUIRY (BP200102B, Cl. No. 12)
18.	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.
19.	TAXES & DUTIES	As per attached BHEL GTC of ENQUIRY (BP200102B, Cl. No. 14)
20.	SAMPLE	As per attached Drg, & Spec.
21.	INSPECTION CONDITION	AT BHEL BHOPAL
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/ WARRANTEE CERTIFICATE	GUARANTEE/ WARRANTEE Certificate to be supplied along with each lot of the material.
25.	EVALUATION CRITERIA	Overall L1 basis
26.	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>
27.	BID SECURITY/ Earnest Money Deposit (EMD)	Not Applicable



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28.	PERFORMANCE SECURITY (PBG)	Not Applicable
29.	REVERSE AUCTION	Not Applicable.
30.	MSE PREFERENCE	Applicable as per attached BHEL GTC of ENQUIRY (BP200102B, Cl. No. 29)
31.	PUBLIC PROCUREMENT (PREFERENCE TO MAKE IN INDIA)	Not Applicable
32.	INTEGRITY PACT (IP)	Not Applicable
33.	RESTRICTION UNDER RULE 144 (xi) GFR	As per attached BHEL GTC of ENQUIRY (BP200102B, Cl. No. 34)
34.	CONFLICT OF INTEREST AMONG BIDDERS/ AGENTS AND THEIR DECLARATION	<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. Bidders having a conflict of interest shall not be eligible to participate in the tender process.</p> <p>Treatment of cases regarding conflict of interest: - The bidder notes that a conflict of interest would said to have occurred in the tender process and execution of the resultant contract, in case of any of the following situations: -</p> <ul style="list-style-type: none"> i) If its personnel have a close personal, financial, or business relationship with any personnel of BHEL who are directly or indirectly related to the procurement or execution process of the contract, which can affect the decision of BHEL directly or indirectly; ii) The bidder (or his allied firm) provided services for the need assessment/ procurement planning of the Tender process in which it is participating; iii) Procurement of goods directly from the manufacturers /suppliers shall be preferred. However, if the OEM/ Principal insists on engaging the services of an agent, such agent shall not be allowed to represent more than one manufacturer/ supplier in the same tender. Moreover, either the agent could bid on behalf of the manufacturer/ supplier or the manufacturer/ supplier could bid directly but not both. In case bids are received from both the manufacturer/ supplier and the agent, bid received from the agent shall be ignored. However, this shall not debar more than one Authorised distributor (with/ or without the OEM) from quoting equipment manufactured by an Original Equipment Manufacturer (OEM) in procurements under a Proprietary Article Certificate. iv) A bidder participates in more than one bid in this tender process. Participation in any capacity by a Bidder (including the participation of a Bidder as a partner/ JV member or sub-contractor in another bid or vice-versa) in more than one bid shall result in the disqualification of all bids in which he is a party. However, this does not limit the participation of an entity as a sub-contractor in more than one bid if he is not bidding independently in his own name or as a member of a JV.



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HEAVY ELECTRICAL PLANT, BHOPAL

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BHEL ENQUIRY NO. E5953032

DUE ON 19-09-2025

		The Bidder declares that they have read and understood the above aspects, and the bidder confirms that such conflict of interest does not exist and undertakes that they will not enter into any illegal or undisclosed agreement or understanding, whether formal or informal with other Bidder(s), in this regard. 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. In case, the Bidder is found having indulged in above activities, the same will be considered as a violation of the tender conditions, and suitable action shall be taken by BHEL as per extant policies/ guidelines.
35.	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.
36.	SPECIAL CONDITIONS	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. 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. 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. Offers of suppliers who are in 'HOLD/BANNED' status in BHEL Bhopal PMD shall not be considered. Unregistered vendors to submit documents required for registration to BHEL Portal Online (https://bhel.com/supplier-registration).
37.	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.
38.	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.
39.	TENDER FEE	Not applicable
40.	BID SUBMISSION	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.



