

Domain :	bhel.abcpurchase.com		
Parent department:	BHEL Trichy		
Unit name	: BHEL Trichy		
Purchase group	: FB Consumable-PRDN	RFQ/NIT/Enquiry Officer	: RAJAPRAKASH K
Event ID	: 30515	RFQ/NIT/Enquiry no.	: 1901900141
Enquiry Date	: 29/06/2019 05:30:00		
Tender Description	: SUPPLY OF FASTENERS		
Terms & Conditions	: TOLERANCE +0-1% IS APPLICABLE IN THIS ENQUIRY REFER ATTACHED ANNEXURE-A FOR TERMS AND CONDITIONS		
Product / service / work keywords	: Fastener,		
No. of Bid Parts	: Multiple	Envelope	: Techno-commercial bid , Price bid
Type of contract	: Goods	Project duration / delivery or completion period	: 42 days
Download document	: Before login	RFQ floated under the policy	: PP-PURCHASE POLICY
Estimated Category	: C	No. of items already attached	: 27
Delivery/Location At	: BHEL TRICHY	Delivery Date	: 31/07/2019 05:30:00
Inspection by Agency	: ENGINEER IN CHARGE, BHEL TRICHY	Inspection Location	: BHEL TRICHY
Min. bid required	: 2		
Bid submission configuration			
Bid evaluation	: Item wise	Bidding access	: Open Tender
Base currency	: INR	Bidding type	: NCB/Indigenous
Key configuration			
Pre-bid meeting	: Don't allow		
Dates configuration			
Document downloading start date	: 29/06/2019 14:00:00	Document downloading end date	: 11/07/2019 14:00:00
Bid submission start date	: 29/06/2019 14:00:00	Bid submission end date	: 11/07/2019 14:00:00
Bid opening date	: 11/07/2019 14:30:00		
Document / EMD / Security fee detail			

Document fees	:	Not required	EMD	:	Not required
Bidding forms					
PRICE BID					
PRICEBID TEMPLATE					
<u>Note:</u>					
Unit rate quoted should be exclusive of GST					
MATERIAL CODE	ITEM NAME		QUANTITY	UNIT OF MEASUREMENT	
000000412010496500	CHS HD SCREWS M4X65-4.8 IS:1366(CAD)		2100.00	NO	
000000412020602000	SOC HD SCRU-M 6x20 -8.8-IS2269		2500.00	NO	
000000412050502000	SLT CSK SCRU-M 5x20 -4.8-IS1365		10300.00	NO	
000000412162405000	HEX HD SCRU-M24x50 -6.8-IS1364P2		300.00	NO	
000000412220692500	HEX HD SCRU M6X25-4.6 IS:1363(P-2)CAD		2200.00	NO	
000000412220893000	HEX HD SCRU M8X30-4.6 IS:1363(P-2) CAD		2300.00	NO	
000000412251005500	EYE BOLT-M10x55 -CL8.8		300.00	NO	
000000412350691000	SOC SET SCRU-M 6x10 -45H-IS6094-GALV		2500.00	NO	
000000412351003000	SOC SET SCRU-M10x30 -45H-IS6094		2700.00	NO	
000000412371605000	BOLT-M16x50 -8.8-IS1364P1		850.00	NO	
000000412371608000	BOLT-M16x80 -8.8-IS364P1		800.00	NO	
000000412380403500	Hex HeadScrew M4X35 Class8.8 IS-1364(P2)		1600.00	NO	
000000412380692000	HEXHD SCRU M6X20-8.8 IS:1364(P-2) CAD		3000.00	NO	
000000412380892500	HEXHD SCRU M8X25-8.8 IS:1364P-2) CAD		1100.00	NO	
000000412381003000	HEX HD SCRU-M10x30 -8.8-IS1364P2		1100.00	NO	
000000412381294000	HEX HD SCRU M12X40-8.8 IS:1364(P-2)CAD		2200.00	NO	
000000413040000400	HEX NUT M4--4 IS:1363(P-3)		10000.00	NO	
000000413040010000	NUT HEX M10		1200.00	NO	
000000413040091000	HEX NUT M10-4 IS:1363(P-3) CAD(10-12MIC)		3500.00	NO	
000000413050000800	WING NUT B4 M8 IS:2636-1972		500.00	NO	
000000413050001000	WING NUT A M10 IS:2636		500.00	NO	
000000414080000800	PUN WASHER-M 8 -IS:2016-A		30000.00	NO	

000000414090000800	TAPER WASHER 9.5 IS:5372	17000.00	NO
000000414090001000	TAPER WASHER 11 IS:5372	2400.00	NO
000000417040604500	SPLIT PIN D6X45-ST-IS549	2100.00	NO
000000417048001250	SPLIT PIN 8X125 -ST-IS549	700.00	NO
000000417070406000	HARDENED CYLINDRI-PINM4X60-Typ-B IS:6689	800.00	NO

Information for Online Participation

Bidder who wish to participate in this tender needs to procure Digital Certificate as per Information Technology Act-2000 using that they can digitally sign their electronic bids. Bidders can procure the same from any or the CCA approved certifying agencies, or they may contact e-Procurement Technologies Ltd. at below mentioned address and they will assist them in procuring the same. Bidders who already have a valid digital Certificate need not to procure the same. In case bidders need any clarification regarding online participation, they can contact,

e-Procurement Technologies Ltd.

