



**Bharat Heavy Electricals Limited**  
Industrial Valves Plant  
Goindwal Sahib (Punjab)

**Enquiry No.**  
**2425-052E**

**Date:**  
**07.11.2024**

**NOTICE INVITING TENDER (NIT)**

BHEL Goindwal Sahib (Punjab) invites offers from interested bidders / suppliers for submission of their offer through e-procurement mode at <https://eprocurebhel.co.in/>. Offers in any other mode will not be accepted. In case of any difficulty faced while registering on BHEL's e-Procurement portal developed by NIC, queries may be addressed to 0120-4001002, 0120-4001005 and 0120-6277787; email: [support-eproc@nic.in](mailto:support-eproc@nic.in). These details are also available on 'Contact Us' page of the portal.

<b>Tender enquiry no. &amp; date</b>	2425-052E dated 07.11.2024
<b>Form of contract</b>	Supply
<b>Tender / Item description</b>	Purchase of High Strength Friction Grip (HSFG) Fasteners, Plain Chamfered and DTI Washers
<b>Material standard / Drawings</b>	As per attached Specifications & Drawings
<b>Location(s) of Supply / Work</b>	BHEL Trichy Stores
<b>Earnest Money Deposit (EMD)</b>	Not Applicable
<b>Performance Security (PS)</b>	Upto 5% of PO value, subject to maximum value of Rs. 2 Lakh, within 21 days from the date of award of PO. (Refer Sr. no. S17 of Special Terms)
<b>Quotation parts</b>	Two Part Bid
<b>Tender download / Bid submission start date</b>	<b>07.11.2024 (17:30 Hrs. IST)</b>
<b>Tender download / Bid submission end date</b>	<b>18.11.2024 (12:00 Hrs. IST)</b>
<b>Tender / Bid opening date</b>	<b>18.11.2024 (15:30 Hrs. IST)</b>
<b>Validity of offer</b>	75 days from techno commercial bid opening (Part I)
<b>Quantity variation</b>	+/- 2% for all the items
<b>Delivery schedule</b>	75 Days for Washers and 100 Days for Bolts and Nuts with staggered Delivery
<b>Tender evaluation</b>	Item - Wise
<b>Reverse auction</b>	Applicable
<b>Integrity pact (IP)</b>	Applicable
<b>Contact person details</b>	Rajesh Kumar, Sr. Manager / MM 01859-224 618, <a href="mailto:kumarrajesh@bhel.in">kumarrajesh@bhel.in</a>  Pranshu, Manager / MM 01859-224 619, <a href="mailto:pranshu@bhel.in">pranshu@bhel.in</a>



## SPECIAL TERMS AND CONDITIONS

**Tender Enquiry No. 2425-052E** Dated 07.11.2024 **Due date 18.11.2024**  
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### S1. SCOPE OF SUPPLY

Material shall be supplied as per the applicable Technical Delivery Condition (TDC) / Specifications / Drawing as mentioned in the Table – 1, at the Delivery Destination. National & International material standards shall have to be arranged by bidders themselves.

**Table 1 : List of Items along with Quantity; Technical Specifications and Drawing Number**

Sl. no.	Material Code	Description	Quantity (Nos.)	MSE Reserved Items	TDC / Specifications	Drawing No.
1	412420010000 - AP	HSFG BOLTS & NUTS M30X130 SSFIT-001 REV0 (Hot Dip Galvanised)	35,230	--	SSFIT-001 REV 0	--
2	412420020000 - AP	HSFG BOLTS & NUTS M30X140 SSFIT-001 REV0 (Hot Dip Galvanised)	8,570	--	SSFIT-001 REV 0	--
3	412420040000 - AP	HSFG BOLTS & NUTS M36X230 SSFIT-001 REV0 (Hot Dip Galvanised)	26,910	--	SSFIT-001 REV 0	--
4	412420050000 - AP	HSFG BOLTS & NUTS M36X240 SSFIT-001 REV0 (Hot Dip Galvanised)	7,460	--	SSFIT-001 REV 0	--
5	414200070000 - AP	PLAIN CHAMFERED WASHER M30 SSFIT-001 (Hot Dip Galvanised)	54,860	Reserved for MSE	SSFIT-001 REV 0	--
6	414200003600 - AP	PLAIN CHAMFERED WASHERM36 SSFIT-001 (Hot Dip Galvanised)	43,710	Reserved for MSE	SSFIT-001 REV 0	--
7	414200010000 - AP	DTI WASHER M20 8.8	2,000	Reserved for MSE	EN 14399_9	2-35-700- 59474 Rev 00
8	414200040000 - AP	DTI WASHER M24 10.9	9,00,000	Reserved for MSE	EN 14399_9	2-35-700- 59474 Rev 00
9	414200050000 - AP	DTI WASHER M30 10.9	60,000	Reserved for MSE	EN 14399_9	2-35-700- 59474 Rev 00
10	414200060000 - AP	DTI WASHER M36 10.9	50,000	Reserved for MSE	EN 14399_9	2-35-700- 59474 Rev 00
11	412420010000	HSFG BOLTS & NUTS M30X130 SSFIT-001 REV0 (Hot Dip Galvanised)	49,770	--	SSFIT-001 REV 0	--
12	412420020000	HSFG BOLTS & NUTS M30X140 SSFIT-001 REV0 (Hot Dip Galvanised)	11,430	--	SSFIT-001 REV 0	--
13	412420030000	HSFG BOLTS & NUTS M30X150 SSFIT-001 REV0 (Hot Dip Galvanised)	6,000	--	SSFIT-001 REV 0	--
14	412420040000	HSFG BOLTS & NUTS M36X230 SSFIT-001 REV0 (Hot Dip Galvanised)	23,090	--	SSFIT-001 REV 0	--



## SPECIAL TERMS AND CONDITIONS

Tender Enquiry No. 2425-052E Dated 07.11.2024 **Due date 18.11.2024**  
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Sl. no.	Material Code	Description	Quantity (Nos.)	MSE Reserved Items	TDC / Specifications	Drawing No.
15	412420050000	HSFG BOLTS & NUTS M36X240 SSFIT-001 REV0 (Hot Dip Galvanised)	17,540	--	SSFIT-001 REV 0	--
16	412420060000	HSFG BOLTS & NUTS M36X250 SSFIT-001 REV0 (Hot Dip Galvanised)	10,000	--	SSFIT-001 REV 0	--
17	412420070000	HSFG BOLTS & NUTS M36X260 SSFIT-001 REV0 (Hot Dip Galvanised)	6,000	--	SSFIT-001 REV 0	--
18	412420080000	HSFG BOLTS & NUTS M36X280 SSFIT-001 REV0 (Hot Dip Galvanised)	10,000	--	SSFIT-001 REV 0	--
19	414200070000	PLAIN CHAMFERED WASHER M30 SSFIT-001 (Hot Dip Galvanised)	1,25,140	Reserved for MSE	SSFIT-001 REV 0	--
20	414200003600	PLAIN CHAMFERED WASHERM36 SSFIT-001 (Hot Dip Galvanised)	1,36,290	Reserved for MSE	SSFIT-001 REV 0	--

**Table 2 : Technical information For Fit bolt sizes not available in document SSFIT-001 Rev.0**

Size	$l_{nom.}$	b	$y_{max.}$	$l_{g \max.}$ and $l_{s \min.}$	Remarks
M30	140 / 150	44	11.5	$l_{g \max.} = l_{nom.} - b$ $l_{s \min.} = l_{g \max.} - y_{max.}$	Refer Note-e, f of Table-1 of SSFIT-001 Rev.0
M36	230 / 240 / 250 / 260 / 280	52	13.0		

**Additional Information in reference to the Table 1 and 2 above:**

- A. Delivery Destination for all the items as mentioned in Table 1 is BHEL Trichy Stores.
- B. For items at Sr. no. 1 to 10: In material Code column of the above Table 1: 'AP' symbolizes the material belongs to Projects of Adani Power Projects. For these items, items at Sr. 1 to 10, Items to be procured from **Customer approved vendors only**.
- C. For all the items Except DTI Washers, items to be supplied as Hot Dip Galvanised. DTI stands for Direct Tension Indicator.
- D. Rust preventive oil coating is to be applied as follows: -
- SS FIT Bolts- For Hot dip Galvanized SS FIT Bolts, rust preventive oil is not applicable. However, if rethreading of nuts is being done after galvanising, then rust preventive oil on internal threads of nuts is required.
  - SS FIT Washers- For Hot dip Galvanized SS FIT washer, rust preventive oil is not applicable.



## SPECIAL TERMS AND CONDITIONS

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*3. DTI washer- Rust preventive oil is applicable*

*Wherever Applicable, this rust preventive oil coating to be done as per attached specification with document reference no. PR:CHEM:09-04 Rev 03 dated 01.04.2009.*

- E. Washers of All types i.e. Item at Sr. no. 5 to 10, 19 and 20 are **ARE RESERVED FOR MSE MANUFACTURERS ONLY. In case, no response is received from MSE bidder(s) for these items, then procurement will be made from Non-MSE bidder(s).***
- F. "1 number" of HSFG Quantity = 1 Bolt + 1 Nut.*
- G. Bolts, Nuts and Plain Chamfered Washers are to be supplied as per Specification document 'SSFIT-001 REV 0'.*
- H. DTI Washers are to be supplied as per EN 14399\_9 and Drawing no. 2-35-700-59474 Rev 00. Applicable Quality Plan for DTI Washers is SQP:DTI:001 dated 05.01.2024.*
- I. Applicable 'Standard Quality Plan' for HSFG Fit Bolts, Nuts and Washers is SQP: HSFG:01 Rev: 00 dated 28.09.2020.*
- J. Minimum 50% and 20% Local Content is required for qualifying as Class 1 and Class 2 Local Supplier respectively.**

## **S2. PRE-QUALIFICATION CRITERIA (POC)**

- a) Supplier shall be manufacturer of Fasteners. Offers from Traders/Dealers/Stockists/agents will be rejected. Submission of UDYAM Certificate or Declaration from bidder is required to fulfil this criterion.
- b) For Adani project items, i.e. Tender Enquiry Sr. no. 1 to 10, Bidders shall be registered / approved / enlisted with Customer Adani as on tender Part - 1 opening date. List of approved suppliers by the Adani Customer has been attached as Annexure – T. For the Bidders whose name is not appearing in the 'attached list of Approved vendors (Annexure- T)', they must submit the proof of registration / approval of supplier, in order to get qualify in the tender for these 10 items. Please note that purchase order copy from Adani customer shall not be considered as valid proof of registration / approval / enlistment. Decision for vendor approval by the BHEL will be binding on the bidder.  
For the remaining 10 Non-Adani items, i.e. Tender Enquiry Sr. no. 11 to 20, this Pre-Qualification criteria is NOT APPLICABLE.

**Note: Pre-Qualification criteria mentioned below i.e. at Sr. no. S2. (c) and (d) has been formed Group-wise. For each Group different values of Criteria has been mentioned.**

- c) Bidder should have minimum average turnover of Rs. [as mentioned in Table 3 below] over three financial years viz. FY 2021-22, 2022-23 and 2023-24. Turnover should be exclusive of GST/Taxes. To certify the same, bidder need to submit balance sheets of above stated three years. Balance sheets should be audited, as applicable. If the balance sheets are not audited, bidder need to submit CA certificate for the turnover. **Audited balance sheets/CA certificate with valid UDIN (Unique Document Identification Number) will only be considered in order of fulfill this criterion.**





## SPECIAL TERMS AND CONDITIONS

**Tender Enquiry No. 2425-052E** Dated 07.11.2024 **Due date 18.11.2024**  
**Tender Description:** Purchase of HSFG Fasteners, Plain Chamfered and DTI Washers

$$\text{Minimum Average Annual Financial Turnover} = \frac{FY1 + FY2 + FY3}{3}$$

**Start-ups shall be exempted** from the above pre-qualification criteria, without any relaxation in quality standards or technical parameters as per D.O. No. 5(4)/2016-BE-I dated 15.02.2017. For claiming Start-Up exemption, vendors have to submit DPIIT (Dept. of Promotion of Industry and Internal Trade)/DIPP (Department for Industrial Policy and Promotion) recognition certificates.)

**Table 3**

Group	Group Category	Tender Enquiry Sr. no.	Count of Items	Minimum Annual Turnover Required, Rs.	Avg. Turnover
A	Adani Project – Bolts & Nuts	1 to 4	4	6.30 Crores	
B	Adani Project – Washers	5 to 10	6	3.80 Crores	
C	Non – Adani Project – Bolts & Nuts	11 to 18	8	10.40 Crores	
D	Non – Adani Project – Washers	19 and 20	2	1.90 Crores	

If bidder is quoting for more than one Group, then minimum average annual turnover value of bidder should be sum of the values mentioned corresponding to each Group.

**Example 1:** Suppose one bidder is having the Average Annual Financial Turnover of Rs. 9 crores. Then bidder can quote for the Groups, where sum of values mentioned in ‘Minimum Avg. Annual Turnover Value’ is less than or equal to 9 Crores. For example: -

- for either of Groups as mentioned in A / B / D, as individually each Group requirement against T.O. criteria is less than Rs. 9 Crores.
- for Group B + D; Cumulative T.O. requirement reaches to Rs. 5.70 Crores,
- for Group A + D; Cumulative T.O. requirement reaches to Rs. 8.20 Crores, etc.

Same Bidder should not quote for the cases where the sum of values mentioned in ‘Minimum Avg. Annual Turnover Value’ crosses Rs. 9 Crores. For example: -

- for Group A + B; Cumulative T.O. requirement reaches to Rs. 10.10 Crores,
- for Group A + C; Cumulative T.O. requirement reaches to Rs. 16.70 Crores, etc.

- d) Bidder has to submit one or more purchase order/s of ‘similar item’ from any customer with minimum cumulative value of Rs. [as mentioned in Table 4 below] along with the proof of execution like Invoice / Consignee Receipt Note / Completion Certificate, from any customer(s). PO date should be 01.11.2021 or afterwards till bid opening date”. PO value mentioned above is exclusive of taxes. The details of the submitted POs along with its proof of execution must be filled as per attached Annexure - P. For quoting Fit Bolts and Nuts (Item Sr. no. 1 to 4 and 11 to 18), it is mandatory to submit atleast one PO copy of HSFG Fit Bolts or of Similar item of any value. Similarly, for DTI Washers (Item Sr. no. 7 to 10) it is mandatory to submit one PO of DTI washers or of Similar item of any value. PO date should be 01.11.2021 or afterwards till bid opening date”. **Also, please note that the proof of execution like Invoice / Consignee Receipt**



## SPECIAL TERMS AND CONDITIONS

**Tender Enquiry No. 2425-052E** Dated 07.11.2024 **Due date 18.11.2024**  
**Tender Description:** Purchase of HSFG Fasteners, Plain Chamfered and DTI Washers

**Note / Completion Certificate must include the Purchase Order reference number, otherwise that PO will not be considered for the fulfilment of this tender term.**

**Table 4**

Group	Group Category	Tender Enquiry Sr. no.	Count of Items	Minimum cumulative value of PO, Rs.
A	Adani Project – Bolts & Nuts	1 to 4	4	0.50 Crores
B	Adani Project – Washers	5 to 10	6	0.25 Crores
C	Non – Adani Project – Bolts & Nuts	11 to 18	8	0.80 Crores
D	Non – Adani Project – Washers	19 and 20	2	0.10 Crores

“Similar item” has been defined as “Bolts, Nuts or Washers as per standard as per below table 5:-

**Table 5**

S. No.	Item	Standard	Equivalent
1	Bolt	Grade 8.8 or above as per: IS-1364 (Latest) part-1; IS-1367 (Latest) part-3; IS-3757 (Latest)	EN 14399-3 (Latest) Property Class: 8.8 or above; EN ISO 898-1 for Mechanical Properties Or equivalent ISO standard
2	Nut	Grade 8 or above as per: IS-6623 (Latest) IS-1364 (Latest)	EN 14399-3 (Latest) Property Class: 8 or above; Or equivalent ISO standard
3	Washer	Grade 8 or above as per: IS-6649 (Latest)	EN 14399-5 (Latest) Or equivalent ISO standard
4	Fit Bolt	--	EN 14399-8 (Latest) Or equivalent ISO standard
5	DTI Washer	--	EN 14399-9 (Latest) Or equivalent ISO standard

If bidder is quoting for more than one Group, then minimum Cumulative Value of PO along with corresponding value of proof of execution like invoice, etc., will be sum of the values mentioned corresponding to each Group.

Start-ups shall be exempted from this criterion of Purchase order and invoice submission without **Start-ups shall be exempted** from the above pre-qualification criteria, without any relaxation in quality standards or technical parameters as per D.O. No. 5(4)/2016-BE-I dated 15.02.2017. For claiming Start-Up exemption, vendors have to submit DPIIT (Dept. of Promotion of Industry and Internal Trade)/DIPP (Department for Industrial Policy and Promotion) recognition certificates.)

**Example 2: (In continuation to the Example 1)** Suppose one bidder is having the Average Annual Financial Turnover of Rs. 9 crores and submitted the Purchase Orders of cumulative value of Rs. 0.55 Crores, then although financially he is eligible to quote for Groups A and D, but due to submitted PO value constraint, he is eligible for only one Group A or D.



## SPECIAL TERMS AND CONDITIONS

Tender Enquiry No. 2425-052E Dated 07.11.2024 **Due date 18.11.2024**

**Tender Description:** Purchase of HSFG Fasteners, Plain Chamfered and DTI Washers

BHEL may carry out evaluation of bidder's capability. BHEL reserves the right to accept/reject any offer based on evaluation of bidder's capability. For verification of data presented for pre-qualification bid, BHEL may decide to visit the bidder(s) works. Any fact found deviating from bids during evaluation shall make the bidder liable to be dis-qualified.

### S3. PART-I: TECHNO-COMMERCIAL BID

**Techno - Commercial Bid should contain all the documents/confirmations as per following details:**

- a) Acceptance of Techno-Commercial terms and conditions shall be attached along with bid document. This can be attached either by signing each page of terms and conditions or a confirmation statement.

*IF THE OFFER IS NOT ACCOMPANIED WITH ACCEPTANCE OF TERMS AND CONDITIONS, IT SHALL BE CONCLUDED THAT ALL THE TERMS AND CONDITIONS ARE ACCEPTABLE AND NO CLAIM WHATSOEVER SHALL BE ENTERTAINED LATER ON.*

*IF THERE IS ANY DEVIATION IN REFERENCE TO ANY OF THE TENDER TERM, KINDLY MENTION IN PART-I TECHNO-COMMERCIAL BID ONLY. DEVIATION SPECIFIED ELSEWHERE, WILL NOT BE CONSIDERED.*

- b) MSE vendors should submit **UDYAM Registration Certificate** for availing applicable benefits for MSE vendors as per tender terms. Validity of document shall be considered as on date of Part I opening as per the latest available notification from Government.
- c) Documents as per pre-qualification terms.
- Balance sheets / CA certificate.
  - PO copies along with the proof of execution.
- d) Duly filled Annexure - P (Details of Submitted PO and their Proof of Execution, as per above stated PQC term at Sr. no. S2. d))
- e) Duly filled Annexure - Q (Confirmations of Special terms)
- f) Duly Filled Annexure - R (Integrity Pact)

### S4. DELIVERY SCHEDULE

Total Delivery Period from date of Purchase Order/ Letter of Intent shall be 75 DAYS for Washers and 100 DAYS for Bolts and Nuts with staggered Delivery as per table 6 and 7 below.

**Table 6 : Delivery Period for Bolts and Nuts**

Enq. Item Sr. no.	PO Quantity	Delivery Period
1 to 4 and 11 to 18 (12 items)	First 50%	Within 70 days from the date of Release of PO / LOI
	Balance 50%	In Next 30 days i.e. till 100 days from the date of Release of PO / LOI



## SPECIAL TERMS AND CONDITIONS

**Tender Enquiry No. 2425-052E** Dated 07.11.2024 **Due date 18.11.2024**  
**Tender Description:** Purchase of HSFG Fasteners, Plain Chamfered and DTI Washers

**Table 7 : Delivery Period for Washers**

Enq. Item Sr. no.	PO Quantity	Delivery Period
5 to 10, 19 and 20 (8 items)	First 50%	Within 50 days from the date of Release of PO / LOI
	Balance 50%	In Next 25 days i.e. till 75 days from the date of Release of PO / LOI

In case of non-acceptance of this term, bid shall be liable for rejection.

*In case of special requirements, BHEL may ask vendor/s to supply with lesser delivery schedule, which shall be mentioned in the purchase orders. In such cases, delivery extension may be given to vendor for equal load in other pending purchase orders.*

### **S5. DELIVERY DESTINATION and SCOPE OF UNLOADING**

Delivery Destination is BHEL Trichy, the material is to be supplied at following address:

Manager / Stores – 11  
Fossil Boilers, BHEL  
Boiler Plant Project P.O.  
Tiruchirapalli - 620 014.  
Tamilnadu, India.

**Unloading** of Material at BHEL Trichy Stores is in the Scope of BHEL.

### **S6. VALIDITY OF OFFERS**

The offers shall be kept valid for 75 days from the actual date of techno-commercial (Part-I) bid opening.

### **S7. PRICE BASIS**

- Rates shall be quoted on rate INR per Unit basis, Net of taxes & on FOR BHEL Trichy Basis. Comparison shall be made on landed rate per Unit. Evaluation shall be done line item wise as per above Table -1.
- Order of enquiry item Sl. no. shall be maintained in the quotation.

### **S8. REVERSE AUCTION**

Reverse auction will be conducted in this tender enquiry.

### **S9. DIFFERENTIAL FREIGHT CLAUSE**

The rates finalized against each schedule shall include cost of transporting finished products from Vendor's Works to delivery location specified in the tender.



## SPECIAL TERMS AND CONDITIONS

**Tender Enquiry No. 2425-052E** Dated 07.11.2024 **Due date 18.11.2024**  
**Tender Description:** Purchase of HSFG Fasteners, Plain Chamfered and DTI Washers

All the consignments are normally envisaged for dispatch from Vendor's Works to specified location in the tender. However, depending upon requirement, BHEL may ask the vendor to despatch the consignments to different project sites/BHEL units or other location within India and vendor shall deliver the material at this revised destination. BHEL's decision shall be final in this regard. In such case, differential freight charges shall be deducted or paid based on applicable distance. BHEL reserves the right to change the delivery destination in already released POs on vendor or before releasing new PO.

