



Bharat Heavy Electricals Limited

Fabrication Stamping & Insulator Plant

Jagdishpur, Amethi – 227817(U.P.)

MATERIAL MANAGEMENT

Notice Inviting Tender

Office1: 91(05361) 224136

Office2: 91(05361) 224243

Tender Enquiry No: TE-180

Dtd:01.12.2025

E-Tenders are invited in Two Part Bid System for Entering into Rate Contract for Supply of MS Casings: Cones, MPOs, Orifices & Valve Bodies(MDVs) as per BHEL Drawings, Specifications etc valid for 02(Two) years.

(I) General:

- 1. The tender will be under two-part bid system (PQR cum Techno-commercial & Price-bid). Pre-Qualifying Requirement (PQR) is following:**

Sl No	Criteria	Supporting document
1	Bidder should be Steel fabricator/ manufacturer of fabricated items.	Certificate of incorporation/ Article of Association/ MSME/UDYAM or any other certificate issued by GoI. Alternatively, any other document in public domain viz. Annual report can also be considered.
2	Bidder should have following machines at their workshop: i. Lathe Machine. ii. Welding Machine iii. Rolling Machine iv. Drilling machines v. Plate Cutting Machine (like Pug cutting, Flame cutting etc.).	a) It is mandatory for bidder to have all the specified machines in their own workshop. Vendor to submit "Self-declaration" with major specifications of the machines viz. size, weight handling capacities etc. b) BHEL reserves the right to verify the information provided. Bidder to arrange for a verification with onsite visit or video calling. All expenses for visit for BHEL personnel shall be borne by BHEL.
3	Average Annual Financial Turnover during the last three financial years ending March-2025 must not be less than as given below. In case audited balance sheet for FY25 is not available, Last (03) three years balance sheets will be considered for evaluation. i)Casing for Cone-----Rs.17.93 Lakhs ii)Casing for MPO-----Rs. 19.11 Lakhs iii)Casing for Orifices-----Rs.14.63 Lakhs iv)Casing for Valve Body--- Rs.31.51Lakhs In case any bidder quotes for more than one item, Average Annual Financial Turnover required shall be calculated after taking the sum of all the quoted items.	a) Turnover certificate issued by CA having UDIN no. OR b) Audited balance sheet



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4	Bidder should have supplied MS fabrication item/s meeting the following criteria: i. Supply in the past 05(Five) Years (From the last date of previous month of tender submission)	a) Copy of relevant Purchase Orders b) Copy of Delivery Challan/ Invoice Copy c) Weight shall be verified either through drawings/mention in PO/ Invoice/ Delivery Challan copy submitted or confirmation from the customer. d) Bidder to submit complete contact details of the customer including name, e-mail id, telephone no. e) Bidder may be required to facilitate visit of BHEL team to customer's works if required. All expenses of BHEL personnel for such a visit shall be borne by BHEL.
5	i). Bidder should have a minimum capacity to fabricate 3.6 MT/month, 3.7 MT/month, 2 MT/month and 5.5 MT/month for casing for cone, MPO, orifice & MDV/valve body respectively ii). Vendor shall intimate only such capacity that can be provided to BHEL FSIP Jagdishpur against orders and not their total capacity to supply per month. iii). Capacity implies vendor's ability to supply such quantities of items meeting the quality requirements and delivery schedules.	a) Vendor to submit "Self-declaration Certificate" for their monthly capacity. b) BHEL reserves the right to verify the information provided. Bidder to arrange for a verification with onsite visit or video calling. All expenses for visit for BHEL personnel shall be borne by BHEL.

*For Start-up: The benefits to start-ups will be extended as per the extant of Government Guideline for start-up without any relaxation in quality standards or technical parameters. Start Ups for availing benefits/recognition of Start-up, shall be required to submit Start Up certificate issued by DPIIT GOVT. OF INDIA. For recognized start-ups, turnover requirements are relaxed for point no. 3 of PQR (i.e. exempted). In case of startup bidders, they should have supplied M S fabrication item/s in past 01(One)Year or more (From the last date of previous month of tender submission). Bidders should submit documents as explained in point no.4 of Pre-Qualifying Requirement.

2. Mode of Submission of offer: Being e-tender, offer will be submitted online through e-tender portal: <https://eprocurebhel.co.in/nicgep/app>

Important dates are given below:

EVENT	SCHEDULE
Last Date & Time for receipt of tender	Date : 11.12.2025 Time : 12.00 hrs (IST)
Tender opening date & Time (Part I)	Date : 11.12.2025 Time : 15.30 hrs (IST)



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3. 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
4. Offer to be submitted only on e-procurement portal. Hard copy/email offer is not required to be submitted to BHEL-FSIP. **Any offer received in Hard copy/Email shall not be accepted and straightway rejected by BHEL-FSIP**
5. The offer shall be submitted as per the instructions of tender documents and as detailed in this NIT. Non acceptance of any term may lead to rejection of bid.
6. **This tender is for Rate contract and shall be valid for Two (02) years from date of finalization of tender.** BHEL shall release individual POs within validity of rate contract for supply of M S Casings.
7. **Drawings:** The drawings provided with tender documents are for sample (for information of bidders) only. Actual casing drawing shall be as per BHEL requirement and shall be shared along with individual POs. Drawings of BHEL is a confidential information and it should be used only for intended purpose. It should not be shared by vendors to any other parties. Supplier should have online inspection facility for inspecting the material online.
8. **Pre-dispatch Inspection:** Inspection shall be done by BHEL before dispatch of material as per Quality plan provided in technical specification. Supplier should also have online inspection facility for inspecting the material online. Suppliers should give advance Notice (5 Days) prior to date of inspection. In case advance notice is not given, BHEL shall not be responsible for any delay in inspection. Material Test Certificate is to be submitted along with supply.
9. **Delivery time and terms:** Within 45 days from date of individual PO. In case, ordering quantity exceeds accepted monthly capacity, delivery date shall be extended on pro-rata basis; i.e. 45 Days + Pro Rata days required to manufacture items exceeding as per accepted monthly capacity. The rates quoted shall be on F.O.R. BHEL Stores basis without unloading charges.
10. **Guarantee:** Vendor to Guarantee for 1 Year against any manufacturing defect from date of receipt of material at BHEL FSIP.
11. EMD –Earnest Money Deposit is not applicable however, Security Deposit of amount 3 % of contract value is to be deposited within 14 days from issuance of Rate Contract.
12. Integrity Pact (duly filled signed and stamped copy) is to be submitted along with techno-commercial offer.
13. **Price Variation clause: -**

The rates finalized will be subjected to price variation as per the PV formula indicated below. Price variation computed in Rs/Kg will be applied for each of the item pro-rata. Unit weight as indicated in BHEL drawing will be applicable for calculation and binding.