Corporate Office:

Address : A-201/208, Wall Street - 2, Opp. Orient Club,
Nr. Gujarat College, Ellis Bridge,
Ahmedabad - 380006, Gujarat(INDIA)

Digital Certificate Contacts

Contact Person : Mr. Himalay Vaishnav

Cell : +91-9099090830

Phone Nos. : +91-9099090830

Fax No :

e-Mail : info@abcProcure.com

Support Team Contacts

Contact Person : BHEL Support Team Ahmedabad

Cell : +91-9265562819

Phone Nos. : +91-79-68136809/871/861/823/872

Fax No :

e-Mail : Bhel.Support@abcProcure.com

Bidder who wish to participate in e-Tender need to fill data in predefined forms of Price bid available in respective tender only. After filling data in predefined forms bidders need to click on final submission link to submit their encrypted bid. Bidder need to submit Document Fees, EMD & Reference Documents in hard copy if such instruction are given by tendering authority. As Per the new Inter-operability guidelines released by Controller of Certifying Authorities(CCA), the Secured Socket Layer(SSL) certificate for a e-procurement application is generated on a new algorithm, SHA2.

Also, the Digital Certificates that will be applicable for these platforms have to be SHA2 algorithm complaint. For the same, the users have to ensure that they have Windows XP(SP3)/Windows Vista/Windows7 installed in their respective PC/Laptop. In case of Windows XP Service pack - 3, if you get any issue you can install the SSL patch, which is available at our download section of our e-Tender/e-Auction Portal and also at our corporate website www.abcprocure.com just below the label of "Knowledge section".

Fraud Prevention

Bidder along with its associate/collaborators/sub-contractors/sub-vendors/consultants/service providers shall strictly adhere to BHEL Fraud Prevention Policy displayed on BHEL website <http://www.bhel.com> and shall immediately bring to the notice of BHEL Management about any fraud or suspected fraud as soon as it comes to their notice.

Preference to Make in India

For this procurement, Public Procurement (Preference to Make in India), order 2017 dated 15.06.2017 & 28.05.2018 and subsequent orders issued by the respective Nodal ministry shall be applicable even if issued after issue of this NIT but before finalization of contract/PO/WO against this NIT. In the event of any Nodal Ministry prescribing higher or lower percentage of purchase preference and/ or local content in respect of this procurement, same shall be applicable. Default margin of purchase preference shall be 20% to local suppliers with default minimum local content of 50%.



Annexure A

QUOTATIONS:

1.

a. Interested bidders / Suppliers shall submit their offer through e-Procurement mode at <https://bhel.abcpocure.com>. Offers in any other mode will not be accepted. For Enterprise Procurement System (EPS) Bidders/Suppliers are requested to follow these steps.

REQUIREMENTS

1. Computer with good Internet Connection (Minimum 256 kbps).
2. Operating System should be Windows Vista / Windows 7 and above.
3. Web Browsers: IE 9.0 (32-bit Browser only) & above, Mozilla Firefox up to version 51 (32 bit / 64 bit), Google Chrome 20.0 to 41.0
4. System Access with Administrator Rights
5. Digital Certificate: To participate in an e-Tender, you need to have a Class-II/III Digital Signature Certificate (DSC) for Signing & Encryption (Required both digital signature certificate: Signing & Encryption) of bids issued by any of the valid Certifying Authorities (approved by Controller of Certifying Authorities) in India. Valid Digital Signature Certificate (DSC) must be installed in a computer system from where you want to access the website.

Steps for registration & bidding:

For registration & submitting bids, vendors shall follow the link "Bidder manual for BHEL Bidders" in <https://bhel.abcpocure.com>.

In case of any assistance, please call the following Nos for support:

Contact: +91-79-40270549/560/590

General Conditions:

- a. Bidders are requested to quote their offer price on F.O.R Destination (BHEL/Stores) basis only (The basic price of the material quoted in the bid should be inclusive of Packing, Forwarding, freight and transit insurance, etc.,). Ex-works offers will be summarily rejected without further clarification.
 - b. No charges shall be indicated as "Lumpsum" or "Approximate" in absolute value. All charges like taxes and duties should be clearly specified as "percentage" of the quoted rates.
 - c. Manufacturer's name, trademark or patent no. if any should be specified. Illustrative leaflets giving technical particulars are required along with quotation wherever necessary.
 - d. Products with I.S.I. certification marks will be preferred.
 - e. The Purchaser shall be under no obligation to accept the lowest or any other tender and shall be entitled to accept in Part or full without assigning any reason whatsoever.
 - f. The bidder has to keep track of any changes by viewing the addendum / Corrigendum's issued by the Purchaser on time-to- time basis in the E-Procurement platform. The Company calling for tenders shall not be responsible for any claims/problems arising out of this.
 - g. The user should complete all the processes and steps required for bid submission. The successful bid submission can be ascertained once acknowledgement is given by the system through bid submission number after completing all the processes and steps. BHEL and M/s. e-Procurement Technologies limited. will not be responsible for incomplete bid submission by users. Users may also note that the incomplete bids will not be saved by the system and are not available for the Purchaser for processing.
 - h. Before uploading scanned documents if any, the bidders shall sign on all the statements, documents, certificates uploaded by him, owning responsibility for their correctness / authenticity.
2. Offers should have a validity of minimum 90 days from the date of Tender opening. The quoted/Finalized rates shall be Firm till completion of the supplies including amendment / deviation / extension if any in quantity / date.
3. On the due date of tender opening, only technical bids will be opened. The opened technical bids will be evaluated by us and clarifications required, if any, will be called for from the bidders on technical and commercial points. If no reply is received from the vendor for the clarification raised by BHEL with in the final cut-off date those vendors offer will be processed with the documents available / submitted against

this tender. Offers not meeting the required specification and technical condition will be summarily rejected. The price bids of technically suitable bidders will be opened on a later date with prior intimation to techno-commercially suitable bidders.