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	WITHIN DUE DATE & TIME	<i>BHEL reserves the right for extension of tender based on the situation without assigning any reason whatsoever it may be.</i>
41.	<i>For supply orders placed on Indian Suppliers</i>	<i>Irrespective of the value of the invoice amount, the bidder / vendor should necessarily upload the despatch & invoice details on BHEL SUVIDHA portal at https://suvidha.bhel.in/suvidha/, prior to despatch. All documents as per PO checklist, along with additional documents (if any), must be uploaded on the portal. It is mandatory that tax invoices with a net amount (including taxes) exceeding Rs five lakhs uploaded on the portal are digitally signed using a Class 3 Digital Signature Certificate (DSC) issued by a licensed Certifying Authority. Submission of invoice document in hard copy is allowed for invoices with a net amount (including taxes) equal to and up to Rs five lakhs, in case they were not digitally signed and uploaded on the portal. The material will not be accepted inside BHEL in absence of the above.</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 - 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 inline with NIT requirement and submit with offer)

Tender No.		E5953032 due on 19/09/2025		
Description :		<p>Item01: - OA7002, TA/OA6301, TA7003AZ TAPER KEY TO DRG.NO. 44304511005 ITEM 01 REV.06. NOTE : SUPPLIER TRADE MARK SHOULD BE PUNCHED ON EACH JOB. ITEM TO BE SUPPLIED IN PAIR OF TAPER KEY.</p> <p>Item02: - OA7002,TA/OA6301, TA7003 AZ TAPER KEY 44304511005#2 REV.06.NOTE:-SUPPLIER'S TRADE MARK SHOULD BE PUNCHED ON EACH JOB. ITEM TO BE SUPPLIED IN PAIR OF TAPER KEY.</p> <p>TENDER QTY.:- 300 Nos $\pm 30\%$ for each item</p> <p>Delivery required as per NIT.</p>		
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 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 inline with NIT requirement and submit with offer)

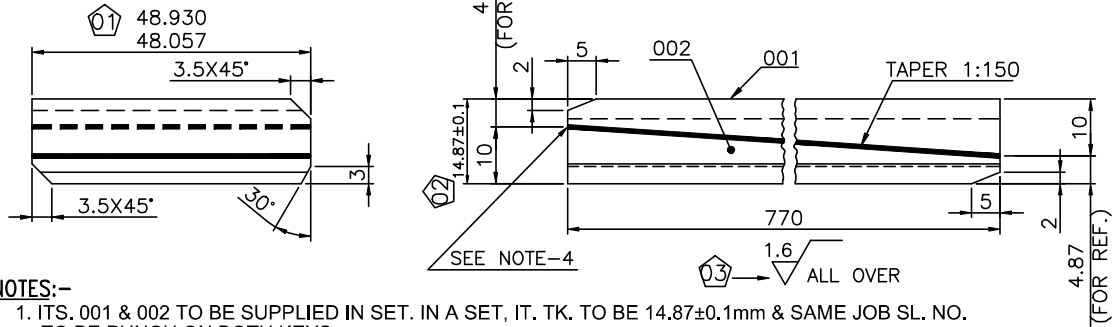
Tender No.		E5953032 due on 19/09/2025		
Description :		<p>Item01: - OA7002, TA/OA6301 ,TA7003AZ TAPER KEY TO DRG.NO. 44304511005 ITEM 01 REV.06. NOTE : SUPPLIER TRADE MARK SHOULD BE PUNCHED ON EACH JOB. ITEM TO BE SUPPLIED IN PAIR OF TAPER KEY.</p> <p>Item02: - OA7002,TA/OA6301, TA7003 AZ TAPER KEY 44304511005#2 REV.06.NOTE:-SUPPLIER'S TRADE MARK SHOULD BE PUNCHED ON EACH JOB. ITEM TO BE SUPPLIED IN PAIR OF TAPER KEY.</p> <p>TENDER QTY.:- 300 Nos ±30% for each item</p> <p>Delivery required as per NIT.</p>		
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 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	

FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

 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

REV. 05	DATE 29.01.16	ALTERED	VK/ <i>Signature</i>	REV. 04	DATE 17.01.09	ALTERED	<i>Signature</i>	ADDITIONAL INFORMATION 3402690/HPE 4 430 45 11 001	
		CHECKED	NK/ <i>Signature</i>			CHECKED	<i>Signature</i>		
		APPROVED	NK/ <i>Signature</i>			APPROVED	<i>Signature</i>		
CHAMFER 2,5 CALLED ON BOTH TAPER KEYS.				DRAWING REDRAWN & UPDATED STYLE LIST ADDED.				STATUS OF DRAWING	
REV. 06	DATE 30.03.16	ALTERED	ALJMSA <i>Signature</i>					DISTRIBUTION TME-1 TAM-4 OF PRINTS TNX-1	
		CHECKED	RCHMSWART <i>Signature</i>						
		APPROVED	RCHMSWART <i>Signature</i>						
DIM.14.87±0.1, CTQ DIMS. & NOTES ADDED. IN BOM FOR ITS. 001 & 002, DIMS. 60,14,780 WERE 50,10,770 & RAW WT. ADDED.				7 (EF.)				STYLE LIST	
VAR.	ITEM.NO.	STYLE NO.							
	IT.001	BP9014821123							
	IT.002	BP9014821131							



NOTES:-

- ITS. 001 & 002 TO BE SUPPLIED IN SET. IN A SET, IT. TK. TO BE 14.87±0.1mm & SAME JOB SL. NO. TO BE PUNCH ON BOTH KEYS.
- ALL 03 NOS. "◇" MARKED DIMENSIONS ARE CRITICAL TO QUALITY (CTQ) & SL. NO. OF CTQ DIMENSIONS ARE INSCRIBED IN ◇ e.g. ◇
- a) CTQ DIMENSIONS TO BE CHECKED & ENSURED ON 100% JOBS.
IF CTQ DIMENSION IS CHECKED BY GAUGE ON 100% JOBS, SAME SHALL BE ENSURED BY CHECKING THROUGH INSTRUMENT (IF FEASIBLE BY INSTRUMENT) ON RANDOM BASIS IN MIN. 10% JOBS OF THE LOT (MIN. 1 NO.).
b) REMAINING DIMENSIONS TO BE CHECKED ON SAMPLE BASIS.
c) QUANTUM OF INSPECTION IN THE LOT SHALL BE AS GIVEN BELOW (MIN. 1 NO.) :-

SL.NO.	CHECKING PARAMETER	T.P. (TASK PERFORMER)	BHEL Q.C.
001	DIMENSIONAL TOLERANCE	100%	20%
	GEOMETRICAL TOLERANCE	100%	20%
002	REMAINING DIMS.	20%	5%

- SUPPLIER'S UNIQUE IDENTIFICATION NO. & JOB SL. NO. TO BE PUNCHED AT THE SHOWN LOCATION.
- GAP FOR TAPER KEYS TO BE AS PER TME/QAP/OA7002/TAPER KEY (LATEST REV.).
- HARDNESS OF TAPER KEYS SHALL BE MIN. 130HB.

REF. DRG. NO.	RAW WT. 5.1KG SEE NOTE-6	002	TAPER KEY 60 X 14 X 780	AA 1010312375	Kg	2.20
	RAW WT. 5.1KG SEE NOTE-6	001	TAPER KEY 60 X 14 X 780	AA 10112	Kg	2.20
SIGN. & DATE	REMARKS	ITEM NO.	DESCRIPTION	MATL. CODE	UNIT	UNIT WT.
				MATL. SPCN.		QTY.
INVENTORY NO.	DEPT TME CODE 405	GRADE OF UNTOL.DIM. AA0230208 M	SCALE NTS	WEIGHT (K.G.)	REF. TO ASSY. DRG. 04304511003	ITEM NO. 011 & 012
	TITLE TAPER KEY 0A7001AY/0A7002AZ OIL RIG ALTERNATOR			DRAWING NO. 44304511005		REV. 06
				SHT. No.	01	NO. OF SHT.



CORPORATE PURCHASING SPECIFICATION

AA10112

Rev No. 07

PAGE 1 of 4

BRIGHT STEEL BARS AND SECTIONS (STANDARD QUALITY)

1 GENERAL:

This specification governs the quality requirements of Bright Steel Bars and Sections of standard quality, such as I-beams and equal angles required in very small sections.

2 APPLICATION:

Bars are used in the manufacture of threaded and machined components for general engineering purposes. Sections are used as stator spacer plate vents in generators.