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Calculation of unit rate in individual PO:

Unit rate= Drawing Weight* PV adjusted RC rate

PV Formula:

Price variation in Rs per Kg of casing wt = 1.0 (Difference in Plate Rate for 10 mm Thickness for Delhi Region) = 1.0 (Pi-Po)

PV adjusted rate= Basic rate of item quoted in tender+ Price variation (as calculated above)

Where: -

Pi: The Average rate of MS Plate of 10 mm Delhi region of the previous month of Placement of Order date published in JPC excluding GST and,

Po: The Base Rate of MS Plate (10 mm Delhi region for the 1st month of October-2025) excluding GST. The Base Rate of MS Plate 10 mm is the Delhi region for the 1st Month of October-2025 JPC excluding GST i.e **Rs 48.305 /Kg**

Operation of PV Clause: -

- Rate taken for PV calculation shall be exclusive of GST of rate of plate 10 mm at Delhi.
- BHEL shall release PO after calculating rate per Kg as per above formula (Considering average JPC price of 10 MM plate of previous month e.g if PO is released in month of September-25, Average JPC of Month of August-25 shall be taken.
- Supplier does not need to submit PV bill.
- PO shall be released in number of casings with corresponding drawing after calculation of rates as mentioned above.

Basis for fixing indices/ Base rates:

Base of Data: Joint Plant Committee (JPC) constituted by Govt of India

Material Base: Rate of MS Plates of 10 MM as published in "JPC" (Delhi Region) Rates

The purpose of providing the base rate is for intended use of calculating PV only. The above is Delhi price. However, the vendor has to take into consideration the steel availability rate at their place, difference in rates if any & other related expenditure is in supplier's account. No claim on account of purchase of steel at different rate than indicated in JPC will be entertained by BHEL during finalization or execution of contract.

(II) Item Description and Scope of Supply:

Sl No	Item	Qty (MT)
1	M S Casing for Cone	85
2	M S Casing for MPO	87
3	M S Casing for Orifice	39
4	M S Casing for MDV/ Valve Body	130



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Item wise quantity variation +25% is allowed. The above quantity is based on BHEL market projection. This may change based on BHEL order book and market projection. **BHEL is not bound to release the POs of full quantity.**

Evaluation criteria: -Evaluation shall be item wise.

(III) Attachment to Tender Enquiry:

Sl. No.	Description	Annexure/Enclosure
1	General Terms & Conditions [GTC]	Enclosed
2	Special terms and Conditions [STC]	Enclosed
3	Reference Drawings	Enclosed
4	Technical Documents	Enclosed
5	Quality Plan & Identification Marking	Enclosed
6	Supplier's Capacity declaration format	Enclosed)
7	Integrity Pact	Enclosed
8	Third Party Non-Disclosure Agreement	Enclosed

(IV) Contact person details:

Amit Kumar Pandey

Engineer –MM

Phone: 05361 224126/ 7052114433

E-mail: pandeyak@bhel.in



SPECIAL TERMS AND CONDITIONS OF ENQUIRY (TE -180 dtd: 01.12.2025)

Sl. No.	Description																																						
1	Test Certificate																																						
	Supplier shall have to submit Material Test Certificate.																																						
2	Product Requirement																																						
	Supplier has to supply material as per drawings and specifications/quality plan with respective Purchase Orders. Reference drawings and Specification are attached. Supplier has to ensure that all tests/ reports as per quality plan/technical specification are submitted by them and any charges related to this shall be in supplier scope.																																						
3	Distribution of Load Share																																						
	<div>Distribution Table<table><tr><th colspan="4">There is Item Wise distribution as below</th></tr><tr><th>No of Techno-commercially Qualified Bidders</th><th>Distributed among/Between</th><th>Proportion</th><th>Remarks</th></tr><tr><td rowspan="4">>=5</td><td>4</td><td>37.5:27.5:20:15</td><td>If Counter offer accepted by 3 Bidders (Other than L-1)</td></tr><tr><td>3</td><td>45:35:20</td><td>If Counter offer accepted by 2 Bidders (Other than L-1)</td></tr><tr><td>2</td><td>60:40</td><td>If Counter offer accepted by 1 Bidder (Other than L-1)</td></tr><tr><td>1</td><td>100</td><td>Non Acceptance of Counter offer by any bidder</td></tr><tr><td rowspan="3">4</td><td>3</td><td>45:35:20</td><td>If Counter offer accepted by 2 Bidders (Other than L-1)</td></tr><tr><td>2</td><td>60:40</td><td>If Counter offer accepted by 1 Bidder (Other than L-1)</td></tr><tr><td>1</td><td>100</td><td>Non Acceptance of Counter offer by any bidder</td></tr><tr><td rowspan="2">3</td><td>2</td><td>60:40</td><td>If Counter offer accepted by 1 Bidder (Other than L-1)</td></tr><tr><td>1</td><td>100</td><td>Non Acceptance of Counter offer by any bidder</td></tr></table><p><i>* In case of only two PQR and Techno-commercially qualified responses, distribution shall be as per BHEL discretion.</i></p><p>Distribution shall be among N-1 (N minus One) bidders. In case of only two techno-commercially qualified bidders distribution shall be as per BHEL discretion.</p><p>Supplier has to declare the maximum monthly capacity for supply of items (in MT). BHEL shall go for ordering of minimum of share as stated above depending upon position of supplier (L1, L2 or L3).</p><p>Additionally, during execution, if the performance of vendor is not up to the mark in respect of delivery / quality performance / quoted capacity of the bidder, BHEL reserves the right to either reduce further loading or stop loading till the execution of overdue orders. In such cases the balance allocated full or part quantity of the defaulting vendors may at the discretion of the BHEL be re-distributed to other performing and willing vendors of the rate contract. BHEL Decision in this regard shall be final and binding on the bidder.</p><p>Since this is weight-based items so maintaining exact percentage may not be possible.</p><p>MSE/MII preference in load distribution: MSE/MII preference is applicable as explained-</p></div>	There is Item Wise distribution as below				No of Techno-commercially Qualified Bidders	Distributed among/Between	Proportion	Remarks	>=5	4	37.5:27.5:20:15	If Counter offer accepted by 3 Bidders (Other than L-1)	3	45:35:20	If Counter offer accepted by 2 Bidders (Other than L-1)	2	60:40	If Counter offer accepted by 1 Bidder (Other than L-1)	1	100	Non Acceptance of Counter offer by any bidder	4	3	45:35:20	If Counter offer accepted by 2 Bidders (Other than L-1)	2	60:40	If Counter offer accepted by 1 Bidder (Other than L-1)	1	100	Non Acceptance of Counter offer by any bidder	3	2	60:40	If Counter offer accepted by 1 Bidder (Other than L-1)	1	100	Non Acceptance of Counter offer by any bidder
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MSE purchase preference-