4. Ranking L-1, L-2 etc. shall be done for individual items for the techno-commercially acceptable offers on landed cost to BHEL, Trichy basis and BHEL reserves the right to place order for individual items with different vendors. In the event of more than one vendor becoming L1 for the item, the enquiry quantity will be shared equally among all the L1 vendors.

5. BHEL reserves the right to negotiate with L1 vendor or re-float the tender for items where, L1 price is not the lowest acceptable price; BHEL reserves the right to increase or decrease the tender quantity.

6. Payment term is 100% direct EFT payment after 60 days from the date of receipt and acceptance of materials.

Any deviation in the above payment terms, any other conditions in Payment terms or any other payment terms will not be accepted.

7. LD clause & Risk purchase clause are applicable.

(Any deviations in the LD shall attract loading to the extent of relaxation sought to which it is not agreed by the bidder at offered value).

Single delivery schedule:

If the Supplier fails to deliver the P.O quantity within the period specified in the contract, then the Purchaser shall deduct liquidated damages, 0.5% of the total order value per week of delay or part thereof subject to a maximum of 10% of the total order value.

RISK PURCHASE: Alternatively the purchaser at his option will be entitled to terminate the contract and to purchase elsewhere at the risk and cost of the seller either the whole of the goods or any part which the supplier has failed to deliver or dispatch within the time stipulated as aforesaid or if the same were not available, the best and the nearest available substitutes therefor. The supplier shall be liable for any loss, which the purchaser may sustain by reason of such risk purchases in addition to penalty at the rate mentioned in LD clause above.

8. **GST:** For supplies after implementation of GST i.e. after 30.06.2017, the following conditions will apply and supplier shall fully comply to the below points.

Indigenous suppliers:

- a. Response to Tenders for Indigenous supplier will be entertained only if the vendor has a valid GST registration no which should clearly mentioned in the offer. If any specific exemption is available, a declaration with due supporting documents need to be furnished for considering the offer.
- b. Supplier shall mention their GSTN registration number in all their invoices and invoices shall be in the format as specified/prescribed under GST laws. Invoices shall necessarily contain Invoice number (in case of multiple numbering system is being followed for billing like SAP invoice no, commercial invoice no etc., then the Invoice No which is linked/uploaded in GSTN network shall be clearly indicated), item description as per PO, Quantity, Rate, Value, applicable taxes with nomenclature (like IGST, SGST, CGST & UTGST) separately, HSN/ SAC Code, etc.
- c. All invoices shall bear the HSN Code for each item separately (Harmonized System of Nomenclature)/ SAC code (Services Accounting Code).
- d. A declaration to the effect that all invoice particulars are/were uploaded in the GSTN network/ portal & all tax liability as per GST rules and regulations have been and will be discharged, shall be mentioned in the invoice. If not mentioned in the invoice, a separate declaration shall be submitted as per the requirement of BHEL.
- e. All documents like Mill Test Certificate, LR copy, Guarantee/Warranty certificate, work completion certificate, any other document mentioned in PO, shall be sent along with the vehicle/consignment. For all consignments received within the calendar month, input credit will be availed within that month in line with monthly returns filing cycle. In case of any discrepancy in the document or non-submission of documents mentioned in the PO, then BHEL will not be able to accept or account the material, in such case availing of tax credit will be deferred to next month or so.

- f. In case of discrepancy in the data uploaded by supplier in the GSTN portal or in case of any shortages or rejection in the supply, then BHEL will not be able to avail the tax credit and will notify the supplier of the same. Supplier has to rectify the data discrepancy in the GSTN portal or issue credit note (details to be uploaded in GSTN portal) for the shortages or rejections in the suppliers, within the calendar month notified by BHEL.
 - g. For any such delay in availing of tax credit for reasons attributable to supplier (as mentioned above), interest (calculated @ SBI MCLR Rate + 6%) alongwith penalty if any will be deducted for the delayed period i.e. from the month of receipt till the month tax credit is availed, from the running bills.
 - h. Under GST regime, BHEL has to discharge GST liability on LD recovered from suppliers / contractors. Hence applicable GST shall also be recoverable from suppliers/contractors on LD amount. For this Debit note will be issued by BHEL indicating the respective supply invoice number.
- 9. PACKING AND MARKING:** The supplier shall arrange for securely protecting and packing the stores to avoid loss or damages during transit.