### Differential Rates will be calculated as below:

If BHEL advises to despatch material at any other location, then BHEL will calculate freight portion from vendor works to Location specified in tender (say it comes out amount 'X') and from vendor works to New location specified by BHEL (say it comes out amount 'Y'). Then differential freight cost will be calculated by subtracting both freight cost (Y-X). If it comes out to be positive, then this differential cost shall be given extra to vendor. If it comes out to be negative, then this differential amount shall be deducted from vendor. Kindly note that this extra payment to vendor/deduction from vendor shall be amended suitable in Purchase order before despatch.

For Calculation of Transportation freight, BHEL has mentioned Rate/KM/MT in INR from anywhere to anywhere in India. For calculating total cost, this needs to be multiplied by distance in KM & weight in MT.

**Rate/KM/MT from anywhere to anywhere is mentioned below:**

Table 8

Relevant category	Freight Rate per MT per KM	Remarks
TAAA2	3.30	Anywhere to anywhere in India

Distance shall be taken in KM as shortest distance from Google map.

**Example:** Suppose one vendor is located in Ludhiana (Punjab). Distance from Ludhiana to BHEL Goindwal is approx. 110 KM & distance from Ludhiana to Talcher site is approx. 1700 KM. The specified destination in tender is Talcher and the new location specified for delivery of material is Goindwal. Suppose weight of consignment is 60 MT

Then freight from Ludhiana to Goindwal (Y) comes out to be Rs.  $3.30 \times 110 \times 60 = \text{Rs. } 21,780.00$ . The freight from Ludhiana to Talcher (X) comes out to be Rs.  $3.30 \times 1700 \times 60 = \text{Rs. } 3,36,600.00$ . Now differential cost (Y-X) comes out to be Rs.  $(-)\text{Rs. } 3,14,820.00$ . Hence this differential amount will be deducted from vendor.

## S10. VENDOR REGISTRATION

Bidders, who are not currently on registered list of BHEL IVP Goindwal Sahib, are advised to submit their application for vendor registration through online system on [www.bhel.com](http://www.bhel.com). Direct link for online supplier registration is <https://supplier.bhel.in/>. This application submission can be done separately/immediately without waiting for the tender opening.



## SPECIAL TERMS AND CONDITIONS

**Tender Enquiry No. 2425-052E** Dated 07.11.2024 **Due date 18.11.2024**  
**Tender Description:** Purchase of HSFG Fasteners, Plain Chamfered and DTI Washers

### **S11. INSPECTION**

Bidders will submit TPI (Third party inspection) / BHEL Inspection report to BHEL IVP after inspection. Then based on Inspection report, BHEL will give dispatch clearance and then only the material shall be supplied to the respective consignee address.

BHEL will provide dispatch clearance **within 5 working days** of receipt of complete quality cleared documents.

### **S12. QUANTITY VARIATION**

+/- 2% Variation in the quantity is applicable for all the items.

### **S13. PACKING OF MATERIAL**

- Items shall be packed in Polythene lined Hessian Cloth/Bag not exceeding 25kgs and shall be put inside wooden boxes with maximum weight of 3 MT for each box & there shall be no mixing of two or more sizes in single box.
- Bidder shall ensure that wooden boxes are sturdy and it is able to withstand material load without any breakage/damage during transportation and loading / unloading.
- Wooden box shall have provision for putting nylon slings so that box can be lifted by overhead cranes.
- Wooden Boxes shall be sealed by minimum two numbers of M.S. strap of 19 mm width.
- Following information must be legibly available on each wooden box: -
  - Supplier name / vendor code
  - Item description
  - Invoice no. / Date of Invoice
  - Number of Bags
  - Total Quantity of item
  - For Adani Power Limited Order, word "APL" shall be mentioned on the box with Red Paint.

### **S14. LOADING CRITERIA CUM COUNTER OFFER**

Loading shall be done as per following criteria subject to fulfilment of MSE clause:

**Table 9**

Tender Enquiry Sr. no.	Counter offer Case	Count of Items
2, 5, 6, 7, 9, 10, 13, 19 and 20	Case – I	9
1, 4, 8, 12, 15, 16, 17 and 18	Case – II	8
3, 11 and 14	Case – III	3

**Case - I:** For Nine (09) Items, as shown in table - 9 above: 100% loading will be done on L1 bidder. However, counter-offer will be given to eligible vendors, if MSE clause is not fulfilled.

**Case -II:** For Eight (08) Items, as shown in table - 9 above, Contract will be entered with maximum two vendors for these items to meet BHEL requirements. However, number of vendors can be increased, if MSE clause is not





## SPECIAL TERMS AND CONDITIONS

**Tender Enquiry No. 2425-052E** Dated 07.11.2024 **Due date 18.11.2024**  
**Tender Description:** Purchase of HSFG Fasteners, Plain Chamfered and DTI Washers

fulfilled amongst two vendors. For this, BHEL reserves the right to give counter offer of L1 rates to L2 vendor. Loading shall be done on vendor as per below mentioned criteria, subject to acceptance of counter offered L1 rates:

Vendor	L1	L2
% Loading	60%	40%

If L2 does not accept the counter offer for any particular any item/items, entire 100% quantity shall be loaded upon L1 bidder.

**Case-III:** For Three (03) Items, as shown in table - 9 above, Contract will be entered with maximum three vendors for these items to meet BHEL requirements. However, number of vendors can be increased, if MSE clause is not fulfilled amongst three vendors. For this, BHEL reserves the right to give counter offer of L1 rates to L2 and L3 vendors, except highest bidder. Loading shall be done on vendor as per below mentioned criteria, subject to acceptance of counter offered L1 rates:

Vendor	L1	L2	L3
% Loading	50%	30%	20%

Based on acceptance of counter offer rates from L2 and L3 vendors: -

- In case out of L2 and L3 vendor, only one vendor accepts the counter offer rates, then loading ratio applicable will be 60%:40%.
- If no one accepts the counter offer for any particular any item/items, entire 100% quantity shall be loaded upon L1 vendor.

Note: The above criteria mentioned in cases I, II and III is subject to fulfilment of MSE clause. In case loading on vendors is not meeting the MSE clause, then equal deduction will be done from the non-MSE vendors, to meet the MSE Purchase preference criteria [refer Clause no. 26 of General Contract Conditions of the tender].

### **S15. INTEGRITY PACT (IP)**

- a) IP is a tool to ensure that activities and transactions between the Company and its Bidders/ Contractors are handled in a fair, transparent and corruption free manner. Following independent External Monitors (IEMs) on the present panel have been appointed by BHEL with the approval of CVC to oversee implementation of IP in BHEL.

Sl. no.	IEM	Email ID
1.	Shri Otem Dai, IAS (Retd.)	iem1@bhel.in
2.	Shri Bishwamitra Pandey, IRAS (Retd.)	iem2@bhel.in
3.	Shri Mukesh Mittal, IRS (Retd.)	iem3@bhel.in

- b) The IP as enclosed with the tender (Annexure – R) is to be submitted (duly signed by authorized signatory) along with techno-commercial bid (Part-I, in case of two / three-part bid). Only those bidders who have entered into such an IP with BHEL would be competent to participate in the bidding. In other words, entering into this Pact would be a preliminary qualification.



## SPECIAL TERMS AND CONDITIONS

**Tender Enquiry No. 2425-052E** Dated 07.11.2024 **Due date 18.11.2024**

**Tender Description:** Purchase of HSFG Fasteners, Plain Chamfered and DTI Washers

- c) Please refer Section-8 of IP for Role and Responsibilities of IEMs. In case of any complaint arising out of the tendering process, the matter may be referred to any of the above IEM(s). All correspondence will the IEMs shall be done through email only.

**Note:**

*No routine correspondence shall be addressed to the IEM (phone / post / email) regarding the clarifications, time extensions or any other administrative queries, etc. on the tender issued. All such clarification / issues shall be addressed directly to the tender issuing (procurement) department's official whose contact details are provided below:*

Details of contact person(s):

<b>Name</b>	Rajesh Kumar	Pranshu
<b>Department</b>	Material Management	Material Management
<b>Address</b>	433, Industrial Complex, IVP Goindwal, Dist. Tarn Taran Punjab 143422	433, Industrial Complex, IVP Goindwal, Dist. Tarn Taran Punjab 143422
<b>Phone: (Landline / Mobile)</b>	01859-224618 / 9888772318	01859-224619 / 9464679705
<b>Email</b>	<a href="mailto:kumarrajesh@bhel.in">kumarrajesh@bhel.in</a>	<a href="mailto:pranshu@bhel.in">pranshu@bhel.in</a>

### **S16. LIQUIDATION DAMAGES (LD)**

LR Acknowledgement date at BHEL Units / Sites / other delivery destinations shall be taken as basis for LD calculations. This term will supersede the Clause no. 12 (f) of General Contract conditions (GCC)

### **S17. PERFORMANCE SECURITY (PS)**

*This term will supersede the Clause no. 4 of GCC*

Applicability:

- 1) Performance Security will not be applicable in which total PO value on vendor in one tender enquiry is less than or equal to Rupees one lakh.
- 2) **In case total PO value on vendor in one tender enquiry is greater than Rs. 1 Lakh:** Successful bidder (L1 or counter-offer accepted) has to submit Performance Security (PS) @5% of PO value, **subject to maximum value of Rs. 2 Lakh**, within 21 days from the date of award of PO. PS shall be valid for a period of one year. This PS will be released to the vendor without interest after two months beyond the completion of all supplies under the PO.

Before the release of this PS, vendor has to submit another PS @1% of PO value or Rs. 3000.00 whichever is higher after two months beyond the completion of all supplies under the PO. This PS shall be valid for a period of 18 months. This additional PS will be released to the vendor without interest after expiry of validity upon fulfilment of contractual obligations as per terms of contract.

Vendor has to submit written request to BHEL for refund of PS well in advance before the due date.

In case of non-submission of PS for 5% of contract value, it will amount to breach of contract.

**Mode of deposit:**

Performance security may be furnished in the following forms:



## SPECIAL TERMS AND CONDITIONS

**Tender Enquiry No. 2425-052E** Dated 07.11.2024 **Due date 18.11.2024**

**Tender Description:** Purchase of HSFG Fasteners, Plain Chamfered and DTI Washers

- 1) Local cheques of Scheduled Banks (subject to realization)/ Pay Order/ Demand Draft/ Electronic Fund Transfer in favour of BHEL.

*BHEL IVP Goindwal Bank Details for Reference: -*

*Beneficiary Name:* BHARAT HEAVY ELECTRICALS LIMITED

*Beneficiary Account no.:* 40179740806

*Bank Name:* STATE BANK OF INDIA

*Branch Name:* GOINDWAL SAHIB

*IFSC Code:* SBIN0010743

- 2) Bank Guarantee from Scheduled Banks / Public Financial Institutions as defined in the Companies Act. The Bank Guarantee format should have the approval of BHEL.
- 3) Fixed Deposit Receipt issued by Scheduled Banks / Public Financial Institutions as defined in the Companies Act (FDR should be in the name of the Contractor, a/c BHEL).
- 4) Securities available from Indian Post offices such as National Savings Certificates, Kisan Vikas Patras etc. (held in the name of Contractor furnishing the security and duly endorsed/ hypothecated/ pledged, as applicable, in favour of BHEL).
- 5) Insurance Surety Bond.
- 6) By way of retention from dues available in the form of Bills payable to the supplier against same / other contracts in the same unit.

(Note: BHEL will not be liable or responsible in any manner for the collection of interest or renewal of the documents or in any other matter connected therewith).

### **Forfeiture of Performance Security:**

The performance security will be forfeited and credited to BHEL's account in the event of a breach of contract by the supplier.

**These Special terms & conditions and General Contract Conditions (GCC) collectively are the part of tender terms and conditions.**



## General Conditions of Contract (GCC) of MM Tenders

**BHARAT HEAVY ELECTRICALS LIMITED**

Industrial Valve Plant: 433, Industrial Complex,  
Goindwal Sahib, Dist. Tarn Taran,  
Punjab-143422 (INDIA)

### TABLE OF CONTENTS

1. Instruction to Bidder .....	2
2. Scope of Supply .....	2
3. Price Basis.....	3
4. Performance Security (PS).....	3
5. Breach of contract, Remedies and Termination.....	4
6. Evaluation in Case of More Than One L-1 Bidder.....	4
7. Reverse Auction.....	4
8. Conflict of Interest among Bidders / Agents .....	5
9. Validity of Offers.....	5
10. Supplied Material Adjustment.....	5
11. Delivery Schedule.....	6
12. Liquidated Damaged (LD).....	6
13. Acceptance of Material Supplied.....	6
14. Payment Terms .....	7
15. Taxes & Duties .....	7
16. Liability Under Reverse Charge (RCM).....	8
17. Access to Manufacturing Premises.....	8
18. Inspection.....	8
19. Warrantee and Corresponding Repair / Replacement of Goods.....	9
20. LOI (Letter of Intent).....	10
21. Sub-Contract .....	10
22. Discrepancy in Words and Figures .....	10
23. Force Majeure .....	10
24. Non-Disclosure Agreement .....	11
25. Clarifications.....	11
26. Preferences for Micro and Small Enterprises (MSEs).....	11
27. Preference to Make in India.....	12
28. Restrictions Under Rule 144(XI) of The General Financial Rules (GFR), 2017 .....	12
29. Resolution of Disputes.....	14
30. Fraud Prevention Policy.....	15
31. Preventive Checks to Eliminate Suspected Cartel Formation .....	15
32. Suspension of Business Dealings with Suppliers / Contractors .....	16
33. General.....	16
Annexure-X.....	19
Appendix-I of Annexure-X.....	25
Appendix-II of Annexure-X .....	26
Appendix-III of Annexure-X .....	27

Signature Not Verified

Signed By: AMAN SHARMA

Location: BHEL, Goindwal

Signing Date: 04.12.2023





## General Conditions of Contract (GCC) of MM Tenders

**BHARAT HEAVY ELECTRICALS LIMITED**

Industrial Valve Plant: 433, Industrial Complex,  
Goindwal Sahib, Dist. Tarn Taran,  
Punjab-143422 (INDIA)

### 1. Instruction to Bidder

Quotations shall be submitted before due date and time. Late offers are liable to be rejected, so please ensure to submit bid well within due date and time. Techno-commercial part will be opened on due date.

**Based on evaluation of techno-commercial offers, Price bids of bidders who qualify from techno-commercial evaluation shall be opened. BHEL may decide to open the Price bid same day at 1700 hrs. If not opened on the same day, all qualifying bidders shall be notified for date of opening of Price bids by email/fax/post/courier/E-procurement system generated email.**

#### 1.1 Instruction to Bidder (In case of Non-E-Procurement / Paper/ Manual/ Hard Copy based tenders)

Sealed Tenders can be dropped in the tender box labeled as 'Tender box for MM contracts.' This tender box is located at the entrance of Admin block BHEL Goindwal. Quotations can also be submitted through e-mail at **tendermm\_ivp@bhel.in**. Offers received in time shall be considered only when offers are complete in all respects. In case of bulky tenders, please handover quotation to tender issuing authority [Contact: 01859 224 615 / 628]. Bid can be sent to following address:

**BHEL, Industrial Valve Plant,  
#433, Industrial Complex,  
Goindwal Sahib, Distt. Tarn Taran,  
Punjab-143422.**

#### 1.2 Instruction to bidder (In case of E-Procurement)

1. Interested bidders / suppliers shall submit their offer through e-procurement mode at <https://eprocurebhel.co.in/>.
2. **Offers in any other mode will not be accepted.**
3. Procedure for submission of tender is available in the "Bidder Manual Kit" at e-tender portal <https://eprocurebhel.co.in/>.
4. In case of any difficulty faced while registering on BHEL's e-Procurement portal developed by NIC, queries may be addressed to 0120-4001002, 0120-4001005 and 0120-6277787; email: [support-eproc@nic.in](mailto:support-eproc@nic.in). These details are also available on 'Contact Us' page of the portal.
5. 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.
6. **Disclaimer clause:** Neither the Organization (Bharat Heavy Electricals Ltd.) nor the service provider is responsible for any failure of submission of bids due to failure of internet or other connectivity problems or reasons thereof.

### 2. Scope of Supply

Material shall be supplied as per the applicable latest Technical Delivery Conditions (TDC)/ Material Standard requirements/BPS/Drawing and other requirement as given in the Tender Enquiry. National & International material Standards shall have to be arranged by vendors themselves. Latest applicable revisions of standards/procedures to be referred.

Signature Not Verified

Signed By: AMAN SHARMA

Location: BHEL Goindwal

Signing Date: 04.12.2023





## General Conditions of Contract (GCC) of MM Tenders

**BHARAT HEAVY ELECTRICALS LIMITED**

Industrial Valve Plant: 433, Industrial Complex,  
Goindwal Sahib, Dist. Tarn Taran,  
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All required tests as called in referred material standard/BHEL/TDC/drawing etc. shall be carried out by vendor at no extra cost. Material Test Certificates (MTC), inspection reports and Compliance/Guarantee Certificate are to be provided along with the supplies.

### 3. Price Basis

1. Order of enquiry item sl. no. shall be maintained in the quotation.
2. The rates quoted shall be firm and fixed. No price variation is proposed and allowed.
3. Rates quoted should be FOR BHEL Goindwal basis. The offers quoted on other than FOR Goindwal basis are liable to be rejected.

In case bidder has quoted Ex-works prices, then he/she will be given an opportunity to accept price basis as FOR Goindwal either by accepting delivery as FOR Goindwal in same quoted price or by providing loading factor on his/her quoted ex-works prices to make them FOR prices.

**Variation in GST or any other statutory levies during contractual delivery period shall be to BHEL's account.**

### 4. Performance Security (PS)

Applicability:

- 1) Performance Security will not be applicable in which total PO value on vendor in one tender enquiry is less than or equal to Rupees one lakh.
- 2) **In case total PO value on vendor in one tender enquiry is greater than Rs. 1 Lakh:**  
Successful bidder (L1 or counter-offer accepted) has to submit Performance Security (PS) @5% of PO value within 21 days from the date of award of PO. PS shall be valid for a period of one year. This PS will be released to the vendor without interest after two months beyond the completion of all supplies under the PO.  
Before the release of this PS, vendor has to submit another PS @1% of PO value or Rs. 3000.00 whichever is higher after two months beyond the completion of all supplies under the PO. This PS shall be valid for a period of 18 months. This additional PS will be released to the vendor without interest after expiry of validity upon fulfilment of contractual obligations as per terms of contract.

Vendor has to submit written request to BHEL for refund of PS well in advance before the due date.

In case of non-submission of PS for 5% of contract value, it will amount to breach of contract.

#### Mode of deposit:

Performance security may be furnished in the following forms:

- 1) Local cheques of Scheduled Banks (subject to realization)/ Pay Order/ Demand Draft/ Electronic Fund Transfer in favour of BHEL.
- 2) Bank Guarantee from Scheduled Banks / Public Financial Institutions as defined in the Companies Act. The Bank Guarantee format should have the approval of BHEL.
- 3) Fixed Deposit Receipt issued by Scheduled Banks / Public Financial Institutions as defined in the Companies Act (FDR should be in the name of the Contractor, a/c BHEL).

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## General Conditions of Contract (GCC) of MM Tenders

**BHARAT HEAVY ELECTRICALS LIMITED**

Industrial Valve Plant: 433, Industrial Complex,  
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- 4) Securities available from Indian Post offices such as National Savings Certificates, Kisan Vikas Patras etc. (held in the name of Contractor furnishing the security and duly endorsed/hypothecated/ pledged, as applicable, in favour of BHEL).
- 5) Insurance Surety Bond.
- 6) By way of retention from dues available in the form of Bills payable to the supplier against same / other contracts in the same unit.

(Note: BHEL will not be liable or responsible in any manner for the collection of interest or renewal of the documents or in any other matter connected therewith).

### **Forfeiture of Performance Security:**

The performance security will be forfeited and credited to BHEL's account in the event of a breach of contract by the supplier.

### **5. Breach of contract, Remedies and Termination**

In case of breach of contract, wherever the value of security instruments like performance bank guarantee available with BHEL against the said contract is 10% of the contract value or more, such security instruments to the extent of 10% contract value will be encashed. In case the value of the security instruments available is less than 10% of the contract value, the balance amount be recovered in all or any of the following manners:

- from dues available in the form of Bills payable to defaulted supplier against the same contract.
- from the dues payable to defaulted supplier against other contracts in the same Region/Unit /any other region/unit.
- In-case recoveries are not possible with any of the above available options, Legal action shall be initiated for recovery against defaulted supplier.

Further, levy of liquidated damages, debarment, termination, de-scoping, short-closure, etc., shall be applied as per provisions of the contract.

### **6. Evaluation in Case of More Than One L-1 Bidder**

In the course of evaluation, if more than one bidder happens to occupy L1 status, effective L1 will be decided by soliciting discounts from the respective L1 bidders.

In case more than one bidder happens to occupy the L1 status even after soliciting discounts, the L1 bidder shall be decided by a toss / draw of lots, in the presence of the respective L1 bidder(s) or their representative(s).

Ranking will be done accordingly. BHEL's decision in such situations shall be final and binding.

### **7. Reverse Auction**

In case, it is declared in special terms & conditions of tender enquiry that RA is applicable for the NIT, then RA will be conducted as per following clause:

BHEL shall be resorting to Reverse Auction (RA) (Guidelines as available on <https://www.bhel.com/>) for this tender. RA shall be conducted among the techno-commercially qualified bidders as per RA guidelines.

Price bids of all techno-commercially qualified bidders shall be opened and same shall be considered.

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Signed By: AMAN SHARMA  
Location: BHEL Goindwal  
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## General Conditions of Contract (GCC) of MM Tenders

**BHARAT HEAVY ELECTRICALS LIMITED**

Industrial Valve Plant: 433, Industrial Complex,  
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for RA. In case any bidder(s) do(es) not participate in online Reverse Auction, their sealed envelope price bid along with applicable loading, if any, shall be considered for ranking.

### 8. Conflict of Interest among Bidders / Agents

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:

- a) they have controlling partner (s) in common; **or**
- b) they receive or have received any direct or indirect subsidy/ financial stake from any of them; **or**
- c) they have the same legal representative/agent for purposes of this bid; **or**
- d) they have relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the bid of another Bidder; **or**
- 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. However, this does not limit the inclusion of the components/ sub-assembly/ Assemblies from one bidding manufacturer in more than one bid. **or**
- 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:
  1. The principal manufacturer directly or through one Indian agent on his behalf; and
  2. Indian/foreign agent on behalf of only one principal.**or**
- 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**
- 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.