In compliance of MSE preference clause, the distribution of load amongst MSE bidders shall be in the following manner:

1. MSE purchase preferences will apply only in case MSE bidder has quoted prices within L1+15% & L1 is non-MSE bidder.
2. Distribution-
 - a. If none of the bidders who are selected to receive split portion of load is MSE, then lowest priced bidder amongst MSE who accepts L1 prices will be provided 25% of the Load. Rest of the bidders shall share balance 75% Load on pro-rata basis as per applicable distribution matrix above.
 - b. In case some MSE bidders are eligible for receiving the split portions of Load as per their bids ranking & the total quantum to MSE bidders exceeds 25%, the splitting shall be as per applicable distribution matrix.
 - c. In case some MSE bidders are eligible for receiving the split portions of Load as per their bids (Ln ranking) & the total quantum to MSE bidders is less than 25%, then the MSE bidder's quantum of Load shall be increased in pro-rata manner so that the sum of all MSE bidder's allocation is 25%. Rest of the bidders shall share balance 75% Load on pro-rata basis as per applicable distribution matrix.

MII purchase preference-

In compliance of PP-MII preference clause, the distribution of Load amongst class-1 local bidders shall be in the following manner:

1. Distribution shall apply only in case MII class-1 bidder has quoted prices within L1+20% & L1 is class-2 bidder.
2. Distribution:
 - a. If none of the bidders who are selected to receive split portion of Load is class-1, then lowest priced bidder amongst class-1, falling in preference margin. Rest of the bidders shall share balance 50 % Load on pro-rata basis as per applicable distribution matrix above.

6 Tender Finalization

Tender Finalization shall be through **price bid basis**. **Reverse Auction shall not be done**. Bidder has to quote their best rate.

- 7** Supplier may be required to provide the protective sheet of MS/GI on machined part as given in drawings with individual POs for MPOs & MDVs. Supplier has to quote rates accordingly. No separate claim in this regard shall be accepted.

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INTEREST OF THE COMPANY.

स्वाधिकार एवं गोपनीय
इस प्रलेख में दी गई सूचना भारत हेवी इलेक्ट्रिकल्स लिमिटेड की
संपत्ति है। इसका प्रत्यक्ष या अप्रत्यक्ष रूप में किसी भी तरह
प्रयोग नहीं किया जाए जो कंपनी के हित में हानिकार हो।

3-986-03-00517

ON DIMENSIONS

ENLARGE VIEW - X

Ø712±0.75
P.C.D. 660
Ø540±1

Ø50
R5
130±2
40±2
10
90±2
70±2

LUG DET.-S
WT.-0.55 Kg (Approx.)

Ø712±0.75
Ø592
1.5
Ø540±1
Ø24
6.3
32
10

DET.-C

12 HOLES Ø24 ON 660 PCD

11 HOLES Ø24 & 3 NOS SLOT
AS SHOWN

4 NOS. RIB 26 mm THICK

NOTES :-

01 MATERIAL M.S. TO CONFORM TO IS:2062 Gr.- E 250 QUALITY A (LATEST REV.)
02 CASING (EXCEPT MACHINED PORTION OF TOP & BOTTOM FLANGE) TO BE CLEANED & PAINTED WITH RED-OXIDE ON OUTSIDE
ONLY AS PER E&D:330. MACHINED PORTION OF TOP & BOTTOM FLANGE TO BE PAINTED WITH TRP (SPEC. NO. AA55154).
03 TOLERANCE ON THICKNESS OF CASING AS PER IS:1852-1979 CLAUSE 7.3 (LATEST REV.).
04 D.P. TEST ON WELDED JOINT TO BE CARRIED OUT AS PER E&D:331 (LATEST REV.).
05 ALL FLANGES TO BE FULL WELDED ON END OF CASING.
06 PARALLELISM BETWEEN SURFACE A & B IS TO BE WITHIN 1 mm.
07 ALL SEGMENTS TO BE FULL WELDED.
08 ALL FOUR RIBS TO BE WELD ALL AROUND ON OUTER CASING AS SHOWN.
09 PATTERN NO. TO WELD DEPOSITED AS FOLLOW
10 WELDING TO BE CARRIED OUT AS PER PROCEDURE E&D:330 (LATEST REV.).
11 TOP & BOTTOM FACE SHALL BE MACHINED AND PROTECTED WITH THIN M.S. SHEET BEFORE DISPATCH OF MATERIAL.

