



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

Enquiry No.
2627-042E

Date:
09.09.2026

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. These details are also available on 'Contact Us' page of the portal.

Tender enquiry no. & date	2627-042E dated 09.09.2026
Form of contract	Supply
Tender / Item description	Purchase of HSFG Fasteners with Delivery at BHEL IVP Goindwal
Material standard / Drawings	As per attached Specifications & Drawings
Location(s) of Supply / Work	BHEL IVP Goindwal, Punjab
Earnest Money Deposit (EMD)	Not Applicable
Performance Security (PS)	Upto 5% of PO value, subject to maximum value of Rs. 5 Lakhs, to be submitted within 21 days from the date of award of PO. (Refer special terms S19)
Quotation parts	Two Part Bid
Tender download / Bid submission start date	09.09.2026 (15:00 Hrs. IST)
Tender download / Bid submission end date	21.09.2026 (12:00 Hrs. IST)
Tender / Bid opening date	21.09.2026 (15:30 Hrs. IST)
Validity of offer	75 days from techno commercial bid opening (Part I)
Quantity variation	+ 2% for all the items
Delivery schedule	90/120 days from the date of Release of Purchase Order/ Letter of Intent
Tender evaluation	Item – Wise
Reverse auction	Applicable
Integrity pact (IP)	Applicable
Contact person details	Rajesh Kumar, Sr. Manager / MM 01859-224 618, kumarrajesh@bhel.in Pranshu, Manager / MM 01859-224 619, pranshu@bhel.in

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S1 SCOPE OF SUPPLY

Material shall be supplied as per the applicable Specifications / Drawings as mentioned in the Table – 1.
National & International material standards shall have to be arranged by bidders themselves.

Table 1 : List of Items along with Tender Quantity, Drawing Number, Specifications, etc.

Enq. Sr. No.	Material Code	Material Description	Approx. Unit Wt., Kg	Qty. in Nos.	MSE Reserved Items	Drawing No. / Rev. No.	Specification Document
1	412400010000	M24x70 EXTENDED HSFG BOLTS&NUTS Grade8.8	0.577	48,317	--	3-35-700-06802 Rev 06	1) Technical Delivery Condition (TDC) with document no. TDC/5215/Rev.03 dt. 08.08.26. 2) Standard Quality Plan (SQP) with Document no. SQP:HSFG:001 Rev. 06 dt. 21.08.2026 along with Heat Treatment format and Torque Tightening Procedure. 3) Additional Technical Contract Conditions (TCC) with document no. BHEL:TCC:HSFG:Rev00 dt. 20.08.26. 4) Rust Preventive Oil (RPO) specifications with document no. PR:CHEM:09-04 Rev 03 dated 01.04.2009.
2	412400020000	M24x90 EXTENDED HSFG BOLTS&NUTS Grade8.8	0.645	4,02,536	--		
3	412400030000	M24x130 EXTENDEDHSFG BOLTS&NUTS Grade8.8	0.804	1,40,955	--		
4	412400050000	M24X200 EXTENDED HSFG BOLT &NUT GRADE8.8	1.018	5,000	--		
5	412403009001	M30X90 EXTENDED HSFG BOLTS&NUTS GR.10.9	1.112	21,600	--	3-35-700-09999 Rev 01	
6	412403013001	M30X130 EXTENDED HSFG BOLTS&NUTS GR.10.9	1.324	3,21,051	--		
7	412403017001	M30X170 EXTENDED HSFG BOLTS&NUTS GR.10.9	1.536	34,966	--		
8	412403020001	M30X200 EXTENDED HSFG BOLTS&NUTS GR.10.9	1.695	45,868	--		
9	412400060000	EXT M30X230 HSFG BOLT & NUT	1.875	49,312	--		
10	412412006001	M20X60 EXTENDED HSFG BOLTS&NUTS GR.8.8	0.329	22,780	--	3-35-700-09998 Rev 00	
11	412413610001	M36X100 EXTENDED HSFG BOLT&NUT GR.10.9	1.860	32,796	--	0-86-700-A0323 Rev 00	
12	412413612001	M36X120 EXTENDED HSFG BOLT&NUT GR.10.9	2.013	3,000	--		
13	412413614001	M36X140 EXTENDED HSFG BOLT&NUT GR.10.9	2.165	2,000	--		



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Enq. Sr. No.	Material Code	Material Description	Approx. Unit Wt., Kg	Qty. in Nos.	MSE Reserved Items	Drawing No. / Rev. No.	Specification Document
14	412413616001	M36X160 EXTENDED HSFG BOLT&NUT GR.10.9	2.318	2,000	--	0-86-700-A0323 Rev 00	1) Technical Delivery Condition (TDC) with document no. TDC/5215/Rev.03 dt. 08.08.26. 2) Standard Quality Plan (SQP) with Document no. SQP:HSFG:001 Rev. 06 dt. 21.08.2026 along with Heat Treatment format and Torque Tightening Procedure. 3) Additional Technical Contract Conditions (TCC) with document no. BHEL:TCC:HSFG:Rev00 dt. 20.08.26. 4) Rust Preventive Oil (RPO) specifications with document no. PR:CHEM:09-04 Rev 03 dated 01.04.2009.
15	412413619001	M36X190 EXTENDED HSFG BOLT&NUT GR.10.9	2.547	2,000	--		
16	412413620000	M36x200 HSFG BOLTS & NUTS Grade 10.9	2.827	2,000	--	--	
17	414190003600	M36 WASHER Grade 10.9	0.128	33,500	MSE Reserved	--	
18	414180002400	M24 WASHER Grade 8.8	0.067	7,64,571	MSE Reserved	--	
19	414190003000	M30 WASHER Grade 10.9	0.089	7,42,770	MSE Reserved	--	
20	414190001600	M16 WASHER Grade 10.9	0.029	5,000	MSE Reserved	--	

HSFG stands for High Strength Friction Grip

Additional Information:

- A. Wherever HSFG Bolts and Nuts mentioned in the Material Description, "1 number" of Quantity = 1 Bolt + 1 Nut.
- B. Enquiry item Sr. no. 17 to 20 (Washers of all 4 sizes) 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).**
- C. For all the 20 items, Rust Preventive oil is to be applied as per attached specification with document reference no. PR:CHEM:09-04 Rev 03 dated 01.04.2009.
- D. **Minimum 50% and 20% Local Content is required for qualifying as Class 1 and Class 2 Local Supplier respectively.**
- E. Bidder can quote for any number of items subject to meeting the pre-qualification criteria and other tender terms.
- F. **Delivery Destination for all the above 20 items is BHEL IVP Goindwal.**



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S2 PRE-QUALIFICATION CRITERIA (PQC)

- 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. Also, List of Machines to be submitted in order to fulfil this criterion. **This list of machines should be inline with the requirement mentioned in the Additional Technical Contract Conditions (TCC) with document no. BHEL:TCC:HSFG:Rev00 dt. 20.08.26.**

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

- b) Bidder should have Minimum Average Annual Financial Turnover of Rs. [as mentioned in Column A of Table 3 below] against corresponding item, over any three financial years out of the **last 4 Financial years viz. FY 2022-23, 2023-24, 2024-25 and 2025-26**. To certify the same, bidder need to submit balance sheets of above stated any of the three years. Balance sheets should be audited, as applicable. The value of turnover to be considered is without Taxes. 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.**

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

(In above formula, if data for any of FY1, FY 2 and FY3 is not provided then it shall be taken as NIL for that FY).

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). Date of issue of Start-up Exemption certificate should be on or before tender Part-1 Bid opening date.

If bidder is quoting for more than one item, then minimum average annual turnover value of bidder should be sum of the values mentioned corresponding to each quoted item as mentioned in the Column A of Table – 3.

Example 1: Suppose one bidder is having the Average Annual Financial Turnover of Rs. 300 Lakhs. Then bidder can quote for the items, where sum of values mentioned in 'Minimum Avg. Annual Turnover Value' is less than or equal to 300 Lakhs. For example:-

- for items at Sr. no. 2 & 4; Cumulative T.O. requirement reaches to Rs. 296 Lakhs,
- for items at Sr. no. 1, 5 and 8; Cumulative T.O. requirement reaches to Rs. 278 Lakhs, etc.

Same Bidder should not quote for the cases where the sum of values mentioned in 'Minimum Avg. Annual Turnover Value' crosses Rs. 3 Crores. For example: -

- for items at Sr. No. 1 & 2; Cumulative T.O. requirement reaches to Rs. 356 Lakhs,
- for items at Sr. No. 8, 9 & 11; Cumulative T.O. requirement reaches to Rs. 406 Lakhs, etc.

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- c) 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 Column B of Table 3 below] against corresponding item, along with the proof of execution like Invoice / Consignee Receipt Note / Completion Certificate, from any customer(s). PO and date of proof of execution like invoice etc. should be 01.09.2023 or afterwards till tender Part-1 bid opening date. PO value mentioned above is excluding taxes. The details of the submitted POs along with its proof of execution must be filled as per attached Annexure - P. **Also, please note that the proof of execution like Invoice / Consignee Receipt Note / Completion Certificate include the must Purchase Order reference number for the fulfilment of this tender term, otherwise that PO will not be considered for the fulfilment of this tender term.**

PO and date of proof of execution like invoice etc. should be 01.09.2023 or afterwards till tender Part-1 bid opening date.

"Similar item" has been defined as "Bolts, Nuts or Washers as per standard as per below table 2: -
Table – 2

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

If bidder is quoting for more than one Item, 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 item as mentioned in the Column B of Table – 3.

Start-ups shall be exempted from this criterion of Purchase order and invoice, 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. 3 crores and submitted the Purchase Orders of cumulative value of Rs. 10 Lacs, then although financially he is eligible to quote for item at Sr. no. 2 & 4, but due to submitted PO value constraint, he is eligible for only one item i.e. item at Sr. no. 4.

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Table- 3

Item -wise Pre-Qualification Criteria				Column [A] Tender Terms Cl. Sr. no. S2 (b)	Column [B] Tender Terms Cl. Sr. no. S2 (c)
Enq. Sr. No.	Material Code	Material Description	Qty. in Nos.	Min. Value of Avg. Turnover Required [Rs. Lacs]	Min. Value of PO Required in last 3 years [Rs. Lacs]
1	412400010000	M24x70 EXTENDED HSFG BOLTS&NUTS Grade8.8	48,317	75	8
2	412400020000	M24x90 EXTENDED HSFG BOLTS&NUTS Grade8.8	4,02,536	281	30
3	412400030000	M24x130 EXTENDED HSFG BOLTS&NUTS Grade8.8	1,40,955	304	32
4	412400050000	M24X200 EXTENDED HSFG BOLT & NUT GRADE8.8	5,000	15	1
5	412403009001	M30X90 EXTENDED HSFG BOLTS&NUTS GR.10.9	21,600	75	8
6	412403013001	M30X130 EXTENDED HSFG BOLTS&NUTS GR.10.9	3,21,051	562	60
7	412403017001	M30X170 EXTENDED HSFG BOLTS&NUTS GR.10.9	34,966	98	10
8	412403020001	M30X200 EXTENDED HSFG BOLTS&NUTS GR.10.9	45,868	128	13
9	412400060000	EXT M30X230 HSFG BOLT & NUT	49,312	152	16
10	412412006001	M20X60 EXTENDED HSFG BOLTS&NUTS GR.8.8	22,780	28	3
11	412413610001	M36X100 EXTENDED HSFG BOLT&NUT GR.10.9	32,796	126	13
12	412413612001	M36X120 EXTENDED HSFG BOLT&NUT GR.10.9	3,000	15	1
13	412413614001	M36X140 EXTENDED HSFG BOLT&NUT GR.10.9	2,000	15	1
14	412413616001	M36X160 EXTENDED HSFG BOLT&NUT GR.10.9	2,000	15	1
15	412413619001	M36X190 EXTENDED HSFG BOLT&NUT GR.10.9	2,000	15	1



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Item -wise Pre-Qualification Criteria				Column [A]	Column [B]
				Tender Terms Cl. Sr. no. S2 (b)	Tender Terms Cl. Sr. no. S2 (c)
Enq. Sr. No.	Material Code	Material Description	Qty. in Nos.	Min. Value of Avg. Turnover Required [Rs. Lacs]	Min. Value of PO Required in last 3 years [Rs. Lacs]
16	412413620000	M36x200 HSFG BOLTS & NUTS Grade 10.9	2,000	15	1
17	414190003600	M36 WASHER Grade 10.9	33,500	7	0.80
18	414180002400	M24 WASHER Grade 8.8	7,64,571	45	4
19	414190003000	M30 WASHER Grade 10.9	7,42,770	70	7
20	414190001600	M16 WASHER Grade 10.9	5,000	1	0.20
Minimum Cumulative Value Required to qualify for all the 20 items in the tender				Rs. 2,042 Lacs	Rs. 211 Lacs

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. 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:

- 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.

- 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.
- Documents as per pre-qualification terms.
 - List of Machinery
 - Balance sheets / CA certificate.
 - PO copies along with the proof of execution.



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- d) Duly filled Annexure - P (Details of Submitted PO and their Proof of Execution, as per above stated PQC term at Sr. no. S2. c))
- e) Duly Filled Annexure - R (Integrity Pact)
- f) Duly Filled Annexure - S (Make in India Declaration Certificate).

Make in India (MII) Declaration Certificate is required from CA statutory auditor of the company (in case of companies) **along with valid UDIN** or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.

S4 DELIVERY SCHEDULE

Total Delivery Period from date of Purchase Order/ Letter of Intent is defined as per table 4 below: -

Table 4

PO Quantity	Delivery Period
First 50%	Within 90 days from the date of Release of PO / LOI
Balance 50%	In Next 30 days i.e. till 120 days from the date of Release of PO / LOI

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

S5 VALIDITY OF OFFERS

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

S6 DELIVERY DESTINATION and SCOPE OF UNLOADING

Delivery Destination for all the items is BHEL IVP Goindwal (Punjab) : -

Complete Address: *Bharat Heavy Electricals Limited
Industrial Valves Plant
433, Industrial Complex, Goindwal Sahib
Distt Tarn Taran, Punjab - 143422*

Unloading of Material at BHEL IVP Goindwal Stores / Any BHEL Site / BHEL Unit Stores is in the Scope of BHEL.

S7 PRICE BASIS

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



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S8 REVERSE AUCTION

Reverse auction will be conducted in this tender enquiry. Guidelines for Reverse Auction is Available at the following weblink: -

<https://www.bhel.com/guidelines-reverse-auction-2024>

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.

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 5

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 Goindwal and the new location specified for delivery of material is Talcher. Suppose weight of consignment is 60 MT

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



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X) comes out to be Rs. (+)3,14,820.00. Hence this additional differential freight amount will be paid to the 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. 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.

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 7 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

- a) 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.
- b) 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.
- c) Wooden box shall have provision for putting nylon slings so that box can be lifted by overhead cranes.
- d) Wooden Boxes shall be sealed by minimum two numbers of M.S. strap of 19 mm width.
- e) Following information must be legibly available on each wooden box: -
 - (i) Supplier name / vendor code
 - (ii) Item description
 - (iii) Invoice no. / Date of Invoice
 - (iv) Number of Bags
 - (v) Total Quantity of item

S14 LOADING CRITERIA CUM COUNTER OFFER

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

Table - 6

Tender Enquiry Sr. no.	Counter offer Case	Count of Items
1, 4, 5, 10, 12, 13, 14, 15, 16, 17, 20	Case – I	11



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7, 11, 18, 19	Case – II	4
8 and 9	Case – III	2
2, 3 and 6	Case – IV	3

Case - I: For 11 Items, as shown in table – 6 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 4 Items, as shown in table – 6 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 fulfilled amongst two vendors. For this, BHEL reserves the right to give counter offer of L1 rates to other vendors, based on their ranking, 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
% Loading	60%	40%

- If L2 does not accept the counter offer for any particular any item/items, L3 vendor will be contacted.
- If L3 does not accept the counter offer for any particular any item/items, L4 vendor will be contacted and so on except highest (H1) vendor.
- If no vendor accepts the counter offer for any particular any item/items, entire 100% quantity shall be loaded upon L1 vendor.