10. Special Provisions for Micro and Small Enterprises (MSE) bidders:

- Payment for MSE Indigenous vendors will be as per MSMED Act, 2006
- MSE sharing clause benefits will be applicable to MSE Manufacturers only and not for the Traders/ Dealers of Service Category - as per Office Memorandum circular of Micro, Small & Medium Enterprises, Clause – i, dt: 09.02.17.
- Declaration of Udyog Aadhar Memorandum (UAM) number by MSE bidder is mandatory to avail intended benefit available to MSEs as contained in Public Procurement Policy for MSEs Order, 2012 issued by MSME.
- Bidders fail to submit will be considered as non-MSE bidder.
- At least 25% of the tendered quantity is earmarked for MSE suppliers in this tender. If L1 offer is from a Micro / Small enterprise, this provision is not applicable.
- Out of the 25% tendered quantity reserved for MSE suppliers, 6.25% shall be earmarked for procurement from MSE owned by SC / ST entrepreneurs. In the event of failure of such Micro and Small enterprises to participate in the tender process or meet the tender requirements and the L1 price, the 6.25% sub-target for procurement ear-marked MSE owned by SC / ST entrepreneurs shall be met with other MSE enterprise/s.
- Minimum of 3% reservation for women owned MSEs within the above mentioned 25% reservation. In the event of failure of such Micro and Small enterprises to participate in the tender process or meet the tender requirements and the L1 price, the 3% sub-target for procurement ear-marked MSE owned by women entrepreneurs shall be met with other MSE enterprise/s. (The definition for MSEs owned by Women Entrepreneurs is clarified as:
 - i) In case of proprietary MSE, proprietor shall be woman.
 - ii) In case of partnership MSE, the women partners shall be holding at least 51% share in the unit.
 - iii) In case of private limited companies, at least 51% share shall be held by the women promoters.
- In the event of more than one vendor becoming L1 for any of the item, the enquiry quantity for the items will be shared equally among all the L1 vendors.
- MSE suppliers can avail the intended benefits only if they submit along with the offer, attested copies of either EM II certificate having deemed validity (five years from the date of issue in acknowledgement in EM II) or valid NSIC certificate or EM II certificate along with attested copy of a CA certificate (Format enclosed as per Annexure I where deemed validity of EM II certificate of five years have expired) applicable for the relevant financial year (latest audited). Date to be reckoned for determining the deemed validity will be the date of bid opening (Part 1 in case of two part bid). Non submission of such documents will lead to consideration of their bids at par with other bidders. No benefits shall be applicable for the enquiry if any deficiency in the above required documents is not submitted before the price bid opening. If the tender is to be submitted through e-procurement portal, then the above required documents are to be uploaded on the portal. Documents should be notarized or attested by a

Gazetted officer. This provision for MSE will apply subject to the condition that the participating MSE meets the tender requirements.

- In case of any change in the MSE status of the bidder, it shall be the responsibility of the bidder to notify the change as a part of the bid document. If at a later date it comes to the knowledge of BHEL, that the change in the status has not been intimated by the bidder and the order is obtained under the premise of an MSE then BHEL would cancel the pending order against this tender and take necessary steps for suspension of the business dealing with the bidder as per the procurement policy of BHEL.
- All supplier (new/old) will be eligible for registration/renewal with BHEL as MSE supplier and provided at least any one of the following documents are submitted along with tender documents
 - a) Valid NSIC Certificate (or)
 - b) Entrepreneurs Memorandum part II (EM II) certificate (valid based on deemed validity of 5 years) (or)
 - c) EM II certificate along with attest copy of CA certificate (as per prescribed format at Annexure-I) applicable for the relevant financial year (latest audited), where the deemed validity of EM II is over. However credential of all MSE suppliers will be verified before considering the intended benefits for MSE suppliers as per clause (i) at the time of tender evaluation.
 - d) Udyog Aadhar memorandum with Attested copy of latest audited CA certificate (relevant financial year as per prescribed format at Annexure-I).

11. Sharing of Quantity

- a. If L1 vendor is Non MSE and in case MSE vendor participating in the tender quotes within the price band of L1 + 15%, they will be allowed to supply the entire quantity of that item subject to acceptance of L1 price by MSE vendor.
- b. In case of counter offering rate has not been accepted by MSE vendors or L1 vendor is MSE, entire quantity will be ordered on L1 vendor.
- c. The quantities indicated in this tender are tentative annual requirement of BHEL. Order will be placed on actual requirement basis.

12. Conditional offers are likely to be rejected.

13. The correspondences between the bidder and BHEL through email are considered as valid document legally though not signed. It is treated as valid confirmations made on behalf of the respective company and comes under the legal ambit of the business transaction and hence binding on both the parties.

14. Disclaimer Clause: Neither the Organization (Bharat Heavy Electricals Ltd.) nor the service provider (M/s. e-Procurement Technologies limited.) is responsible for any failure of submission of bids due to failure of internet or other connectivity problems or reasons thereof.

15. Bidders participating in the tender should declare in their technical bid whether they have been black-listed / kept on hold / given Business holiday for a specified period by any Public Sector Undertaking or Government Departments. The reasons for such action with details and the current status of such hold shall be clearly furnished to BHEL. If no such details are mentioned in the offer, it will be construed that the bidder is not under any such hold. However, at a later date if it comes to the notice of BHEL about any such hold under enforcement, BHEL reserves the right to reject the offer at any point of time and also under any stage of the finalization of the tender. Such bidders will not be permitted to participate in the further tender proceedings and will be communicated suitably.

16. BHEL reserves the right to negotiate or re-float the enquiry opened if L1 price is not the lowest acceptable price to them inter-alia other reasons.