1-61-488-01018 REV.-01

04 RIBS

03 BOTTOM FLANGE

02 CASING

01 TOP FLANGE

ITEM NO.

DESCRIPTION

QTY.

MATERIAL

WT./UNIT
Kg (Approx.)

नाम/NAME

हस्ताक्षर/SIGN

दिनांक/DATE

वेरिएंट संख्या
No. of Var.

निर्माणकर्ता
DRN.

जांचकर्ता
CHD

स्वीकृतिदाता
APPD

विभाग
DEPTT.

अभियंत्रिकी
ENGG.

कोड/CODE

पैमाना/SCALE

भार कि.ग्रा.
WEIGHT (KG)

असेम्बली अभिकल्प का संदर्भ
REFER TO ASSLY. DRG.

नग क्रमांक
ITEM NO.

नगों की संख्या
NO. OF ITEMS

शीर्षक/TITLE

कार्ड कोड
CARD CODE

अभिकल्प संख्या/DRAWING NO.

REV.

पृष्ठ संख्या/Sheets No.

पृष्ठों की संख्या/No. of Sheets

A3 साइज़/A3 SIZE

हस्ताक्षर और दिनांक/SIGN & DATE	संशोधन संख्या REFERENCE DRG. NO.
संशोधन REV. 04	दिनांक DATE 24.08.20
संशोधन REV. 05	दिनांक DATE 03.03.21
संशोधन REV. 06	दिनांक DATE 01.02.25

संशोधन REV.	दिनांक DATE	संशोधनकर्ता ALTERED BY	जांचकर्ता CHD	Sd/-
04	24.08.20	CHD	CHD	Sd/-
03	27.09.18	CHD	CHD	Sd/-
02	22.05.13	CHD	CHD	Sd/-
01	04.10.11	CHD	CHD	Sd/-

NOTE NO. 09 CHANGED.

NOTE NO. 05 CHANGED.

REF. NO. - 2868

REF. NO. - 2754

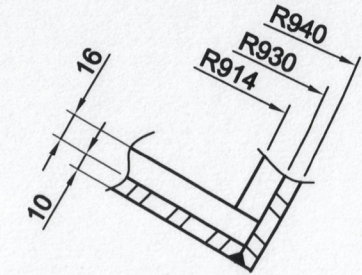
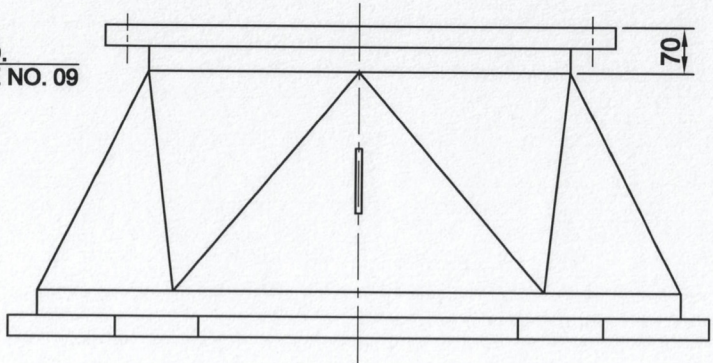
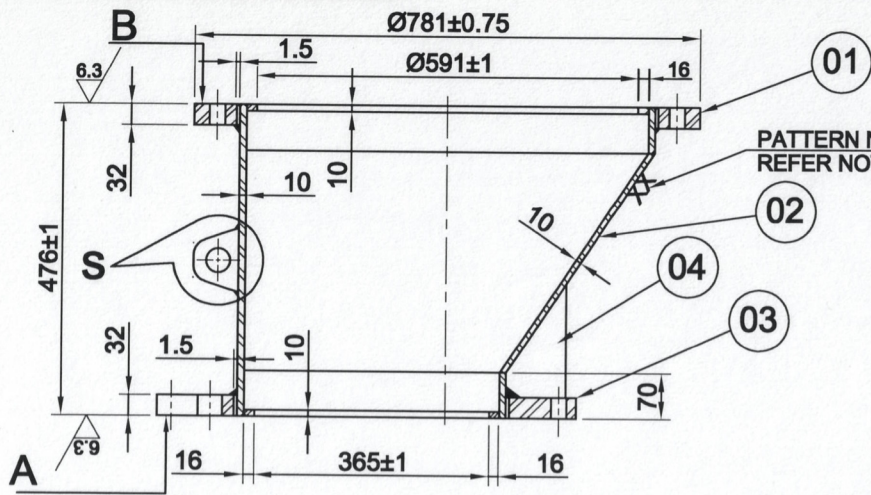
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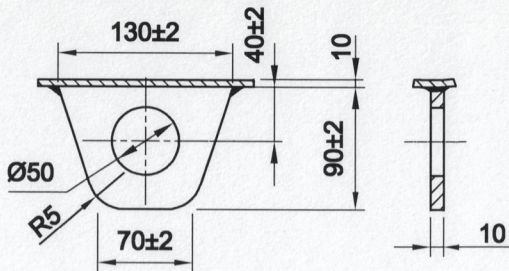
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NOTE NO. 02 MODIFIED. NOTE NO. 11 REMOVED AND SL. NO. UPDATED. REF. NO. 3112				
विभाग DEPTT.	अभियंत्रिकी ENGG.	कोड/CODE	पैमाना/SCALE	भार कि.ग्रा. WEIGHT (KG)
400			N.T.S.	157 Kg (Approx.)
शीर्षक/TITLE				
M.S. CASING FOR M.P.O.				
कार्ड कोड CARD CODE				
अभिकल्प संख्या/DRAWING NO.				
3-986-03-00517				
REV.				
06				
पृष्ठ संख्या/Sheets No.				
01				
पृष्ठों की संख्या/No. of Sheets				
01				

3-986-03-00488

अभिकल्प संख्या/DRAWING NO.