Case-III: For 2 Items, as shown in table – 6 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 other vendors, based on their ranking, 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%

- If L2 does not accept the counter offer for any particular any item/items, L3 vendor will be contacted.
- If L3 does not accept the counter offer for any particular any item/items, L4 vendor will be contacted and so on except highest (H1) vendor.
- In case out of L2 / L3 vendors / eligible vendors to whom the counter offer is given (except highest bidder) - if 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.

Case-IV: For 3 Items, as shown in table – 6 above, Contract will be entered with maximum Four 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 other vendors, based on their ranking, except highest bidder. Loading shall be done on vendor as per below mentioned criteria, subject to acceptance of counter offered L1 rates:



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Vendor	L1	L2	L3	L4
% Loading	40%	30%	20%	10%

- If L2 does not accept the counter offer for any particular any item/items, L3 vendor will be contacted.
- If L3 does not accept the counter offer for any particular any item/items, L4 vendor will be contacted and so on except highest (H1) vendor.
- In case out of L2 / L3 / L4 vendors / eligible vendors to whom the counter offer is given (except highest bidder) - if only two vendor accepts the counter offer rates, then loading ratio applicable will be 50%:30%:20% based on their ranking.
- In case out of L2 / L3 / L4 vendors / eligible vendors to whom the counter offer is given (except highest bidder) - if 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:

- A. The above criteria mentioned in cases I, II, III and IV 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].
- B. In case of Two qualified bidders, BHEL may give counter offer to Highest (H1) Bidder, wherever applicable.

S15 COMPLIANCES (Applicable for 16 Items at Sr. no. 1 to 16)

- a) Bidder has to manufacture and supply the material complying all the latest applicable Notifications / Orders issued by the Bureau of Indian standards (BIS) or any Government agency.
- b) The Gazette notification no. CG-DL-E-18072024-255511 dt. 15.07.2024 (and its revisions till date if any) wherever applicable to items indicated in the tender shall be referred. The bidder has to confirm that material to be supplied shall in compliance to latest BIS guidelines issued and amended till date of Part – 1 opening of the tender.
- c) Bidder to submit valid/operate BIS License issued on or before Part-1 bid Opening. In case of non-submission of required documents/ proof, bid is liable for rejection for these items.

S16 DETENTION CHARGES – WHILE UNLOADING AT SITE

The detention charges shall be payable as: -

- @ Rs. 800/- for Part Loads i.e. for vehicle carrying load below 5.5 MT per vehicle per day;
- @ Rs.1700/- for vehicle carrying load above 5.5 MT and below 18 MT per vehicle per day and
- @ Rs. 2200/- for vehicle carrying load above 18MT per vehicle per day,

detention charges shall be on each occasion subject to detention of vehicle in plant/site beyond a period defined as given below: -



SPECIAL TERMS AND CONDITIONS

(Tender enquiry no. 2627-042E dated 09.09.2026 **Due date 21.09.2026**)

ITEM: Purchase of HSFG Fasteners with Delivery at BHEL IVP Goindwal

Unloading Points	Free Period in days excluding Day of entry, day of exit, Sunday and Holiday declared at respective Project Site
Stores Wards of BHEL Units	2
Sites / Other Locations	2

[Weight of material will be considered as mentioned in Lorry Receipt generated by the Transporter or as per the Packing list/ Invoice generated by the Vendor, whichever is lower]

Day of entry, day of exit, Sunday and Holiday declared at respective Project Site shall be exclude from total detention period.

However, in such cases Supplier will have to submit proof of entry and exit day of vehicle in the plant/port/site.

Immediately on reaching the site, vendor shall have to inform the reaching/site entry date. In case they are not allowed inside the site/works, then vendor will inform through email along with GPS data / Photographs / Videos / etc. as the proof of the vehicle reaching at site. Please note that vehicle registration number and the site gate / board / etc. must be visible on the submitted photographs/ Video / etc.

In such cases, date on which email with GPS data / Photograph/ etc., is received at BHEL IVP Goindwal will be considered as the date of arrival of vehicle at site/Stores. The decision of BHEL in this regard shall be final.

Total detention charges shall be limited to 50% of the basic freight. For this purpose, freight shall be calculated as per Formula given in Differential freight clause (S18 of tender terms). An approval from BHEL shall be obtained for payment of detention charges more than 50% of the basic freight in exceptional cases.

For example, if the vehicle reached at site for unloading and made IN entry on 01.04.2024, the free period (2 days as per above table) will be available up to 03.04.2024. However, if the EXIT entry of the vehicle is made on 06.04.2024, then detention will be calculated excluding 06.04.2024 and free period (2 days) and two days will be eligible for detention.

S17 PAYMENT THROUGH TReDS PLATFORM (MANDATORY)

All MSME payments for Goods or Services to be mandatorily settled through TReDS. A MSME Gazette Notification dated 30-06-2026 Vide D.O.No.DPE-7(4)/2007-Fin dated 03-07-2026, Gazette Notification S.O. 3507(E) dated 30-06-2026 of Ministry of Micro, Small and Medium Enterprises (MSMEs) mandating the use of Trade Receivables Discounting System (TReDS) as a transaction settlement platform by the Central Public Sector Enterprises (CPSEs).

S18 INTEGRITY PACT (IP)

- 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.



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ITEM: Purchase of HSFG Fasteners with Delivery at BHEL IVP Goindwal

Sl. no.	IEM	Email ID
1.	Dr. Sarat Kumar Acharya, Ex-CMD, NLC	iem1@bhel.in
2.	Shri R. Mukundan, IRPS (Retd.)	iem2@bhel.in
3.	Shri Madan Lal Meena, IAS (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.
- 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 the panel of 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):

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

S19 PERFORMANCE SECURITY (PS)

This term will supersede the Clause no. 13 of GCC Rev 16

Applicability:

- Performance Security will not be applicable in which total PO value on vendor in one tender enquiry is less than or equal to Rs. twenty lakhs.
- (a) In case total PO value on vendor in one tender enquiry is greater than Rs. 20 Lakhs:** Successful bidder (L1 or counter-offer accepted) has to submit Performance Security (PS) @5% of PO value, **subject to maximum value of Rs. 5 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 of completion of all supplies under the PO.
(b) In case total PO value on vendor is equal to or greater than Rs. 2 crores, then before the release of this PS as mentioned in clause 4 (a) above, vendor has to submit another PS of Rs. one lakh after two months of completion of all supplies under the PO. This PS shall be valid for a period of 18 months. This



SPECIAL TERMS AND CONDITIONS

(Tender enquiry no. 2627-042E dated 09.09.2026 **Due date 21.09.2026**)

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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. Further release of PS as mentioned in 4(a) will also be subject to submission of additional PS as mentioned in 4 (b) above if applicable.

In case of non-submission of PS, 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.

Account details:

Bank Name	STATE BANK OF INDIA
BRANCH	GOINDWAL SAHIB
A/C NO	40179740806
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.

S20 FORCE MAJEURE

This term will supersede the Clause no. 23 of GCC Rev 16

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



SPECIAL TERMS AND CONDITIONS

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ITEM: Purchase of HSFG Fasteners with Delivery at BHEL IVP Goindwal

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 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 NINETY 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.

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)

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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/ 618]. 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. 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.

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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. 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:

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.

GST Law Provision in 'Bill to Ship to' Case

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In case where delivery destination is other than BHEL IVP Goindwal, then the following clause is also applicable: -

As per the extant provisions of Sec. 12(2), read with Sec. 31(1) of CGST Act, 2017, the time limit to raise GST invoice is till the time of removal of goods (where the supply involves movement of goods).

Accordingly, it has been reiterated that customer (BHEL's Customer) billing is also to be done by BHEL at the time of vendor's billing on BHEL on removal of goods from vendor's works and GST liability is to be discharged thereof.

Hence, Vendor is required to inform BHEL at the time of billing/removal of goods. In the case where BHEL is get penalized by GST authority, due to delay in generating the invoice and the core reason for this delay is attributable to supplier, then the penalty imposed on BHEL by GST authorities will be pass on to supplier and deduction will be done from the pending dues of supplier with BHEL.

5. 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.

6. 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.
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:

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- 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.

7. 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.

In case of non-acceptance of delivery schedule, supplier bid is liable to be rejected.

8. 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 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.

9. Payment Terms

1. Payments shall be made to the Seller (MSE / Non MSE) within the mentioned days (as per below table) from the Payment Due date. Vehicle entry date at BHEL Units / Sites / other delivery destinations as mentioned on Lorry Receipt (LR) copy shall be taken as Payment due date.

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

In case there is shortfall in documents/deficiency in material as per the tender terms/purchase orders, the same shall be notified by BHEL to supplier. Payment due date shall be revised accordingly considering submission of all documents/removal of deficiency by supplier.

For availing MSE benefits, latest copy of Udyam certificate shall be submitted.

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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. In case material is delivered at location other than BHEL Goindwal, then LR receipt/acknowledgement is required.
- iii) Material Test Certificates (MTC) and
- iv) Compliance Certificate.

Any additional document required shall be mentioned in special terms & conditions.

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.

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>).

11. Treatment of cases regarding Conflict of Interest

The bidder notes that a conflict of interest would said to have occurred in the tender process and execution of the resultant contract, in case of any of the following situations:

- i) If its personnel have a close personal, financial, or business relationship with any personnel of BHEL who are directly or indirectly related to the procurement or execution process of the contract, which can affect the decision of BHEL directly or indirectly;
- ii) The bidder (or his allied firm) provided services for the need assessment/ procurement planning of the Tender process in which it is participating;
- iii) Procurement of goods directly from the manufacturers/ suppliers shall be preferred. However, if the OEM/ Principal insists on engaging the services of an agent, such agent shall not be allowed to represent more than one manufacturer/ supplier in the same tender. Moreover, either the agent could bid on behalf of the manufacturer/ supplier or the manufacturer/ supplier could bid directly but not both. In case bids are received from both the manufacturer/ supplier and the agent, bid received from the agent shall be ignored. However, this shall not debar more than one Authorized distributor (with/ or without the OEM). from quoting equipment manufactured by an Original Equipment Manufacturer (OEM) in procurements under a Proprietary Article Certificate.

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- iv) A bidder participates in more than one bid in this tender process. Participation in any capacity by a Bidder (including the participation of a Bidder as a partner/ JV member or sub-contractor in another bid or vice-versa) in more than one bid shall result in the disqualification of all bids in which he is a party. However, this does not limit the participation of an entity as a sub-contractor in more than one bid if he is not bidding independently in his own name or as a member of a JV.

The Bidder declares that they have read and understood the above aspects, and the bidder confirms that such conflict of interest does not exist and undertakes that they will not enter into any illegal or undisclosed agreement or understanding, whether formal or informal with other Bidder(s), in this regard. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process. In case, the Bidder is found having indulged in above activities, the same will be considered as a violation of the tender conditions, and suitable action shall be taken by BHEL as per extant policies/ guidelines.

It has to be signed by the authorized signatory of the bidder.

12. 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.

13. 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 Rs. twenty lakhs.
- 2) **(a) In case total PO value on vendor in one tender enquiry is greater than Rs. 20 Lakhs:** 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 of completion of all supplies under the PO.

(b) In case total PO value on vendor is equal to or greater than Rs. 2 crores, then before the release of this PS as mentioned in clause 2 (a) above, vendor has to submit another PS of Rs. one lakh after two months of 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. Further release of PS as mentioned in 2 (a) will also be subject to submission of additional PS as mentioned in 2 (b) above if applicable.

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

Mode of deposit:

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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.

Account details:

Bank Name	STATE BANK OF INDIA
BRANCH	GOINDWAL SAHIB
A/C NO	40179740806
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.

14. 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.

15. Acceptance of Material Supplied

1. The supply shall strictly as per the specifications in the tender /purchase order.

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2. Delivery of the ordered items as per the delivery terms in the Purchase Order does not automatically constitute acceptance of the delivered items.
3. 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.
4. 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.
5. 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.
6. 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 Suspension of Business Dealings with Suppliers /Contractors available in the webpage: <https://www.bhel.com> would be taken against such supplier.

16. 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

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supplier without prejudice to the other remedies available to BHEL under the contract and law in this regard.

17. 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.
- 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.

18. Liquidated Damage (LD)

1. Time is the essence of the contract.
2. The ordered items shall be delivered as per the delivery period mentioned in the Purchase Order.
3. 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.

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4. 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.
5. 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, Vehicle entry date at BHEL Units / Sites / other delivery destinations as mentioned on Lorry Receipt (LR) copy shall be taken as basis for LD calculations.
6. 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.

19. 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.

20. 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.

21. 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.

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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.

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 14th December, 2022 and the decision of AMRCD on the said dispute will be binding on both the parties.”

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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.

22. 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.

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 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.

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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. 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.

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

26. 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.

27. Suspension of Business Dealings with Suppliers / Contractors

The offers of the bidders who are under suspension and 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:

27.1. 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.

27.2. Commitment by Bidder/ Supplier/ Contractor:

27.2.1. 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.

27.2.2. 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.

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27.2.3. 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.

28. 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.

29. 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.

30. 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.

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31. 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.

32. 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

- I. 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.
- 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—

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- 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.

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]."

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, recognize such power of attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the vendor concerned.

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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 within 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, 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.

Signature Not Verified

AMAN SHARMA





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)

34. Treatment in Case of Dealer Acceptance

Whether dealers/agents in tender are acceptable that will be mentioned in tender special terms. In case of acceptance of dealers/agents in tender, below criteria is applicable.

For manufacturers

In case manufacturer insists on engaging a dealer / agent / reseller, such dealer / agent / reseller is not allowed to represent more than one manufacturer for same item. In case more than one dealers/agent of a company quote for same item, then bid of both dealers/agents shall be considered. In case OEM has authorized a particular dealer specific to any tender, then bid of any other dealer of same OEM shall be rejected.

For dealer / agent / reseller:

In case of dealers / agents / reseller, valid authorized dealer certificate is required from original manufacturer (OEM). In case bids are received from dealer / agent and manufacturer both, bid submitted by dealer will be rejected. A dealer representing more than one manufacturer for same item will be rejected. Kindly quote for single make only. Dealer has to provide contact details (like name, e-mail id, telephone no & address) of OEM office issuing "Dealer Authorization Certificate".

35. Enclosure

- Annexure-1: Declaration regarding Insolvency/ Liquidation/ Bankruptcy Proceedings
- Annexure-2: Declaration reg. minimum local content in line with revised public procurement
- Annexure-3: Proforma of Bank Guarantee for Performance Security.
- Annexure-4: List of Consortium Bank.
- Annexure-X: Brief Procedure for Conduct of Conciliation Proceedings
- Appendix-I of Annexure-X
- Appendix-II of Annexure-X
- Appendix-III of Annexure-X





General Conditions of Contract (GCC) of MM Tenders

BHARAT HEAVY ELECTRICALS LIMITED

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Punjab-143422 (INDIA)

Annexure-1

(To be Typed & submitted in the Letter Head of the Company/Firm of Bidder)

To
Bharat Heavy Electrical Limited
Industrial Valves Plant
Goindwal
Punjab-143422

Dear Sir,

Subject: DECLARATION REGARDING INSOLVENCY/ LIQUIDATION/
BANKRUPTCY PROCEEDINGS

Ref: 1) Tender Enquiry No.

I/We, _____ declare that, I/We am/are not
admitted under insolvency resolution process or liquidation under Insolvency and Bankruptcy
Code, 2016, as amended from time to time or under any other law as on date, by NCLT or
any adjudicating authority/authorities.