17. In case of any quality rejection of materials, the supplier has to collect the materials at his own cost within the 10 days of rejection of advice. Otherwise the materials will be scrapped

- 18.** Unloading at BHEL has to be done by the suppliers and BHEL will not be in a position to provide any handling / unloading facilities.
- 19.** Bidders not confirming to the enquiry specifications will be disqualified.
- 20.** If Guarantee / Warranty period is applicable as per tender specification, No deviation permitted and deviated offers are liable for rejection.
- 21.** IMPORTANT NOTE: BHEL WILL CONSIDER THE RANKING AFTER THE LOADING IS APPLIED AS REFERRED ABOVE WHEREVER DEVIATIONS ARE OBSERVED.
- 22.** No revision of prices will be entertained at any circumstances after tenders are opened.
- 23.** The Tender Due date falling on public holiday due to any circumstances, the tender will be opened on next working day.
- 24.** Vendors currently not register with BHEL Trichy & wish to participate to in this tender should furnish the following documentary proof / information along with technical bid.
- a) Copy of Registration certificate.
 - b) PAN Card (Copy to be submitted).
 - c) Banker's Information with copy of Bank Pass Book first Page.
 - d) MSE registration along with NSIC/SSI Certificate, (If applicable)
 - e) Complete postal address of the company with Pin Code.
 - f) Contact Person /s, Phone No, Mobile No, FAX No, Email ID etc.
 - g) Copy of statutory document – GST REGISTRATION.
 - h) Copy Purchase Order & Experience certification as proof of supply of similar item to any Govt. Agencies / PSU / Organizations.
 - i) Balance Sheet for last three financial years along with audit report is to be submitted.
 - j) Partnership Deed if applicable.
- 25.** For verification of data submitted towards evaluation of bidder's capability, BHEL may decide to visit the bidder(s) works. Any fact found deviating from submitted data shall make the bidder liable to be disqualified.
- 26.** Delivery goods/ items should be securely and suitably packed to avoid transit damages.
- 27.** The vendor should attach scanned copies of the following annexures duly filled in, sealed and signed by the vendor (Part-I).
- Annexure I (CA certificate).
 - Annexure A (Terms and conditions).
 - Annexure B (Commercial confirmation format).
- 28.** The commercial confirmation format (as per annexure B) should be submitted along with the technical bid, without fail. Terms and conditions to be confirmed /accepted/mentioned in your technical bid and the format (which we have mentioned in our enquiry as per annexure B) should be the same, without any variation/deviation. In case of variation/deviation between the technical bid and format, the details furnished in the format (as per annexure B) only are considered for evaluation.
- 29.** Any communication / clarification regarding the tender shall be sent to the following

E-mail: pgavictor@bhel.in
Phone no. 0431-2577645

Annexure - I

Certificate by Chartered Accountant on letter head

This is to Certify that M/s ,
(herein-after referred to as 'company') having its registered office at
..... is registered under MSMED Act 2006, (Entrepreneur
Memorandum No (Part—II) dtd.....
Category:(Micro/Small)). (Copy enclosed).

Further verified from the Books of Accounts that the investment of the company as per the

latest audited financial year as per MSMED Act 2006 is as follows:

- 1. For Manufacturing Enterprises:** Investment in plant and machinery (i.e. original cost excluding land and building *and* the items specified by the Ministry of Small Scale Industries vide its notification No.8.0.1722(E) dated October 5, 2006:

Rs Lacs

- 2. For Service Enterprises:** Investment in equipment (original cost excluding land and building and furniture, fittings and other items not directly related to the service rendered or as may be notified under the MSMED Act, 2006:

Rs Lacs

(Strike off whichever is not applicable)

The above investment of RsLacs is within permissible limit of Rs.Lacs forMicro / Small **(Strike off which is not applicable)** Category under MSMED Act 2006.

Or

The company has been graduated from its original category (Micro/ Small) **(Strike off which Is not applicable)** and the date of graduation of such enterprise from its original category is (dd/mm/yyyy) which Is within the period of 3 years from the date of graduation of such enterprise from its original category as notified vide S.O. No. 3322(E) dated 01.11.2013 published in the gazette notification dated 04.11.2013 by Ministry of MSME.

Date:

(Signature)

Name -

Membership number -

Seal of Chartered Accountant

TECHNO COMMERCIAL BID
TO BE SUBMITTED ALONG WITH PART – I (TECHNO COMMERCIAL BID)

ANNEXURE –B

S. NO	DESCRIPTION	BHEL REQUIREMENTS	SUPPLIER CONFIRMATION / DEVIATION (STRIKEOUT WHICHEVER IS NOT APPLICABLE)
1	VALIDITY	90 DAYS FROM DATE OF TECHNICAL BID OPENING	NON DEVIATABLE
2	PRICE QUOTED	FOR-DESTINATION BHEL STORES / TRICHY	NON DEVIATABLE
3	LD CLAUSE	(For details please read S.No:07 of “Annexure – A”)	NON DEVIATABLE
4	RISK PURCHASE CLAUSE	(For details please read S.No:07 of “Annexure – A”)	NON DEVIATABLE
5	ACCEPTANCE FOR SUPPLYING MATERIALS AS PER STANDARD INDICATED FOR EACH ITEM		CONFIRM / NOT CONFIRM
6	DEIVERY SCHEDULE**	Full quantity within Six weeks from the date of PO.	NON DEVIATABLE
7	CONTACT PERSON DETAILS	NAME: MOBILE NO: EMAIL :	

****** The Fasteners are urgently required. Suppliers are requested to adhere to BHEL Delivery schedule.

SIGN AND SEAL OF AUTHORIZED PERSON

ANNEXURE - PQC

ENQ.NO:

	Material: FASTENERS	
Sl.No	PRE QUALIFICATION CRITERIA —Points	Vendor to confirm
01	<i>Acceptance for supplying the Fasteners as per standard and /or as per applicable relevant drawings indicated against each tendered item.</i>	<i>ACCEPTED / NOT ACCEPTED</i>
02	<i>Suppliers shall have supplied Similar Fasteners in the tendered specification. Details of supplies made in recent past detailing the quantity, Specification, Size & customer details, year wise along with the unpriced PO copies, proof of supply such as invoice copies and sample test certificates shall be submitted.</i>	<i>ENCLOSED / NOT ENCLOSED</i>
03	<i>BHEL/End customer reserve the right to inspect the item ordered at any stage at vendor's works and if found not meeting the stipulated conditions, material is liable for rejection.</i>	<i>ACCEPTED / NOT ACCEPTED</i>
04	<i>BHEL/End customer reserves the right to inspect the sample at vendor's works for giving clearance before bulk production.</i>	<i>ACCEPTED / NOT ACCEPTED</i>
04	<i>BHEL reserves the right to visit supplier's works to audit and inspect to ensure the capability for technical evaluation.</i>	<i>ACCEPTED / NOT ACCEPTED</i>

NOTE:

- * **Necessary supporting documents shall be submitted for meeting each of the above Pre-Qualification Criteria for evaluation of the offers.**
- * **BHEL reserves the right to consider/Not-consider the offers based on the evaluation of documents submitted for the above Pre-Qualification Criteria.**
- * **Offers meeting the above prequalification criteria points only will be evaluated further. Otherwise it will summarily be rejected.**

SIGN AND SEAL OF AUTHORIZED PERSON



PLANT STANDARD

HPBP TIRUCHIRAPPALLI

BPS 41225
Rev. No. 03
PAGE 1 OF 2

EYE BOLTS, PRODUCT GRADE 'A'

(Property Class 8.8)

1.0 SCOPE

Covers the requirements of Eye Bolts in the size range M20 to M27.

2.0 SPECIFICATION AND REFERENCE STANDARDS

Dimensions and preferred sizes	Fig 1 & Table 1 of this standard	
Preferred length size combination	Table 1 of this standard	
Tolerance	Product grade	A
	Indian Standard	IS: 1367 (Part 2)
Thread	Pitch	Table 1 of this standard
	Tolerance	6g
	Indian Standard	IS 4218 (Part 3, 5 & 6)
Material	Steel	
Manufacture	Preferably forged	
Mechanical Properties	Property class	8.8
	Indian Standard	IS: 1367 (Part 3)
Sampling and Acceptability	Indian Standard	IS: 1367 (Part 17)
General requirements	Eye Bolts shall comply with relevant parts of IS: 1367 in respect of requirements not covered in this standard.	

2.1 Referred standards (Only current versions are applicable)

IS 1367 (Part 2, 3 & 17)	Technical supply conditions for threaded steel fasteners
IS 1368	Dimensions for ends of parts with external ISO metric threads
IS 1369	Fasteners thread run-out and undercuts
IS 4218 Part 3,5 & 6	ISO metric screw threads

3.0 DESIGNATION

A Grade 'A' Eye Bolt to this standard of thread size M10 and nominal length 55mm shall be designated as :

3.1 On Drawings

- Material Specification column
- Description Column
- Drawing Number Column
- Material Code column:

EYE BOLT GR A - 8.8 M10x55
BPS 41225
4122510055

Revisions

Brought up to date

Approved

STANDARDS SECTION
CONTRACT ENGINEERING AND CO-ORDINATION
HPBP, TIRUCHIRAPPALLI

Rev. No. 03

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Issued

Dt of 1st Issue

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Year

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DEC 1986

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3.2 Ordering Description

For placing indents, issuing enquiries and on purchase order, Ordering Description given below shall be followed.

Eye Bolt M10x55 to BPS: 41225

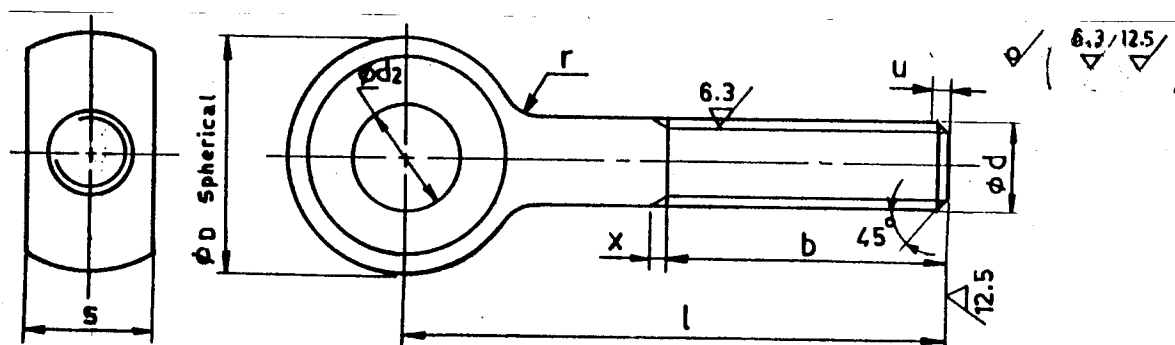
4.0 ADDITIONAL INFORMATION

4.1 Copies of this standard shall be enclosed along with the purchase order.

4.2 These bolts are also called the swinging bolts and these shall not be used for lifting purposes.

FIG. 1, DIMENSIONS FOR EYE BOLTS

(All dimensions are in millimetres)