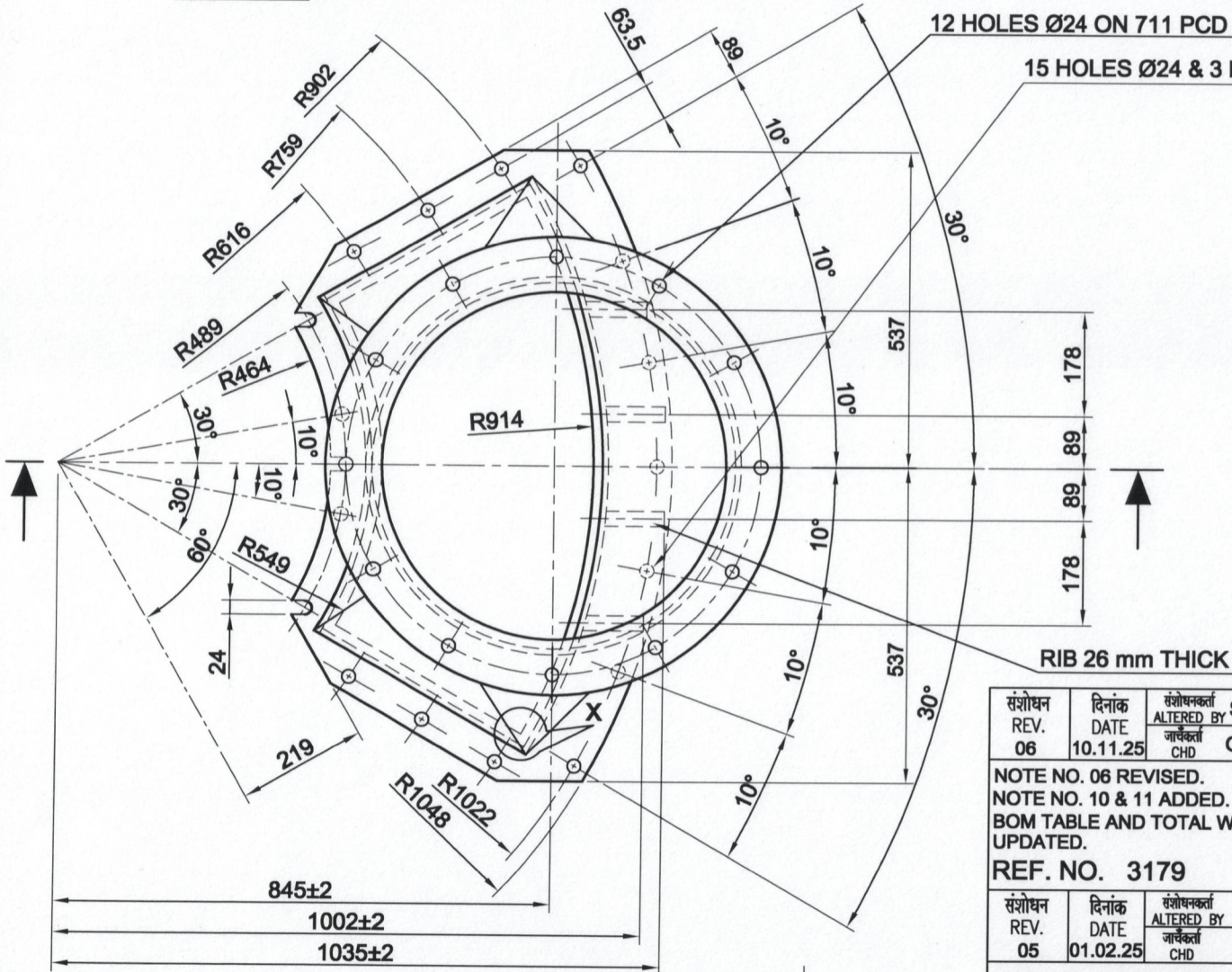


ENLARGE VIEW - X



LUG DET.-S

WT.-0.55 Kg (Approx.)



NOTES :-

- 01 MATERIAL M.S. CONFORM TO IS:2062 Gr.- E250 QUALITY A / BR (LATEST REV.).
- 02 CASING (EXCEPT MACHINED PORTION OF TOP & BOTTOM FLANGE) TO BE CLEANED & PAINTED WITH RED-OXIDE ON OUTSIDE ONLY AS PER E&D:330. MACHINED PORTION OF TOP & BOTTOM FLANGE TO BE PAINTED WITH TRP (SPEC. NO. AA55154).
- 03 TOLERANCE ON THICKNESS OF CASING AS PER IS:1852 CLAUSE 7.3 (LATEST REV.).
- 04 D.P. TEST ON WELDED JOINT TO BE CARRIED OUT AS PER E&D:331 (LATEST REV.).
- 05 FLANGE TO BE FULL WELDED ON EACH END OF CASING
- 06 PARALLELISM BETWEEN SURFACE A & B IS TO BE MAINTAINED WITHIN 0.8 mm.
- 07 ALL SEGMENTS TO BE FULL WELDED.
- 08 ALL FOUR RIBS TO BE WELD ALL AROUND ON OUTER CASING AS SHOWN.
- 09 PATTERN NO. TO BE WELD DEPOSITED AS FOLLOWS:-
"1-61-400-01278 XRP -1003 HYD"
- 10 FLATNESS OF SURFACES A & B IS TO BE MAINTAINED WITHIN 0.5 mm.
- 11 BOTH FLANGES TO BE COVERED WITH 2 mm THICK G.I. SHEET BEFORE DISPATCH. 4 NOS. M20X60 BOLT, NUT & WASHER FOR TOP FLANGE AND 6 NOS. FOR BOTTOM FLANGE TO BE USED FOR FIXING .
- 12 ALL DIMENSIONS ARE CRITICAL TO QUALITY (CTQ).