Yours faithfully,

(Signature, date & seal of authorized representative of the bidder)

Date:

Place:





General Conditions of Contract (GCC) of MM Tenders

BHARAT HEAVY ELECTRICALS LIMITED

Industrial Valve Plant: 433, Industrial Complex,
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Punjab-143422 (INDIA)

Annexure-2

DECLARATION REGARDING MINIMUM LOCAL CONTENT IN LINE WITH
REVISED PUBLIC PROCUREMENT (PREFERENCE TO MAKE IN INDIA), ORDER
2017 DATED 04TH JUNE, 2020 AND SUBSEQUENT ORDER(S)
(To be Typed & submitted in the Letter Head of the Company/Firm of Bidder)

To
Bharat Heavy Electrical Limited
Industrial Valves Plant
Goindwal
Punjab-143422

Dear Sir,

Sub: Declaration reg. minimum local content in line with Public Procurement (Preference to Make in India), Order 2017-Revision, dated 04th June, 2020 and subsequent order(s).

Ref: 1) Tender Enquiry No.

We hereby certify that the items/works/services offered by M/s _____
(Name of of bidder) has a local content of ____% and this meets the local content requirement
for **Class-1 Local supplier/ Class-2 Local supplier** ** as defined in Public
Procurement (Preference to Make in India), Order 2017-Revision dated 04.06.2020 issued
by DPIIT and subsequent order(s).

The details of the location(s) at which the local value addition is made are as follows:

1. _____
2. _____
3. _____
4. _____
- ...

Thanking you,
Yours faithfully,

(Signature, Date & seal of Authorized Signatory of the Bidder)

** - Strike out whichever is not applicable.





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Note:

1. Bidders to note that above format, duly filled & signed by authorized signatory, shall be submitted along with the techno-commercial offer.
2. In case the bidders quoted value is in excess of Rs 10 Crores , the authorized signatory of this declaration shall necessarily be the statutory auditor or cost auditor of the company (in the case of companies) or a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies).
3. In the event of false declaration, actions as per the above order and as per BHEL Guidelines shall be initiated against the bidder





General Conditions of Contract (GCC) of MM Tenders

BHARAT HEAVY ELECTRICALS LIMITED

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Annexure-3

BANK GUARANTEE FOR PERFORMANCE SECURITY (On non-Judicial paper of appropriate value)

Bank Guarantee No.
Date.

To
Bharat Heavy Electrical Limited
Industrial Valves Plant
Goindwal
Punjab-143422

Dear Sirs,

In consideration of Bharat Heavy Electricals Limited (hereinafter referred to as the 'Employer' which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns) incorporated under the Companies Act, 1956 and having its registered office BHEL House, Siri Fort New Delhi through its Unit at BHEL, IVP, Goindwal having awarded to.....
(Name of the Vendor / Contractor / Supplier) with its registered office at..... hereinafter referred to as the 'Vendor / Contractor / Supplier', which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns), a contract Ref No..... valued at Rs. (Rupees)
and the Vendor / Contractor / Supplier having agreed to provide a contract performance bank guarantee, equivalent to ... % (... percent) of the said value of the contract to the employer for the faithful performance of the Contract.

We,, (here in after referred to as the Bank), having registered/Head office atand inter alia a branch atbeing the Guarantor under this Guarantee, hereby irrevocably and unconditionally undertake to forthwith and Immediate pay to the Employer any sum or sums upto a maximum amount of Rs
(Rupees in words) without any demur, immediately on first demand from the Employer and without any reservation, protest, and recourse and without the Employer needing to prove or demonstrate reasons for its such demand.

Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs.....

Signature Not Verified

AMAN SHARMA





General Conditions of Contract (GCC) of MM Tenders

BHARAT HEAVY ELECTRICALS LIMITED

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We undertake to pay to the Employer any money so demanded notwithstanding any dispute or disputes raised by the Vendor / Contractor / Supplier in any suit or proceeding pending before any Court or Tribunal, Arbitrator or any other authority, our liability under this present being absolute and unequivocal.

The payment so made by us under this Guarantee shall be a valid discharge of our liability for payment thereunder and the Vendor / Contractor / Supplier shall have no claim against us for making such payment.

We the.....Bank further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Contract/ satisfactory completion of the performance guarantee period as per the terms of the Contract and that it shall continue to be enforceable till all the dues of the employer under or by virtue of the said Contract have been fully paid and its claims satisfied or discharged.

We.....Bank further agree that the Employer shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Contract or to extend time of performance by the said Vendor /Contractor / Supplier from time to time or to postpone for any time or from time to time any of the powers exercisable by the Employer against the said Vendor / Contractor / Supplier and to forbear or enforce any of the terms and conditions relating to the said Contract and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Vendor / Contractor / Supplier or for any forbearance, act or omission on the part of the Employer or any indulgence by the Employer to the said Vendor / Contractor / Supplier or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

The Bank also agrees that the Employer at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against the Vendor / Contractor/ Supplier and notwithstanding any security or other guarantee that the Employer may have in relation to the Vendor /Contractor / Supplier 's liabilities.

This Performance Bank Guarantee shall remain in force upto..... and including and shall be extended from time to time for such period as may be desired by Employer.

This Guarantee shall not be determined or affected by liquidation or winding up, dissolution or change of constitution or insolvency of the Vendor / Contractor / Supplier but shall in all respects and for all purposes be binding and operative until payment of all money payable to the Employer in terms thereof.





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Unless a demand or claim under this guarantee is made on us in writing on or before the.....we shall be discharged from all liabilities under this guarantee thereafter.

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

Courts at shall alone have exclusive jurisdiction over any matter arising out of or in connection with this bank guarantee.

We Bank lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Employer in writing.

Notwithstanding anything to the contrary contained hereinabove:

- a) The liability of the Bank under this guarantee shall not exceed-----
- b) This Guarantee shall be valid up to -----
- c) Unless the Bank is served a written claim or demand on or before..... all rights under this guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities under this guarantee irrespective of whether or not the original bank guarantee is returned to the Bank.

We, Bank have power to issue this Guarantee under law and the undersigned as a duly authorized person has full powers to sign this Guarantee on behalf of the Bank.

For and on behalf of
(Name of the Bank)

Date:

Place of Issue:

Notes:

1. The BG should be on Non-Judicial Stamp paper/e-stamp paper of appropriate value as per Stamp

Act prevailing in the State(s) where the BG is submitted or is to be acted upon or the rate prevailing in the State where the BG was executed, whichever is higher. The Stamp Paper/estamp paper shall be purchased in the name of Contractor/sub-contractor /vendor/ Bank issuing the guarantee.

Signature Not Verified

AMAN SHARMA





General Conditions of Contract (GCC) of MM Tenders

BHARAT HEAVY ELECTRICALS LIMITED

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Annexure-4

LIST OF CONSORTIUM BANKS

Sl. No.	NAME OF THE BANK
1	State Bank of India
2	Canara Bank
3	IDBI Bank Limited
4	ICICI Bank Limited
5	HDFC Bank Limited
6	Axis Bank
7	IndusInd Bank Limited
8	Bank of Baroda
9	Exim Bank
10	Indian Bank
11	Punjab National Bank
12	Union Bank of India
13	Yes Bank Limited
14	RBL Bank Ltd.
15	Standard Chartered Bank
16	Indian Overseas Bank
17	Kotak Mahindra Bank Limited
18	Federal Bank Limited
19	Hongkong and Shanghai Banking Corporation Ltd

Signature Not Verified

AMAN SHARMA





General Conditions of Contract (GCC) of MM Tenders

BHARAT HEAVY ELECTRICALS LIMITED

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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.

Signature Not Verified

AMAN SHARMA





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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 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.

Signature Not Verified

AMAN SHARMA





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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.
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 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.

Signature Not Verified

AMAN SHARMA





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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	In cases involving claim and/or counter-claim of up to Rs 5crores. Rs 50,000/- (Sole Conciliator) In cases involving claim and/or counter-claim of exceeding Rs 5 crores but less than Rs 10 crores. Rs. 75,000 (per Conciliator) In cases involving claim and/or counter-claim of more than Rs 10 crores. Rs 1,00,000/- (per Conciliator) 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.
3	Secretarial expenses	Rs 10,000/- (one time) for the whole case for Conciliation by a Sole Member IEC. Where Conciliation is by multi member Conciliators –Rs 30,000/- (one time)- to be paid to the IEC
4	Travel and transportation and stay at outstation	As per entitlement of the equivalent officer (pay scale wise) in BHEL.
	i Retired Senior Officials of other Public Sector Undertakings (pay scale wise equivalent to or more than E-8 level of BHEL) Others	As per the extant entitlement of whole time Functional Directors in BHEL.

Signature Not Verified

AMAN SHARMA





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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.
---	-------------------	--

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.

Signature Not Verified

AMAN SHARMA





General Conditions of Contract (GCC) of MM Tenders

BHARAT HEAVY ELECTRICALS LIMITED

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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:
- Views expressed or suggestions made by the other party in respect of a possible settlement of the Disputes;
 - admissions made by the other party in the course of the Conciliator proceedings;
 - proposals made by the Conciliator;
 - 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.





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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





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BHARAT HEAVY ELECTRICALS LIMITED

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Punjab-143422 (INDIA)

Appendix-II of Annexure-X

**FORMAT FOR GIVING CONSENT BY
CONTRACTOR/VENDOR/CUSTOMER/COLLABORATOR/CONSORTI
UM PARTNERSFOR 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**





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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. 2627-042E dated 09.09.2026 **Due date 21.09.2026**

Tender Description: Purchase of HSFG Fasteners with Delivery at BHEL IVP Goindwal

(Annexure - P)

Pre-Qualification Criteria – As per Tender Special Term S2.c							
S.N.	Required executed order value as per NIT (Net of Taxes) (INR)	Executed order value (Net of Taxes) as per bidder (INR)	Purchase order no. and date [PO date should be on or after 01.09.2023 till tender Part-1 bid opening date]	Purchase Order issued by (Client name) M/s	Item description as per PO	Documents submitted against completion /execution proof of the afore mentioned PO (Invoice / Consignee Receipt Note / Completion Certificate) [Document date should be on or after 01.09.2023 till tender Part-1 bid opening date]	Full address of the client and contact person (Name & Details i.e. Mail ID, Mobile No. etc)
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.

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. 2627-042E dated 09.09.2026 Purchase of HSFG Fasteners with Delivery at BHEL IVP Goindwal

_____ (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 Bharatiya Nyaya Sanhita (BNS) 2023 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 Bharatiya Nyaya Sanhita (BNS) 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 (to be reckoned from date of bid submission) with any other company in any country conforming to the anti-corruption approach in India that could justify his exclusion from the tender process. The date of such transgression, for the purpose of disclosure by the bidders in this regard, would be the date on which cognizance of the said transgression was taken by the competent authority. The transgression(s), for which cognizance was taken even before the said period of three years, but are pending conclusion, shall also be reported by the bidders.
- 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 a joint venture, all the partners of the joint venture should sign the Integrity Pact. In case of Sub-contracting, the Principal Contractor shall be solely responsible for the adherence to the provisions of IP by the sub-contractor(s).
- 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 on receipt of any complaint by them from the bidder(s).
- 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 /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 role of IEM is advisory and the advice of IEM is non-binding on the Organization. However, as IEMs are invariably persons with rich experience who have retired as senior functionaries of the government, their advice would help in proper implementation of the IP.

- 8.6 For ensuring the desired transparency and objectivity in dealing with the complaints arising out of the tendering process, the matter should be examined by the full panel of IEMs jointly, who would look into the records, conduct an examination, and submit their joint recommendations to the Management. In case the full panel is not available due to some unavoidable reasons, the available IEM(s) will conduct examination of the complaints. Consent of the IEM(s), who may not be available, shall be taken on record.
- 8.7 The IEMs shall examine all the representations/grievances/ complaints received by them from the bidders or their authorized representative related to any discrimination on account of lack of fair play in modes of procurement and bidding systems, tendering method, eligibility conditions, bid evaluation criteria, commercial terms & conditions, choice of technology/ specifications etc.
- 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 Bharatiya Nyaya Sanhita (BNS)/ 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.
- 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. 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. If required, the Principal may adopt any mediation rules for this purpose. However, not more than five meetings shall be held for a particular dispute resolution. The fees/expenses on dispute resolution shall be equally shared by both the parties. 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.

For & On behalf of the Principal
(Office Seal)

Place Goindwal Sahib
Date 09.09.2026

Witness: Rajesh kumar
(Name & Address) BHEL
1VP Goindwal

Rajesh Kumar
राजेश कुमार/Rajesh Kumar
(व्यापारिक नया विकास क्षेत्र)/(Comm. N. Growth Area)
भारत हेवी इलेक्ट्रिकल्स लिमिटेड
BHARAT HEAVY ELECTRICALS LIMITED
(भारत सरकार का उपक्रम/A Govt. of India Undertaking)
इंडस्ट्रियल वाल्व्स प्लांट/433, Industrial Valves Plant,
गोइंदवाल (तारन)/Goindwal, (Tarn Taran)

For & On behalf of the Bidder/ Contractor
(Office Seal)

Witness: _____
(Name & Address) _____

Make in India (MII) and Local Content Declaration

To whom it may concern

In line with Government Public Procurement Order No. P-45021/2/2017-BE-II dt. 15.06.2017, as amended from time to time and as applicable on the date of submission of tender, we hereby certify that we M/s. _____ (supplier name) are (tick whichever is applicable as below)

“Class-I local supplier” meeting the requirement of minimum local content equal to 50% or more defined in above mentioned government notification for the goods & services

Tick
Here

(or)

“Class-II local supplier” meeting the requirement of minimum local content 20 % to less than 50% defined in above mentioned government notification for the goods & services

Tick
Here

(or)

Non-local supplier (if not belonging to Class-I & Class-II)

Tick
Here

against Tender Enquiry No. 2627-042E dt. 09.09.2026

Description: **Purchase of HSFG Fasteners with Delivery at BHEL IVP Goindwal**

Details of location at which local value addition will be made is as follows:

We also understand, false declarations will be considered as breach of Integrity and will be liable for action.

Authorized Signatory _____

UDIN _____
(for Practicing Chartered Accountants)

PART-I (TECHNO-COMMERCIAL BID)

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

Tender Enquiry No. & Date**2627-042E dated 09.09.2026****Tender Description****Purchase of HSFG Fasteners with Delivery at BHEL IVP Goindwal**

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	Name / Designation
	Details	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	Company registration No. & Incorporation Certificate	
10	PF No.	
11	ESIC No.	
12	PAN No.	
13	GST No.	
14	Name of major / reputed Companies where the vendor is registered	
15	Whether company is registered under MSMED Act 2006 as Micro / Small / Medium Enterprise category. <i>(If yes, please attach valid certificate as per latest MSME guidelines)</i>	Select from drop down list
	If Yes, Please specify the Enterprise Category	Select from drop down list
	Ownership status of MSE Bidder	Select from drop down list

If yes, mention
UDYAM registration
number Here**TECHNICAL CONDITION DETAIL**

Sr. No.	Elements	Response	Remarks
I	Technical Documents Applicable : Technical Delivery Condition (TDC) with document no. TDC/5215/Rev.03 dt. 08.08.26. [8 pages Document]	Select from drop down list	
II	Technical Documents Applicable : Standard Quality Plan (SQP) with Document no. SQP:HSFG:001 Rev. 06 dt. 21.08.2026 along with Heat Treatment Process Checklist and Torque Tightening Procedure. [9 pages Document]	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

2627-042E dated 09.09.2026

Tender Description

Purchase of HSFG Fasteners with Delivery at BHEL IVP Goindwal

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III

Technical Documents Applicable :

Additional Technical Conditions of Contract with Document No.: BHEL:TCC:HSFG:Rev00

Date: 20.08.2026

[2 pages Document]

I thoroughly read this document and will comply all the requirements of Additional Technical Conditions of Contract with Document No.: BHEL:TCC:HSFG:Rev00 Date: 20.08.2026. Following are the few major Confirmations Required as below : - (From Sr. No. III.1 to III.5)

III.1

Refer Condition 2.1 : Bidder to confirm the availability of of following Facilities IN-HOUSE: -
a) Production Facilities: -
i. Cold / Hot Forging Facility
ii. Thread rolling machines
iii. Controlled heat treatment furnace / Facility
b) Testing Facility: All equipment must have valid NABL calibration certification: -
i. Universal Testing Machine (UTM)
ii. Spectrometer
iii. Hardness tester (Rockwell & Vickers)
iv. Metallurgical Microscope
v. Torque testing facility
If testing facility is not available in house, testing shall be witnessed at NABL approved lab only.