'u' according to CE of IS: 1368

'x' according to IS:1369

TABLE 1, PREFERRED LENGTH-SIZE COMBINATION FOR EYE BOLTS

(All dimensions are in millimetres)

Thread Size d (h ₁₃)	s h ₁₂	D ≈	d ₂ h ₁₁	r	b		Max. load Kg	Length (l)													
					For 1<=150	For l>150		50	55	60	70	75	80	90	100	110	120	130	140	150	
M10	12	20	11	4	26		525		42.4												
M12	14	25	13	6	30	36	870						98.3								
M16	17	32	17	6	38	44	1375					156		180		212	228	244			
M20	22	40	21	6	46	52	2300								363						
M24	25	45	26	10	54	60	2365												603		
(M27)	27	50	26	10	60	66	3610														

Note:

1. Preferred lengths are in between the stepped bold lines
2. Weights are given in Kg per 1000 numbers only



PLANT STANDARD

HPBP TIRUCHIRAPPALLI

BPS 41304

Rev. No. 02

PAGE 1 OF 2

HEXAGON NUTS, PRODUCTS GRADES 'B' & 'C'

(Property Class 4 & 14H)

1.0 SCOPE

Covers the requirements of hexagon nuts in the size range M27, M33 and above

2.0 SPECIFICATION AND REFERENCE STANDARDS

Dimensions and preferred sizes	Fig 1 & Table 1 of this standard	
Tolerance	Product grade	C for nuts with d ≤ M64 B for nuts with d > M64
	Indian Standard	IS 1367 (Part 2) for nuts with d ≤ M39x3 IS: 3138 for nuts with d ≥ m42x3
Thread	Pitch	Table 1 of this standard
	Tolerance	7H for nuts with d ≤ M39x3 6H for nuts with d ≥ M42x3
	Indian Standard	IS 4218 (Part 3, 5 & 6)
Material	Steel	
Mechanical properties	Property class	4 for nuts with d ≤ M39x3 14H for nuts with d ≥ M42x3
	Indian standard	IS: 1367 (Part 6&7)
Sampling and Acceptability	Indian Standard	IS: 1367 (Part 17)
General requirements	Nuts shall comply with IS: 1363 part 3 and IS: 3138 in respect of requirements not covered in this standard	

2.1 Referred standards (only current versions are applicable)

IS: 1367 (Part 2, 6, 7 & 17)

IS: 3138

IS: 4218 (Part 3, 5 & 6)

Technical supply conditions for threaded steel fasteners

Specification for hexagon bolts and nuts

ISO Metric screw threads

3.0 DESIGNATION

A Grade 'C' hexagon nut to this standard of thread size M36x3 shall be designated as :

3.1 On Drawings

i) Material Specification column

ii) Description Column

iii) Drawing Number Column

iv) Material Code column:

HEX NUT GR C M36x3-4

BPS 41304

4130400036

Revisions

Brought upto date

Approved

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3.2 Ordering Description

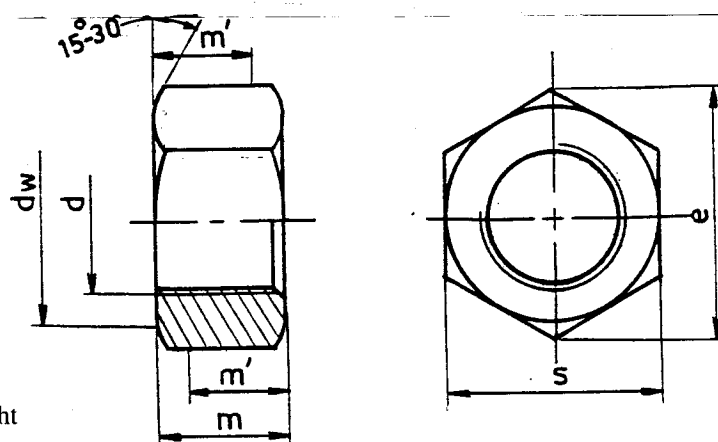
For placing indents, issuing enquires and on purchase order, ordering description given below shall be followed. (Typical examples)

- i) HEXAGON NUT M33 TO BPS:41304 for nuts with $d=M27$ & M33
- II) HEXAGON NUT M36x3 TO BPS:41304 for nuts with $d \geq M36X3$

4.0 ADDITIONAL INFORMATION

Copies of this standard shall be enclosed alongwith the purchase order for thread sizes M27,M33 and above.

FIG. 1 DIMENSIONS FOR HEXAGON NUTS
(All dimensions are in millimetres)



'm' = Effective gauging height

TABLE 1
(All dimensions are in millimetres)

Thread Size d	d_w Min	m		m' Min	s		e		Weight
		Max	Min		Max	Min	Min	Max	
(M27)		22.65	21.35		41	40.0	45.20		166
(M33)		26.65	25.35		50	49.0	55.37		299
M36x3	51.1	31.5	29.4	23.5	55	53.8	60.79		364
(M39x3)		31.8	30.2		60	58.8	66.44		485
(M45x3)		36.0	35.0		70	68.8		80.8	750
M48x3		38.0	37.0		75	73.8		86.5	935
M56x4		45.0	44.0		85	83.6		98	1355
(M60x4)		48.0	47.0		90	88.6		104	1625
M72x4		58.0	56.8		105	103.6		121	2430
M80x4		64.0	62.8		115	113.6		133	3190

NOTE :

1. Sizes in brackets are non-preferred.
2. Weights are given in Kg per 1000 numbers only.



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Based on IS: 549-1974

SPLIT PINS

1.0 SCOPE

Covers the requirements for Split Pins in the diameter range 0.6 to 20mm.