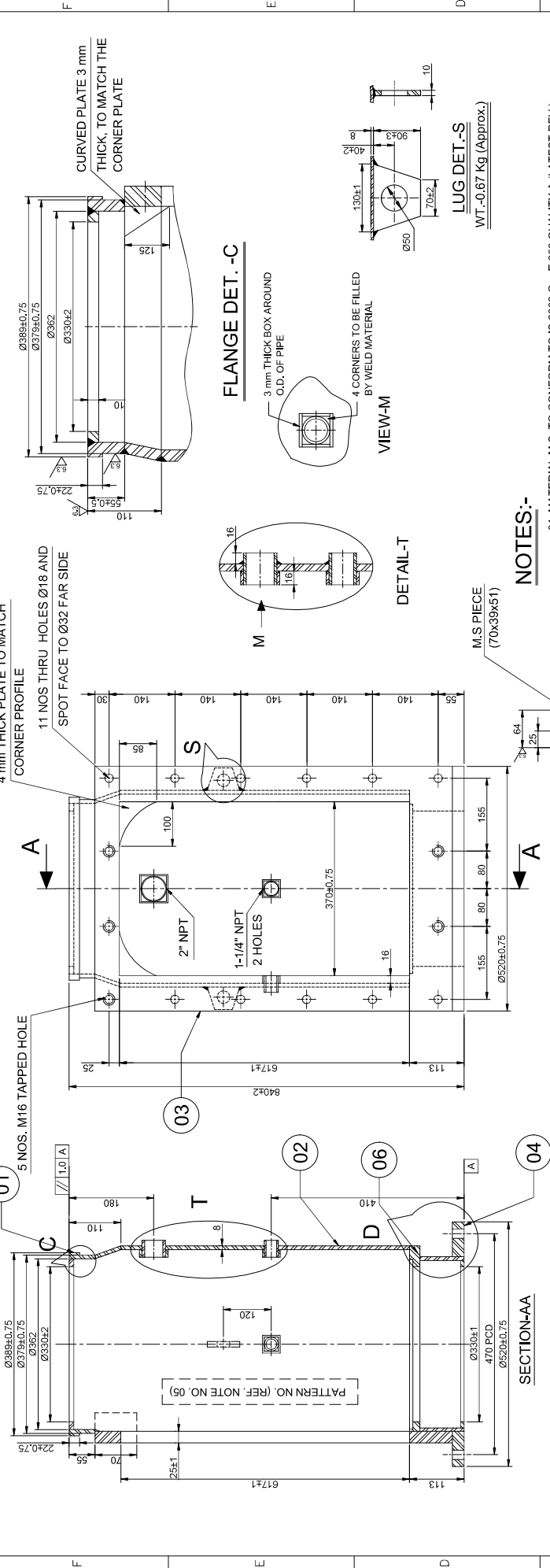
05	2 mm G.I. SHEET WITH FASTENERS	STD.	8.5
04	RIBS	M.S.	9.5
03	BOTTOM FLANGE	M.S.	48.5
02	CASING	M.S.	87.8
01	TOP FLANGE	M.S.	36.6
ITEM NO.	DESCRIPTION	MATERIAL	WT./UNIT Kg (Approx.)

संशोधन REV.	दिनांक DATE	संशोधनकर्ता ALTERED BY	Sd/-	संशोधन REV.	दिनांक DATE	संशोधनकर्ता ALTERED BY	Sd/-	संशोधन REV.	दिनांक DATE	संशोधनकर्ता ALTERED BY	Sd/-	संशोधन REV.	दिनांक DATE	संशोधनकर्ता ALTERED BY	Sd/-
04	06.03.14	CHD	Sd/-	03	08.02.14	CHD	Sd/-	02	07.11.13	CHD	Sd/-	01	01.05.10	CHD	Sd/-
MODIFIED NOTE NO. 06 REMOVED FLATNESS TOLERANCE IN BOTH FLANGE				MODIFIED NOTE NO. 06 ADDED FLATNESS TOLERANCE IN BOTH FLANGE				ADDED NOTE NO. 09 ADDED DIM. 1.5 IN BOTH FLANGES TOTAL WEIGHT 183 Kg WAS 184 Kg				WEIGHT 9.5, 71.0, 44.5 & 184 Kg WAS 6.5, 53, 42 & 160 Kg RESPECTIVELY.			
REF. NO. 2457				REF. NO. 2451				REF. NO. 2423				REF. NO. 2144			

विभाग अभियंत्रिकी DEPT. ENGG.		पैमाना/SCALE N.T.S.		भार.कि.ग्रा. WEIGHT (KG) 191 (Approx.)		असेम्बली अभिकल्प का संदर्भ REFER TO ASSLY. DRG.		नग क्रमांक ITEM NO.		नगों की संख्या NO. OF ITEMS	
कोड /CODE 400		शीर्षक/TITLE M.S. CASING FOR M.P.O.		कार्ड कोड CARD CODE		अभिकल्प संख्या/DRAWING NO. 3-986-03-00488		REV. 06			
						पृष्ठ संख्या/Sheets No. 01		पृष्ठों की संख्या/No. of Sheets 01			

28300-30-986-Z

ON DIMENSIONS / In the Details



NOTES:-

- 01 MATERIAL M.S. TO CONFORM TO IS-2082 Gr.- E 250 QUALITY A (LATEST REV.)
- 02 CASING TO BE CLEANED & PAINTED WITH RED-OXIDE ON OUTSIDE ONLY AS PER E&D-330.
- 03 TOLERANCE ON THICKNESS OF CASING AS PER IS-1852 CLAUSE 7.3 (LATEST REV.)
- 04 D.P. TEST ON WELDED JOINT TO BE CARRIED OUT AS PER E&D-331 (LATEST REV.)
- 05 PATTERN NO. TO BE WELD DEPOSITED ON OUTER SIDE AS FOLLOWS:-
- 06 MFG. & INSP. SHOULD BE DONE AS PER E&D-306 (LATEST REV.)
- 07 FLANGE IS TO BE FULL WELDED ON EACH END OF CASING.
- 08 WELDING TO BE CARRIED OUT AS PER PROCEDURE E&D-330 (LATEST REV.)