Select from drop down list

III.2

Refer Condition 3.1 : Bidder to Confirm : **Source of Steel** - Input steel for all bolt assemblies shall be sourced exclusively from original steel producers having valid BIS license for IS 5517 or alternately from their authorized dealers, stockiest, channel partners with current validity. Sourcing of Steel from traders or intermediaries is not allowed. The fastener manufacturer itself cannot self-certify input steel.

Select from drop down list

III.3

Refer Condition 3.2 : Bidder to Confirm : **Material Test Certificate (Format & Content)** shall be complied as detailed in this condition.

Select from drop down list

III.4

Refer Condition 4.0 : Bidder to Confirm that the **Manufacturing Process Requirements** shall be complied as detailed in this condition.

Select from drop down list

III.5

Refer Condition 5.1 : Bidder to Confirm that they shall have **one qualified full time QC Engineer on company rolls**

Select from drop down list

IV

Technical Documents Applicable :

Rust Preventive Oil (RPO) specifications with document no. PR:CHEM:09-04 Rev 03 dated 01.04.2009.

[3 pages Document]

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****2627-042E dated 09.09.2026****Tender Description****Purchase of HSFG Fasteners with Delivery at BHEL IVP Goindwal**

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COMMERCIAL CONDITIONS & DETAILS

Sr. No.	Elements	Response	Remarks (if any)
1	GST / Taxes Applicable	Select from drop down list	
2	Delivery Destination for all the items is BHEL IVP Goindwal (refer tender special term S1 and S6)	Select from drop down list	
3	Self Declaration by Bidder : It is hereby declared that Bidder is 'manufacturer of Fasteners' and submitted the List of Machinery (Refer special terms S2.a).	Select from drop down list	
4	Bidder should have Minimum Average Annual Financial Turnover of Rs. of Rs. [as mentioned in Column A of Table 3 in tender special terms], over any three financial years out of the last 4 Financial years viz. FY 2022-23, 2023-24, 2024-25 and 2025-26 (Refer special term S2.b)	Select from drop down list	
5	Bidder has to submit one or more purchase order/s of 'similar item' (refer Table 2 of tender Special terms) from any customer with minimum cumulative value of Rs. [as mentioned in Column B of Table 3 in tender special terms] along with the proof of execution (Refer special term S2.c).	Select from drop down list	
6	Delivery Period: 90/120 Days from date of placement of PO / LOI (refer tender special term S4)	Select from drop down list	
7	Validity: 75 days from techno commercial bid opening. (refer tender special term S5)	Select from drop down list	
8	Unloading (refer tender special term S6)	Select from drop down list	
9	Differential Freight Clause (Refer special terms S9)	Select from drop down list	
10	Packing of Material should be inline with tender requirements (Refer special terms S13)	Select from drop down list	
11	Compliances - Applicable for 16 items (Refer special terms S15)	Select from drop down list	
12	Detention Charges - while unloading at site (Refer special terms S16)	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

2627-042E dated 09.09.2026

Tender Description

Purchase of HSFG Fasteners with Delivery at BHEL IVP Goindwal

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13	Compliance to Integrity Pact : Bidder has to attach the undertaking along with offer as per Annexure-R (Refer special term S18). Also checked the following while submitting Annexure - R. i) Name of the Bidder in Page -1 of the Integrity Pact. ii) Name, Signature, Address and stamp of the bidder in the Page-5 (last page) of Integrity Pact. iii) Signature, Name and address of the Witness in the Page-5 (last page) of Integrity Pact.	Select from drop down list	
14	<u>Performance Security (PS) :</u> Successful bidders (L1 or counter-offer accepted, wherever applicable) are required to submit performance security of upto 5% of the contract value, subject to maximum value of Rs. 5 Lakh , within 21 days from the award of PO/LOI. (Refer special terms S19)	Select from drop down list	
15	Payment term: (Refer Clause 9 of General Contract Conditions (GCC)).	Select from drop down list	
16	Treatment of cases regarding Conflict of Interest (Refer clause no. 11 of General Contract conditions (GCC)) Bidder declares that they have read and understood the above aspects, and the bidder confirms that such conflict of interest does not exist and undertakes that they will not enter into any illegal or undisclosed agreement or understanding, whether formal or informal with other Bidder(s), in this regard. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.	Select from drop down list	
17	Breach of contract and Termination (Refer clause no. 14 of General Contract conditions (GCC))	Select from drop down list	
18	Warranty Period: 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. 16 of GCC)	Select from drop down list	

PART-I (TECHNO-COMMERCIAL BID)

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

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3. Any alteration to terms mentioned by BHEL will be considered as tampering and bidder's offer shall be liable for rejection.
4. **Bidders are advised to only fill the unprotected cells (shaded cells) by dropdown or writing the comments as applicable as their confirmation. Bidders are advised to submit duly filled & signed 'PDF' file as techno-commercial (Part-I) bid'. Failure on the part of bidder in not returning this duly filled-up techno-commercial bid and / or submitting incomplete replies may lead to rejection of bidder's quotation.**
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.

19	LD clause: Penalty for late delivery will be applicable @ 0.5% per week or part thereof subject to a maximum of 10.0 %. (Refer clause no. 18 of General Contract conditions (GCC)).		Select from drop down list	
20	Make in India (MII) (Refer clause no. 20 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	
21	Certificate regarding Restrictions Under Rule 144(XI) of The GFR, 2017 (Refer clause no. 32 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	
22	Declaration regarding Insolvency/ Liquidation/ Bankruptcy proceedings (Refer clause no. 35 of GCC, Annexure I)	Bidder is not admitted under insolvency resolution process or liquidation under Insolvency and Bankruptcy Code, 2016, as amended from time to time or under any other law as on date, by NCLT or any adjudicating authority/authorities.	Select from drop down list	
23	I have thoroughly gone through the attached tender terms & conditions and understood the above techno-commercial requirements		Select from drop down list	
24	Rates quoted are Exclusive of taxes & FOR DESTINATION basis		Select from drop down list	
25	If there is any deviation in reference to any of the tender term, kindly mention it HERE only. Deviation specified elsewhere, will not be considered.		Select from drop down list	

Item detail

Item Sl. no.	Material Code	Material Description	Quantity, in Nos.	Quoted / not quoted	Remarks (if any)
--------------	---------------	----------------------	-------------------	---------------------	------------------

PART-I (TECHNO-COMMERCIAL BID)

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

Tender Enquiry No. & Date

2627-042E dated 09.09.2026

Tender Description

Purchase of HSFG Fasteners with Delivery at BHEL IVP Goindwal

Bidder must note following points:

1. This workbook is protected, except for cells where comments / confirmation is to be given by bidder.
2. Bidder is advised not to unprotect / tamper the sheet / alter the terms mentioned in the sheet.
3. Any alteration to terms mentioned by BHEL will be considered as tampering and bidder's offer shall be liable for rejection.
4. Bidders are advised to only fill the unprotected cells (shaded cells) by dropdown or writing the comments as applicable as their confirmation. **Bidders are advised to submit duly filled & signed 'PDF' file as techno-commercial (Part-I) bid**. Failure on the part of bidder in not returning this duly filled-up techno-commercial bid and / or submitting incomplete replies may lead to rejection of bidder's quotation.
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.

1	412400010000	M24x70 EXTENDED HSFG BOLTS&NUTS Grade8.8	48,317	Select from drop down list	
2	412400020000	M24x90 EXTENDED HSFG BOLTS&NUTS Grade8.8	4,02,536	Select from drop down list	
3	412400030000	M24x130 EXTENDEDHSFG BOLTS&NUTS Grade8.8	1,40,955	Select from drop down list	
4	412400050000	M24X200 EXTENDED HSFG BOLT &NUT GRADE8.8	5,000	Select from drop down list	
5	412403009001	M30X90 EXTENDED HSFG BOLTS&NUTS GR.10.9	21,600	Select from drop down list	
6	412403013001	M30X130 EXTENDED HSFG BOLTS&NUTS GR.10.9	3,21,051	Select from drop down list	
7	412403017001	M30X170 EXTENDED HSFG BOLTS&NUTS GR.10.9	34,966	Select from drop down list	
8	412403020001	M30X200 EXTENDED HSFG BOLTS&NUTS GR.10.9	45,868	Select from drop down list	
9	412400060000	EXT M30X230 HSFG BOLT & NUT	49,312	Select from drop down list	
10	412412006001	M20X60 EXTENDED HSFG BOLTS&NUTS GR.8.8	22,780	Select from drop down list	
11	412413610001	M36X100 EXTENDED HSFG BOLT&NUT GR.10.9	32,796	Select from drop down list	
12	412413612001	M36X120 EXTENDED HSFG BOLT&NUT GR.10.9	3,000	Select from drop down list	
13	412413614001	M36X140 EXTENDED HSFG BOLT&NUT GR.10.9	2,000	Select from drop down list	
14	412413616001	M36X160 EXTENDED HSFG BOLT&NUT GR.10.9	2,000	Select from drop down list	
15	412413619001	M36X190 EXTENDED HSFG BOLT&NUT GR.10.9	2,000	Select from drop down list	
16	412413620000	M36x200 HSFG BOLTS & NUTS Grade 10.9	2,000	Select from drop down list	
17	414190003600	M36 WASHER Grade 10.9	33,500	Select from drop down list	
18	414180002400	M24 WASHER Grade 8.8	7,64,571	Select from drop down list	
19	414190003000	M30 WASHER Grade 10.9	7,42,770	Select from drop down list	
20	414190001600	M16 WASHER Grade 10.9	5,000	Select from drop down list	

Validate

Print

Help

Item Wise BoQ

Tender Inviting Authority: BHEL IVP Goindwal Sahib

Name of Work: Purchase of HSFG Fasteners with Delivery at BHEL IVP Goindwal

Contract No: 2627-042E Dated 09.09.2026

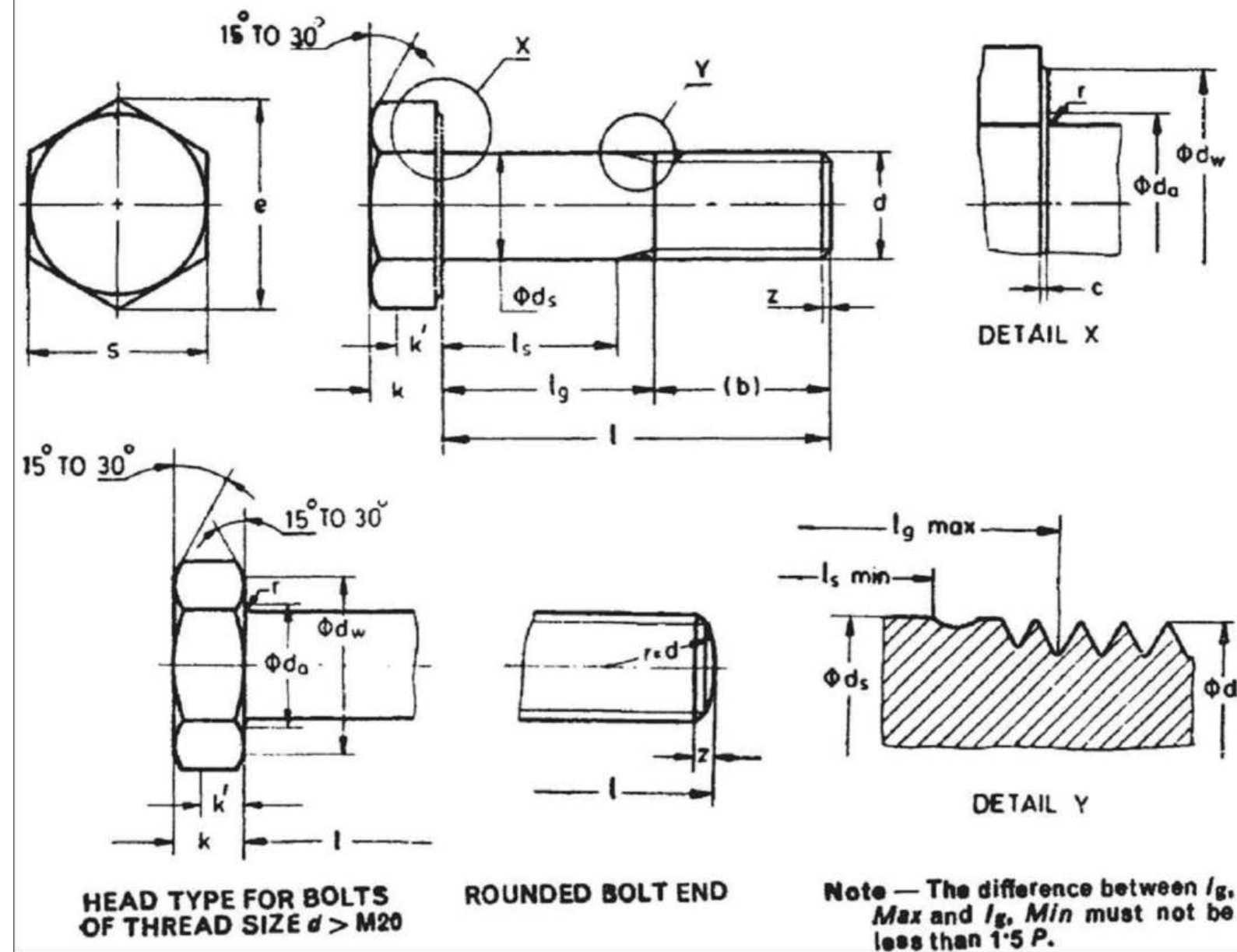
Name of the
Bidder/ Bidding
Firm / Company
:**PRICE SCHEDULE**

(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)

NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #	NUMBER #
Sl. No.	Item Description [Delivery Destination for all items is BHEL IVP Goindwal]	Item Code / Make	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder in Rs. Per piece
1	2	3	4	5	7
1	M24x70 EXTENDED HSFG BOLTS&NUTS Grade8.8	412400010000	48,317	Number	
2	M24x90 EXTENDED HSFG BOLTS&NUTS Grade8.8	412400020000	4,02,536	Number	
3	M24x130 EXTENDED HSFG BOLTS&NUTS Grade8.8	412400030000	1,40,955	Number	
4	M24X200 EXTENDED HSFG BOLT &NUT GRADE8.8	412400050000	5,000	Number	
5	M30X90 EXTENDED HSFG BOLTS&NUTS GR.10.9	412403009001	21,600	Number	
6	M30X130 EXTENDED HSFG BOLTS&NUTS GR.10.9	412403013001	3,21,051	Number	
7	M30X170 EXTENDED HSFG BOLTS&NUTS GR.10.9	412403017001	34,966	Number	
8	M30X200 EXTENDED HSFG BOLTS&NUTS GR.10.9	412403020001	45,868	Number	
9	EXT M30X230 HSFG BOLT & NUT	412400060000	49,312	Number	
10	M20X60 EXTENDED HSFG BOLTS&NUTS GR.8.8	412412006001	22,780	Number	
11	M36X100 EXTENDED HSFG BOLT&NUT GR.10.9	412413610001	32,796	Number	
12	M36X120 EXTENDED HSFG BOLT&NUT GR.10.9	412413612001	3,000	Number	
13	M36X140 EXTENDED HSFG BOLT&NUT GR.10.9	412413614001	2,000	Number	
14	M36X160 EXTENDED HSFG BOLT&NUT GR.10.9	412413616001	2,000	Number	
15	M36X190 EXTENDED HSFG BOLT&NUT GR.10.9	412413619001	2,000	Number	
16	M36x200 HSFG BOLTS & NUTS Grade 10.9	412413620000	2,000	Number	
17	M36 WASHER Grade 10.9	414190003600	33,500	Number	
18	M24 WASHER Grade 8.8	414180002400	7,64,571	Number	