### 9. Validity of Offers

The offers shall be kept open for acceptance 'for number of days mentioned in special terms and conditions' from the date of opening of the tender. In case of tender extension, the bid validity shall be considered from the date of tender opening.

### 10. Supplied Material Adjustment

Item/s pending in previous PO has to be billed in previous PO only. Otherwise, BHEL will be free to adjust the supplies in previous PO. Any implication of tax will be on supplier's account. For this it is desirable that vendor should reconcile the pending PO statement every month/frequently with BHEL. Vendor can also view these details at Portal (<https://trichy.bhel.com/mm/index.jsp>).

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## 11. Delivery Schedule

Supplies shall be affected and completed as per schedule mentioned in special terms and conditions. Commencement of delivery period shall be reckoned from the date of PO / LOI or any other agreed milestone.

## 12. Liquidated Damaged (LD)

- Time is the essence of the contract.
- The ordered items shall be delivered as per the delivery period mentioned in the Purchase Order.
- In case the supplier supplies the ordered items beyond the delivery period specified, Liquidated Damages -LD - as detailed below shall be levied from the supplier without prejudice to any other relief /compensation available to BHEL, Punjab under any other condition of the contract/applicable legal provisions.
- Failure to dispatch the materials in the time as per the delivery mentioned in our Purchase Order (PO) would make the supplier liable to an un-conditional LD at the rate of 0.5% of the undelivered order value per week of the delay or part thereof subject to a maximum of 10% of the undelivered order value.
- Any deviation from the above LD clause, loading will be applied to the extent to which it is not agreed by the bidder (at offered value).
- Indigenous: In case of Ex-works delivery terms, the document date (Invoice/Challan date) in Goods Receipt (GR) document shall be reckoned for LD deduction. In case of FOR Delivery terms, the posting date in GR document shall be reckoned for LD deduction.
- Import: For CFR terms, BL date will be considered for LD calculation.

BHEL reserves the right to receive or not receive the material after the due date of PO. Applicable GST shall also be recovered from suppliers/contractors on LD amount. For this Debit note will be issued by BHEL indicating the respective supply invoice number.

## 13. Acceptance of Material Supplied

- The supply shall strictly as per the specifications in the tender /purchase order.
- Delivery of the ordered items as per the delivery terms in the Purchase Order does not automatically constitute acceptance of the delivered items.
- Acceptance of the materials supplied will be based on the inspection and certification documents by the supplier as stipulated in the Purchase order. However, BHEL reserves the right to test the material supplied, if required, at BHEL Lab or any other approved/accredited lab and the result will be binding on the supplier.
- The acceptance or otherwise of the delivered items will be separately communicated to the supplier by BHEL through B2B portal within 15 days from the delivery of items or delivery of the required test certificates /other documents whichever is later.
- In case of rejection of the delivered items, either part or full, the vendor shall replace the rejected items as per the specification in the Purchase order/tender at their cost within 30 days of communication of rejection to the supplier. The supplier shall be given maximum two opportunities to replace the rejected items.
- After the clearance of the 1st lot, in case of rejection of the delivered items, either part or full, if the supplier fails to replace the rejected items within 30 days of communication of the rejection, the same shall be treated as failure to execute the contract and actions as per the Guidelines for

Signature Not Verified

Signed By: AMAN SHARMA  
Location: BHEL Goindwal  
Signing Date: 04.12.2023





## General Conditions of Contract (GCC) of MM Tenders

**BHARAT HEAVY ELECTRICALS LIMITED**

Industrial Valve Plant: 433, Industrial Complex,  
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Suspension of Business Dealings with Suppliers /Contractors available in the webpage:  
<https://www.bhel.com> would be taken against such supplier.

### 14. Payment Terms

1. Payments shall be made to the Seller within the mentioned days (as per below table) from the date of receipt and acceptance of material.

Type of Bidder	Payment Terms (Number of days)
Micro & Small Enterprises (MSEs)	45 days
Medium Enterprises	60 days
Non MSME	90 days

To be considered as Micro, Small or Medium enterprise, bidder must be manufacturer of offer product and relevant valid certificate as per latest MSME guidelines is to be submitted along with bid.

**MSME bidders can avail benefits of payment through TReDS (Trade Receivable e Discounting System).**

In case of any deviation from standard payment term mentioned above, BHEL shall load on the item price at 'Base rate of SBI (as applicable on the date of bid opening; Techno-commercial bid opening) + 6% for the period of relaxation sought by bidders.

2. Documents to be submitted (if applicable)
  - i) Tax invoice (Invoice shall be GST compliant and should contains all the required information such as GST No, HSN code etc.)
  - ii) Transporter copy along with material/consignment.
  - iii) Material Test Certificates (MTC) and
  - iv) Compliance Certificate.
3. GST registration number is to be submitted by qualified vendor as per GST law.
4. It is mandatory to mention proper material codes in the invoices and separate invoices to be raised for different POs.
5. **BHEL releases payment through EFT mode ONLY. Necessary details may please be submitted by filling required format before release of payment.**

### 15. Taxes & Duties

Payment of GST portion will be released to vendor only upon completion of statutory requirement and further subject to following:

- a) Vendor declaring such invoice in his GSTR-1 and
- b) Receipt of goods and Tax invoice by BHEL and
- c) Confirmation of payment of GST thereon by vendor on GSTN portal.
- d) Above is subject to receipt of goods/service and tax invoice thereof along with vendor declaring invoice in his return and paying GST within timeline prescribed for availing ITC by BHEL.

Following may please be noted for availing Input Tax Credit (ITC) by BHEL:

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Signed By: AMAN SHARMA  
Location: BHEL Goindwal  
Signing Date: 04.12.2023





## General Conditions of Contract (GCC) of MM Tenders

### BHARAT HEAVY ELECTRICALS LIMITED

Industrial Valve Plant: 433, Industrial Complex,  
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1. Since ITC can be availed only when BHEL is in possession of GST Tax invoice and after receipt of goods. Thus, vendor to ensure timely dispatch of goods and Tax invoice. It may be noted that in case of any delay in receipt of Tax Invoice and/or receipt of goods, the ITC availment by BHEL will get delayed thus entailing additional cash outflow & may even get denied if ITC availment timelines are breached.
2. Further ITC can be availed only when vendor has declared such invoice in his outward supply Return GSTR-1 and after GST thereon has been paid by him at the time of filing of monthly Return.
3. If GST credit is delayed/denied to BHEL due to non/delayed receipt of goods and/or tax invoice or expiry of timeline prescribed in GST law for availing such ITC, or any other reasons not attributable to BHEL, GST amount shall be recoverable from vendor along with interest levied/leviable on BHEL.
4. Further, in case vendor delays declaring such invoice in his return and GST credit availed by BHEL is denied or reversed subsequently as per GST law, GST amount paid by BHEL towards such ITC reversal as per GST law shall be recoverable from vendor/contractor along with interest levied/leviable on BHEL.

### 16. Liability Under Reverse Charge (RCM)

Any GST liability arising on BHEL under Reverse Charge (RCM) before actual receipt of goods and/or Invoice thereof would be subject to recovery of Interest leviable for the period between the date of such liability and actual date of eligibility of ITC based on receipt of goods, receipt of Invoices and other conditions specified in GST Law as applicable.

### 17. Access to Manufacturing Premises

While Purchase Orders placed on the vendor are under execution, authorized representatives of BHEL shall be allowed free access to the manufacturing facilities for the purpose of inspection or monitoring the progress of purchase orders. This access will also be extended to representatives of BHEL's customers accompanying the authorized representative/s of BHEL (which shall be intimated in advance), if our contractual requirements with our customers call for the same.

### 18. Inspection

1. The seller shall give adequate notice, of 1 week or as mutually agreed period, in writing to the Purchaser about the date and place at which the goods will be ready for inspection/ testing, as provided for in the contract.
2. Purchaser or his authorized representative shall be entitled to carry out inspection of material and workmanship/Surveillance Audit at Seller's premises or at his sub-contractor's premises at all reasonable times during execution of contract; Such inspection, examination and testing, if made, shall not absolve the Seller from his obligations under the contract. No additional charges shall be claimed for such inspections. Moreover, all required infrastructure (testing, tools etc) have to be arranged by supplier.
3. Any inspection carried out before supply by vendor/incoming stage at BHEL notwithstanding, if any defect/non-conformity is noted during processing, the same shall be attended/replaced by vendor at no extra cost.
4. BHEL representative from unit or CQ is authorized to carry out audits along with TPIA at vendor's works before clearing the items for dispatch.

Signature Not Verified

Signed By: AMAN SHARMA

Location: BHEL Goindwal

Signing Date: 04.12.2023





## General Conditions of Contract (GCC) of MM Tenders

### BHARAT HEAVY ELECTRICALS LIMITED

Industrial Valve Plant: 433, Industrial Complex,  
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5. Necessary tooling including thread gauges etc. have to be arranged by vendor. Only in exceptional cases, based on BHEL discretions item/nature, BHEL may consider request to provide gauges if available with BHEL. But in no case this shall be linked with delivery of material.
6. In case of following points, visit charges to be paid to Third Party Inspection Agency (TPIA) shall be imposed as penalty on Supplier:
  - a) Nothing/NIL material is offered during Inspection (whilst physical visit of Inspection Engineer at Supplier's work) with respect to "Offered Quantity" mentioned in raised Inspection Call.
  - b) Lapses on the account of supplier has led to rejection of offered material (as per approved QAP/ Technical Specifications/ Other pertinent requirement), while carrying out Inspection.
  - c) Less Quantity/ Short Quantity is offered during Inspection (whilst physical visit of Inspection Engineer at Supplier's work) with respect to "Offered Quantity" mentioned in raised Inspection Call for any of the line(s) item, leading to re-visit of Inspection Engineer.

### 19. Warrantee and Corresponding Repair / Replacement of Goods

Goods shall comply with the specifications for material, workmanship and performance. Unless otherwise specified, vendor shall give a warrantee against design & manufacturing defects for a period of 18 months from the date of receipt. In case of non-acceptance of this term, bid shall be liable for rejection.

If the delivery is found non-compliant during the warranty period, leading to rejection, the Seller shall arrange free replacement / repair of goods, within one month from the date of intimation. Corresponding quantity shall be treated as unsupplied against respective purchase order till replacement is received at BHEL. In the event of the Seller's failure to comply, Purchaser may take action as appropriate, including repair / replenish rejected goods, at the cost of the seller as per contractual obligations.

All incidental charges like freight, insurance and customs duty in respect of return of defective items are to vendor's account only. BHEL will inform related invoice, quantity etc. to supplier. Supplier has to give advance intimation / plan (Transporter, Vehicle details) for the lifting of material. Further supplier has to provide requisite documents (such as Credit Note, e-Way Bill etc.) to lift the rejected material. Material should be lifted within one month from date of intimation. After one-month, BHEL will not be responsible for rejected material and BHEL shall have the right to dispose off such rejected material.

The defective parts and components shall be collected by your Indian agent or / authorized person, only after completing the replacement / repairs. If the supplier fails to replace / rectify the defective/ damaged items on free of cost within one month of reporting from our end, the same shall be treated as failure to execute the contract and actions as per the Guidelines for Suspension of Business Dealings with Suppliers /Contractors available in the webpage: <https://www.bhel.com> would be taken against such supplier without prejudice to the other remedies available to BHEL under the contract and law in this regard.

Signature Not Verified

Signed By: AMAN SHARMA

Location: BHEL Goindwal

Signing Date: 04.12.2023





## 20. LOI (Letter of Intent)

BHEL may issue LOI prior to the PO for any reason whatsoever. The LOI in such cases is to be treated as PO for all practical purposes and all the Terms & Conditions of the tender shall be applicable from the date of issue of LOI.

## 21. Sub-Contract

The purchase order or any part thereof shall not be sub-contracted, assigned or otherwise transferred without previously obtaining the BHEL's consent in writing.

## 22. Discrepancy in Words and Figures

1. If, in the price structure quoted for the required goods/ services/ works, there is discrepancy between the unit price and the total price (which is obtained by multiplying the unit price by the quantity}, the unit price shall prevail and the total price corrected accordingly, unless in the opinion of the purchaser there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price corrected accordingly.
2. If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
3. If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject of (a) and (b) above.
4. If there is such discrepancy in an offer, the same shall be conveyed to the bidder with target date upto which the bidder has to send his acceptance on the above lines and if the bidder does not agree to the decision of the purchaser, the bid is liable to be ignored.
5. Bids should be free from correction, overwriting, using corrective fluid, etc. Any interlineation, cutting, erasure or overwriting shall be valid only if they are attested under full signature(s) of person(s) signing the bid else shall be liable for rejection.
6. All overwriting/cutting, etc will be numbered by bid opening officials and announced during bid opening.

## 23. Force Majeure

1. Notwithstanding the provisions contained in other clauses, the supplier shall not be liable for imposition of any such sanction so long the delay and/or failure of the supplier in fulfilling its obligations under the contract is the result of an event of Force Majeure. For purposes of this clause, Force Majeure means an event beyond the control of the supplier and not involving the supplier's fault or negligence and which is not foreseeable and not brought about at the instance of the party claiming to be affected by such event and which has caused the non – performance or delay in performance. Such events may include, but are not restricted to, wars or revolutions, hostility, acts of public enemy, civil commotion, sabotage, fires, floods, explosions, epidemics, quarantine restrictions, strikes excluding by its employees, lockouts excluding by its management, freight embargoes and Acts of GOD.
2. If a Force Majeure situation arises, the supplier shall promptly notify the Purchaser/Consignee in writing of such conditions and the cause thereof within twenty-one days of occurrence of such event. Unless otherwise directed by the Purchaser/Consignee in writing, the supplier shall continue

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## General Conditions of Contract (GCC) of MM Tenders

**BHARAT HEAVY ELECTRICALS LIMITED**

Industrial Valve Plant: 433, Industrial Complex,  
Goindwal Sahib, Dist. Tarn Taran,  
Punjab-143422 (INDIA)

- to perform its obligations under the contract as far as reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.
3. If the performance in whole or in part or any obligation under this contract is prevented or delayed by any reason of Force Majeure for a period exceeding sixty days, either party may at its option terminate the contract without any financial repercussion on either side.
  4. In case due to a Force Majeure event the Purchaser/Consignee is unable to fulfil its contractual commitment and responsibility, the Purchaser/Consignee will notify the supplier accordingly and subsequent actions taken on similar lines described in above sub-paragraphs.

### 24. Non-Disclosure Agreement

All Drawing and technical documents relating to the product or it's manufacture submitted by one party to the other, prior or subsequent to the formation of contract, shall remain property of the submitting party. Drawing, technical documents or other technical information received by one party, shall not without the consent of the other party, be used for any other purpose than that, for which they were provided. Such technical information shall not without the consent of the submitting party, otherwise be used or copied, reproduced, transmitted or communicated to a third party. Patterns supplied by BHEL will remain BHEL's property which shall be returned by the bidder on demand to BHEL. Bidder shall in no way share or use such intellectual property of BHEL to promote his own business with others. ***BHEL reserves the right to claim damages from the bidder, or take appropriate penal action as deemed fit against the bidder, for any infringement of the provisions contained herein.***

### 25. Clarifications

The correspondence exchanged against the tender from both tenderer and BHEL through email/e-procurement are considered as valid document legally though it is not signed. It is treated as valid confirmations made on behalf of the respective company and very much comes under the legal ambit of the business transaction and hence it is binding on both the parties to the business. Any transaction pertaining to the tender from both the parties of business done round the clock irrespective of the office or business hours of the companies, are valid legally and binding on both the parties. This applies to the extent only in such cases where deadline time for transaction is not specifically declared by either or both the parties to the business.

### 26. Preferences for Micro and Small Enterprises (MSEs)

Preferences as mentioned in “Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012” & “Public Procurement Policy for Micro and Small Enterprises (MSEs) Amendment Order, 2018”, or as per latest guidelines issued by government shall be given to Micro and Small enterprises.

Main points which are mentioned in the above orders are as follows:

- 25% Procurement of the tender value shall be made from MSE (Micro, Small Enterprises) firms.
- 25% of the 25% quantity (i.e. 6.25% of the tender quantity) offered to the MSE's shall be reserved for MSE's owned by SC/STs. Failure to participate by any MSE owned by SC/ST's; this 6.25% quantity shall be procured from other MSEs.

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## General Conditions of Contract (GCC) of MM Tenders

### BHARAT HEAVY ELECTRICALS LIMITED

Industrial Valve Plant: 433, Industrial Complex,  
Goindwal Sahib, Dist. Tarn Taran,  
Punjab-143422 (INDIA)

- 3% from within the 25% quantity offered to the MSE's shall be reserved for women owned MSE's. Failure to participate by any MSE owned by women; this 3% quantity shall be procured from other MSEs.
- EMD shall be exempted for MSE's. All these benefits are subject to production of all statutory documents
- In tender, participating Micro and Small Enterprises quoting price within price band of L1+15 per cent shall also be allowed to supply a portion of requirement by bringing down their price to L1 price in a situation where L1 price is from someone other than a Micro and Small Enterprise and such Micro and Small Enterprise shall be allowed to supply up to 25 per cent of total tendered value. In case of more than one such Micro and Small Enterprise, the supply shall be shared proportionately (to tendered quantity).

MSE suppliers can avail the intended benefits only if they submit **Udyam Registration Certificate** along with the offer. No other document shall be considered for availing MSE benefits. Non-submission of such document will lead to consideration of their bid at par with other bidders. No benefit shall be applicable for this enquiry if any deficiency in the above required documents is not cleared before price bid opening. If the tender is to be submitted through e-procurement portal, then the above required document is to be uploaded on the portal.

*Note: It may however be noted that MSE guidelines as on date (Date of Technical Bid Opening Part-1) shall prevail.*

## 27. Preference to Make in India

This procurement shall be governed by notification no. P-45021/2/2017-PP (BE-II) dated 16.09.2020 of Government of India issued by DPIIT and subsequent circulars issued afterwards. Accordingly, the minimum local content, the margin of purchase preference and the procedure for purchase preference to make in India shall be adhered.

## 28. Restrictions Under Rule 144(XI) of The General Financial Rules (GFR), 2017

Restrictions on procurement from a bidder of a country which shares a land border with India

- a) Any bidder from a country which shares a land border with India will be eligible to bid in this tender, whether of goods or services (including consultancy services and non-consultancy services), only if the bidder is registered with the Competent Authority.
  - b) Further, any bidder (including an Indian bidder) who has a Specified Transfer of Technology (ToT) arrangement with an entity from a country which shares a land border with India will be eligible to bid in any procurement whether of goods or services (including consultancy services and non-consultancy services) only if the bidder is registered with the Competent Authority. *This clause shall be applicable only in the tenders which attract restrictions due to specified ToT.*
- II. "Bidder" (Seller / Service Provider) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency branch or office controlled by such person, participating in a procurement process.

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## General Conditions of Contract (GCC) of MM Tenders

**BHARAT HEAVY ELECTRICALS LIMITED**

Industrial Valve Plant: 433, Industrial Complex,  
Goindwal Sahib, Dist. Tarn Taran,  
Punjab-143422 (INDIA)

III. "Bidder (or entity) from a country which shares a land border with India" for the purpose of the Order means:

- a) An entity incorporated, established, or registered in such a country; or
- b) A subsidiary of an entity incorporated, established, or registered in such a country; or
- c) An entity substantially controlled through entities incorporated, established, or registered in such a country; or
- d) An entity whose beneficial owner is situated in such a country; or
- e) An Indian (or other) agent of such an entity; or
- f) A natural person who is a citizen of such a country; or
- g) A consortium or joint venture where any member of the consortium or joint venture falls under any of the above

IV. The beneficial owner for the purpose of (iv) above will be as under

1. In case of a company or Limited Liability Partnership, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has a controlling ownership interest or who exercises control through other means.

Explanation—

- a) "Controlling ownership interest" means ownership of or entitlement to more than twenty-five per cent. of shares or capital or profits of the company;
  - b) "Control" shall include the right to appoint majority of the directors or to control the management or policy decisions including by virtue of their shareholding or management rights or shareholders agreements or voting agreements;
2. In case of a partnership firm, the beneficial owner is the natural person(s) who, whether acting alone or together, or through one or more juridical person, has ownership of entitlement to more than fifteen percent of capital or profits of the partnership;
  3. In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has ownership of or entitlement to more than fifteen percent of the property or capital or profits of such association or body of individuals;
  4. Where no natural person is identified under (1) or (2) or (3) above, the beneficial owner is the relevant natural person who holds the position of senior managing official;
  5. In case of a trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.

V. An Agent is a person employed to do any act for another, or to represent another in dealings with third person.

VI. The registration shall be valid at the time of submission of bid and at the time of acceptance of bid.

VII. If the bidder was validly registered at the time of acceptance / placement of order, registration shall not be a relevant consideration during contract execution.

VIII. "Transfer of Technology" means dissemination and transfer of all forms of commercially usable knowledge such as transfer of know-how, skills, technical expertise, designs, processes and procedures, trade secrets, which enables the acquirer of such technology to perform activities using the transferred technology independently.

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**BHARAT HEAVY ELECTRICALS LIMITED**

Industrial Valve Plant: 433, Industrial Complex,  
Goindwal Sahib, Dist. Tarn Taran,  
Punjab-143422 (INDIA)

Any false declaration and non-compliance of the above would be a ground for debarment and further legal action in accordance with law.

### **Bidder has to submit a certificate certifying following along with offer:**

"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered. [Where applicable, evidence of valid registration by the Competent Authority shall be Attached]."

### **29. Resolution of Disputes**

The Parties agree that if at any time (whether before, during or after the arbitral or judicial proceedings), any Disputes (which term shall mean and include any dispute, difference, question or disagreement arising in connection with construction, meaning, operation, effect, interpretation or breach of the contract/tender which the Parties are unable to settle mutually), arise inter-se the Parties, the same may, be referred by either party to Conciliation to be conducted through Independent Experts Committee to be appointed by competent authority of BHEL from the BHEL Panel of Conciliators.

Notes:

1. No serving or a retired employee of BHEL/Administrative Ministry of BHEL shall be included in the BHEL Panel of Conciliators.
2. Any other person(s) can be appointed as Conciliator(s) who is/are mutually agreeable to both the parties from outside the BHEL Panel of Conciliators.

The proceedings of Conciliation shall broadly be governed by Part-III of the Arbitration and Conciliation Act 1996 or any statutory modification thereof and as provided in Annexure-X to this GCC.