0-61-462-00105-HYD

LUG DET.-S
WT.-0.67 Kg (Approx.)

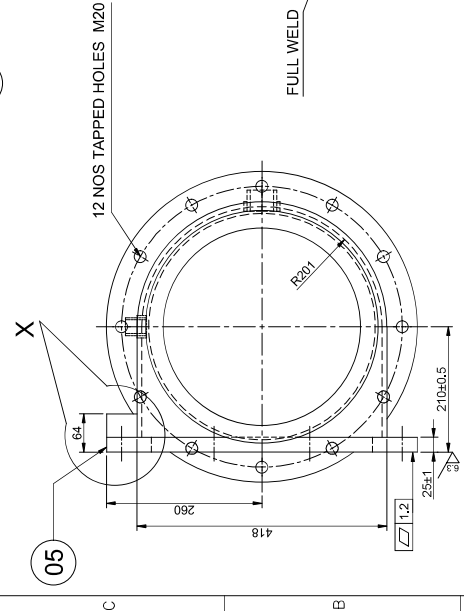
FLANGE DET.-C

VIEW-M

DETAIL-T

DETAIL-X

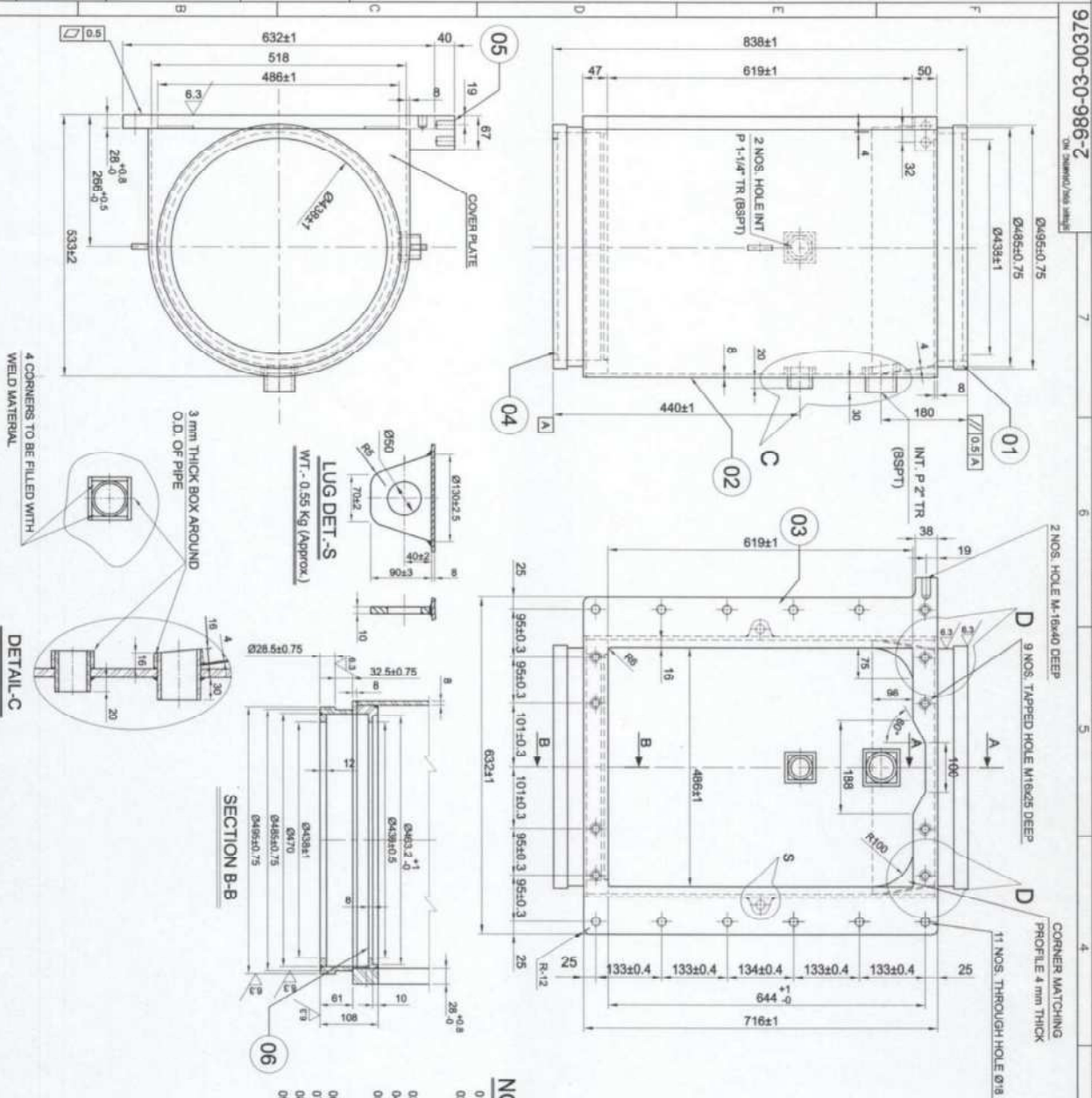
DETAIL-D



उपार के प्रकार या प्रकार/प्रयोग के नाम
TYPE OF PRODUCT OR NAME OF
CUSTOMER/PROJECT

REV.	DATE	BY	CHKD.	DATE	BY	CHKD.	DATE	BY	CHKD.
01	11.05.07	S. YADAV	Sd/	11.05.07	S. YADAV	Sd/	11.05.07	S. YADAV	Sd/
02	11.05.07	S. YADAV	Sd/	11.05.07	S. YADAV	Sd/	11.05.07	S. YADAV	Sd/
03	11.05.07	S. YADAV	Sd/	11.05.07	S. YADAV	Sd/	11.05.07	S. YADAV	Sd/
04	11.05.07	S. YADAV	Sd/	11.05.07	S. YADAV	Sd/	11.05.07	S. YADAV	Sd/
05	11.05.07	S. YADAV	Sd/	11.05.07	S. YADAV	Sd/	11.05.07	S. YADAV	Sd/
06	11.05.07	S. YADAV	Sd/	11.05.07	S. YADAV	Sd/	11.05.07	S. YADAV	Sd/
07	11.05.07	S. YADAV	Sd/	11.05.07	S. YADAV	Sd/	11.05.07	S. YADAV	Sd/
08	11.05.07	S. YADAV	Sd/	11.05.07	S. YADAV	Sd/	11.05.07	S. YADAV	Sd/
09	11.05.07	S. YADAV	Sd/	11.05.07	S. YADAV	Sd/	11.05.07	S. YADAV	Sd/