Sl. No.	Item Description [Delivery Destination for all items is BHEL IVP Goindwal]	Item Code / Make	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder in Rs. Per piece
19	M30 WASHER Grade 10.9	414190003000	7,42,770	Number	
20	M16 WASHER Grade 10.9	414190001600	5,000	Number	

DRAWING NO:
3-35-700-06802

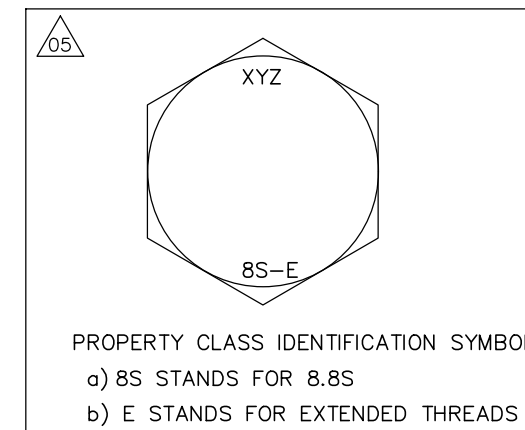


HSGF BOLT FIGURE AS GIVEN IN IS-3757 STANDARD

Sl.No	Bolt Variant	l (mm)	b (mm)	l _g (mm)	Bolt head color
1	M24X70-Extended	70	65	5	Red
2	M24X90-Extended	90	70	20	Green
3	M24X130-Extended	130	80	50	Orange
4	M24X170-Extended	170	80	90	Blue
5	M24X200-Extended	200	80	120	Yellow

NOTES:

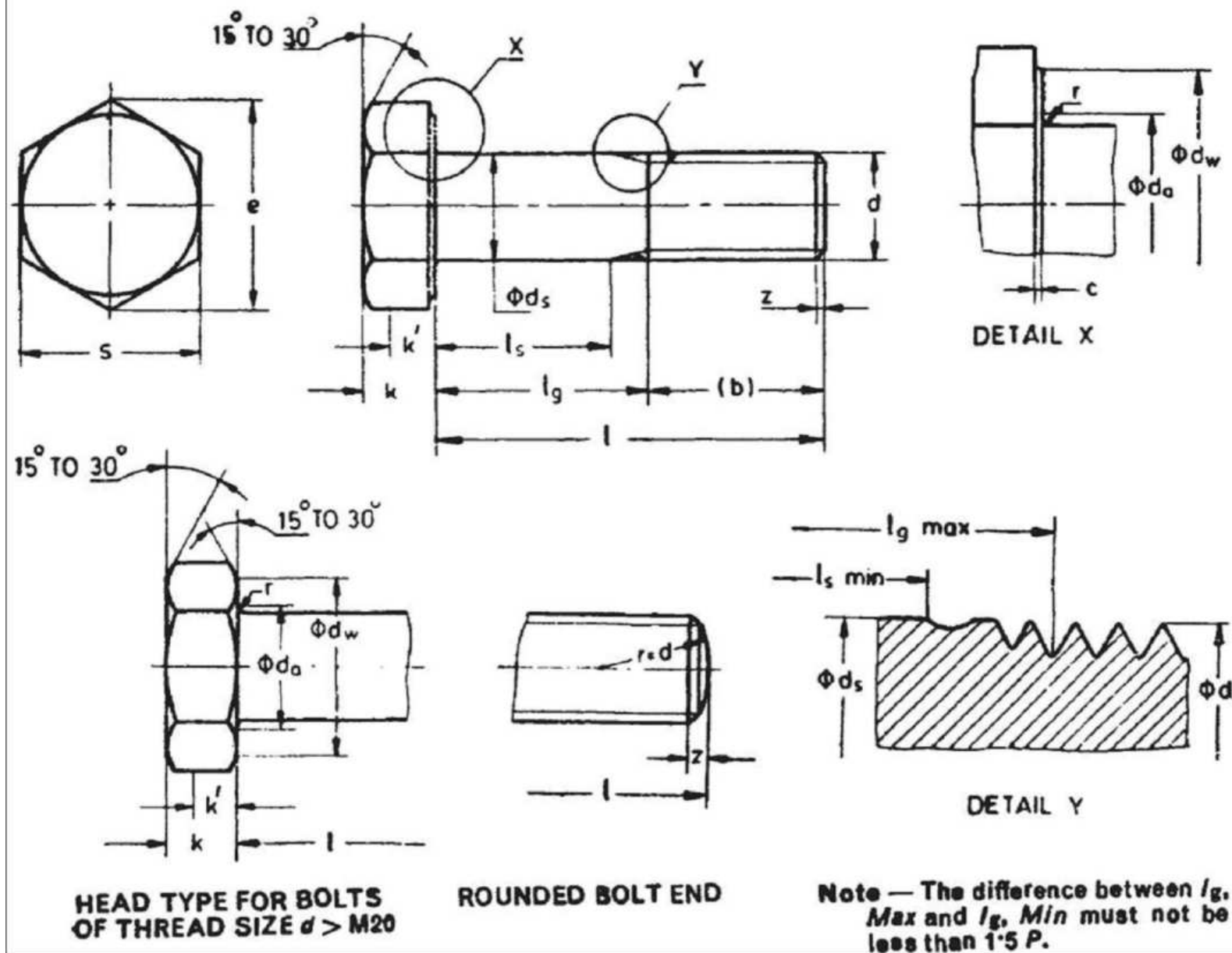
1. THE THREADED PORTION AND SHANK LENGTH ARE TO BE FOLLOWED AS PER TABLE
2. OTHER DIMENSIONS ARE AS PER IS-3757 STANDARD
3. BOLTS PROPERTY CLASS 8.8.



REV	DATE	ALTERED : PRAVEEN	REV	DATE	ALTERED : K.S.PANDIAN
06	28.10.2023	CHD & APPD: GANESAN	03	25-04-2019	CHD & APPD: MUTHU.S
		M24X200 - EXTENDED ADDED.			SKETCH RESIZED
REV	DATE	ALTERED : R.GOVINDASAMY	REV	DATE	ALTERED : SHAILESH
05	21.10.2022	CHD & APPD: S.MUTHU	02	16.08.2018	CHD & APPD: MPN/MUTHU.S
05		PROPERTY CLASS IDENTIFICATION SYMBOL ADDED.			NOTES NO.03 ADDED.
REV	DATE	ALTERED : K.PRAKASH	REV	DATE	ALTERED : MUTHU
04	01.11.2019	CHD & APPD: YUVARAJ.S	01	21.07.2018	CHD & APPD: SARAVANA
		TABLE UPDATED WITH COLOR REQUIREMENT ON BOLT HEAD			DIMENSIONS UPDATED IN FIGURE

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.

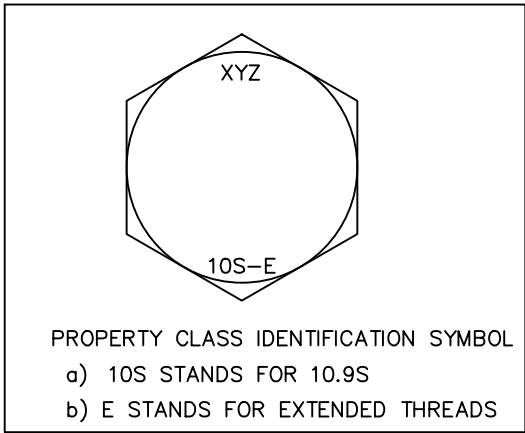
TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT				Bharat Heavy Electricals Ltd UNIT: HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI - 620014			
DEPT	ST	ALL DIMENSIONS ARE IN MM	PROJECTION	SCALE	WEIGHT (Kg)	REF TO ASSY / OLD DWG	
CODE	122						
TITLE						DRAWING NO :	REV
M24X70,90,130 170-EXTENDED THREAD-HSGF BOLTS						3-35-700-06802	06



HSFG BOLT FIGURE AS GIVEN IN IS-3757 STANDARD

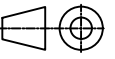
Sl.No	Bolt Variant	l (mm)	b (mm)	l _g (mm)	Bolt head color
1	M30X90-Extended	90	70	20	GREEN
2	M30X130-Extended	130	80	50	ORANGE
3	M30X170-Extended	170	90	80	BLUE
4	M30X200-Extended	200	80	120	YELLOW
5	M30X230-Extended	230	80	150	RED

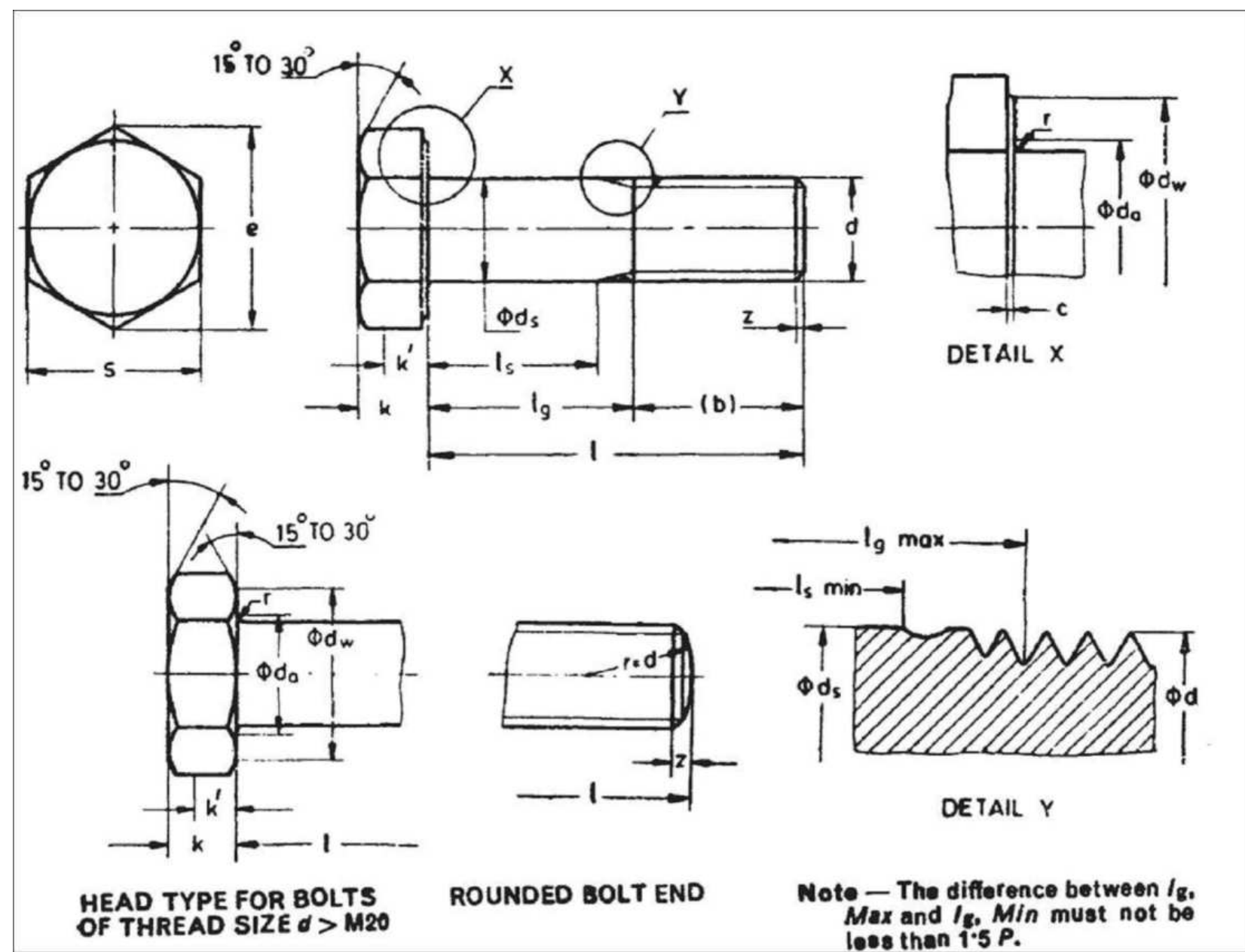
- NOTES:
1. THE THREADED PORTION AND SHANK LENGTH ARE TO BE FOLLOWED AS PER TABLE
 2. OTHER DIMENSIONS ARE AS PER IS-3757 STANDARD
 3. BOLTS PROPERTY CLASS 10.9.



REV	DATE	ALTERED : SUBATHRA DEVI P
01	27.05.2026	CHD & APPD: ASHWIN
		M30 X 230 VARIANT ADDED

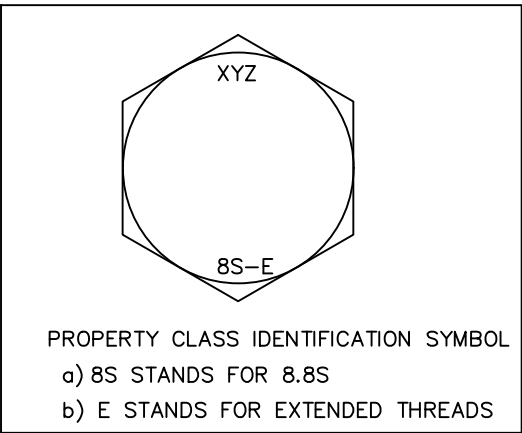
CAUTION: The information on this document is the property of BHARAT HEAVY ELECTRICALS LTD. It must not be used directly or indirectly in any way detrimental to the interest of the company.

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT			
 355-055	Bharat Heavy Electricals Ltd UNIT: HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI - 620014		
	DRN	NAME S.SETHUPATHI	SIGNATURE DATE 30.04.2022
	CHD	KRG/MPN/VRS/AGN/YUVA	30.04.2022
DEPT ST	ALL DIMENSIONS ARE IN MM	PROJECTION 	SCALE
CODE 122		WEIGHT (Kg)	REF TO ASSY / OLD DWG
TITLE M30X90,130,170&200-EXTENDED THREAD-HSFG BOLTS			DRAWING NO : 3-35-700-09999
			REV 01



Sl.No	Bolt Variant	l (mm)	b (mm)	lg (mm)	Bolt head color
1	M20X60-Extended	60	55	5	MAGENTA
2	M20X90-Extended	90	70	20	GREEN
3	M20X130-Extended	130	70	60	ORANGE
4	M20X160-Extended	160	70	90	INDIGO

- NOTES:
1. THE THREADED PORTION AND SHANK LENGTH ARE TO BE FOLLOWED AS PER TABLE
 2. OTHER DIMENSIONS ARE AS PER IS-3757 STANDARD
 3. BOLTS PROPERTY CLASS 8.8.



HEAD TYPE FOR BOLTS
OF THREAD SIZE $d > M20$

ROUNDED BOLT END

Note - The difference between l_g ,
Max and l_g , Min must not be
less than $1.5 P$.

HSFG BOLT FIGURE AS GIVEN IN IS-3757 STANDARD

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.