3 CONDITION OF DELIVERY:

- 3.1 Round Bars - Class 4, surface quality.
Up to 50 mm diameter - Cold drawn.
Above 50mm diameter - Cold drawn or Hot rolled, turned and polished
- 3.2 Rectangular/Square/Hexagonal Bars - Class 3, surface quality.
All sizes - Cold drawn.
- 3.3 Sections - Class 4, surface quality.
All sizes - Cold drawn
- 3.4 Bars and sections shall be straight, with their ends sheared, square and true and shall have a smooth surface.
- 3.5 The bars and sections shall be given a clear temporary rust preventive (TRP) coating to avoid corrosion during transit and storage.
Black TRP coating is not acceptable.
Clear TRP used shall be free from pungent smell.
The following clear TRP's are suggested:
a) Servo RP 150 - M/s Indian Oil Corporation
b) HE - 1612 - M/s. BHEL, Bhopal
c) Rustilo DW-901 - M/s. Indrol Lubricants and Specialties Ltd.
d) Rustpro Special - M/s. Tide water oil co.
e) Any other clear TRP conforming to IS: 1154

4 COMPLIANCE WITH NATIONAL STANDARDS:

The material shall comply with the requirements of the following National standards and also meet the requirements of this specification.

IS: 9550-2001 : Bright steel bars

Revisions:

CI 27.2.d of MOM of MRC-S&GPS

APPROVED:

INTERPLANT MATERIAL RATIONALISATION
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RA5302

AA10112	CORPORATE PURCHASING SPECIFICATION			
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5 DIMENSIONS AND TOLERANCES:				
5.1 Sizes:				
Bars shall be supplied to the dimensions specified in BHEL order.				
5.2 Tolerances:				
5.2.1 Rectangular/Square/Hexagonal/Flat Bars:				
Unless otherwise specified, tolerances on dimensions shall be as follows:				
For drawn round bars and turned bars h10 to table 2 of IS:9550				
For hexagonal and square drawn bars upto and including 80mm h11 and above 80mm h12 according to table 2 of IS:9550				
For drawn flats in accordance with table 3 and 4 of IS:9550				
For ground products in accordance with table 1 and 2 of IS:9550				
5.2.2 Sections:				
As specified in BHEL order/drawing.				
5.3 Length:				
Bar and sections shall be supplied in lengths of 2.5 to 4.5 meters with maximum 10% of shorts of not less than 1.5 meters.				
5.4 Straightness:				
Unless otherwise agreed to, the permissible deviation shall not exceed 1.5mm in any one meter length.				
Bars and sections shall be free from twists and bends.				
6 MATERIAL:				
The rolled bars used for purpose of producing the bright bars shall be such, so as to ensure freedom from segregation, piping and other harmful defects.				
7 MANUFACTURE:				
Steel shall be manufactured by the open-hearth, electric, basic oxygen or a combination of these processes.				
8 FREEDOM FROM DEFECTS:				
All finished steel bars and section shall be sound and free from internal and surface defects. They shall be bright and clean.				
9 SURFACE CONDITION:				
9.1 Round Bars and Sections:				
Shall be entirely free from cracks and other surface defects.				
9.2 Rectangular/Square/Hexagonal Bar-Type '3' Finish:				
Shall comply with IS: 9550, Class 3 of table 5.				
10 CHEMICAL COMPOSITION:				
The melt analysis of steel and the permissible variation in the composition of the material from the melt analysis shall be as follows:				

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14 PACKING AND MARKING

The material shall be suitably packed in bundles – polythene wrapped to prevent sagging, corrosion and damage during transit. A suitable clear temporary rust preventive shall be applied all the bars as per clause 3.5 above and finally dispatched in wooden boxes.

Each bar over 50mm shall be stamped at one end with 'AA10112'. Bars 50mm and below shall be bundle together and tied with wire at 3 to 4 places along the length of the bar.

A metal label shall be securely attached to each bundle and shall bear the following information:

AA10112: BRIGHT STEEL BARS AND SECTIONS (STANDARD QUALITY)

BHEL Order No.

Consignment/Identification No.

Melt No.

Size and Weight.

Supplier's Name.

15 REFERRED STANDARDS (Latest Publications Including Amendments):

- 1) IS: 1154 2) IS: 1608 3) IS: 9550