The Annexure-X together with its appendices will be treated as if the same is part and parcel hereof and shall be as effectual as if set out herein in this GCC.

Except as provided elsewhere in this Contract, in case amicable settlement is not reached between the parties, in respect of any dispute or difference; arising out of the formation, breach, termination, validity or execution of the Contract; or, the respective rights and liabilities of the Parties; or, in relation to interpretation of any provision of the Contract; or, in any manner touching upon the Contract, then, either Party may, by a notice in writing to other Party, refer such dispute or difference to sole arbitration of an arbitrator appointed as per the Arbitration and Conciliation Act, 1996 (India) or statutory modification or re-enactment thereof and the rules made thereunder and for the time being in force.

The Arbitrator shall pass a reasoned award and the award of the Arbitrator shall be final and binding upon the parties.

This contract shall be governed, construed and interpreted in accordance with the laws of India.

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## General Conditions of Contract (GCC) of MM Tenders

**BHARAT HEAVY ELECTRICALS LIMITED**

Industrial Valve Plant: 433, Industrial Complex,  
Goindwal Sahib, Dist. Tarn Taran,  
Punjab-143422 (INDIA)

Subject as aforesaid, the provisions of Arbitration & Conciliation Act 1996 (India) or statutory modification or re-enactment thereof and the rules made thereunder and for the time being in force shall apply to the arbitration proceeding under this clause.

The seat of arbitration shall be Tarn Taran, Punjab, India.

The cost of arbitration shall be borne as per the award of the Arbitrator.

Subject to arbitration in terms of clause above, the Courts at Tarn Taran, Punjab, India shall have exclusive jurisdiction over any matter arising out of or in connection with this Contract.

Notwithstanding the existence or any dispute or difference and/or reference for the arbitration, the vendor/contractor shall proceed with and continue without hindrance the performance of its obligation under this Contract with due diligence and expedition in a professional manner except where the Contract has been terminated by either Party in terms of this Contract.

**In Case of Contract with Public Sector Enterprise (PSE) or a Government Department, the following shall be applicable:**

In the event of any dispute or difference relating to the interpretation and application of the provisions of commercial contract(s) between Central Public Sector Enterprises (CPSEs)/Port Trusts inter se and also between CPSEs and Government Departments/Organizations (Excluding disputes concerning Railways, Income Tax, Customs & Excise Departments, such dispute or difference shall be taken up by either party for its resolution through AMRCD as mentioned in DPE OM No.05/003/2019-FTS-10937 dated 14<sup>th</sup> December, 2022 and the decision of AMRCD on the said dispute will be binding on both the parties.”

Set off : BHEL shall have the right to recover any money which in the sole opinion of BHEL is due from the supplier from any money due to the supplier under this Contract or any other contract or from the Security Deposit/BG furnished by the supplier under this Contract or any other contract.

### **30. Fraud Prevention Policy**

The 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 <https://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.

### **31. Preventive Checks to Eliminate Suspected Cartel Formation**

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.

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## General Conditions of Contract (GCC) of MM Tenders

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Industrial Valve Plant: 433, Industrial Complex,  
Goindwal Sahib, Dist. Tarn Taran,  
Punjab-143422 (INDIA)

In case, the Bidder is found having indulged in above activities, suitable action shall be taken by BHEL as per extant policies/ guidelines.

### 32. Suspension of Business Dealings with Suppliers / Contractors

The offers of the bidders who are under suspension as also the offers of the bidders, who engage the services of the firms debarred across BHEL, shall be rejected. The list of firms debarred across BHEL is available on BHEL web site <https://www.bhel.com/>.

### INTEGRITY COMMITMENT, PERFORMANCE OF THE CONTRACT AND PUNITIVE ACTION THEREOF:

#### 31.1. Commitment by BHEL:

BHEL commits to take all measures necessary to prevent corruption in connection with the tender process and execution of the contract. BHEL will during the tender process treat all Bidder(s) in a transparent and fair manner, and with equity.

#### 31.2. Commitment by Bidder/ Supplier/ Contractor:

31.2.1. The bidder/ supplier/ contractor commits to take all measures to prevent corruption and will not directly or indirectly influence any decision or benefit which he is not legally entitled to nor will act or omit in any manner which tantamount to an offence punishable under any provision of the Indian Penal Code, 1860 or any other law in force in India.

31.2.2. The bidder/ supplier/ contractor will, when presenting his bid, disclose any and all payments he has made, and is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract and shall adhere to relevant guidelines issued from time to time by Govt. of India/ BHEL.

31.2.3. The bidder/ supplier/ contractor will perform/ execute the contract as per the contract terms & conditions and will not default without any reasonable cause, which causes loss of business/ money/ reputation, to BHEL.

If any bidder/ supplier/ contractor during pre-tendering/ tendering/ post tendering/ award/ execution/ post-execution stage indulges in mal-practices, cheating, bribery, fraud or and other misconduct or formation of cartel so as to influence the bidding process or influence the price or acts or omits in any manner which tantamount to an offence punishable under any provision of the Indian Penal Code, 1860 or any other law in force in India, then, action may be taken against such bidder/ supplier/ contractor as per extant guidelines of the company available on <https://www.bhel.com/> and/or under applicable legal provisions

### 33. General

1. BHEL will not be bound by any power of attorney granted by the vendors or by changes in the composition of the firm made subsequent to the execution of the contract. They may, however,

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## General Conditions of Contract (GCC) of MM Tenders

**BHARAT HEAVY ELECTRICALS LIMITED**

Industrial Valve Plant: 433, Industrial Complex,  
Goindwal Sahib, Dist. Tarn Taran,  
Punjab-143422 (INDIA)

- recognize such power of attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the vendor concerned.
2. BHEL reserves the right to extend the due date of opening, which shall be informed. Validity of offer shall be deemed to be revised accordingly.
  3. BHEL reserves the right to accept or reject any part or whole of the tender of a bidder by assigning a valid reason thereof. BHEL reserves the right to cancel the tender without assigning any reason thereof and without any obligation before any commitment.
  4. Acceptance of all terms and conditions, in the form of signed copy of T&C or confirmation separately written, shall be submitted along with quotation. If nothing is mentioned, it shall be concluded that these terms and conditions are acceptable.
  5. BHEL may increase/decrease item/s based on BHEL requirement before price bid opening. Suitable price implication may be asked from suppliers.
  6. BHEL may drop item/items from tender at any stage of tender before placing PO. BHEL may also delete PO with consent with supplier within delivery date of PO.
  7. After releasing PO, it is assumed that supplier has accepted PO if we do not receive acknowledgement from supplier within 5 days of date of PO.
  8. In case of unscheduled holiday on opening day of tender, the next working day will be treated as scheduled prescribed day of opening of tender.
  9. 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.
  10. Ranking L-1, L-2 etc. shall be done for individual item for the techno-commercially acceptable offers on landed cost to BHEL, IVP Goindwal basis and BHEL reserves the right to place order for individual items with different vendors.
  11. 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.
  12. If supplier is mentioning delivery destination within state/ outside state depending upon his location of factory, Free on Road etc. these are assumed as on FOR Goindwal. If supplier is wishing to give delivery on Ex works basis, then he has to clearly mention about it.
  13. The bidder has to keep track of any changes by viewing the addendum(s) / 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.
  14. Unregistered suppliers, who are techno-commercially qualified against the open tender, are requested to register with BHEL as permanent supplier by submitting the Supplier Registration Form (SRF) in online supplier registration portal (<https://supplier.bhel.in/>).
  15. The General Conditions of Contract and the Special Conditions in each enquiry and the resulting purchase order constitute the entire contract between the parties. In case of any discrepancy between the provisions of General Conditions of Contract and Special Conditions of the Tender,

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## General Conditions of Contract (GCC) of MM Tenders

**BHARAT HEAVY ELECTRICALS LIMITED**

Industrial Valve Plant: 433, Industrial Complex,  
Goindwal Sahib, Dist. Tarn Taran,  
Punjab-143422 (INDIA)

the provisions in Special Conditions of the Tender shall prevail and interpretation of BHEL of such condition/clause will be final and binding on both the parties ..





## General Conditions of Contract (GCC) of MM Tenders

**BHARAT HEAVY ELECTRICALS LIMITED**

Industrial Valve Plant: 433, Industrial Complex,  
Goindwal Sahib, Dist. Tarn Taran,  
Punjab-143422 (INDIA)

### Annexure-X

#### **BRIEF PROCEDURE FOR CONDUCT OF CONCILIATION PROCEEDINGS**

1. The proceedings of Conciliation shall broadly be governed by Part-III of the Arbitration and Conciliation Act 1996 or any statutory modification thereof and as provided herein:
2. The party desirous of resorting to Conciliation shall send an invitation/notice in writing to the other party to conciliate specifying all points of Disputes with details of the amount claimed. The party concerned shall not raise any new issue thereafter. Parties shall also not claim any interest on claims/counter-claims from the date of notice invoking Conciliation till the conclusion of the Conciliation proceedings.
3. The party receiving the invitation/notice for Conciliation shall within 30 days of receipt of the notice of Conciliation intimate its consent for Conciliation along with its counter-claims, if any.
4. The Conciliation in a matter involving claim or counter-claim (whichever is higher) up to Rs 5 crores shall be carried out by sole Conciliator nominated by BHEL while in a matter involving claim or counter-claim (whichever is higher) of more than Rs 5 crores Conciliation shall be carried out by 3 Conciliators nominated by BHEL.
5. The Parties shall be represented by only their duly authorized in-house executives/officers and neither Party shall be represented by a Lawyer.
6. The first meeting of the IEC shall be convened by the IEC by sending appropriate communication/notice to both the parties as soon as possible but not later than 30 days from the date of his/their appointment. The hearings in the Conciliation proceeding shall ordinarily be concluded within two (2) months and, in exceptional cases where parties have expressed willingness to settle the matter or there exists possibility of settlement in the matter, the proceedings may be extended by the IEC by a maximum of further 2 months with the consent of the Parties subject to cogent reasons being recorded in writing.
7. The IEC shall thereafter formulate recommendations for settlement of the Disputes supported by reasons at the earliest but in any case, within 15 days from the date of conclusion of the last hearing. The recommendations so formulated along with the reasons shall be furnished by the IEC to both the Parties at the earliest but in any case, within 1 month from the date of conclusion of the last hearing.
8. Response/modifications/suggestions of the Parties on the recommendations of the IEC are to be submitted to the IEC within time limit stipulated by the IEC but not more than 15 days from the date of receipt of the recommendations from the IEC.
9. In the event, upon consideration, further review of the recommendations is considered necessary, whether by BHEL or by the other Party, then, the matter can be remitted back to the IEC with

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## General Conditions of Contract (GCC) of MM Tenders

### BHARAT HEAVY ELECTRICALS LIMITED

Industrial Valve Plant: 433, Industrial Complex,  
Goindwal Sahib, Dist. Tarn Taran,  
Punjab-143422 (INDIA)

- request to reconsider the same in light of the issues projected by either/both the Parties and to submit its recommendations thereon within the following 15 days from the date of remitting of the case by either of the Parties.
10. Upon the recommendations by the Parties, with or without modifications, as considered necessary, the IEC shall be called upon to draw up the Draft Settlement Agreement in terms of the recommendations.
  11. When a consensus can be arrived at between the parties only in regard to any one or some of the issues referred for Conciliation the draft Settlement Agreement shall be accordingly formulated in regard to the said Issue(s), and the said Settlement Agreement, if signed, by the parties, shall be valid only for the said issues. As regards the balance issues not settled, the parties may seek to resolve them further as per terms and conditions provided in the contract.
  12. In case no settlement can be reached between the parties, the IEC shall by a written declaration, pronounce that the Conciliation between the parties has failed and is accordingly terminated.
  13. Unless the Conciliation proceedings are terminated in terms of para 22 (b), (c) & (d) herein below, the IEC shall forward his/its recommendations as to possible terms of settlement within one (1) month from the date of last hearing. The date of first hearing of Conciliation shall be the starting date for calculating the period of 2 months.
  14. In case of 3 members IEC, 2 members of IEC present will constitute a valid quorum for IEC and meeting can take place to proceed in the matter after seeking consent from the member who is not available. If necessary, videoconferencing may be arranged for facilitating participation of the members. However, the IEC recommendations will be signed by all members. Where there is more than one (1) Conciliator, as a general rule they shall act jointly. In the event of differences between the Members of IEC, the decision/recommendations of the majority of the Members of IEC shall prevail and be construed as the recommendation of the IEC.
  15. The Draft Settlement Agreement prepared by the IEC in terms of the consensus arrived at during the Conciliation proceedings between the Parties shall be given by the IEC to both the parties for putting up for approval of their respective Competent Authority.
  16. Before submitting the draft settlement agreement to BHEL's Competent Authority viz. the Board Level Committee on Alternative Dispute Resolution (BLCADR) for approval, concurrence of the other party's Competent Authority to the draft settlement agreement shall be obtained by the other party and informed to BHEL within 15 days of receipt of the final draft settlement agreement by it. Upon approval by the Competent Authority, the Settlement Agreement would thereafter be signed by the authorized representatives of both the Parties and authenticated by the members of the IEC.
  17. In case the Draft Settlement Agreement is rejected by the Competent Authority of BHEL or the other Party, the Conciliation proceedings would stand terminated.

Signature Not Verified  
Signed By: AMAN SHARMA  
Location: BHEL Goindwal  
Signing Date: 04.12.2023



18. A Settlement Agreement shall contain a statement to the effect that each of the person(s) signing thereto (i) is fully authorized by the respective Party(ies) he/she represents, (ii) has fully understood the contents of the same and (iii) is signing on the same out of complete freewill and consent, without any pressure, undue influence.
19. The Settlement Agreement shall thereafter have the same legal status and effect as an arbitration award on agreed terms on the substance of the dispute rendered by an arbitral tribunal passed under section 30 of the Arbitration and Conciliation Act, 1996.
20. Acceptance of the Draft Settlement Agreement/recommendations of the Conciliator and/or signing of the Settlement Agreement by BHEL shall however, be subject to withdrawal/closure of any arbitral and/or judicial proceedings initiated by the concerned Party in regard to such settled issues.
21. Unless otherwise provided for in the agreement, contract or the Memorandum of Understanding, as the case may be, in the event of likelihood of prolonged absence of the Conciliator or any member of IEC, for any reason/incapacity, the Competent Authority/Head of Unit/Division/Region/Business Group of BHEL may substitute the Conciliator or such member at any stage of the proceedings. Upon appointment of the substitute Conciliator(s), such reconstituted IEC may, with the consent of the Parties, proceed with further Conciliation into the matter either de-novo or from the stage already reached by the previous IEC before the substitution.
22. The proceedings of Conciliation under this Scheme may be terminated as follows:
- On the date of signing of the Settlement agreement by the Parties; or,
  - By a written declaration of the IEC, after consultation with the parties, to the effect that further efforts at conciliation are no longer justified, on the date of the declaration; or,
  - By a written declaration of the Parties addressed to the IEC to the effect that the Conciliation proceedings are terminated, on the date of the declaration; or,
  - By a written declaration of a Party to the other Party and the IEC, if appointed, to the effect that the Conciliation proceedings are terminated, on the date of the declaration.
  - On rejection of the Draft Settlement Agreement by the Competent Authority of BHEL or the other Party.







## General Conditions of Contract (GCC) of MM Tenders

**BHARAT HEAVY ELECTRICALS LIMITED**

Industrial Valve Plant: 433, Industrial Complex,  
Goindwal Sahib, Dist. Tarn Taran,  
Punjab-143422 (INDIA)

23. The Conciliator(s) shall be entitled to following fees and facilities:

Sr. No.	Particulars	Amount
1	Sitting fees	Each Member shall be paid a Lump Sum fee of Rs 75,000/- for the whole case payable in terms of paragraph No. 27 herein below.
2	Towards drafting of settlement agreement	<p>In cases involving claim and/or counter-claim of up to Rs 5crores. Rs 50,000/- (Sole Conciliator)</p> <p>In cases involving claim and/or counter-claim of exceeding Rs 5 crores but less than Rs 10 crores. Rs. 75,000 (per Conciliator)</p> <p>In cases involving claim and/or counter-claim of more than Rs 10 crores. Rs 1,00,000/- (per Conciliator)</p> <p>Note: The aforesaid fees for the drafting of the Settlement Agreement shall be paid on Signing of the Settlement Agreement after approval of the Competent Authority or Rejection of the proposed Settlement Agreement by the Competent Authority of BHEL.</p>
3	Secretarial expenses	<p>Rs 10,000/- (one time) for the whole case for Conciliation by a Sole Member IEC.</p> <p>Where Conciliation is by multi member Conciliators –Rs 30,000/- (one time)- to be paid to the IEC</p>
4	Travel and transportation and stay at outstation	As per entitlement of the equivalent officer (pay scale wise) in BHEL.
	<p>i Retired Senior Officials of other Public Sector Undertakings (pay scale wise equivalent to or more than E-8 level of BHEL)</p> <p>Others</p>	As per the extant entitlement of whole time Functional Directors in BHEL.

Signature Not Verified

Signed By: AMAN SHARMA

Location: BHEL Goindwal

Signing Date: 04.12.2023





## General Conditions of Contract (GCC) of MM Tenders

**BHARAT HEAVY ELECTRICALS LIMITED**

Industrial Valve Plant: 433, Industrial Complex,  
Goindwal Sahib, Dist. Tarn Taran,  
Punjab-143422 (INDIA)

5	Venue for meeting	Unless otherwise agreed in the agreement, contract or the Memorandum of Understanding, as the case may be, the venue/seat of proceedings shall be the location of the concerned Unit / Division / Region / Business Group of BHEL. Without prejudice to the seat/venue of the Conciliation being at the location of concerned BHEL Unit / Division / Region / Business Group, the IEC after consulting the Parties may decide to hold the proceedings at any other place/venue to facilitate the proceedings. Unless, Parties agree to conduct Conciliation at BHEL premises, the venue is to be arranged by either Party alternately.
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24. The parties will bear their own costs including cost of presenting their cases/evidence/witness(es)/expert(s) on their behalf. The parties agree to rely upon documentary evidence in support of their claims and not to bring any oral evidence in IEC proceedings.

25. If any witness(es) or expert(s) is/are, with the consent of the parties, called upon to appear at the instance of the IEC in connection with the matter, then, the costs towards such witness(es)/expert(s) shall be determined by the IEC with the consent of the Parties and the cost so determined shall be borne equally by the Parties.

26. The other expenditures/costs in connection with the Conciliation proceedings as well as the IEC's fees and expenses shall be shared by the Parties equally.

27. Out of the lump sum fees of Rs 75,000/- for Sitting Fees, 50% shall be payable after the first meeting of the IEC and the remaining 50% of the Sitting Fees shall be payable only after termination of the conciliation proceedings in terms of para 22 hereinabove.

28. The travelling, transportation and stay at outstation shall be arranged by concerned Unit as per entitlements as per Serial No. 3 of the Table at para 23 above, and in case such arrangements are not made by the BHEL Unit, the same shall be reimbursed to the IEC on actuals limited to their entitlement as per Serial No. 4 of the Table at Para 23 above against supporting documents. The IEC Member(s) shall submit necessary invoice for claiming the fees/reimbursements.

29. The Parties shall keep confidential all matters relating to the conciliation proceedings. Confidentiality shall extend also to the settlement agreement, except where its disclosure is necessary for purposes of its implementation and enforcement or as required by or under a law or as per directions of a Court/Governmental authority/ regulatory body, as the case may be.

30. The Parties shall not rely upon or introduce as evidence in any further arbitral or judicial proceedings, whether or not such proceedings relate to the Disputes that is the subject of the Conciliation proceedings:

Signature Not Verified

Signed By: AMAN SHARMA

Location: BHEL Goindwal

Signing Date: 04.12.2023





## General Conditions of Contract (GCC) of MM Tenders

**BHARAT HEAVY ELECTRICALS LIMITED**

Industrial Valve Plant: 433, Industrial Complex,  
Goindwal Sahib, Dist. Tarn Taran,  
Punjab-143422 (INDIA)

- a. Views expressed or suggestions made by the other party in respect of a possible settlement of the Disputes;
  - b. admissions made by the other party in the course of the Conciliator proceedings;
  - c. proposals made by the Conciliator;
  - d. The fact that the other Party had indicated his willingness to accept a proposal for settlement made by the Conciliator.
31. The Parties shall not present the Conciliator(s) as witness in any Alternative Dispute Resolution or Judicial proceedings in respect of a Disputes that is/was the subject of that particular Conciliation proceeding.
32. None of the Conciliators shall act as an arbitrator or as a representative or counsel of a Party in any arbitral or judicial proceeding in respect of a Disputes that is/was the subject of that particular Conciliation proceeding.
33. The Parties shall not initiate, during the Conciliation proceedings, any arbitral or judicial proceedings in respect of a Disputes that is the subject matter of the Conciliation proceedings except that a Party may initiate arbitral or judicial proceedings where, in his opinion, such proceedings are necessary for preserving his rights including for preventing expiry of period of limitation. Unless terminated as per the provisions of this Scheme, the Conciliation proceedings shall continue notwithstanding the commencement of the arbitral or judicial proceedings and the arbitral or judicial proceedings shall be primarily for the purpose of preserving rights including preventing expiry of period of limitation.
34. The official language of Conciliation proceedings under this Scheme shall be English unless the Parties agree to some other language.

Signature Not Verified

Signed By: AMAN SHARMA

Location: BHEL Goindwal

Signing Date: 04.12.2023





## General Conditions of Contract (GCC) of MM Tenders

**BHARAT HEAVY ELECTRICALS LIMITED**

Industrial Valve Plant: 433, Industrial Complex,  
Goindwal Sahib, Dist. Tarn Taran,  
Punjab-143422 (INDIA)

### Appendix-I of Annexure-X

#### **FORMAT FOR SEEKING CONSENT FOR REFERRING THE DISPUTES TO CONCILIATION THROUGH IEC**

To,

M/s. (Stakeholder's name)

**Sub: Resolution of the Disputes through conciliation by Independent Expert Committee (IEC).**

Ref: Contract No/MoU/Agreement/LOI/LOA& date \_\_\_\_\_.

Sir,

With reference to above referred Contract/MoU/Agreement/LOI/LOA, you have raised certain Disputes/claims. Vide your letter dated\_\_\_\_ you have requested BHEL to refer the Disputes/claims to IEC for Conciliation.