TYPE OF PRODUCT
OR NAME OF
CUSTOMER/PROJECT



Bharat Heavy Electricals Ltd
UNIT: HIGH PRESSURE BOILER PLANT
TIRUCHIRAPALLI - 620014

355-055

DEPT

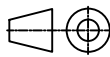
ST

CODE

122

ALL
DIMENSIONS
ARE IN MM

PROJECTION



SCALE

WEIGHT (Kg)

REF TO ASSY / OLD DWG

DRN

NAME

S.SETHUPATHI

SIGNATURE

DATE

30.04.2022

CHD

KRG/MPN/VRS/AGN/YUVA

30.04.2022

APPD

K.RAJMOHAN

30.04.2022

TITLE

M20X60,90,130&160-EXTENDED
THREAD-HSFG BOLTS

DRAWING NO :

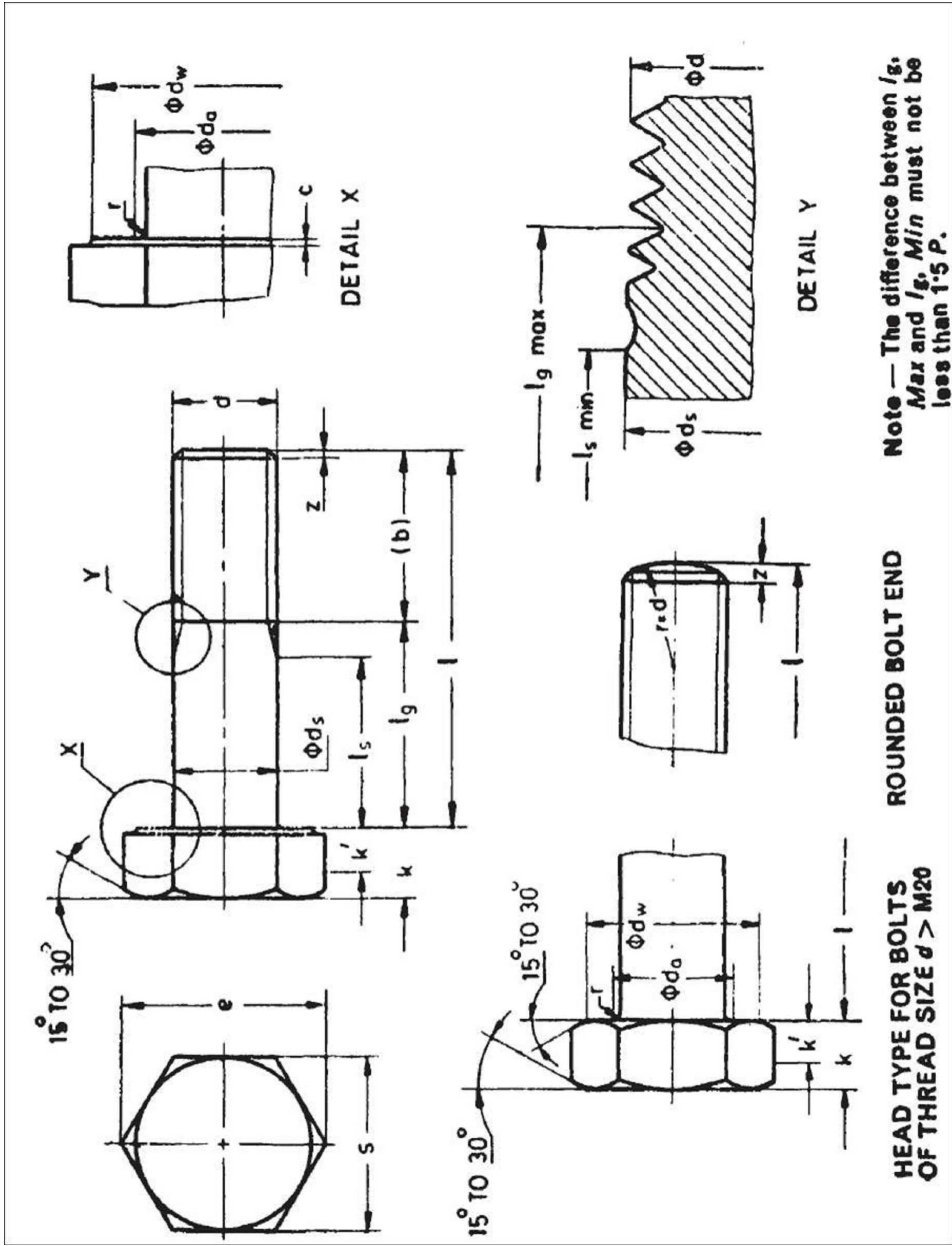
3-35-700-09998

REV

00

DRAWING NO:

0-86-700-A0323

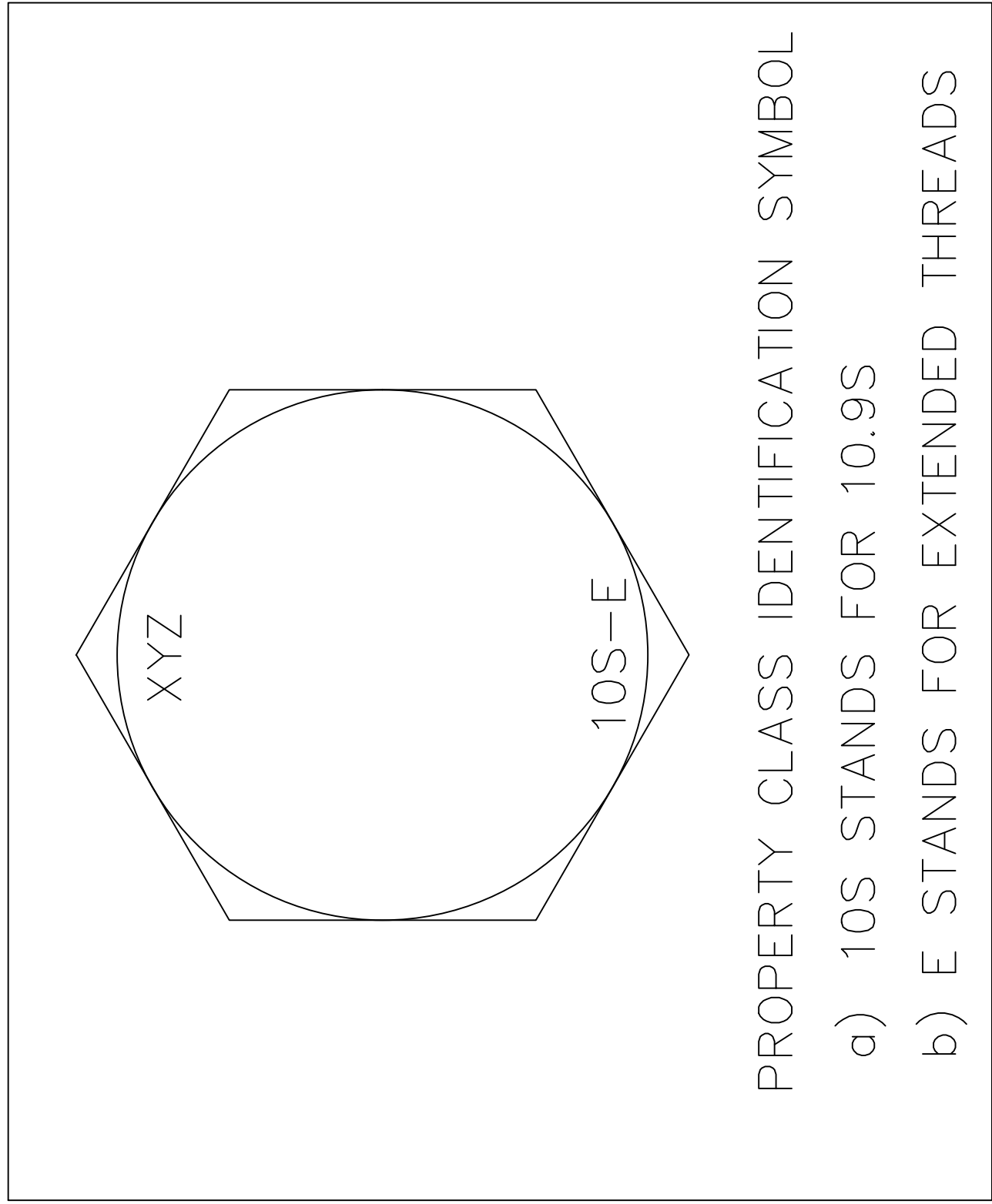


HSFG BOLT FIGURE AS GIVEN IN IS-3757 STANDARD

Sl.No.	Bolt Variant	l(mm)	b(mm)	lg(mm)	Bolt head colour
1	M36X100-Extended	100	85	15	GREEN
2	M36X120-Extended	120	85	35	ORANGE
3	M36X140-Extended	140	95	45	BLUE
4	M36X160-Extended	160	95	65	YELLOW
5	M36X190-Extended	190	105	85	RED

NOTES:

- THE THREADED PORTION AND SHANK LENGTH ARE TO BE FOLLOWED AS PER TABLE
- OTHER DIMENSIONS ARE AS PER IS-3757 STANDARD
- BOLTS PROPERTY CLASS 10.9.



TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT		Bharat Heavy Electricals Ltd		DRN	NAME	SIGNATURE	DATE
		UNIT: HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI — 620014		CHD	JKJ		14.02.2024
DEPT CIVIL CODE 497		ALL DIMENSIONS ARE IN MM	PROJECTION SCALE	WEIGHT (Kg)	TMSR		14.02.2024
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.				REF TO ASSY / OLD DWG			
TITLE M36X100,120,140,160&190-EXTENDED THREAD-HSFG BOLTS		DRAWING NO : 0-86-700-A0323		REV 00			

	BHEL – Tiruchirappalli - 620014, India. Quality Assurance Department TECHNICAL DELIVERY CONDITIONS	DOC No: TDC:5:215 Rev: 03 Effective Date: 08/08/2026 Page: 1 of 8
Product: Extended Thread High Strength Friction Grip Fasteners For Structural (Property class Bolt 8.8,10.9/ Nut 8 &10)		

Revision record:

Rev 00: Dt 14/11/2019 – Fresh issue

Rev01 : Dt 12/08/2022 –In clause 1.0,5.0,6.0, class 10.9 for bolts & 10 for nuts included, Drawing no's removed in Clause 1.0,3.0 &6.0. Weight of bags included in Cl 6.0

Rev02 : Dt 08/08/2024 – Clause 6.0 Packing condition & RPF specification modified.

Rev03 : Dt 08/08/2026- Clause 1.0 TDC 5 211 removed, Clause 2.0 Steel making &MTC requirements newly added, Clause 5 ,Table sl no 2,3& 8 modified,10-11 added.
Clause 6.0& 7.0 modified.

1. SCOPE:

This technical delivery condition document covers the requirements for the High strength structural steel bolts, Nuts and Washers applicable for boiler structures and shall be procured from the BHEL approved manufacturers only. The mandatory requirements, test methods and procedures from the applicable IS standards to confirm a product to its relevant latest IS standard shall be met with. TDC is in addition to specification. **TDC: 5:211 (Dt 28.10.2014) is obsolete and this TDC supersedes for normal HSFG bolts requirements**

Size, Specification and Qty: As per BHEL Purchase order (PO) / BHEL Drawing. The bolts, nuts and washers shall be supplied in the dull black heat treated condition with rust preventive fluid (RPF) as per Clause 6.0.

For Bolts: As per BHEL drawing as indicated in the Purchase order.

and IS: 3757 (Latest) Property class: 8.8,10.9. Product Grade C of IS Specification IS: 1367 Part 2 (Latest).

For Nuts: IS: 6623 (Latest) Property class: 8 & 10, Product Grade B

For Washers: IS: 6649 (Latest) Material: 45C8, Type-A: Plain hole Circular Washers. Grade: Ordinary

2. RAW MATERIAL & STEEL MAKING :

Bolts and Nuts: Rolled/Forged bar ~~of IS5517~~. Washer: as per IS 1571 Part 2 (Latest)

Chemical composition: Shall be checked on receipt of raw material at supplier works for every heat

Bolts: Alloy steel, Plain Carbon Steel, Carbon steel with additives (e.g. Br, Mn or Cr) **quenched and tempered for Class 8.8** – As per Table 2 of IS: 1367 Part 3)

Alloy steel quenched and tempered for Class 10.9 – As per Table 2 of IS: 1367 Part 3)

Nuts: As per Table 4 of IS 1367 Part 6 (Latest)

Washers: As per IS 1570 Part 2 and Sulphur, Phosphorous <0.06% in check analysis

The chemical composition requirements are mandatory and shall be evidenced by actual numerical values on the Material Test Certificate (MTC) issued by the steel producer for every heat of steel received. pass/ Fail statements are not acceptable. For the materials of the property classes: 8.8,10.9, there shall be a sufficient hardenability to ensure a structure consisting of approximately 90 % martensite in the core of the threaded sections for the fasteners in the “as-hardened” condition before tempering.

The alloy steel shall have sufficient Chromium (Cr) and Molybdenum (MO) content to achieve the through-hardenability requirements. While grades like 42CrM04 (per EN 10083-3) or SAE 4140 are acceptable, the manufacturer must ensure at their end that the specific alloy chemistry is capable of achieving approximately 90% martensite in the core of the threaded section in the "as-hardened" condition (before tempering).

	BHEL – Tiruchirappalli - 620014, India. Quality Assurance Department TECHNICAL DELIVERY CONDITIONS	DOC No: TDC:5:215 Rev: 03 Effective Date: 08/08/2026 Page: 2 of 8
Product: Extended Thread High Strength Friction Grip Fasteners For Structural (Property class Bolt 8.8,10.9/ Nut 8 &10)		

The MTC shall explicitly state the standard grade designation. Where international equivalents (EN/SAE/AISI) are used in lieu of IS 5517 (Latest) prior approval from BHEL is required. The limits for Sulphur (S), Phosphorus (P) and Boron (B) content be strictly maintain as per IS 1367-3 (latest). If Boron exceeds 0.001%. Aluminium (Al) shall be suitably added to achieve the desired metallurgical properties. In case of Steels with Boron, the content of Boron must be clearly declared in the MTC.

Enhanced Alloying for Large Diameters: For bolt diameters M30 and above, the manufacturer shall ensure enhanced alloying (specifically Cr and Mo) to guarantee through-hardening and prevent brittle "snapping" in the core.

Vacuum Degassing: mandatory for all Class 10.9 bolts of diameter M24 and above. The MTC shall confirm vacuum degassing was applied to that specific heat.

For steel processed via the VD routes the Hydrogen H₂ content' shall be measured and reported in the MTC. Hydrogen Content shall be ≤ 2 ppm (for larger diameters M 30 and above)

For Class 10.9 bolts, the free-ferrite decarburization depth on the incoming bar or rod shall not exceed 0.05 mm absolute

The Specific chemical limits and hardenability requirements stated in this clause shall take precedence over general limits provided in IS 5517 or any other international standards for raw material.

Steelmaking route:

The steelmaking route and supply chain model shall be declared on every Material Test Certificate (MTC).

The following requirements apply:

Accepted steelmaking routes: Electric Arc Furnace (EAF) + Ladle Refining Furnace (LRF)+ Continuous Casting (CC); or Basic Oxygen Furnace (BOF)+LRF+CC
Induction Furnace (IF) route is NOT permitted for Class 10.9.