2.0 SPECIFICATION AND REFERENCE STANDARDS

Dimensions and tolerances	Table 1 of this standard	
Preferred length and size combination	Table 2 of this standard	
Material	Mild Steel Wire (Half round)	
Finish	Bright self colour finish	
Sampling and Acceptability	Indian standard	IS: 6821
General requirements	Pins shall comply with IS: 549 in respect of requirements not covered in this standard	

2.1 Referred Standards (Only the current versions are applicable)

IS: 549 Specification for Split Pins.

IS: 6821 Methods for sampling non-threaded fasteners

REVISIONS

DATE

APPROVED

STANDARDS SECTION
ENGINEERING AND DEVELOPMENT CENTRE
HPBP TIRUCHIRAPALLI

PREPARED

HPBP TIRUCHY

ISSUED

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PLANT STANDARD

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3.0 DESIGNATION

A Split Pin to this standard of nominal diameter 5mm and nominal length 56mm shall be designated as:

3.1 On Drawings:

- i) Material Specification column: IS: 549
- ii) Description column : PIN SPLIT 5x56
- iii) Drawing Number column : 4170405056
- iv) Material Code column : 4170450056

3.2 Ordering Description

For placing indents, issuing enquiries and on purchase order, the Ordering Description given below shall be followed.

Split Pin 5x56 IS: 549

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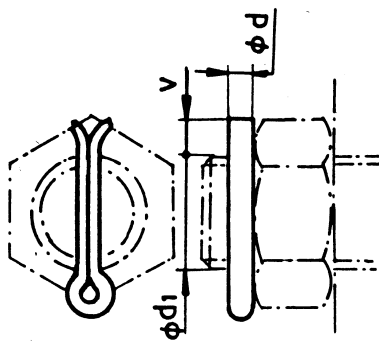
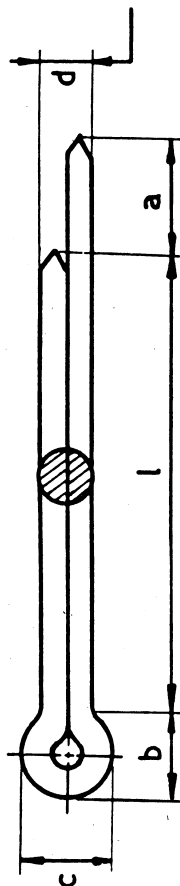
PLANT STANDARD

HPBP TIRUCHIRAPALLI

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TABLE 1 - DIMENSIONS FOR SPLIT PINS
(All dimensions in millimetres)



Dimensions	Nominal size															
	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.0	5.0	6.3	8.0	10	13	16	20
d	Max	0.5	0.7	0.9	1.0	1.4	1.8	2.3	2.9	3.7	4.6	5.9	7.5	9.5	12.4	15.4
	Min	0.4	0.6	0.8	0.9	1.3	1.7	2.1	2.7	3.5	4.4	5.7	7.3	9.3	12.1	15.1
a	Max	1.6	1.6	1.6	2.5	2.5	2.5	3.2	4.0	4.0	4.0	4.0	6.3	6.3	6.3	6.3
b	≈	2.0	2.4	3.0	3.0	3.2	4.0	5.0	6.4	8.0	10	12.6	16	20	26	32
c	Max	1.0	1.4	1.8	2.0	2.8	3.6	4.6	5.8	7.4	9.2	11.8	15	19	24.8	30.8
	Min	0.9	1.2	1.6	1.7	2.4	3.2	4.0	5.1	6.5	8.0	10.3	13.1	16.6	21.7	27.0
Corres- ponding dia- meter d ₁	Over	--	2.5	3.5	4.5	5.5	7.0	9.0	11	14	20	27	39	56	80	120
	Up to	2.5	3.5	4.5	5.5	7.0	9.0	11	14	20	27	39	56	80	120	170
v	Over	--	2	3	4	5	6	8	9	12	17	23	29	44	69	110
	Up to	2	3	4	5	6	8	9	12	17	23	29	44	69	110	160
		3	3	4	5	5	6	6	8	10	12	14	16	20	25	32



PLANT STANDARD

HPBP TIRUCHIRAPALLI

BPS: 41704

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TABLE 2 - PREFERRED LENGTH-SIZE COMBINATION
FOR SPLIT PINS

(All dimensions in millimetres)

1 Nom	Nominal size															
$\pm 1/2$ IT 17	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.0	5.0	6.3	8.0	10	13	16	20
4																
5																
6																
8																
10																
12																
14																
16						0.4										
18																
20																
22																
25									2.7							
28																
32										5.5						
36									3.6							
40										6.5						
45									4.6		11.4					
50																
56									5.6	8.4	13.4					
63										9.2						
71											17.2					
80																
90																
100																
112																
125																
140																
160																
180																
200																
224																
250																
280																

NOTE:

- 1 Weights are given in kg per 1000 numbers only
- 2 For stocked sizes refer BPS components booklet
- 3 Preferred lengths are in between the stepped bold lines

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