We are enclosing herewith Format (3) for giving consent and the terms and conditions of BHEL Conciliation Scheme, 2018 governing conciliation through IEC. You are requested to give your unconditional consent to the said terms and conditions of the Scheme by returning the same duly sealed and signed on each page. On receipt of your consent, matter will be put to the Competent Authority for consideration and decision.

Please note that BHEL has also certain claims against you (if applicable). BHEL reserves its right to agree or not to agree conciliation of the said disputes through BHEL and this letter is being issued without prejudice to BHEL's rights and contentions available under the contract and law.

Yours faithfully,

**Representative of BHEL**



	<b>General Conditions of Contract (GCC) of MM Tenders</b> <b>BHARAT HEAVY ELECTRICALS LIMITED</b> Industrial Valve Plant: 433, Industrial Complex, Goindwal Sahib, Dist. Tarn Taran, Punjab-143422 (INDIA)
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**Appendix-II of Annexure-X**

**FORMAT FOR GIVING CONSENT BY  
CONTRACTOR/VENDOR/CUSTOMER/COLLABORATOR/CONSORTIUM PARTNERS FOR REFERRING THE DISPUTES TO CONCILIATION THROUGH IEC**

To,

BHEL

.....

**Sub: Resolution of Disputes through Conciliation by Independent Expert Committee (IEC).**

Ref: Contract/MoU/Agreement/LOI/LOA No

& date \_\_\_\_

With reference to above referred contract, our following bills/invoices/claims submitted to BHEL are still unpaid giving rise to Disputes:

SL. no.	Claim Description	Bill submitted to BHEL (no. and date)	Amount of the bill/claim	Amount received from BHEL	Outstanding Amount

Accordingly, we request you to kindly refer the Disputes in respect of above claims to IEC for Conciliation.

We hereby agree and give our unconditional consent to the terms and conditions of BHEL Conciliation Scheme, 2018 governing conciliation through IEC. We have signed the same on each page and enclosed it for your consideration.

Yours faithfully,

(Signature with stamp)

**Authorized Representative of Contractor  
Name, with designation Date**





## General Conditions of Contract (GCC) of MM Tenders

**BHARAT HEAVY ELECTRICALS LIMITED**

Industrial Valve Plant: 433, Industrial Complex,  
Goindwal Sahib, Dist. Tarn Taran,  
Punjab-143422 (INDIA)

### Appendix-III of Annexure-X

#### STATEMENT OF CLAIMS/COUNTER CLAIMS TO BE SUBMITTED TO THE IEC BY BOTH THE PARTIES

1. Chronology of the Disputes
2. Brief of the Contract/MoU/Agreement/LOI/LOA
3. Brief history of the Disputes:
4. Issues:
5. Details of Claim(s)/Counter Claim(s):

Sl. No.	Description of claim(s)/Counter Claim	Amount (in INR) Or currency applicable in the contract	Relevant contract clause

6. Basis/Ground of claim(s)/counter claim(s) (along with relevant clause of contract)

**Note**– The Statement of Claims/Counter Claims may ideally be restricted to maximum limit of 20 pages. Relevant documents may be compiled and submitted along with the statement of Claims/Counter Claims. The statement of Claims/Counter Claims is to be submitted to all IEC members and to the other party by post as well as by email.





**Tender Enquiry No. 2425-052E** Dated 07.11.2024 **Due date 18.11.2024**

**Tender Description:** Purchase of HSFG Fasteners, Plain Chamfered and DTI Washers

**(Annexure - P)**

<b>Pre-Qualification Criteria – As per Tender Special Term S2.d</b>							
<b>S.N.</b>	<b>Required executed order value as per NIT (Net of Taxes) (INR)</b>	<b>Executed order value (Net of Taxes) as per bidder (INR)</b>	<b>Purchase order no. and date [PO date should be on or after 01.11.2021 till bid opening date]</b>	<b>Purchase Order issued by (Client name) M/s</b>	<b>Item description as per PO</b>	<b>Documents submitted against completion /execution proof of the afore mentioned PO (Invoice / Consignee Receipt Note / Completion Certificate) [Document date should be on or after 01.11.2021 till bid opening date]</b>	<b>Full address of the client and contact person (Name &amp; Details i.e. Mail ID, Mobile No. etc)</b>
1							
2							
3							
4							
5							
6							
7							

More lines can be added, if required.

Notes : -

1. Kindly attach all the above stated documents in the Quotation.
2. All proof of execution like Invoice / Consignee Receipt Note / Completion Certificate must include the Purchase Order reference number, otherwise that PO will not be considered for the fulfilment of this tender term.
3. For Fit Bolts and Nuts (Item Sr. no. 1 to 4 and 11 to 18), it is mandatory to submit one PO of HSFG Fit Bolts or of Similar item of any value. Similarly, for DTI Washers (Item Sr. no. 7 to 10) it is mandatory to submit one PO of DTI washers or of Similar item of any value. PO date should be 01.11.2021 or afterwards till bid opening date”.

**Tender Enquiry No. 2425-052E** Dated 07.11.2024 **Due date 18.11.2024**

**Tender Description: Purchase of HSFG Fasteners, Plain Chamfered and DTI Washers**

**(Annexure- Q)**

**Confirmations of Special Terms :**

<b>SPECIAL TERMS</b>	<b>CONFIRMATION BY BIDDER</b>
<b>Delivery Destination for the all the 20 items in the tender is BHEL Trichy Stores</b>	<b>Yes / No</b>
<b>Rust preventive</b> coating is to be applied wherever applicable (as per Special Term S1. D)	<b>Yes / No</b>
<b>Unloading</b> of Material at BHEL Trichy Stores is in the Scope of BHEL Trichy (as per Tender Special Term S5).	<b>Yes / No</b>
<b>Validity of Offer:</b> 75 days from the actual date of techno-commercial (Part-I) bid opening (as per Tender Special Term S6).	<b>Yes / No</b>
<b>Packing of Material</b> (as per Tender Special Term S13).	<b>Yes / No</b>
<b>Rates quoted by the bidder against this tender is EXCLUDING of Taxes and on FOR BHEL BHEL Trichy basis.</b>	<b>Yes / No</b>
<b>Integrity Pact as per Tender Special Term S15</b> Kindly ensure to fill the following details in Annexure- R, before submitting: - a) Name of the Bidder in the Page -1 of the Integrity Pact. b) Signature and stamp of the bidder in the Page-6 (last page) of Integrity Pact. c) Signature, Name and address of the Witness in the Page-6 (last page) of Integrity Pact.	<b>Yes / No</b>
<b>Differential Freight</b> (as per Tender Special Term S9).	<b>Yes / No</b>
<b>Undertaking that Bidder have read and understand all Drawings/QCP and other terms and conditions and comply the same.</b>	<b>Yes / No</b>

Authorized Signatory with seal

**(Annexure – R)****INTEGRITY PACT****Between**

Bharat Heavy Electricals Ltd. (BHEL), a company registered under the Companies Act 1956 and having its registered office at "BHEL House", Siri Fort, New Delhi - 110049 (India) hereinafter referred to as "The Principal", which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the ONE PART

**and**

\_\_\_\_\_, (description of the party along with address), hereinafter referred to as "The Bidder/ Contractor" which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the OTHER PART

**Preamble**

The Principal intends to award, under laid-down organizational procedures, contract/s for

**Tender enquiry no. 2425-052E dated 07.11.2024 for the 'Purchase of HSFG Fasteners, Plain Chamfered and DTI Washers'.**

(hereinafter referred to as "Contract"). The Principal values full compliance with all relevant laws of the land, rules and regulations, and the principles of economic use of resources, and of fairness and transparency in its relations with its Bidder(s)/ Contractor(s).

In order to achieve these goals, the Principal will appoint panel of Independent External Monitor(s) (IEMs), who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

**Section 1- Commitments of the Principal**

1.1 The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles: -

1.1.1 No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.

1.1.2 The Principal will, during the tender process treat all Bidder(s) with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential/ additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.

1.1.3 The Principal will exclude from the process all known prejudiced persons.

1.2 If the Principal obtains information on the conduct of any of its employees which is a penal offence under the Indian Penal Code 1860 and Prevention of Corruption Act 1988 or any other statutory

penal enactment, or if there be a substantive suspicion in this regard, the Principal will inform its Vigilance Office and in addition can initiate disciplinary actions.

## **Section 2 - Commitments of the Bidder(s)/ Contractor(s)**

2.1 The Bidder(s)/ Contractor(s) commit himself to take all measures necessary to prevent corruption. The Bidder(s)/ Contractor(s) commits himself to observe the following principles during participation in the tender process and during the contract execution.

2.1.1 The Bidder(s)/ Contractor(s) will not, directly or through any other person or firm, offer, promise or give to the Principal or to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material, immaterial or any other benefit which he/ she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.

2.1.2 The Bidder(s)/ Contractor(s) will not enter with other Bidder(s) into any illegal or undisclosed agreement or understanding, whether formal or informal. 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.

2.1.3 The Bidder(s)/ Contractor(s) will not commit any penal offence under the relevant Indian Penal Code (IPC) and Prevention of Corruption Act; further the Bidder(s)/ Contractor(s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.

2.1.4 Foreign Bidder(s)/ Contractor(s) shall disclose the name and address of agents and representatives in India and Indian Bidder(s)/ Contractor(s) to disclose their foreign principals or associates. The Bidder(s)/ Contractor(s) will, when presenting his bid, disclose any and all payments he has made, and is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.

2.2 The Bidder(s)/ Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.

2.3 The Bidder(s)/ Contractor(s) shall not approach the Courts while representing the matters to IEMs and shall await their decision in the matter.

## **Section 3 - Disqualification from tender process and exclusion from future contracts**

If the Bidder(s)/ Contractor(s), before award or during execution has committed a transgression through a violation of Section 2 above, or acts in any other manner such as to put his reliability or credibility in question, the Principal is entitled to disqualify the Bidder(s)/ Contractor(s) from the tender process, terminate the contract, if already awarded, exclude from future business dealings and/ or take action as per the separate "Guidelines on Banning of Business dealings with Suppliers/ Contractors", framed by the Principal.

**Section 4 - Compensation for Damages**

- 4.1 If the Principal has disqualified the Bidder (s) from the tender process before award / order acceptance according to Section 3, the Principal is entitled to demand and recover the damages equivalent to Earnest Money Deposit/ Bid Security.
- 4.2 If the Principal is entitled to terminate the Contract according to Section 3, or terminates the Contract in application of Section 3 above, the Bidder(s)/ Contractor (s) transgression through a violation of Section 2 above shall be construed breach of contract and the Principal shall be-entitled to demand and recover from the Contractor an amount equal to 5% of the contract value or the amount equivalent to Security Deposit/ Performance Bank Guarantee, whichever is higher, as damages, in addition to and without prejudice to its right to demand and recover compensation for any other loss or damages specified elsewhere in the contract.

**Section 5 - Previous Transgression**

- 5.1 The Bidder declares that no previous transgressions occurred in the last 3 (three) years with any other company in any country conforming to the anti-corruption approach or with any other Public Sector Enterprise in India that could justify his exclusion from the tender process.
- 5.2 If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason or action can be taken as per the separate "Guidelines on Banning of Business dealings with Suppliers/ Contractors", framed by the Principal.

**Section 6 - Equal treatment of all Bidder (s)/ Contractor (s) / Sub-contractor (s)**

- 6.1 The Principal will enter into Integrity Pacts with identical conditions as this Integrity Pact with all Bidders and Contractors.
- 6.2 In case of Sub-contracting, the Principal Contractor shall take the responsibility of the adoption of Integrity Pact by the Sub-contractor(s) and ensure that all Sub-contractors also sign the Integrity Pact.
- 6.3 The Principal will disqualify from the tender process all Bidders who do not sign this Integrity Pact or violate its provisions.

**Section 7 - Criminal Charges against violating Bidders/ Contractors /Subcontractors**

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the Vigilance Office.

**Section 8 -Independent External Monitor(s)**

- 8.1 The Principal appoints competent and credible panel of Independent External Monitor (s) (IEMs) for this Integrity Pact. The task of the IEMs is to review independently and objectively, whether and to what extent the parties comply with the obligations under this Integrity Pact.
- 8.2 The IEMs are not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the CMD, BHEL.
- 8.3 The IEMs shall be provided access to all documents/ records pertaining to the Contract, for which a complaint or issue is raised before them as and when warranted. However, the documents/records/information having National Security implications and those documents which have been classified as Secret/Top Secret are not to be disclosed.
- 8.4 The Principal will provide to the IEMs sufficient information about all meetings among the parties related to the Contract provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the IEMs the option to participate in such meetings.
- 8.5 The advisory role of IEMs is envisaged as that of a friend, philosopher and guide. The advice of IEMs would not be legally binding and it is restricted to resolving issues raised by a Bidder regarding any aspect of the tender which allegedly restricts competition or bias towards some Bidders. At the same time, it must be understood that IEMs are not consultants to the Management. Their role is independent in nature and the advice once tendered would not be subject to review at the request of the organization.
- 8.6 For ensuring the desired transparency and objectivity in dealing with the complaints arising out of any tendering process or during execution of Contract, the matter should be examined by the full panel of IEMs jointly, who would look into the records, conduct an investigation, and submit their joint recommendations to the Management.
- 8.7 The IEMs would examine all complaints received by them and give their recommendations/ views to the CMD, BHEL at the earliest. They may also send their report directly to the CVO, in case of suspicion of serious irregularities requiring legal/ administrative action. Only in case of very serious issue having a specific, verifiable Vigilance angle, the matter should be reported directly to the Commission. IEMs will tender their advice on the complaints within 30 days.
- 8.8 The CMD, BHEL shall decide the compensation to be paid to the IEMs and its terms and conditions.
- 8.9 IEMs should examine the process integrity, they are not expected to concern themselves with fixing of responsibility of officers. Complaints alleging mala fide on the part of any officer of the Principal should be looked into by the CVO of the Principal.
- 8.10 If the IEMs have reported to the CMD, BHEL, a substantiated suspicion of an offence under relevant Indian Penal Code / Prevention of Corruption Act, and the CMD, BHEL has not, within reasonable time, taken visible action to proceed against such offence or reported it to the Vigilance Office, the IEMs may also transmit this information directly to the Central Vigilance Commissioner, Government of India.



- 8.11 After award of work, the IEMs shall look into any issue relating to execution of Contract, if specifically raised before them. As an illustrative example, if a Contractor who has been awarded the Contract, during the execution of Contract, raises issue of delayed payment etc. before the IEMs, the same shall be examined by the panel of IEMs. Issues like warranty/ guarantee etc. shall be outside the purview of IEMs.
- 8.12 However, the IEMs may suggest systemic improvements to the management of the Principal, if considered necessary, to bring about transparency, equity and fairness in the system of procurement.
- 8.13 The word 'Monitor' would include both singular and plural.

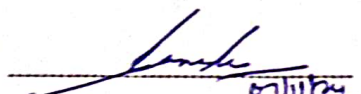
### **Section 9 - Pact Duration**

- 9.1 This Integrity Pact shall be operative from the date this Integrity Pact is signed by both the parties till the final completion of contract for successful Bidder, and for all other Bidders 6 months after the Contract has been awarded. Any violation of the same would entail disqualification of the bidders and exclusion from future business dealings.
- 9.2 If any claim is made/ lodged during currency of this Integrity Pact, the same shall be binding and continue to be valid despite the lapse of this Pact as specified above, unless it is discharged/ determined by the CMD, BHEL.

### **Section 10 - Other Provisions**

- 10.1 This Integrity Pact is subject to Indian Laws and exclusive jurisdiction shall be of the competent Courts as indicated in the Tender or Contract, as the case may be.
- 10.2 Changes and supplements as well as termination notices need to be made in writing.
- 10.3 If the Bidder(s)/ Contractor(s) is a partnership or a consortium or a joint venture, this Integrity Pact shall be signed by all partners of the partnership or joint venture or all consortium members.
- 10.4 Should one or several provisions of this Integrity Pact turn out to be invalid, the remainder of this Integrity Pact remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
- 10.5 Only those bidders / contractors who have entered into this Integrity Pact with the Principal would be competent to participate in the bidding. In other words, entering into this Integrity Pact would be a preliminary qualification.
- 10.6 In the event of any dispute between the Principal and Bidder(s)/ Contractor(s) relating to the Contract, in case, both the parties are agreeable, they may try to settle dispute through Mediation before the panel of IEMs in a time bound manner. In case, the dispute remains unresolved even after mediation by the panel of IEMs, either party may take further action as the terms & conditions of the Contract. The fees/expenses on dispute resolution through mediation shall be shared by both the parties. Further, the mediation proceedings shall be confidential in nature and the parties shall

keep confidential all matters relating to the mediation proceedings including any settlement agreement arrived at between the parties as outcome of mediation. Any views expressed, suggestions, admissions or proposals etc. made by either party in the course of mediation shall not be relied upon or introduced as evidence in any further arbitral or judicial proceedings, whether or not such proceedings relate to the dispute that is the subject of mediation proceedings. Neither of the parties shall present IEMs as witness in any Alternative Dispute Resolution or judicial proceedings in respect of the dispute that was subject of mediation.

  
For & On behalf of the Principal

Pranshu

Manager/MM

BHEL IVP Goindwal Sahib

प्रान्शु/PRANSHU

प्रमुख/Manager/मैटेरियल प्रबंधन

भारत हेवी इलेक्ट्रिकल्स लिमिटेड

BHARAT HEAVY ELECTRICALS LIMITED

भारत सरकार का उपक्रम/A Govt. of India Undertaking

इंडस्ट्रियल वैल्व प्लांट/433, Industrial Valves Plant,

(Office Seal) गोइन्दवाल/Goindwal, (Tarn Taran)

\_\_\_\_\_  
For & On behalf of the Bidder/ Contractor

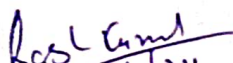
(Name &amp; Address)

(Office Seal)

Place: Goindwal Sahib

Date 07.11.2024

Witness: \_\_\_\_\_

  
07/11/24

Witness: \_\_\_\_\_

(Name &amp; Address)

राजेश कुमार/RAJESH KUMAR

सि.प्र. प्रबंधक/Sr. Manager

सामग्री प्रबंधन/Material Management

बी एच ई एल-आई पी बी-BHEL-IVP

गोइन्दवाल/Goindwal Sahib-143422

पंजाब तारन/Distt. Tarn Taran-(Punjab)

Rajesh Kumar

Sr. Manager / MM

Bharat Heavy Electricals Ltd

433, Industrial Complex

Industrial Valves Plant

Goindwal Sahib, Tarn Taran

Punjab - 143422

(Name &amp; Address) \_\_\_\_\_

**Tender Enquiry No. 2425-052E Dated 07.11.2024 Due date 18.11.2024**

**Tender Description: Purchase of HSFG Fasteners, Plain Chamfered and DTI Washers**

**(Annexure – T)**

**Applicable for Items at Sr. no. 1 to 10 only**

**List of Approved vendors for Adani Customer**

1. Nexo Fasteners, Ludhiana
2. Bharti Overseas, Ludhiana
3. Deepak Fasteners, Ludhiana
4. Sundaram Fasteners Ltd Padi, Chennai
5. Laxhmi Precision Screws Ltd. Rohtak, Haryana
6. Precision Taps & Dies Pvt Ltd Kalina, Mumbai
7. Garg Fasteners, Ludhiyana
8. Indian Steel and Wire Products Ltd. Jamshedpur
9. Multi Fasteners Vadodra Ahmedabad
10. Calcine Fasteners
11. Capital Bolts and Hardware
12. Haryana Fasteners
13. Hem Industries
14. Kay Pee Industries
15. Namdhari Industrial Traders Private Limited
16. Nexo Industries Limited
17. Pankaj International
18. Pioneer Nut and Bolts Pvt Ltd
19. Sartaj Industries
20. Shree Ambey Metal Industries
21. ASP Private Limited, Howrah

## PART-I (TECHNO-COMMERCIAL BID)

(To be filled by bidder & submit with offer as pdf file only)

Tender Enquiry No. & Date

2425-052E Dt. 07.11.2024

Tender Description

Purchase of HSFG Fasteners, Plain Chamfered and DTI Washers

Bidder must note following points:

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5. All the commercial terms and conditions shall be indicated by vendor in this format only and nowhere else in his quotation. However, in case the space for vendor's reply is not sufficient against a particular question, the vendor shall furnish same by way of separate annexure / sheet attached to this questionnaire, indicating cross-reference of respective clauses.