Manufacturing process requirements

Heat treatment

- Oil quenching with agitation control
- Hardness monitoring per batch

Threading

- Thread rolling before heat treatment
- No laps, cracks, or thread defects

3. DIMENSIONS AND TOLERANCES:

- **Process:** Cold/Hot Forging with Dies and tools clean of loose scale and sheet particles.
- Threads on the bolts shall be checked with a properly calibrated ring gauge with a tolerance class 6g. Threads on the nuts shall be checked with a properly calibrated plug gauge with tolerance class 6H in an NABL accredited LAB.
- Dimensions of the Bolts shall be as per BHEL drawing as indicated in the Purchase order.
- Dimensions of the Nuts shall be as per the table given in IS: 6623 (Latest)
- Dimensions of the Washers shall be as per the table given in IS 6649 (Latest)

Note: The washers shall be flat with a maximum deviation not exceeding 0.25 mm from the straight edge laid along a line passing through the center of the hole. The hole of the washer shall be concentric with the outside dimensions within 0.50 mm. washers are required to be clipped to provide clearance, the clipped edge shall not be closer to the center of the washer than 0.9 of the bolt diameter.

	BHEL – Tiruchirappalli - 620014, India. Quality Assurance Department TECHNICAL DELIVERY CONDITIONS	DOC No: TDC:5:215 Rev: 03 Effective Date: 08/08/2026 Page: 3 of 8
Product: Extended Thread High Strength Friction Grip Fasteners For Structurals (Property class Bolt 8.8,10.9/ Nut 8 &10)		

4. Post Forming Heat Treatment (HT):

- **Bolt:** After forming shall be quenched (HT at AC 3 temperature, with soaking time 30minutes per inch followed by quenching) and tempered (at 425°C min, 60 minutes per inch). There should be a sufficient hardenability to ensure a structure consisting of approximately 90 % martensitic in the core of the threaded sections for the fasteners in the as-hardened condition before tempering.
- **Nut:** Shall be hardened and then tempered (at a temperature of 425°C minimum).
- **Washer:** Shall be hardened and tempered. Carburized washers are not permitted.

5. CHEMICAL & MECHANICAL & NDE: (on Heat Treated finished product)

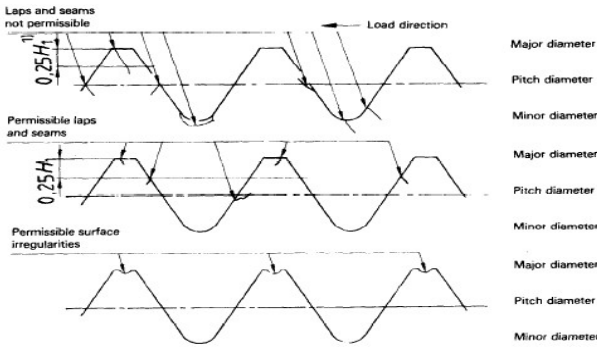
Sample Size for Mechanical test: & NDE: As per Sampling Plan

BOLT :

Sl	Test	Test Method - As per Table 3 of IS: 1367 Part 3 (Latest)	Acceptance
1	Chemistry	Spectro / Wet Analysis Method – One sample for every heat Of raw material and One sample/HT batch on product	As per Cl 2.0 of this TDC
2	Hardness Test	Note: Surface hardness shall not be more than 30 Vickers above the measured core Hardness on the product when readings of both surface and core are carried out at HV 0.30.	8.8 – Min 255 HV Max 335 HV 10.9- Min 320 HV Max 380 HV
	Impact Strength	Values are determined at a test temperature of –20 °C	27 J min
3	Minimum Tensile Strength, Yield,%Elongation on 5.65√A, % Reduction in Area after fracture	Axial tensile test must be performed and witnessed by BHEL along with graph from UTM. In case of samples not feasible as per IS 1367 P3, IS 1608 to be used for EL and RA testing.	8.8 – 830N/mm ² , 12 min, 52% min 10.9-1040N/mm ² , 9 min, 48% min
4	Proof Load Test	8.8 – Proof Load of M20 (147KN), M24 (212KN), M30 (337KN), M36 (490KN) 10.9 – Proof Load of M20 (203KN), M24 (293KN), M30 (466KN), M36 (678)KN	Length of the bolt after loading shall be the same as before loading within a tolerance of ± 12.5 µm allowed for measurement error.
5	Strength under Wedge load test	IS: 1367 Part 3 (Latest)	8.8 – 830N/mm ² 10.9– 1040 N/mm ²
6	Decarburization Test at 200X min magnification	Determination of the following by MICROSCOPIC Method a) Minimum Height of non decarburized thread zone – E b) Maximum depth of complete decarburization – G	E = 2/3 H1 G = 0.015 mm
7	Hardness after Retempering	IS: 1367 Part 3 (Latest) test not mandatory, to be applied in case of dispute only	Reduction of hardness 20 HV max.
8	NDE for Surface Integrity	before machining – For bar Diameter ≥ 30 mm: UT as per ASTM A388. For bar Diameter < 30 mm: MPI as per ASTM E 709 After machining – MPI as per ASTM E 709 or as per ISO 6157 Part 3 (Latest)	UT – ASME SEC-VIII. Div-II Part: 3.3.4 (Latest). MPI – Linear indications like cracks, folds & other injurious defects are not acceptable.



Product: Extended Thread High Strength Friction Grip Fasteners For Structural (Property class Bolt 8.8,10.9/ Nut 8 &10)

9	Micro Examination for Surface Integrity – Laps at threaded region.	If any defectives found in visual and NDE examinations, the extent of defect can be determined by micro examination. 	Max depth of laps in thread = 0.41 mm Laps of any depth or length are not permitted in the following places: • at the root of the thread • at the loaded flank of screw thread below the pitch diameter, even if they start beyond the pitch diameter. The following laps are permissible : • laps in the crest of the threads of 0.25 H1 max.; • crest of the threads not entirely rolled out, maximum half a turn on one thread; • laps below the pitch diameter, if they run on the non-loaded flank towards the major diameter and not deeper than 0.25 H1 and not longer than half a turn on one thread.
10	Torque—Tension (k.-factor) test	As per IS 4000 minimum tension to be achieved Each lot shall be tested.	
11	Additional Mandatory tests (document review)	Non-metallic inclusion rating as per IS 4163/ ISO 4967 Hydrogen content (for large dia bolts M 30 and above) Microstructure documentation.	

	BHEL – Tiruchirappalli - 620014, India. Quality Assurance Department TECHNICAL DELIVERY CONDITIONS	DOC No: TDC:5:215 Rev: 03 Effective Date: 08/08/2026 Page: 5 of 8
Product: Extended Thread High Strength Friction Grip Fasteners For Structural (Property class Bolt 8.8,10.9/ Nut 8 &10)		

NUT: (on Heat Treated finished product)

Sl	Test	Test Method	Acceptance Value
1.	Chemistry	Spectro / Wet Analysis Method – For every heat of raw material and, One sample/HT batch on product	As per Cl 2.0 of this TDC
2.	Hardness Test	Hardness of the test mandrel shall be minimum 45 HRC.	Min 272 HV Max 372 HV
3.	Proof Load Test	Proof Load of 8S – Proof Load of M20 (263.4KN), M24 (379.5KN), M30 (603.1KN), M36 (878.3KN) 10S -M20 (305KN), M24 (439.5KN), M30 (698.4KN), M36 (1017.2KN) shall be applied axially to the nut in a tensile testing machine for 15sec.	The nut shall resist the load without failure by stripping or rupture, and shall be removable by the fingers after the load is released.
4.	NDE for Surface Integrity	Before coating, as per IS 1367 Part 10 Cl 4.2 (Latest)	Linear indications like cracks, folds & Other injurious defects are not acceptable.

WASHER: As per IS 5369. The washers shall be free from cracks, burrs, pits and other defects. All sharp edges shall be removed.

Sl	Test	Test Method	Acceptance Value
1.	Chemistry	Spectro / Wet Analysis Method – For every heat Of raw material and One sample/HT batch batch on product.	As per Cl 2.0 of this TDC
2.	Hardness Test	IS 1586 (latest)	Min 35 HRC Max 45 HRC

6. MARKING, PRESERVATION AND PACKING:

The following to be hot stamped or embossed on the top surface of the bolt and nut:

Bolt- Manufacturer's Identification Symbol and 8.8S,10.9S, **Raw material Heat number (last 4 digits) and marking as indicated in specification is to be embossed/indented.**

Nut- Manufacturer's Identification Symbol and 8S,10S (as embossing is not allowed).

Washer- Marking as per specification Shall be identified by – the provision of 2 nibs and manufacturers identification symbol being placed as near to the outer edge as possible

The supplier shall maintain records of raw materials, manufacturing, heat treatment, testing and inspection, along with a Raw Material Heat Number Ledger. BHEL may verify these records by conducting audits during execution of the order

The following details shall be clearly indicated in the tags tied to the bundle:

1) Customer Name 2) Manufacturer's Name 3) Vendor Code 4) Purchase Order No and Supplier Internal W.O No 5) Quantity and Weight 6) BHEL Material Code 7) Item Description with diameter, length 8) **Torque value, K factor, Raw material Heat no to be indicated on TAG with gunny bag. Torque value and K factor to be witnessed by BHEL**

Colour coding: To be done only on bolt head as per BHEL drawing as indicated in the Purchase order.

The bolts shall be supplied in the dull black heat treated condition with rust preventive fluid (RPF) as per BHEL specification PR: Chem:09-04 confirming to IS 1153(Latest).

Bolts 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.

	BHEL – Tiruchirappalli - 620014, India. Quality Assurance Department TECHNICAL DELIVERY CONDITIONS	DOC No: TDC:5:215 Rev: 03 Effective Date: 08/08/2026 Page: 6 of 8
Product: Extended Thread High Strength Friction Grip Fasteners For Structurals (Property class Bolt 8.8,10.9/ Nut 8 &10)		

7. INSPECTION AND CERTIFICATION:

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 & 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 (MTC) shall contain the following:

- 1) Purchase Order No. (BHEL), TDC No, Specification and Grade.
- 2) Name of raw material bar supplier.
- 3) Bolt manufacturing process flow
- 4) Dimensional reports for each product (Annexure).
- 5) Chemistry including incidental elements on the raw material and final product checked in NABL lab/ suppliers own lab (ISO/IEC 17025:2017 accreditation).
- 6) HT details of materials temperature, soaking time, ROH/ROC medium, Time-Temperature charts for quenching and tempering etc.
- 7) All Mechanical test result report including tensile strength, yield, % Elongation, % RA, hardness & Impact strength.
- 8) MPI/ UT, Micro examination and decarburization test report with the reference & acceptance standard.
- 9) TC of raw material from a original steel producer, UT/MPI report done on raw material shall accompany the MTC.
- 10) Torque-tension test results with Torque value and K factor for the specific lot.
- 11) TC for rust preventive fluid as per PR: Chem:09-04, (Latest)
- 12) Non-metallic inclusion rating per IS 4163 /ISO 4967 - numerical ratings for series A, B, C, D (thin and thick) are mandatory
- 13) Report for 90% martensite in the core of the threaded section before tempering.
- 14) The detail reports for the tests conducted to be enclosed as Annexures with MTC.

8. AUDITS AT BHEL:

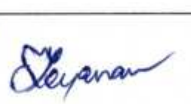
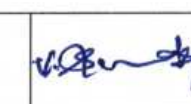
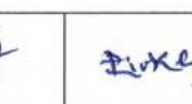
BHEL reserve the right to reject any item found to be not meeting the requirements during tests at supplier works or during subsequent processing at BHEL.

TEST SAMPLING PLAN FOR HSFG BOLTS, NUTS & WASHERS FOR BHEL TDC: 5:215

Lot Size (In nos.)	SAMPLE SIZE															Remarks
	Visu al (nos .)	Dimen sional (nos.)	MPI (nos.)	Physical Test												
				Total (nos.)	Hardn ess (nos.)	Hardnes s after Re- Temperi ng (nos.)	Pro of Loa d (nos .)	Wed ge Load (nos.)	Min Tensil e Streng th (nos)	%E L	%R A	Minimum stress at 0.2 % non- proportion al elongation	Impa ct test (nos)	Dec arb (no s.)	Coatin g Thickn ess (nos.)	
Upto 100	20	8	15	5	5	5	2	2	2			2	1	2	2	
101 to 300	32	13	15	5	5	5	2	2	2			2	1	2	2	
301 to 500	50	20	15	5	5	5	2	2	2			2	1	2	2	
501 to1000	80	32	15	5	5	5	2	2	2			2	1	2	2	
1001 to 3000	125	50	25	8	8	8	2	4	2			2	1	4	4	Upto 1500 nos 15 nos. for MPI
3001 to 10000	200	80	50	13	13	13	2	6	2			2	1	6	6	Upto 5000 nos 25 nos. for MPI
10001 to 35000	315	125	75	20	20	20	4	8	4			4	2	10	10	Upto 15000 nos 50 nos. for MPI
35000 to 70000	500	200	100	32	32	32	6	12	5			6	3	15	15	Upto 50000 nos 75 nos. for MPI
Inspection by BHEL/ BHEL AIA	W	W	W	W	W	W	W	W	W			W	W	W	W	

Remarks:

1. Acceptance Number is zero. If the sample is having deviations in Visual, Dimensional and MPI then the entire lot shall be 100% inspected. In case of deviations in Physical tests a second sample of twice the sample size of initial sample shall be taken. The lot will get rejected if the second sample fails.
2. Inspection by BHEL/BHEL AIA shown as "W" shall be witnessed for the sample size indicated against the lot size
3. Any quantity offered above 70000 nos, will be considered as a new lot and sampling plan shall be reapplied for them.
4. In physical test minimum one number per heat of raw material used to be covered.

					
Dr. T Sriharsha SM/QA	M. Jeyaram SM /QA	B Sriram Manager/MM	V Saravanakumar DGM/Engg	Ravi Tirkey SM/QC	Dr. V Deepesh DGM/QA
Prepared	Reviewed				Approved

Additional Technical Conditions of Contract

[Applicable for procurement of HSFG Bolts, Nuts and Washers]

Ref. No.: BHEL:TCC:HSFG:Rev00

Date: 20.08.2026

1.0 SCOPE

- 1.1 This document covers design, manufacture, testing, inspection, packing, supply and delivery of HSFG Assemblies i.e. Bolts, Nuts & Washers.

2.0 MANUFACTURING TESTING FACILITY REQUIREMENTS (MANDATORY)

- 2.1 The following facilities shall be IN-HOUSE (OWN FACILITY ONLY). Sub-Contracting of these processes is strictly prohibited:

- a) Production Facilities: -
 - i. Cold / Hot Forging Facility
 - ii. Thread rolling machines
 - iii. Controlled heat treatment furnace / Facility
- b) Testing Facility: All equipment must have valid NABL calibration certification: -
 - i. Universal Testing Machine (UTM)
 - ii. Spectrometer
 - iii. Hardness tester (Rockwell & Vickers)
 - iv. Metallurgical Microscope
 - v. Torque testing facility

If testing facility is not available in house, testing shall be witnessed at NABL approved lab only.

3.0 RAW MATERIAL REQUIREMENTS (CRITICAL)

- 3.1 Source of Steel- Input steel for all bolt assemblies shall be sourced exclusively from original steel producers having valid BIS license for IS 5517 or alternately from their authorized dealers, stockiest, channel partners with current validity. Sourcing of Steel from traders or intermediaries is not allowed. The fastener manufacturer itself cannot self-certify input steel.

3.2 Material Test Certificate: Format & Content

The Material Test Certificate submitted with each consignment shall meet the following requirements:

- a) Certificate type: MTC issued by the steel producer's Authorised inspector who independent of the production department. The fastener manufacturer shall not re-issue, reproduce, re- certify the steel MTC under any circumstances.
- b) The testing laboratory whose results are reported on the MTC shall hold current NABL accreditation under ISO/IEC 17025:2017 or at least have all equipment calibrated NABL traceability.
- c) The following parameters shall be reported with actual numerical values on every MTC: chemical composition (C, Mn, Si, Cr, Mo, Ni, P, S, B, Al, V, Cu as applicable); non-metallic inclusion rating per IS 4163 / ISO 4967 - numerical ratings for series A, B, C, D (thin and thick) are mandatory; decarburization depth - total decarburization and free-ferrite depth in mm; Hydrogen Content ≤ 2 ppm (for larger diameters); mechanical properties (UTS, YS, elongation, reduction of area) where applicable.
- d) The heat number on the MTC shall exactly match the heat number on the physical material tag attached to the consignment and on the despatch note. Any mismatch shall be treated as a non-conformance and the consignment shall be quarantined pending clarification.
- e) For Class 10.9 bolts, the free-ferrite decarburization depth on the incoming bar or rod shall not exceed 0.05 mm absolute.
- f) Ultrasonic Testing (UT) of bar stock: for all alloy steel bar of diameter 30 mm and above used for HSFG bolt manufacture, 100% ultrasonic testing shall be mandatory. UT shall be conducted per IS 3664:1981 or equivalent international standard with acceptance criteria

Additional Technical Conditions of Contract

[Applicable for procurement of HSFG Bolts, Nuts and Washers]

Ref. No.: BHEL:TCC:HSFG:Rev00

Date: 20.08.2026

per EN 10308:2002. The UT test result — 'Done OK' or equivalent with defect classification — shall be reported on the MTC or on a separate UT certificate cross-referenced to the MTC heat number. Bar lots for which UT has not been conducted or reported by steel producer shall not be used for BHEL supply of Class 10.9 bolts of M30 diameter and above.

4.0 MANUFACTURING PROCESS REQUIREMENTS

4.1 Forging

- a) Closed-die forging with induction heating (preferred)
- b) Controlled temperature to prevent grain growth

4.2 Heat Treatment

- a) In House heat treatment
- b) Oil quenching with agitation control
- c) Hardness monitoring per batch

4.3 Threading

- a) Thread rolling before heat treatment (preferred)
- b) No laps, cracks, or thread defects

5.0 MISCELLANEOUS REQUIREMENTS

- 5.1 Mandatory Technical Personnel Requirement- Manufacturer shall have one qualified full time QC Engineer on company rolls.

		BHEL: IVP Goindwal Quality Assurance	STANDARD QUALITY PLAN Item: HSFG Fasteners (Bolts, Nuts and Washers)				QP No	SQP:HSFG:001		
							Rev	6		
							Date	21.08.2026		
							Page	1 of 3		
SN	Component & Operation	Characteristics	Type of Check	Quantum of check	Reference Document	Acceptance Norm	Format of Record	Agency		Remarks
								M	B	
1.0	Raw material									
1.1	Raw material	Chemical & Mechanical	TC verification	100%	BHEL TCC,TDC, Drawing & PO		TC & Report	V	V	Format as per BHEL TCC
2.0	In Process									
2.1	Raw Material Testing	Chemical & NDE	Report Review	100%	DO		R	P	V	NDE in Raw Material: MPI for diameter (D) <30 mm and UT for diameter (D) ≥ 30 mm For Chemical: Refer Note 2
2.2	Manufacturing & Heat Treatment process	Dimensions, Temperature, Time, Medium, HT Chart	Report Review	100%	DO		R	P	V	Refer Note 3, 4 & 5
3.0	Final Inspection (*)									
3.1	Visual & Dimension (*)	Visual, Dimension, thread & Marking (identification & colour coding)	Measurement/ Thread gauge	Sampling plan (*)	DO		R	P	W	
3.2	Mechanical testing (*, #)	Hardness	Testing	DO	DO	DO	R	P	W	
		Strength under wedge load test till fracture								
		Minimum Tensile strength								
		%EL, %RA								
		Minimum stress at 0.2 % non-proportional elongation								Refer Note 6
		Proof load test								
		Impact Test								
		Decarburization test								

Prepared By
Sanju Kohli
Sr. Manager (QM)

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Approved By
Shelley Kohli
SDGM (QM and BE)

		BHEL: IVP Goindwal Quality Assurance		STANDARD QUALITY PLAN Item: HSFG Fasteners (Bolts, Nuts and Washers)			QP No	SQP:HSFG:001		
							Rev	6		
							Date	21.08.2026		
							Page	2 of 3		
SN	Component & Operation	Characteristics	Type of Check	Quantum of check	Reference Document	Acceptance Norm	Format of Record	Agency		Remarks
3.3	Torque value (*)	Torque to tighten the Bolt assembly	Testing	DO		Minimum tension to be achieved as per IS 4000 table 3	R	P	W	Refer Note no 7
3.4	Chemical (*)	Chemical composition	Testing	DO	BHEL TDC, Drawing & PO		R	P	W	Spectro analysis– One sample for every heat of raw material
3.5	NDE (*)	Surface quality	Testing (visual & MPI)	DO		DO	R	P	W	
3.6	Packing	Packing and Marking	Verification			DO	R	P	V	Refer Note 8
Legends: M-Manufacturer/Sub contractor, B-BHEL/Authorised inspection agency, V-Verification, W-Witness, P-Perform, R-Report, C-Customer, CHP- Customer Hold point, TC- Test Certificates										
(*) BHEL/BHEL TPIA will witness final inspection in supplier works or NABL approved Lab (#) For nut: only hardness test and Proof load test. For washers: hardness test only Note: 1. This QP shall be read along with relevant PO, TDC, applicable standards and drawings. Requirements shall be compiled. 2. NABL report per Heat of used Raw material conforming its chemical properties wrt to mill TCs 3. Calibration certificates of all instruments and machines used during testing to be provided along with calibration certificate of furnace and thermocouple (For quenching, Tempering furnaces). 4. Internal inspection report from supplier for grade 8.8 and above, regarding sufficient hardenability to ensure a structure consisting of approximately 90 % martensite in the core of the threaded sections for the fasteners in the “as-hardened” condition before tempering as per point f of table 2 of IS 1367-3 5. Heat Treatment process to be qualified & witness by BHEL as per BHEL format (for one size of Bolt during manufacturing of First Lot) 6. Machined Bolt sample shall be prepared as per IS 1367-3 (latest). Graph from UTM mandatory. In case of samples not feasible as per IS 1367 P3, IS 1608(Latest Rev.) to be used for EL and RA testing. 7. Torque values, K factor to be witnessed as per BHEL procedure (latest) 8. A standardized tag format shall be attached to every gunny bag as per tender terms and conditions.										

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Sr. Manager (QM)

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SDGM (QM and BE)

	BHEL: IVP Goindwal	STANDARD QUALITY PLAN	QP No	SQP:HSFG:001
		Item: HSFG Fasteners (Bolts, Nuts and Washers)	Rev	6
			Date	21.08.2026
			Page	3 of 3

Lot Size (In nos.)	SAMPLE SIZE														Remarks
	Visual (nos.)	Dimensional (nos.)	MPI (nos.)	Physical Test											
				Total (nos.)	Hardness (nos.)	Hardness after Re- Tempering (nos.)	Proof Load (nos.)	Wedge Load (nos.)	Min Tensile Strength (nos)	%EL	%RA	Minimum stress at 0.2 % non- proportional elongation	Impact test (nos)	Decarb (nos.)	
Upto 100	20	8	15	5	5	5	2	2	2			2	1	2	
101 to 300	32	13	15	5	5	5	2	2	2			2	1	2	
301 to 500	50	20	15	5	5	5	2	2	2			2	1	2	
501 to 1000	80	32	15	5	5	5	2	2	2			2	1	2	
1001 to 3000	125	50	25	8	8	8	2	4	2			2	1	4	Upto 1500 nos 15 nos. for MPI
3001 to 10000	200	80	50	13	13	13	2	6	2			2	1	6	Upto 5000 nos 25 nos. for MPI
10001 to 35000	315	125	75	20	20	20	4	8	4			4	2	10	Upto 15000 nos 50 nos. for MPI
35000 to 70000	500	200	100	32	32	32	6	12	5			6	3	15	Upto 50000 nos 75 nos. for MPI
Inspection by BHEL/ BHEL AIA	W	W	W	W	W	W	W	W	W			W	W	W	

Remarks:

- Acceptance Number is zero. If the sample is having deviation in Visual, Dimensional and MPI, then the entire lot shall be 100% inspected. In case of deviations in Chemical and Physical tests, a second sample of twice the sample size of initial sample shall be taken. The lot will get rejected if the second sample fails.
- Inspection by BHEL/BHEL AIA shown as "W" shall be witnessed for the sample size indicated against the lot size
- Any quantity offered above 70000 nos, will be considered as a new lot and sampling plan shall be reapplied for them.
- In physical test minimum one number per heat of raw material used to be covered.

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SDGM (QM and BE)

HEAT TREATMENT PROCESS CHECKLIST

Quenching & Tempering - Quality Control

Bolt Class:	
Material Spec:	
Batch/Lot Number:	
Quantity (pcs):	
Date of Treatment:	
Furnace ID & Type:	
Operator Name:	
Supervisor:	

Phase	Parameter	Requirement	Acceptance Criteria	Verified/Values Recorded	Remarks
PRE-TREATMENT INSPECTION	Visual inspection of bolts	Clean, no defects	No cracks, corrosion, or deformation	☐	
	Chemical composition verification	Cert. of Conformance	Valid CoC from supplier	☐	
	Dimensional check (length, dia)	Within tolerance	Per ISO 898-1	☐	
	Surface cleanliness	Degreased	Free of oil, grease, rust	☐	
	Initial hardness check (sample)	As received	Per batch specification	☐	
FURNACE PREPARATION	Furnace calibration	Calibration certificate	Proper validity	☐	
	Furnace temperature uniformity	Calibration certificate & Temperature recording of Thermocouples	Recorded Temperature variation between all thermocouple readings of all zones during start of soaking cycle to match with manufacturer procedure/practice#	☐	
	Thermocouples check	Functional & verified	All thermocouples working	☐	
	Interior cleanliness	Clean, no scale/debris	No contaminants	☐	
	Furnace atmosphere check	Neutral/slight oxidizing	Vendor to Confirm	☐	

LOADING & AUSTENITIZING	Ramp-up rate to austenitizing	Controlled heating	Recorded values to match with manufacturer procedure/practice#	☐	
	Austenitizing temperature	Hold within tolerance		☐	
	Temperature tolerance band	Deviation to be as minimum as possible		☐	
	Soak/dwell time	Full austenite transformation		☐	
	Temperature stability check	Stable $\pm 5^{\circ}\text{C}$ for 5 min before quench	Ready for quench	☐	
	Sample extraction (for Hardness)	Full austenite transformation (2Nos samples)	Monitor hardness trend ($\pm 2\text{HRC}$)	☐	
QUENCHING PROCESS	Quenching medium type	Oil (mineral/synthetic) as per manufacturer procedure/practice	Spec of medium to be noted	☐	
	Quenching bath temperature	Control flash point safety	Vendor to confirm	☐	
	Quenching bath volume check	Min. 3x load volume for Adequate heat capacity	Vendor to confirm	☐	
	Oil circulation system	Running during quench	Uniform cooling	☐	
	Transfer time from furnace to quench bath	Time to be as minimum as possible	Recorded value to match with manufacturer procedure/practice#		
	Quenching agitation	Moderate agitation	Avoid cracking/distortion	☐	
	Quench time in oil	Full cooling to below 40°C	Recorded value to match with requirement	☐	

	Post-quench cooling to room temp	30-40 min before tempering	Medium to be noted and should match manufacturer procedure/practice#	☐	
	Quench bath condition check	Oil clarity & no contamination	Oil change interval monitored	☐	
	Microstructure and hardness check	min. 90% martensite (2Nos samples each for both Hardness & Microstructure check)	i) Hardness levels to be uniform through the surface and core ($\pm 2\text{HRC}$) ii) Presence of min. 90% martensite during microscopic examination	☐	
TEMPERING PROCESS	Preheat temperature*	Reduce thermal shock	Recorded values to match with manufacturer procedure/practice#	☐	
	Preheat duration*	Uniform preheating		☐	
	Transfer to tempering furnace*	Transfer Time to be <5 min after preheat to Minimize surface oxidation	Recorded value to match with requirement	☐	
	Tempering furnace temperature	As per standard	Recorded value to match standard	☐	
	Tempering soak time	Full tempering	Recorded value to match with manufacturer procedure/practice#	☐	
	Temperature tolerance band	Strict control on temperature variation	Recorded value to match with manufacturer procedure/practice#	☐	
	Furnace atmosphere during tempering	Air/neutral to eliminate decarburization	Vendor to confirm	☐	

	Cooling from tempering temp	Controlled cooling to room temp naturally	Recorded cooling rate to match with manufacturers procedure/practice)#	☐	
	Final inspection after tempering & Microstructure Check	Presence of min. 90% tempered martensite (2Nos samples for Microstructure check)	i) Visual check for color/finish (Expected straw/light blue) ii) Presence of min. 90% tempered martensite during microscopic examination	☐	
POST-TREATMENT TESTING	Hardness measurement (HV/HRC)	As per standard	As per sampling plan in QP	☐	
	Hardness test location	As per IS 1367-P3	Consistent sampling	☐	
	Dimensional check post-treatment	Within tolerance	As per standard	☐	
	Surface inspection	No decarburization/cracks	Accept/Reject	☐	
	Tensile test (batch sample)	As per standard	As per ISO 898-1 min values	☐	
	Yield strength test	As per standard	As per ISO 898-1	☐	
	Ductility check (elongation %)	As per standard	Tensile test result	☐	

*(if applicable as per manufacturer's procedure)

ref: Documented procedure of Manufacturer

Heat Treatment Operator:	
Quality Inspector:	
Supervisor/Manager:	
Date:	
Batch Approved: ☐ YES ☐ NO	

Information related to tightening methods for the required preload, $F_{p,C} = 0.7f_{ub}A_s$

Tightening method according to EN 1090-2	Minimum information to be supplied	k-class
Torque method	$k_m = \dots\dots\dots$ 1 st step: Torque = Nm 2 nd step: Torque =Nm	K2
Combined method	1 st step: Torque = Nm 2 nd step: Further rotation	K1 ^a
Direct tension indicator method	-	K0 ^b
^a K2 can also be used. ^b K1 or K2 could also be used, but declared as K0		

where

f_{ub} is the nominal ultimate tensile strength of the bolt material

A_s is the nominal stress area of the bolt

Eg: For M30 10.9 grade bolt

$$f_{ub} = 1000 \text{ MPa}; A_s = 561 \text{ mm}^2$$

Required preload $F_{p,C} = 393 \text{ kN}$

7.1 INDIVIDUAL VALUES OF THE k-factor (k_i), MEAN VALUE OF THE k-factor (k_m) AND COEFFICIENT OF THE k-factor (V_k)

7.1.1 Individual values of the k-factor (k_i) for k-class K1

For k-class K1, the k_i values shall be within the range of $0.1 \leq k_i \leq 0.16$

7.1.2 Mean value of the k-factor (k_m) and coefficient of the k-factor (V_k) for k-class K2

The mean value (k_m) of the k-factor shall be calculated as follows:

$$k_m = \frac{\sum_{i=1}^n k_i}{n}$$

with

$$k_i = \frac{M_{pi}}{F_{p,C} \times d}$$

where

M_{pi} is the individual value of the applied torque;

$F_{p,C}$ is the required preload;

d is the nominal bolt diameter

The coefficient of variation of the k-factor (V_k) shall be calculated as follows:

$$V_k = S_k / k_m$$

where

S_k is the standard deviation

$$\left(s_k = \sqrt{\frac{\sum (k_i - k_m)^2}{n - 1}} \right).$$

For k_m and V_k the following values apply:

$$0.1 \leq k_m \leq 0.23$$

$$V_k \leq 0.06$$



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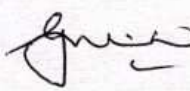
Rev: 03

Date: 01.04.2009

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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	 L. Gragori DM/Plant Lab	 Dr. G. Ravichandran SDGM/Plant Lab

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Record of Revisions

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



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.