### BIDDER's DETAILS

Sr. No.	Elements		Remarks
1	Name of the Firm / Company		
2	Registered Address		
3	Quotation reference no. & date		
4	Contact person Details	Name / Designation	
		Contact Number	
		Email ID (can be more than one)	
5	Bidder Type (Indian / Foreign):		
6	Type of Ownership		Select from drop down list
7	Company's Nature of Business		Select from drop down list
8	Year of commencement of Business		
9	PAN No.		
10	GST No.		
11	Whether company is registered under MSMED Actr 2006 as Micro / Samll / Medium Enterprise category. (If yes, please attach valid certificate as per latest MSME guidelines)		Select from drop down list If yes, mention UDYAM registration number Here

### TECHNICAL CONDITION DETAIL

Sr. No.	Elements	Response	Deviation (if any)
1	Technical : Purchase of HSFG Fasteners, Plain Chamfered and DTI Washers as per tender documents (if selected 'Accepted with deviation', please mention the deviation clearly)	Select from drop down list	

### COMMERCIAL CONDITIONS & DETAILS

Sr. No.	Elements		Response	Remarks (if any)
1	GST / Taxes Applicable		Select from drop down list	
2	Validity	Validity of offer : 75 days from the actual date of techno-commercial (Part-I) bid opening. (Refer special terms S6)	Select from drop down list	
3	Delivery period: Total Delivery Period from date of PO/ LoI shall be 75 DAYS for Washers and 100 DAYS for Bolts and Nuts with staggered Delivery (refer tender special term S4).		Select from drop down list	

## PART-I (TECHNO-COMMERCIAL BID)

(To be filled by bidder & submit with offer as pdf file only)

**Tender Enquiry No. & Date**

**2425-052E Dt. 07.11.2024**

**Tender Description**

**Purchase of HSFG Fasteners, Plain Chamfered and DTI Washers**

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4	Delivery Destination	For all the 20 Items material to be supplied at BHEL Trichy Stores (refer tender special term S5)	Select from drop down list	
5	Unloading (refer tender special term S5)		Select from drop down list	
6	Self Declaration by Bidder : It is hereby declared that Bidder is 'manufacturer of Fasteners' (Refer special terms S2.a).		Select from drop down list	
7	In order to Qualify in Adani project items, i.e. Enquiry Sr. no. 1 to 10, Bidders shall be registered / approved / enlisted with Customer (Adani).(Refer special terms S2.b).		Select from drop down list	
8	Bidder should have minimum average turnover of Rs. [as mentioned in Table 3 of Special Terms S2.c] over three financial years viz. FY 2021-22, 2022-23 and 2023-24.  Bidder has to submit one or more purchase order/s of 'similar item' from any customer with minimum cumulative value of Rs. [as mentioned in Table 4 of Special Terms S2.d] along with the proof of execution	Group A: Enquiry Sr. no. 1 to 4 Adani Project – Bolts & Nuts	Select from drop down list (Not Participated)	Select from drop down list (Not Participated)
		Group B: Enquiry Sr. no. 5 to 10 Adani Project – Washers	Select from drop down list (Not Participated)	Select from drop down list (Not Participated)
		Group C: Enquiry Sr. no. 11 to 18 Non – Adani Project – Bolts & Nuts	Select from drop down list (Not Participated)	Select from drop down list (Not Participated)
		Group D: Enquiry Sr. no. 19 and 20 Non – Adani Project – Washers	Select from drop down list (Not Participated)	Select from drop down list (Not Participated)
		Regarding Special Terms S2.c : If bidder is quoting for more than one Group, then <b>minimum Turnover value</b> of bidder will be sum of the values mentioned corresponding to each Group.	Select from drop down list	
		Regarding Special Terms S2.d : If bidder is quoting for more than one Group, then minimum <b>Cumulative Value of PO along with corresponding value of proof of execution like invoice, etc.</b> , will be sum of the values mentioned corresponding to each Group.	Select from drop down list	
9	Confirmations of Special terms as per <b>Annexure-Q</b> (Refer special term S3.e)		Select from drop down list	
10	Packing of Material should be in Gunny bags and then in Wooden box (Refer special terms S13)		Select from drop down list	

## PART-I (TECHNO-COMMERCIAL BID)

(To be filled by bidder & submit with offer as pdf file only)

**Tender Enquiry No. & Date**

**2425-052E Dt. 07.11.2024**

**Tender Description**

**Purchase of HSFG Fasteners, Plain Chamfered and DTI Washers**

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11	Compliance to Integrity Pact. Bidder has to attach the undertaking along with offer as per <b>Annexure-R</b> (Refer special term S15 and S3.f)	Select from drop down list	
12	Performance Security (PS) : Applicable (Refer special term S 17) However, Performance Security per vendor for the PO(s) placed against this tender will be maximum upto Rs. 2.00 Lacs	Select from drop down list	
13	Breach of contract and Termination (Refer clause no. 5 of General Contract conditions (GCC))	Select from drop down list	
14	Conflict of Interest among Bidders / Agents (Refer clause no. 8 of General Contract conditions (GCC))	Select from drop down list	
15	LD clause: Penalty for late delivery will be applicable @ 0.5% per week or part thereof subject to a maximum of 10.0 %. (Refer special term S16 and Clause 12 of General Contract Conditions (GCC)).	Select from drop down list	
16	Payment term: (Refer clause no. 14 of General Contract conditions (GCC))	Select from drop down list	
17	<b>Warranty Period:</b> Supplier shall give a warrantee for a period of 18 months from the date of receipt. In case of non-acceptance of this term bid will be rejected. (Refer clause no. 19 of GCC)	Select from drop down list	
18	Please attach valid MSE certificate latest MSME Guidelines (Refer clause no. 26 of GCC)	Select from drop down list	
19	Make in India (MII) (Refer clause no. 27 of GCC)	Local Content Declaration	Select from drop down list
		Details of location at which local value addition will be made is as follows:	Select from drop down list
20	Certificate regarding Restrictions Under Rule 144(XI) of The GFR, 2017 (Refer clause no. 28 of GCC)	I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered.	Select from drop down list
21	Firm Price: The quoted / finalised rates shall be firm till execution of the supplies.	Select from drop down list	



**PART-I (TECHNO-COMMERCIAL BID)**

(To be filled by bidder &amp; submit with offer as pdf file only)

**Tender Enquiry No. & Date****2425-052E Dt. 07.11.2024****Tender Description****Purchase of HSFG Fasteners, Plain Chamfered and DTI Washers**

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22	I have thoroughly gone through the attached tender terms & conditions and understood the above techno-commercial requirements	Select from drop down list	
23	Rates quoted are net of taxes & FOR DESTINATION basis	Select from drop down list	
24	If there is any deviation in reference to any of the tender term, kindly mention it <b>HERE</b> only. <b>Deviation specified elsewhere, will not be considered.</b>	Select from drop down list	

**Item detail**

Item Sl. no.	Material Code	Description	Qty in No.	Quoted / not quoted	Delivery Destination
1	412420010000 - AP	HSFG BOLTS & NUTS M30X130 SSFIT-001 REV0 (Hot Dip Galvanised)	35,230	Select from drop down list	BHEL Trichy Stores
2	412420020000 - AP	HSFG BOLTS & NUTS M30X140 SSFIT-001 REV0 (Hot Dip Galvanised)	8,570	Select from drop down list	
3	412420040000 - AP	HSFG BOLTS & NUTS M36X230 SSFIT-001 REV0 (Hot Dip Galvanised)	26,910	Select from drop down list	
4	412420050000 - AP	HSFG BOLTS & NUTS M36X240 SSFIT-001 REV0 (Hot Dip Galvanised)	7,460	Select from drop down list	
5	414200070000 - AP	PLAIN CHAMFERED WASHER M30 SSFIT-001 (Hot Dip Galvanised)	54,860	Select from drop down list	
6	414200003600 - AP	PLAIN CHAMFERED WASHER M36 SSFIT-001 (Hot Dip Galvanised)	43,710	Select from drop down list	
7	414200010000 - AP	DTI WASHER M20 8.8	2,000	Select from drop down list	
8	414200040000 - AP	DTI WASHER M24 10.9	9,00,000	Select from drop down list	
9	414200050000 - AP	DTI WASHER M30 10.9	60,000	Select from drop down list	
10	414200060000 - AP	DTI WASHER M36 10.9	50,000	Select from drop down list	
11	412420010000	HSFG BOLTS & NUTS M30X130 SSFIT-001 REV0 (Hot Dip Galvanised)	49,770	Select from drop down list	
12	412420020000	HSFG BOLTS & NUTS M30X140 SSFIT-001 REV0 (Hot Dip Galvanised)	11,430	Select from drop down list	
13	412420030000	HSFG BOLTS & NUTS M30X150 SSFIT-001 REV0 (Hot Dip Galvanised)	6,000	Select from drop down list	
14	412420040000	HSFG BOLTS & NUTS M36X230 SSFIT-001 REV0 (Hot Dip Galvanised)	23,090	Select from drop down list	
15	412420050000	HSFG BOLTS & NUTS M36X240 SSFIT-001 REV0 (Hot Dip Galvanised)	17,540	Select from drop down list	
16	412420060000	HSFG BOLTS & NUTS M36X250 SSFIT-001 REV0 (Hot Dip Galvanised)	10,000	Select from drop down list	
17	412420070000	HSFG BOLTS & NUTS M36X260 SSFIT-001 REV0 (Hot Dip Galvanised)	6,000	Select from drop down list	

## PART-I (TECHNO-COMMERCIAL BID)

(To be filled by bidder & submit with offer as pdf file only)

Tender Enquiry No. & Date

2425-052E Dt. 07.11.2024

Tender Description

Purchase of HSFG Fasteners, Plain Chamfered and DTI Washers

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18	412420080000	HSFG BOLTS & NUTS M36X280 SSFIT-001 REV0 (Hot Dip Galvanised)	10,000	Select from drop down list
19	414200070000	PLAIN CHAMFERED WASHER M30 SSFIT-001 (Hot Dip Galvanised)	1,25,140	Select from drop down list
20	414200003600	PLAIN CHAMFERED WASHERM36 SSFIT-001 (Hot Dip Galvanised)	1,36,290	Select from drop down list

We further, confirm that we have quoted the rates in the tender considering Inter-alia the

1. Tender Document(s)
2. Additional Document(s) (if any)
3. BOQ Document (Price Bid Format-Part-II)
4. Corrigendum (if any)
5. Pre Bid Meeting Minutes (if any)

We hereby certify that we have fully read and thoroughly understood the tender requirements and accept all terms and conditions of the tender including all corrigendum/addendum issued (if any). Our offer is in confirmation to all the terms and conditions of the tender including all corrigendum/addendum (if any) and minutes of the pre-bid meeting (if any). In the event our offer is found acceptable and Order is placed /Contract is awarded to us, the complete tender document shall be considered for constitution of Order / Contract Agreement.

Validate		Print		Help		<u>Item Wise BoQ</u>	
Tender Inviting Authority: BHEL IVP Goindwal Sahib							
Name of Work: Purchase of HSFG Fasteners, Plain Chamfered and DTI Washers							
Contract No: 2425-052E dated 07.11.2024							
Name of the Bidder/ Bidding Firm / Company :							
<p align="center"><b>PRICE SCHEDULE</b></p> <p align="center">(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only )</p>							
NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description [Delivery Destination as BHEL Trichy]	Item Code / Make	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder in Rs. /No.	TOTAL AMOUNT excluding taxes in Rs. P	TOTAL AMOUNT In Words
1	2	3	4	5	7	11	13
1	HSFG BOLTS & NUTS M30X130 SSFIT-001 REV0 (Hot Dip Galvanised)	412420010000 - AP	35230	Number		0.00	INR Zero Only
2	HSFG BOLTS & NUTS M30X140 SSFIT-001 REV0 (Hot Dip Galvanised)	412420020000 - AP	8570	Number		0.00	INR Zero Only
3	HSFG BOLTS & NUTS M36X230 SSFIT-001 REV0 (Hot Dip Galvanised)	412420040000 - AP	26910	Number		0.00	INR Zero Only
4	HSFG BOLTS & NUTS M36X240 SSFIT-001 REV0 (Hot Dip Galvanised)	412420050000 - AP	7460	Number		0.00	INR Zero Only
5	PLAIN CHAMFERED WASHER M30 SSFIT-001 (Hot Dip Galvanised)	414200070000 - AP	54860	Number		0.00	INR Zero Only
6	PLAIN CHAMFERED WASHERM36 SSFIT-001 (Hot Dip Galvanised)	414200003600 - AP	43710	Number		0.00	INR Zero Only
7	DTI WASHER M20 8.8	414200010000 - AP	2000	Number		0.00	INR Zero Only
8	DTI WASHER M24 10.9	414200040000 - AP	900000	Number		0.00	INR Zero Only
9	DTI WASHER M30 10.9	414200050000 - AP	60000	Number		0.00	INR Zero Only
10	DTI WASHER M36 10.9	414200060000 - AP	50000	Number		0.00	INR Zero Only
11	HSFG BOLTS & NUTS M30X130 SSFIT-001 REV0 (Hot Dip Galvanised)	412420010000	49770	Number		0.00	INR Zero Only
12	HSFG BOLTS & NUTS M30X140 SSFIT-001 REV0 (Hot Dip Galvanised)	412420020000	11430	Number		0.00	INR Zero Only
13	HSFG BOLTS & NUTS M30X150 SSFIT-001 REV0 (Hot Dip Galvanised)	412420030000	6000	Number		0.00	INR Zero Only
14	HSFG BOLTS & NUTS M36X230 SSFIT-001 REV0 (Hot Dip Galvanised)	412420040000	23090	Number		0.00	INR Zero Only
15	HSFG BOLTS & NUTS M36X240 SSFIT-001 REV0 (Hot Dip Galvanised)	412420050000	17540	Number		0.00	INR Zero Only
16	HSFG BOLTS & NUTS M36X250 SSFIT-001 REV0 (Hot Dip Galvanised)	412420060000	10000	Number		0.00	INR Zero Only
17	HSFG BOLTS & NUTS M36X260 SSFIT-001 REV0 (Hot Dip Galvanised)	412420070000	6000	Number		0.00	INR Zero Only
18	HSFG BOLTS & NUTS M36X280 SSFIT-001 REV0 (Hot Dip Galvanised)	412420080000	10000	Number		0.00	INR Zero Only
19	PLAIN CHAMFERED WASHER M30 SSFIT-001 (Hot Dip Galvanised)	414200070000	125140	Number		0.00	INR Zero Only
20	PLAIN CHAMFERED WASHERM36 SSFIT-001 (Hot Dip Galvanised)	414200003600	136290	Number		0.00	INR Zero Only

## TECHNICAL DOCUMENTS

**Table 1 : List of Items along with Quantity; Technical Specifications and Drawing Number**

Sl. no.	Material Code	Description	Quantity (Nos.)	MSE Reserved Items	TDC / Specifications	Drawing No.
1	412420010000 - AP	HSFG BOLTS & NUTS M30X130 SSFIT-001 REV0 <b>(Hot Dip Galvanised)</b>	35,230	--	SSFIT-001 REV 0	--
2	412420020000 - AP	HSFG BOLTS & NUTS M30X140 SSFIT-001 REV0 <b>(Hot Dip Galvanised)</b>	8,570	--	SSFIT-001 REV 0	--
3	412420040000 - AP	HSFG BOLTS & NUTS M36X230 SSFIT-001 REV0 <b>(Hot Dip Galvanised)</b>	26,910	--	SSFIT-001 REV 0	--
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5	414200070000 - AP	PLAIN CHAMFERED WASHER M30 SSFIT-001 <b>(Hot Dip Galvanised)</b>	54,860	Reserved for MSE	SSFIT-001 REV 0	--
6	414200003600 - AP	PLAIN CHAMFERED WASHERM36 SSFIT-001 <b>(Hot Dip Galvanised)</b>	43,710	Reserved for MSE	SSFIT-001 REV 0	--
7	414200010000 - AP	DTI WASHER M20 8.8	2,000	Reserved for MSE	EN 14399_9	2-35-700- 59474 Rev 00
8	414200040000 - AP	DTI WASHER M24 10.9	9,00,000	Reserved for MSE	EN 14399_9	2-35-700- 59474 Rev 00
9	414200050000 - AP	DTI WASHER M30 10.9	60,000	Reserved for MSE	EN 14399_9	2-35-700- 59474 Rev 00
10	414200060000 - AP	DTI WASHER M36 10.9	50,000	Reserved for MSE	EN 14399_9	2-35-700- 59474 Rev 00
11	412420010000	HSFG BOLTS & NUTS M30X130 SSFIT-001 REV0 <b>(Hot Dip Galvanised)</b>	49,770	--	SSFIT-001 REV 0	--
12	412420020000	HSFG BOLTS & NUTS M30X140 SSFIT-001 REV0 <b>(Hot Dip Galvanised)</b>	11,430	--	SSFIT-001 REV 0	--
13	412420030000	HSFG BOLTS & NUTS M30X150 SSFIT-001 REV0 <b>(Hot Dip Galvanised)</b>	6,000	--	SSFIT-001 REV 0	--
14	412420040000	HSFG BOLTS & NUTS M36X230 SSFIT-001 REV0 <b>(Hot Dip Galvanised)</b>	23,090	--	SSFIT-001 REV 0	--
15	412420050000	HSFG BOLTS & NUTS M36X240 SSFIT-001 REV0 <b>(Hot Dip Galvanised)</b>	17,540	--	SSFIT-001 REV 0	--
16	412420060000	HSFG BOLTS & NUTS M36X250 SSFIT-001 REV0 <b>(Hot Dip Galvanised)</b>	10,000	--	SSFIT-001 REV 0	--
17	412420070000	HSFG BOLTS & NUTS M36X260 SSFIT-001 REV0 <b>(Hot Dip Galvanised)</b>	6,000	--	SSFIT-001 REV 0	--
18	412420080000	HSFG BOLTS & NUTS M36X280 SSFIT-001 REV0 <b>(Hot Dip Galvanised)</b>	10,000	--	SSFIT-001 REV 0	--
19	414200070000	PLAIN CHAMFERED WASHER M30 SSFIT-001 <b>(Hot Dip Galvanised)</b>	1,25,140	Reserved for MSE	SSFIT-001 REV 0	--

20	414200003600	PLAIN CHAMFERED WASHERM36 SSFIT-001 (Hot Dip Galvanised)	1,36,290	Reserved for MSE	SSFIT-001 REV 0	--
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**Table 2 : Technical information For Fit bolt sizes not available in document SSFIT-001 Rev.0**

Size	$l_{nom.}$	b	$y_{max.}$	$l_{g \max.}$ and $l_{s \min.}$	Remarks
M30	140 /150	44	11.5	$l_{g \max.} = l_{nom.} - b$ $l_{s \min.} = l_{g \max.} - y_{max.}$	Refer Note-e, f of Table-1 of SSFIT-001 Rev.0
M36	230 / 240/ 250/ 260 / 280	52	13.0		

**Additional Information in reference to the Table 1 and 2 above:**

- A. Delivery Destination for all the items as mentioned in Table 1 is BHEL Trichy Stores.
- B. For items at Sr. no. 1 to 10: In material Code column of the above Table 1: 'AP' symbolizes the material belongs to Projects of Adani Power Projects. For these items, items at Sr. 1 to 10, Items to be procured from **Customer approved vendors only**.
- C. For all the items Except DTI Washers, items to be supplied as Hot Dip Galvanised. DTI stands for Direct Tension Indicator.
- D. Rust preventive oil coating is to be applied as follows: -
  1. SS FIT Bolts- For Hot dip Galvanized SS FIT Bolts, rust preventive oil is not applicable. However, if rethreading of nuts is being done after galvanising, then rust preventive oil on internal threads of nuts is required.
  2. SS FIT Washers- For Hot dip Galvanized SS FIT washer, rust preventive oil is not applicable.
  3. DTI washer- Rust preventive oil is applicable

Wherever Applicable, this rust preventive oil coating to be done as per attached specification with document reference no. PR:CHEM:09-04 Rev 03 dated 01.04.2009.
- E. Washers of All types i.e. Item at Sr. no. 5 to 10, 19 and 20 are **ARE RESERVED FOR MSE MANUFACTURERS ONLY. In case, no response is received from MSE bidder(s) for these items, then procurement will be made from Non-MSE bidder(s).**
- F. "I number" of HSFG Quantity = 1 Bolt + 1 Nut.
- G. Bolts, Nuts and Plain Chamfered Washers are to be supplied as per Specification document 'SSFIT-001 REV 0'.
- H. DTI Washers are to be supplied as per EN 14399\_9 and Drawing no. 2-35-700-59474 Rev 00. Applicable Quality Plan for DTI Washers is SQP:DTI:001 dated 05.01.2024.
- I. Applicable 'Standard Quality Plan' for HSFG Fit Bolts, Nuts and Washers is SQP: HSFG:01 Rev: 00 dated 28.09.2020.
- J. **Minimum 50% and 20% Local Content is required for qualifying as Class 1 and Class 2 Local Supplier respectively.**

**BHARAT HEAVY ELECTRICALS LIMITED  
TIRUCHIRAPPALLI-620 014**

**SUPPORTING STRUCTURES/PE(FB)**



**Title Sheet**

**Specification for**

**HEXAGON FIT BOLT, NUT ASSEMBLIES AND PLAIN CHAMFERED  
WASHERS**

**Specification Number: SSFIT-001**

**Revision No. : 00**

Rev. No.	Revision Date	Revision statement	Checked & Approved

	<i>Name</i>	<i>Signature</i>	<i>Date</i>
Prepared	HARIKRISHNA.T		04-06-2015
Checked	D.VISWANATHAN		05-06-2015
Approved	N.MURUGAN		06-06-2015

# HEXAGON FIT BOLT, NUT ASSEMBLIES AND PLAIN CHAMFERED WASHERS

## 1.0 SCOPE

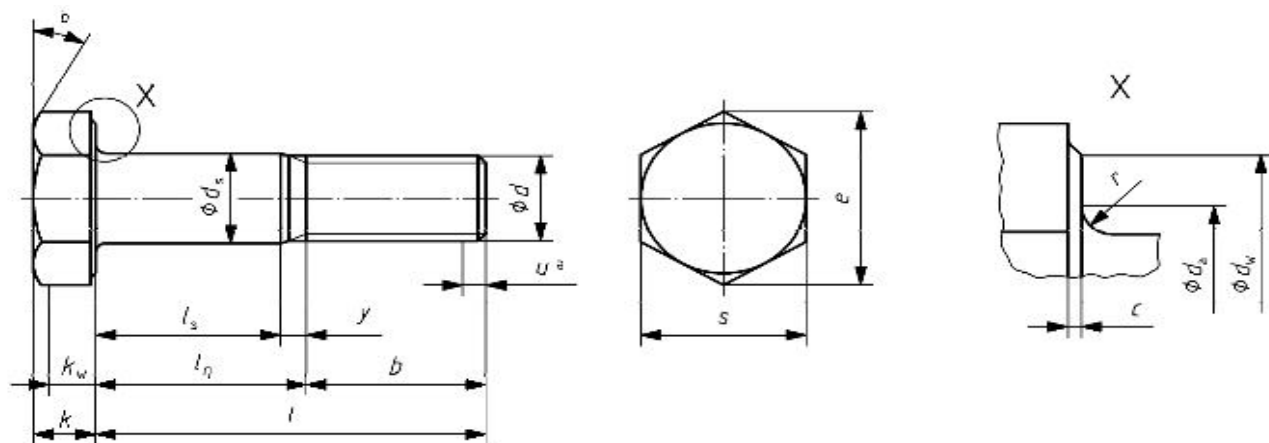
Covers the requirements of Hexagon fit bolt, Nut and Plain chamfered washer.

## 2.0 REFERRED STANDARD FOR HEXAGON FIT BOLT (CURRENT VERSION IS APPLICABLE)

BS EN 14399-8: 2007 High-strength structural bolting assemblies for preloading – Part 8: System HV – Hexagon fit bolt and nut assemblies

## 2.1 DIMENSIONS OF FIT BOLTS

Dimensions see Figure 1 and Table 1, clamp length see Figure 2 and Table 2.



- a incomplete thread  $u \leq 2P$   
b  $15^\circ$  to  $30^\circ$

Figure 1 — Dimensions of fit bolts

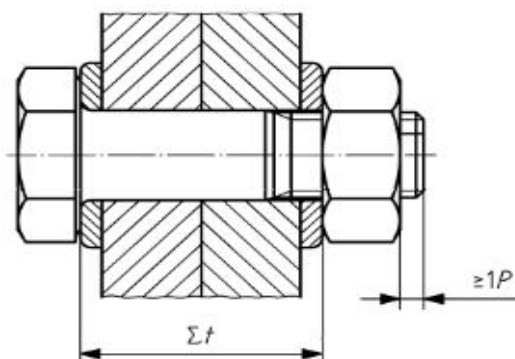


Figure 2 — Clamp length  $\Sigma t$



**Table 1 --- Dimensions of fit bolts <sup>a</sup>**

Dimensions in millimetres									
Thread <i>d</i>		M12	M16	M20	M22	M24	M27	M30	M36
<i>p<sup>b</sup></i>		1,75	2	2,5	2,5	3	3	3,5	4
<i>b</i>	(ref.)	23	28	33	34	39	41	44	52
<i>c</i>	min.	0,4	0,4	0,4	0,4	0,4	0,4	0,4	0,4
	max.	0,6	0,6	0,8	0,8	0,8	0,8	0,8	0,8
<i>d<sub>a</sub></i>	max.	15,2	19,2	24	26	28	32	35	41
<i>d<sub>s</sub></i>	nom.	13	17	21	23	25	28	31	37
	min. <sup>c</sup>	12,74	16,74	20,71	22,71	24,71	27,71	30,67	36,67
	max. <sup>c</sup>	12,85	16,85	20,84	22,84	24,84	27,84	30,83	36,83
<i>d<sub>w</sub></i>	min.	20,1	24,9	29,5	33,3	38,0	42,8	46,6	55,9
	max.	d	d	d	d	d	d	d	d
<i>e</i>	min.	23,91	29,56	35,03	39,55	45,20	50,85	55,37	66,44
<i>k</i>	nom.	8	10	13	14	15	17	19	23
	min.	7,55	9,25	12,1	13,1	14,1	16,1	17,95	21,95
	max.	8,45	10,75	13,9	14,9	15,9	17,9	20,05	24,05
<i>k<sub>w</sub></i>	min.	5,28	6,47	8,47	9,17	9,87	11,27	12,56	15,36
<i>r</i>	min.	1,2	1,2	1,5	1,5	1,5	2	2	2
<i>s</i>	max.	22	27	32	36	41	46	50	60
	min.	21,16	26,16	31	35	40	45	49	58,8
<i>y</i>	max.	6,5	7,5	8,5	8,5	10,0	10,0	11,5	13,0

**Table 1** (continued)

Dimensions in millimeters

Tread $d$			M12	M16	M20	M22	M24	M27	M30	M36								
$l$			$l_s^f$ and $l_g^e$															
nom.	min.	max.	$l_s$ min.	$l_g$ max	$l_s$ min.	$l_g$ max.	$l_s$ min.	$l_g$ max.	$l_s$ min.	$l_g$ max.	$l_s$ min.	$l_g$ max.	$l_s$ min.	$l_g$ max.	$l_s$ min.	$l_g$ max.	$l_s$ min.	$l_g$ max.
50	48,75	51,25	20,5	27														
55	53,5	56,5	25,5	32														
60	58,5	61,5	30,5	37														
65	63,5	66,5	35,5	42	29,5	37												
70	68,5	71,5	40,5	47	34,5	42												
75	73,5	76,5	45,5	52	39,5	47	33,5	42										
80	78,5	81,5	50,5	57	44,5	52	38,5	47	37,5	46								
85	83,25	86,75	55,5	62	49,5	57	43,5	52	42,5	51								
90	88,25	91,75	60,5	67	54,5	62	48,5	57	47,5	56	41	51						
95	93,25	96,75	65,5	72	59,5	67	53,5	62	52,5	61	46	56	44	54			30	43
100	98,25	101,75			64,5	72	58,5	67	57,5	66	51	61	49	59			35	48
105	103,25	106,75			69,5	77	63,5	72	62,5	71	56	66	54	64	49,5	61	40	53
110	108,25	111,75			74,5	82	68,5	77	67,5	76	61	71	59	69	54,5	66		
115	113,25	116,75			79,5	87	73,5	82	72,5	81	66	76	64	74	59,5	71		
120	118,25	121,75			84,5	92	78,5	87	77,5	86	71	81	69	79	64,5	76		
125	123	127			89,5	97	83,5	92	82,5	91	76	86	74	84	69,5	81	60	73
130	128	132					88,5	97	87,5	96	81	91	79	89	74,5	86	65	78

NOTE The popular lengths are defined in terms of lengths  $l_{s \text{ min}}$  and  $l_{g \text{ max}}$ .

<sup>a</sup> For hot-dip galvanized bolts, the dimensions apply before galvanizing.

<sup>b</sup>  $P$  is the pitch of thread.

<sup>c</sup> Corresponding to tolerance class b11.

<sup>d</sup>  $d_w \text{ max.} = S_{\text{actual}}$

<sup>e</sup>  $l_{g \text{ max.}} = l_{\text{nom.}} - b$

<sup>f</sup>  $l_{s \text{ min.}} = l_{g \text{ max.}} - y_{\text{max}}$

**Table 2 – Clamp length  $\sum t$  <sup>a</sup>**

Dimension in millimeters

Tread d			M12		M16		M20		M22		M24		M27		M30		M36	
$l$			$\sum t_{\min}^b$ and $\sum t_{\max}^c$															
nom.	min.	max.	min.	max	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.
50	48,75	51,25	31	36														
55	53,5	56,5	36	41														
60	58,5	61,5	41	46														
65	63,5	66,5	46	51	42	47												
70	68,5	71,5	51	56	47	52												
75	73,5	76,5	56	61	52	57	48	53										
80	78,5	81,5	61	66	57	62	53	58	52	57								
85	83,25	86,75	66	71	62	67	58	63	57	62								
90	88,25	91,75	71	76	67	72	63	68	62	67	59	64						
95	93,25	96,75	76	81	72	77	68	73	67	72	64	69	61	66			51	60
100	98,25	101,75			77	82	73	78	72	77	69	74	66	71			56	65
105	103,25	106,75			82	87	78	83	77	82	74	79	71	76	69	74	61	70
110	108,25	111,75			87	92	83	88	82	87	79	84	76	81	74	79		
115	113,25	116,75			92	97	88	93	87	92	84	89	81	86	79	84		
120	118,25	121,75			97	102	93	98	92	97	89	94	86	91	84	89		
125	123	127			102	107	98	103	97	102	94	99	91	96	89	94	83	88
130	128	132					103	108	102	107	99	104	96	101	94	99	88	93

NOTE The popular lengths are defined in terms of lengths  $\sum t_{\min}$  and  $\sum t_{\max}$ .

<sup>a</sup> For proper function of the proloaded bolted joint the following condition for the clamp length  $\sum t$  shall be fulfilled:

$(l_{g \max} + 2P) < \sum t < (l_{\min} - P - m_{\max})$ , where  $P$  is the pitch of thread and  $m_{\max}$  is the maximum nut height according to Table 5.

The values of  $\sum t_{\min}$  and  $\sum t_{\max}$  specified in Table 3 are within this range.

The  $\sum t_{\max}$  values are specified on the condition that the minimum bolt protrusion beyond the unloaded nut face shall be 1  $P$ .

## 2.2 SPECIFICATION FOR BOLTS AND REFERENCE STANDARDS

Hexagon fit bolt shall be hot dip galvanized.

**Table 3 --- Specifications for bolts and reference standards**

<b>Material</b>		Steel
<b>General requirements</b>		EN 14399-1 <sup>a</sup>
<b>Thread</b>	Tolerance	6g <sup>b</sup>
	International Standards	ISO 261, ISO 965-2
<b>Mechanical properties</b>	Property class	10.9
	European Standard	EN ISO 898-1
<b>Impact strength</b>	Value	$K_{V,min} = 27 \text{ J at } -20^{\circ}\text{C}$
	Test specimen <sup>c</sup>	ISO 148-1
	Test	EN 10045-1
<b>Tolerances</b>	Product grade	C except: dimension $c$  Tolerance for lengths $\geq 155 \text{ mm}$ : $^{+IT17}_{-0,5IT17}$
	International Standard	EN ISO 4759-1
<b>Surface finish<sup>d</sup></b>	normal	as processed <sup>e</sup>
	hot dip galvanized	EN ISO 10684
	others	to be agreed <sup>f</sup>
<b>Surface discontinuities</b>		Limits for surface discontinuities are covered in EN 26157-1.
<b>Acceptability</b>		For acceptance procedure, see EN ISO 3269.
<p><sup>a</sup> For the time being EN 14399-1 refers only to EN 14399-3 and EN 14399-4 as far as dimensions and mechanical characteristics of the components and functional characteristics of the assemblies are concerned. Such references shall also apply to EN 14399-8.</p> <p><sup>b</sup> The tolerance class specified applies without surface finish. Hot-dip galvanized bolts are intended for assembly with oversize tapped nuts.</p> <p><sup>c</sup> The preparation of the test specimens with V-notch in the fastener shall be as specified in EN ISO 898-1.</p> <p><sup>d</sup> Attention is drawn to the need to consider the risk of hydrogen embrittlement in the case of bolts of property class 10.9, when selecting an appropriate surface treatment process (e.g. cleaning and coating), see the relevant coating standards.</p> <p><sup>e</sup> "As processed" means the normal finish resulting from manufacture with a light coating of oil.</p> <p><sup>f</sup> Other coatings may be negotiated between the purchaser and the manufacturer provided they do not impair the mechanical properties or the functional characteristics. Coatings of cadmium or cadmium alloys are not permitted.</p>		

## 2.3 MARKING OF HEXAGON FIT BOLTS

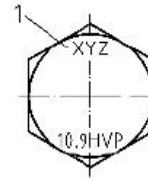
High-strength structural bolts according to this specification shall be marked with:

- a) Property class marking in accordance with EN ISO 898-1 and the letters HVP.

EXAMPLE 1      10.9 HVP

- b) The identification mark of the manufacturer of the assembly.  
It is permissible for the marking to be either embossed or indented on the top surface of the head.

EXAMPLE 2 of bolt marking (see Figure 3):



**Key**

1 identification mark of the manufacturers of the assembly

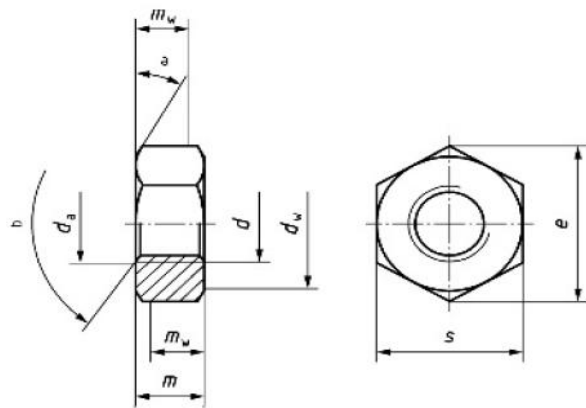
**Figure 3 — Example for marking of a bolt**

### 3.0 REFERRED STANDARD FOR NUT ASSEMBLIES (CURRENT VERSION IS APPLICABLE)

BS EN 14399-4: 2015 High-strength structural bolting assemblies for preloading – Part 4: System HV – Hexagon bolt and nut assemblies.

#### 3.1 DIMENSIONS OF NUTS

Dimensions see Figure 4 and Table 4.



**Key**

a 15° to 30°

b 110° to 130°

**Figure 4 --- Dimensions of nuts**

**Table 4 --- Dimensions of nuts <sup>a</sup>**

Dimensions in millimetres									
Thread ( <i>d</i> )		M12	M16	M20	M22	M24	M27	M30	M36
<i>P</i> <sup>a</sup>		1,75	2	2,5	2,5	3	3	3,5	4
<i>d<sub>a</sub></i>	max.	13,0	17,3	21,6	23,7	25,9	29,1	32,4	38,9
	min.	12	16	20	22	24	27	30	36
<i>d<sub>w</sub></i>	max.	<sup>b</sup>	<sup>b</sup>	<sup>b</sup>	<sup>b</sup>	<sup>b</sup>	<sup>b</sup>	<sup>b</sup>	<sup>b</sup>
	min.	20,1	24,9	29,5	33,3	38,0	42,8	46,6	55,9
<i>e</i>	min.	23,91	29,56	35,03	39,55	45,20	50,85	55,37	66,44
<i>m</i>	nom. = <i>m</i> ax.	10	13	16	18	20	22	24	29
	min.	9,64	12,30	14,90	16,90	18,70	20,70	22,70	27,70
<i>m<sub>w</sub></i>	min.	7,71	9,84	11,92	13,52	14,96	16,56	18,16	22,16
<i>s</i>	max.	22	27	32	36	41	46	50	60
	min.	21,16	26,16	31,00	35,00	40,00	45,00	49,00	58,80
<sup>a</sup> <i>P</i> is the pitch of thread. <sup>b</sup> <i>d<sub>w,max</sub></i> = <i>s<sub>actual</sub></i>									

### 3.2 SPECIFICATION FOR NUTS AND REFERENCE STANDARDS

Nut assemblies shall be hot dip galvanized.

**Table 5 --- Specification for nuts and reference standards**

Material		Steel		
General requirements		EN 14399-1 and EN 14399-2		
Thread	Coating of the bolt	Uncoated	Hot dip galvanized	Others
	Tolerance class of the nut	6H	6AZ	6H <sup>a</sup>
	International Standards	ISO 261, ISO 965-2	ISO 261, ISO 965-5	ISO 261, ISO 965-2, ISO 965-5
Mechanical properties	Property class	10		
	European Standard	EN ISO 898-2		
Tolerances	Product grade	B		
	European Standard	EN ISO 4759-1		
Finish — Coating	Uncoated	As processed <sup>b</sup>		
	Hot dip galvanized	EN ISO 10684		
	Others	to be agreed <sup>c</sup>		
Surface integrity		Limits for surface discontinuities as specified in EN ISO 6157-2.		
Acceptability		For acceptance procedure, see EN ISO 3269.		

<sup>a</sup> For other coatings that need an increased fundamental deviation and according to the relevant standard, oversize tapped nuts with a thread tolerance class up to 6AZ may be used.

<sup>b</sup> “As processed” means the normal finish resulting from manufacture with a light coating of oil.

<sup>c</sup> Other coatings may be negotiated between the purchaser and the manufacturer provided they do not impair the mechanical properties or the functional characteristics. Coatings of cadmium or cadmium alloys are not permitted.

### 3.3 DECARBURIZATION OF THE NUT THREAD

The decarburization of the nut thread, when measured in analogy to external threads as given in EN ISO 898-1, shall not exceed  $G = 0,015\text{mm}$ .

### 3.4 MARKING OF NUTS

High-strength structural nuts according to this specification shall be marked with:

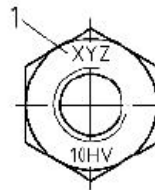
- a) Property class marking in accordance with EN 20898-2 and the letters HV.

EXAMPLE 1      10 HV

- b) The identification mark of the manufacturer of the assembly.

The marking shall be indented on either bearing face.

EXAMPLE 2      of nut marking (see Figure 5):



**Key**

1 identification mark of the manufacturer of the assembly

**Figure 5 — Example for marking of a nut**

## 4 DESIGNATION OF THE FIT BOLT / NUT ASSEMBLY

EXAMPLE 1      Designation of an assembly for high strength structural bolting, system HV, consisting of a hexagon fit bolt with large width across flats, with thread M16, nominal length  $l = 80\text{ mm}$  and property class 10.9 and a hexagon nut with large width across flats, with thread M16 and property class 10:

**Hexagon fit bolt/nut assembly EN 14399-8 --- M16 x 80 --- 10.9/10 --- HVP**

If surface finishes other than “as processed” are required, the specified surface finish shall be added to the designation.

EXAMPLE 2      Designation of a hexagon fit bolt with large width across flats, with thread M16, nominal length  $l = 80\text{ mm}$  and property class 10.9:

**Hexagon fit bolt EN 14399-8 --- M16 x 80 --- 10.9 --- HVP**

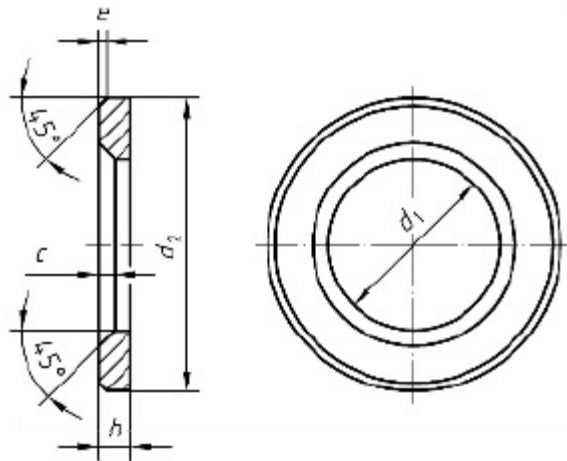


**5 REFERRED STANDARD FOR PLAIN CHAMFERED WASHERS (CURRENT VERSION IS APPLICABLE)**

BS EN 14399-6: 2015 High-strength structural bolting assemblies for preloading – Part 6:  
Plain chamfered washers

## 5.1 DIMENSIONS OF PLAIN CHAMFERED WASHERS

Dimensions see Figure 6 and Table 6.



### Figure 6 --- Dimensions

For coated washers the above dimensions apply prior to coating.

### Table 6 --- Dimensions

Dimensions in millimetres

<b>Nominal size</b>		<b>12</b>	<b>(14)<sup>a</sup></b>	<b>16</b>	<b>(18)<sup>a</sup></b>	<b>20</b>	<b>22</b>	<b>24</b>	<b>27</b>	<b>30</b>	<b>36</b>
<i>d</i>	(nominal thread diameter of associated bolts)										
<i>d</i> <sub>1</sub>	min.	13	15	17	19	21	23	25	28	31	37
	max.	13,27	15,27	17,27	19,33	21,33	23,33	25,33	28,52	31,62	37,62
<i>d</i> <sub>2</sub>	min.	23,48	27,48	29,48	33,38	36,38	38,38	43,38	49,00	54,80	64,80
	max.	24	28	30	34	37	39	44	50	56	66
<i>h</i>	nom.	3	3	4	4	4	4	4	5	5	6
	min.	2,7	2,7	3,7	3,7	3,7	3,7	3,7	4,4	4,4	5,4
	max.	3,3	3,3	4,3	4,3	4,3	4,3	4,3	5,6	5,6	6,6
<i>e</i>	nom. = min.	0,5	0,5	0,75	0,75	0,75	0,75	0,75	1	1	1,25
	max.	1,0	1,0	1,5	1,5	1,5	1,5	1,5	2,0	2,0	2,5
<i>c</i>	min.	1,6	1,6	1,6	2,0	2,0	2,0	2,0	2,5	2,5	2,5
	max.	1,9	1,9	1,9	2,5	2,5	2,5	2,5	3,0	3,0	3,0

<sup>a</sup> Sizes in brackets are non-preferred sizes.

## 5.2 SPECIFICATION AND REFERENCE STANDARDS FOR PLAIN CHAMFERED WASHERS

Plain chamfered washers shall be hot dip galvanized.

**Table 7 --- Specification and reference standards for plain chamfered washers**

Material	Steel	
General requirements	EN 14399-1 and EN 14399-2	
Mechanical properties	Hardness range	300 HV to 370 HV
Tolerances	Product grade	A
	European Standard	EN ISO 4759-3
Finish — Coating <sup>a</sup>	Unccated	as processed <sup>b</sup>
	Hot dip galvanized	EN ISO 10684
	Others	to be agreed <sup>c</sup>
Workmanship	Parts shall be uniform and free of irregularities or detrimental defects. No protruding burrs shall appear on the washer.	
Acceptability	For acceptance procedure, see EN ISO 3269.	

<sup>a</sup> Attention is drawn to the need to consider the risk of hydrogen embrittlement when selecting an appropriate surface treatment process (e.g. cleaning and coating), see the relevant coating standards.

<sup>b</sup> "As processed" means the normal finish resulting from heat treatment with a light coating of oil.

<sup>c</sup> Other coatings may be negotiated between the purchaser and the manufacturer provided they do not impair the mechanical properties or the functional characteristics. Coatings of cadmium or cadmium alloys are not permitted.

## 5.3 DESIGNATION

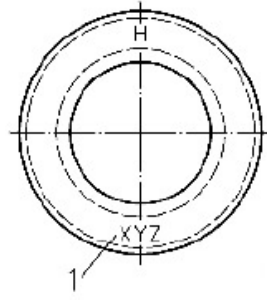
**EXAMPLE** A hardened and tempered chamfered plain washer for high-strength structural bolting for preloading, of nominal size  $d = 16$  mm, with hot dip galvanized coating(tZn), is designated as follows:

**Washer EN 14399-6 --- 16 --- tZn**

## 5.4 MARKING

Hardened and tempered chamfered washers shall be marked with at least the manufacturer's trade (identification) mark and the letter H. The manufacturer may decide to mark washers with HR or HV (instead of H marking) when they are supplied as component of bolting assemblies of system HR or HV respectively.

The marking shall be indented on the non-chamfered side.



**Key**


- 1 identification mark of the manufacturer of the assembly

**Figure 7 --- Example of marking**

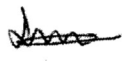
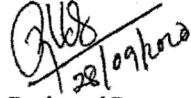
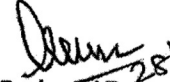
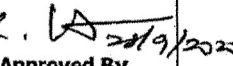
**NOTE:**

Please get quality plan from vendors/suppliers.

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2-35-700-59474												FOR TOLERANCES OF UNTOLERANCED DIMENSIONS DURING MANUFACTURE REFER PLANT STD. NO TP 023 0299																																																																																																															
<div>BS EN 14399-9:2009 EN 14399-9:2009 (E)</div> <div><div>Key</div><div><div><div><div><math>d_1</math></div><div>Internal diameter</div></div><div><div><math>d_2</math></div><div>External diameter</div></div><div><div><math>d_3</math></div><div>Protrusion tangential diameter</div></div><div><div><math>d_4</math></div><div>Protrusion internal diameter</div></div><div><div><math>h_1</math></div><div>Material thickness</div></div><div><div><math>h_2</math></div><div>Height over protrusions</div></div><div><div><math>h_3</math></div><div>Height of protrusions</div></div></div></div><div></div></div>												<div>NOTES:-</div> <div>1) FINISH: DULL BLACK HEAT TREATED CONDITION WITH RESIDUAL COATING OF LIGHT OIL</div> <div>2)NO OF PROTRUSIONS/BUMPS,DIMENSIONS,TOLERANCES,MECHANICAL PROPERTIES,MANUFACTURING METHODOLOGY, TESTING &amp; MATERIAL COMPOSITION OF WASHER etc SHALL BE AS PER EN 14399_9.</div> <div>3)MARKING: MANUFACTURERS IDENTIFICATION SYMBOL,LOT NO, GRADE AND DIA OF WASHER MUST BE IMPRINTED AS PER EN 14399_9.</div> <div>4)PACKING: PACKED IN BITUMINOUS COATED POLYTHENE LINED HESSIAN CLOTH/BAG.EACH BAG SHALL CONTAIN ONLY THE SAME SIZE OF WASHERS RESPECTIVELY AND THE SAME SHALL BE INDICATED IN TAGS.</div> <div>THE FOLLOWING DETAILS MUST BE CLEARLY INDICATED IN TAGS TIED TO THE BUNDLE</div> <div>i)CUSTOMER NAME</div> <div>ii)MANUFACTURER NAME</div> <div>iii)VENDORE CODE</div> <div>iv)PURCHASE ORDER NO AND SUPPLIER INTERNAL W.O. NO</div> <div>v)QUANTUM AND WEIGHT</div> <div>vi)BHEL MATERIAL CODE</div> <div>vii)ITEM DESCRIPTION WITH DIAMETER AND LENGTH.</div> <div>6)INSPECTION AND CERTIFICATION</div> <div>ALL THE FINISHED COMPONENTS SHALL BE VISUALLY AND DIMENSIONALLY INSPECTED AS PER SAMPLING PLAN. ALL THE TEST RESULTS SHALL BE DOCUMENTED AND MAINTAINED. PRODUCTS TO BE INSPECTED AT WORKS &amp; TEST CERTIFICATES (IN ENGLISH) SHALL BE SUBMITTED WITH THE FOLLOWING DETAILS COUNTER SIGNED BY BHEL/BHEL AUTHORIZED INSPECTION AGENCY AS INDICATED IN THE PO. MANUFACTURERS TEST CERTIFICATE (MC) SHALL CONTAIN THE FOLLOWING</div> <div>i)PURCHASE ORDER NO (BHEL),TDC No,SPECIFICATION AND GRADE.</div> <div>ii)NAME OF RAW MATERIAL BAR SUPPLIER.</div> <div>iii)FORMING PROCESS.</div> <div>IV)DIMENSIONAL REPORTS FOR EACH PRODUCT.</div> <div>v)CHEMISTRY INCLUDING INCIDENTAL ELEMENTS ON THE RAW MATERIAL AND FINAL PRODUCT CHECKED IN NABL LAB/SUPPLIERS OWN LAB.</div> <div>vi)HT DETAILS OF MATERIALS TEMPERATURE,SOAKING TIME,ROH/ROC MEDIUM etc.</div> <div>vii)ALL MECHANICAL TEST RESULT REPORT INCLUDING HARDNESS</div> <div>viii)MPI.MICRO EXAMINATION AND DECARBUNIZATION TEST REPORT WITH THE REFERENCE &amp; ACCEPTANCE STANDARD.</div> <div>ix)TC OF RAW MATERIAL,UT/MPI REPORT DONE ON RAW MATERIAL SHALL ACCOMPANY THE MTC.</div> <div>7)AUDITS AT BHEL: BHEL RESERVE THE RIGHT TO REJECT ANY ITEM FOUND TO BE NOT MEETING THE REQUIREMENTS DURING TESTS AT SUPPLIER WORKS OR SUBSEQUENT PROCESSING AT BHEL.</div> <div>8)FOR SCOPE OF WORK NOT COVERED UNDER EN 14399_9, THE SAME SHALL BE REFERRED FROM ASTM F959.</div>																																																																																																															
<div>Figure 1 — Dimensions of compressible washer-type direct tension indicator (example with six protrusions)</div> <div>Table 2 — Dimensions of compressible washer-type direct tension indicator</div> <div>Dimensions in millimetres</div> <table><tr><th rowspan="3">For use with bolts of designation</th><th colspan="2">Internal diameter</th><th colspan="2">External diameter</th><th>Material thickness</th><th>Height over protrusions</th><th>Height of protrusions</th><th>Protrusion tangential diameter</th><th>Protrusion internal diameter</th></tr><tr><th colspan="2"><math>d_1</math></th><th colspan="2"><math>d_2</math></th><th><math>h_1</math></th><th><math>h_2</math></th><th><math>h_3</math></th><th><math>d_3</math></th><th><math>d_4</math></th></tr><tr><th>min.</th><th>max.</th><th>min.</th><th>max.</th><th>min.</th><th>max.</th><th>min.</th><th>max.</th><th>min.</th></tr><tr><td>M12</td><td>12,75</td><td>12,85</td><td>26,0</td><td>32,5</td><td>2,50</td><td>5,50</td><td>0,80</td><td>20</td><td>13,85</td></tr><tr><td>M16</td><td>16,75</td><td>16,85</td><td>35,0</td><td>36,8</td><td>3,00</td><td>6,00</td><td>0,80</td><td>25</td><td>17,85</td></tr><tr><td>M20</td><td>20,95</td><td>21,05</td><td>41,0</td><td>46,0</td><td>3,50</td><td>6,50</td><td>0,80</td><td>29</td><td>22,05</td></tr><tr><td>M22</td><td>23,05</td><td>23,15</td><td>46,5</td><td>50,6</td><td>4,00</td><td>7,00</td><td>0,80</td><td>33</td><td>24,15</td></tr><tr><td>M24</td><td>25,15</td><td>25,25</td><td>50,0</td><td>55,2</td><td>4,00</td><td>7,00</td><td>0,80</td><td>38</td><td>26,25</td></tr><tr><td>M27</td><td>28,30</td><td>28,40</td><td>54,0</td><td>62,1</td><td>4,00</td><td>7,00</td><td>0,80</td><td>43</td><td>29,40</td></tr><tr><td>M30</td><td>31,45</td><td>31,55</td><td>59,0</td><td>69,0</td><td>4,00</td><td>7,00</td><td>0,80</td><td>46,5</td><td>32,55</td></tr><tr><td>M36</td><td>37,75</td><td>37,85</td><td>78,0</td><td>83,0</td><td>4,00</td><td>7,50</td><td>0,80</td><td>56</td><td>38,85</td></tr></table>												For use with bolts of designation	Internal diameter		External diameter		Material thickness	Height over protrusions	Height of protrusions	Protrusion tangential diameter	Protrusion internal diameter	$d_1$		$d_2$		$h_1$	$h_2$	$h_3$	$d_3$	$d_4$	min.	max.	min.	max.	min.	max.	min.	max.	min.	M12	12,75	12,85	26,0	32,5	2,50	5,50	0,80	20	13,85	M16	16,75	16,85	35,0	36,8	3,00	6,00	0,80	25	17,85	M20	20,95	21,05	41,0	46,0	3,50	6,50	0,80	29	22,05	M22	23,05	23,15	46,5	50,6	4,00	7,00	0,80	33	24,15	M24	25,15	25,25	50,0	55,2	4,00	7,00	0,80	38	26,25	M27	28,30	28,40	54,0	62,1	4,00	7,00	0,80	43	29,40	M30	31,45	31,55	59,0	69,0	4,00	7,00	0,80	46,5	32,55	M36	37,75	37,85	78,0	83,0	4,00	7,50	0,80	56	38,85				
For use with bolts of designation	Internal diameter		External diameter		Material thickness	Height over protrusions	Height of protrusions	Protrusion tangential diameter	Protrusion internal diameter																																																																																																																		
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<div>CAUTION: The information on this document is the property of BHARAT HEAVY ELECTRICALS LTD. It must not be used directly or indirectly in any way detrimental to the interest of the company.</div> <div><div><div>TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT</div><div><div><div><div><div></div><div>355-054</div></div><div><div>DEPT</div><div>CODE</div></div><div><div>ALL DIMENSIONS ARE IN MM</div><div>PROJECTION</div><div>SCALE</div></div><div><div>WEIGHT (Kg)</div><div>REF TO ASSY / OLD DWG</div></div></div><div><div><div>Bharat Heavy Electricals Ltd</div><div>UNIT: HIGH PRESSURE BOILER PLANT</div><div>TIRUCHIRAPALLI - 620014</div></div><div><div><div>DRN</div><div>NAME</div><div>RONALD</div></div><div><div>SIGNATURE</div><div>DATE</div><div>12.12.2023</div></div><div><div>CHD</div><div>AGN/PRAVEEN</div><div>12.12.2023</div></div><div><div>APPD</div><div>VSRK/RAJMOHAN</div><div>12.12.2023</div></div></div><div><div>TITLE</div><div>DRAWING NO :</div><div>REV</div></div></div><div><div>NORMAL DTI WASHER SPECIFICATION</div><div>2-35-700-59474</div><div>00</div></div></div></div></div></div>																																																																																																																											
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	BHEL: BAP: RANIPET		<b>STANDARD QUALITY PLAN</b> <i>Item: HSFG Fasteners(Bolts, Nuts &amp; Washers)</i>				QP: NO:	SQP: HFSG:01	
	QUALITY ASSURANCE						REV. NO.	00	
			DATE:	28/09/2020					
			PAGE:	1 of 2					
SI No 1	Component & operation 2	Characteristics 3	Type of Check 4	Quantum of Check 5	Reference Document 6	Acceptance Norms 7	Format Of Records 8	Agency M B 9	Remarks 10

1.0	Raw Material								
1.1	Raw Material	Chemical & Mechanical	TC Verification	100%	BHEL Specification(TDC)&PO	TC	P	V	
2.0	In process								
2.1	Machining & Heat Treatment;NDE(UT/MPI)	Dimension,Temp,Time, Medium, HT Chart,NDE	Report Review	100%	DO	R	P	V	NDE IN RAW MATERIAL
3.0	Final Inspection(*)								
3.1	Visual & Dimension(*)	Visual, Dimension & Thread	Measurement /Thread gauge	Sampling plan(*)	DO	R	P	W	(*)BHEL/BHEL TPJA will witness final inspection in supplier works or NABL approved Lab as per TDC. Sampling given in TDC to be followed.(#) For nut, only hardness and proof load test. For washer, hardness test only. Hardness after Re-Tempering in case of dispute
3.2	Mechanical Testing(*, #)	Mechanical(Hardness, Strength under wedge load test,Minimum Tensile Strength,Proof load test,Decarburization test, Hardness after Re-Tempering)	Testing	DO	DO	R	P	W	
3.3	Chemical(*)	Chemical composition(\$)	Testing	DO	DO	R	P	W	
3.4	NDE(*)	Surface Quality	Testing (Visual & MPI)	DO	DO	R	P	W	
3.5	Packing & Preservation	Packing & Marking	verification		DO	R	P	V	

<b>LEGENDS:</b> M:- MANUFACTURER/ SUBCONTRACTOR, B:- BHEL/AUTHORISED INSPECTION AGENCY, P:- PERFORMED, V:- VERIFICATION, W:- WITNESS, R:- REPORT C:- CUSTOMER, CHP:- CUSTOMER HOLD POINT TC:- TEST CERTIFICATE	 Prepared By (Abdul Ghani) Sr. Engineer/QA	 Reviewed By K. Renjith MGR/QA	 Reviewed By R. Kesavan DGM/QC-Proc	 Approved By R.Arunachalam DGM/QA(Mech)&OLI
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*(Handwritten signatures)*

<b>RANIPET</b> <b>BHEL: BAP:</b> <b>RANIPET</b> <b>QUALITY ASSURANCE</b>		<b>STANDARD QUALITY PLAN</b> <i>Item: HSFG Fasteners(Bolts, Nuts &amp; Washers)</i>					<b>QP: NO:</b>		<b>SQP: HFSG:01</b>	
							<b>REV. NO.</b>		<b>00</b>	
							<b>DATE:</b>		<b>28/09/2020</b>	
							<b>PAGE:</b>		<b>2 of 2</b>	
<b>SI No</b> <b>1</b>	<b>Component &amp; operation</b> <b>2</b>	<b>Characteristics</b> <b>3</b>	<b>Type of Check</b> <b>4</b>	<b>Quantum of Check</b> <b>5</b>	<b>Reference Documents</b> <b>6</b>	<b>Acceptance Norms</b> <b>7</b>	<b>Format Of Records</b> <b>8</b>	<b>Agency</b> <b>M B</b> <b>9</b>		<b>Remarks</b> <b>10</b>

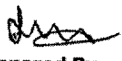

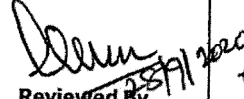
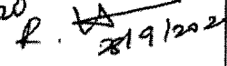
**Note:** This QP shall be read along with relevant PO, TDC and applicable standards and Drawings. Requirements shall be complied.  
\$: Chemical check by Spectro/wet method (minimum 1 no to be checked per inspection lot).

Record of Revision		
Rev. No.	Date	Details of Revision
00	26.09.2020	1. Fresh release/ Original issue 2. Based on the Purchase & QC(Proc) feedback, QA has released this SQP.


For HSFG FIT bolts, nuts and Washers

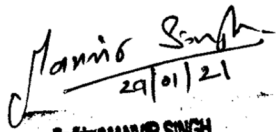
1. Applicable TDC shall be BHEL specification no SSFIT-001, Rev00.
2. Additional witness point, Hot dip Galvanized Bolts, Nuts and washers in accordance with standards mentioned in specification.
3. Test Sampling plan shall be same as indicated in TDC 5:211 rev02.
4. For HOT dip Galvanized witness, quantity of test sample shall be same as of MPI


**SANJU KOHLI**  
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Date: 2023.12.23 14:19:41 +05'30'

<b>LEGENDS:</b> M:- MANUFACTURER/ SUBCONTRACTOR, B:- BHEL/AUTHORISED INSPECTION AGENCY, P:- PERFORMED, V:- VERIFICATION, W:- WITNESS, R:- REPORT C:- CUSTOMER, CHP:- CUSTOMER HOLD POINT TC:- TEST CERTIFICATE	 <b>Prepared By</b> <b>(Abdul Ghani)</b> <b>Sr. Engineer/QA</b>	 <b>Reviewed By</b> <b>K. Renjith</b> <b>MGR/QA</b>	 <b>Reviewed By</b> <b>R. Kesavan</b> <b>DGM/QC-Proc</b>	 <b>Approved By</b> <b>R. Arunachalam</b> <b>DGM/QA(Mech)&amp;OLI</b>
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Applicable for BHEL IVP Goindwal also,

  
29/01/2021  
**विकास कुमार /VIKAS KUMAR**  
**वरिष्ठ अभियंता/Sr. Engineer (Quality)**  
**भारत हेवी इलेक्ट्रिकल्स लिमिटेड**  
**Bharat Heavy Electricals Limited**  
**(A Govt. of India Undertaking)**  
**इण्डस्ट्रियल वाल्व्स प्लांट/Industrial Valves Plant**  
**गोइन्दवाल साहिब (तारन तारन)/Goindwal Sahib**

  
29/01/21  
**मानिश सिंग /MANISH SINGH**  
**प्रबंधक (गुणवत्ता)/Manager (Quality)**  
**भारत हेवी इलेक्ट्रिकल्स लिमिटेड**  
**Bharat Heavy Electricals Limited.**  
**(A Govt. of India Undertaking)**  
**इण्डस्ट्रियल वाल्व्स प्लांट/INDUSTRIAL VALVES PLANT**  
**गोइन्दवाल साहिब (तारन तारन)/GOINDWAL SAHIB TARN TARAN**

  
29/01/2021  
**एस.आर.केनी/S.R. KENNY**  
**अपर महाप्रबंधक/AGM (QM, HSE, Engg. & TEC)**  
**भारत हेवी इलेक्ट्रिकल्स लिमिटेड**  
**Bharat Heavy Electricals Ltd.**  
**(A Govt. of India Undertaking)**  
**इण्डस्ट्रियल वाल्व्स प्लांट/Industrial Valves Plant**  
**गोइन्दवाल साहिब/Goindwal Sahib (Tarn Taran)**

**S R KENNY**  
Digitally signed by S R KENNY  
Date: 2023.12.23 14:38:46 +05'30'



<div><div>बी एच ई एल</div><div>BHEL</div></div>		BHEL: IVP Goindwal		STANDARD QUALITY PLAN		QP No	SQP:DTI:001	
				Item: DTI Washers		Rev	0	
		Date	05.01.2024					
		Quality Assurance				Page	1 of 2	
SN	Stage of inspection	Inspection type		Ref doc	Quantum of check	Format of Record	Agency	
							M	BHEL/TPIA
1	Raw material	Chemical & NDT (UT/MPI) properties		Material test certificate	100%	MTC report	V	V
2	In Process	HT details of materials temperature, soaking time, ROH/ROC, medium etc		HT charts	100%	HT charts	P	V
3	Finished product	Chemical Analysis	Chemical composition	As per EN 14399_9	one sample per heat	Test Report	P	W
		Mechanical Properties	Compression Test	As per ISO 3269:2000	As per Sampling plan	Test Report	P	W
			Hardness		As per Sampling plan			
		NDT	MPI, Micro examination, Decarbonization	As per relevant standard	As per sampling plan	Test Report	P	W
		Dimension	As per drawing	Material drg	As per Sampling plan	Dimension report	P	W
		Visual	Free from burrs, physical damages		100%		P	W
	Marking/Identification & Packing	As per drawing	As per drawing	5%		P	W	

**SANJU KOHLI**  
 Digitally signed by SANJU KOHLI  
 Date: 2024.01.10 16:34:40 +05'30'


Prepared By  
 Sanju Kohli  
 Manager, QM

M-Manufacturer, V-Verification, W-Witness, P-Perform

Reviewed Approved By  
 SR Kenny  
 AGM, QM E

**S R KENNY**  
 Digitally signed by S R KENNY  
 Date: 2024.01.10 16:41:53 +05'30'



	<b>BHEL: IVP Goindwal</b>  <b>Quality Assurance</b>	<b>STANDARD QUALITY PLAN</b>		<b>QP No</b>	<b>SQP:DTI:001</b>
		<b>Item: DTI Washers</b>		<b>Rev</b>	<b>0</b>
				<b>Date</b>	<b>05.01.2024</b>
				<b>Page</b>	<b>2 of 2</b>

**TEST SAMPLING PLAN FOR DTI WASHERS**

LOT Size (in nos)	Compression test	Hardness	MPI	Micro Examination	Decarbunization	Dimension Check
Upto 1000	8	10	10	1	1	20
1001 to 5000	10	10	10	1	1	20
5001 to 10000	15	15	15	1	1	30
10001 to 50000	18	20	20	2	2	40
Above 50000	20	25	25	3	3	50


**SANJU KOHLI** Digitally signed  
by SANJU KOHLI  
Date: 2024.01.10  
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Preprated By  
Sanju Kohli  
Manager, QM

**S R KENNY** Digitally signed  
by S R KENNY  
Date: 2024.01.10  
16:42:29 +05'30'

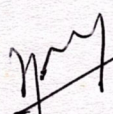
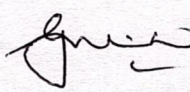
Reviewed Approved By  
SR Kenny  
AGM, QM E



	<b>Bharat Heavy Electricals Ltd.,</b> <b>Tiruchirappalli -14</b>	<b>Doc. No: PR: CHEM: 09 – 04</b> <b>Rev: 03</b> <b>Date: 01.04.2009</b> <b>Page 1 of 3</b>
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## PLANT LABORATORY

### TECHNICAL SPECIFICATION FOR TEMPORARY RUST PREVENTIVE FLUID FOR BHEL USE TO IS 1153 (MODIFIED)

REV	DATE	PREPARED BY	REVIEWED AND APPROVED BY
03	01-04-2009	 <b>L. Gragori</b> <b>DM/Plant Lab</b>	 <b>Dr. G. Ravichandran</b> <b>SDGM/Plant Lab</b>

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**Page 2 of 3**

### **Record of Revisions**

<b>Rev. No</b>	<b>Date</b>	<b>Details of Revision</b>	<b>Remarks</b>
<b>00</b>	<b>05.11.1992</b>	<b>NEW</b>	<b>----</b>
<b>01</b>	<b>04.04.1995</b>	<b>Sl.No. 1,3 &amp; 5 modified</b>	<b>Quality improvement</b>
<b>02</b>	<b>20.05.2003</b>	<b>Sl.No. 8 Temperature Resistance Newly added</b>	<b>Based on Valves Requirement</b>
<b>03</b>	<b>01.04.2009</b>	<b>Editorial corrections made &amp; new requirements added in Sl.No. 6, 12 &amp; 16. Other Sl. No. Changed accordingly.</b>	<b>SSTP's additional requirements as given in TDC/CHEM/06 added.</b>





**REQUIREMENTS FOR TEMPORARY RUST PREVENTIVE FLUID**

1	Specific Gravity at ambient temperature	0.85 - 0.95
2	Flash Point °C (min)	40
3	Drying time : Surface Dry (Hours, max)	½
	Tack free (Hours, max)	4
4	Dry film thickness (Microns) per coat-min	20
5	Ford cup Viscosity (No.4) seconds at ambient temperature	25 ± 5
6	Odour	No objectionable Odour
7	Film type Transparent/Translucent	Transparent
8	Application Method	Brush/Spray
9	% Non- Volatiles by mass	55 ± 5
10	Temperature Resistance of RPF film at 50 °C (for 6 hrs)	To pass test.
11	Corrosion Protection under conditions of condensation for 300 hours.	No sign of corrosion.
12	Liebermann –Storch test for the detection of natural resin & its derivatives	No development of pink colour – indicating absence of natural resin.
13	Salt spray test for 72 hours	No sign of corrosion.
14	Outdoor durability	The coating shall not crack or turn opaque when exposed to out door, unsheltered condition for 1 year.
15	Scratch Hardness test (Under load of 1000 g as per IS 101 (Latest)	To pass test
16	Compatibility with Alkyd /Lacquer based paints.	Compatible.
17	Keeping Property – Months (Shelf life) min.	12
18	General conformance to I.S Specification	IS 1153 (Latest)
19	Packing standard/markings	Supply in 200/20/10 Lt. Barrels as per PO indicating the following. Rust Preventive fluid for BHEL use only. Supplier's Name: Batch No:     Date Quantity: Shelf Life: BHEL Specn.PR:CHEM:09-04 (latest)
20	Test certificate	The supplier shall furnish test certificate for the above requirements Sl.No.1 to 16 in duplicate.