REV.	DATE	BY	CHKD.	DATE	BY	CHKD.	DATE	BY	CHKD.
01	11.05.07	S. YADAV	Sd/	11.05.07	S. YADAV	Sd/	11.05.07	S. YADAV	Sd/
02	11.05.07	S. YADAV	Sd/	11.05.07	S. YADAV	Sd/	11.05.07	S. YADAV	Sd/
03	11.05.07	S. YADAV	Sd/	11.05.07	S. YADAV	Sd/	11.05.07	S. YADAV	Sd/
04	11.05.07	S. YADAV	Sd/	11.05.07	S. YADAV	Sd/	11.05.07	S. YADAV	Sd/
05	11.05.07	S. YADAV	Sd/	11.05.07	S. YADAV	Sd/	11.05.07	S. YADAV	Sd/
06	11.05.07	S. YADAV	Sd/	11.05.07	S. YADAV	Sd/	11.05.07	S. YADAV	Sd/
07	11.05.07	S. YADAV	Sd/	11.05.07	S. YADAV	Sd/	11.05.07	S. YADAV	Sd/
08	11.05.07	S. YADAV	Sd/	11.05.07	S. YADAV	Sd/	11.05.07	S. YADAV	Sd/
09	11.05.07	S. YADAV	Sd/	11.05.07	S. YADAV	Sd/	11.05.07	S. YADAV	Sd/



NOTES:-

- 01 MATERIAL IN CONFORMANCE TO IS-2002 (G-4) (LATEST REV.).
02 CASING EXCEPT MACHINED PORTION OF 1 BOTTOM FLANGE & DOOR FRAME) TO BE
CLEANED & PAINTED WITH RED-OXIDE ON OUTSIDE ONLY AS PER EMO-330. MACHINED PORTION
OF TOP & BOTTOM FLANGE & DOOR FRAME TO BE PAINTED WITH TRP (SPEC. NO. M-65154).
03 TOLERANCE ON THICKNESS OF CASING AS PER IS-1858, CLAUSE 7.1 (LATEST REV.).
04 D.P. TEST ON WELDED JOINT TO BE CARRIED OUT AS PER EMO-331 (LATEST REV.).
05 PARTIAL NO. TO BE WELD DEPOSITED AS FOLLOWS:-

0-61-480-00077-XRP-803


06 MFG. & INSP. SHOULD BE DONE AS PER E&D 306 (LATEST REV.)

07 FLANGE IS TO BE FULL WELDED ON EACH END OF CASING.

08 WELDING TO BE CARRIED OUT AS PER PROCEDURE EAD-300 (LATEST REV.)

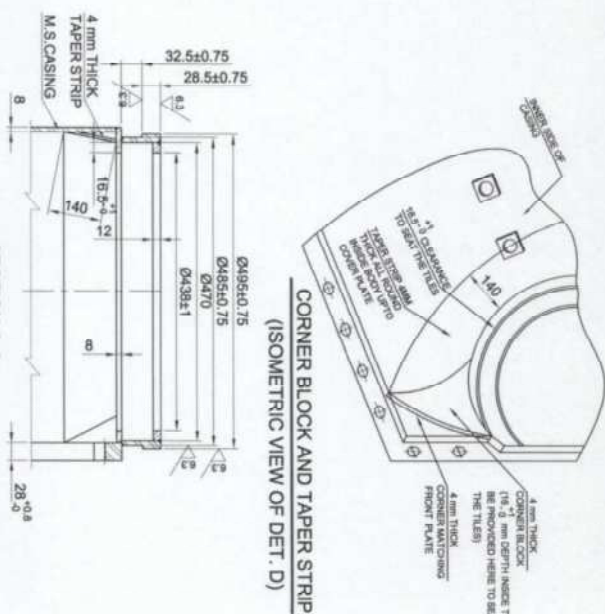
09 ALL DIMENSIONS ARE CRITICAL TO QUALITY (CTQ)

ITEM NO.	DESCRIPTION	MATERIAL	QTY.	WT./UNIT Kg (Approx.)
06	INNER FLANGE	M.S.	01	12.3
05	M.S. BLOCK	M.S.	01	1.3
04	BOTTOM FLANGE	M.S.	01	9.2
03	DOOR FRAME	M.S.	01	31.7
02	CASING	M.S.	01	76.3
01	TOP FLANGE	M.S.	01	9.2

 भारत भारी इलेक्ट्रिकल लिमिटेड, जयपुर, राजस्थान भारत भारी इलेक्ट्रिकल लिमिटेड JACODSIPUR, ANTEHI	संस्थान	संस्थान	संस्थान	संस्थान
	संस्थान	संस्थान	संस्थान	संस्थान
	संस्थान	संस्थान	संस्थान	संस्थान
	संस्थान	संस्थान	संस्थान	संस्थान

[illegible]

STREET/TITLE M.S. CASING FOR VALVE BODY	CAD NO. DOCK	SHEET# / TOTAL / DRAWING NO. 2-986-03-00376	PAGE NO. 06
PROJECT/DRAWING No. 01		DATE OF ISSUE/No. of Sheets 01	

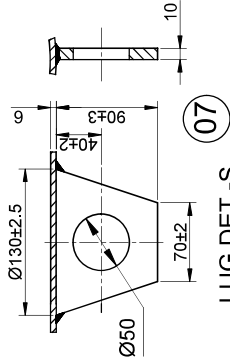
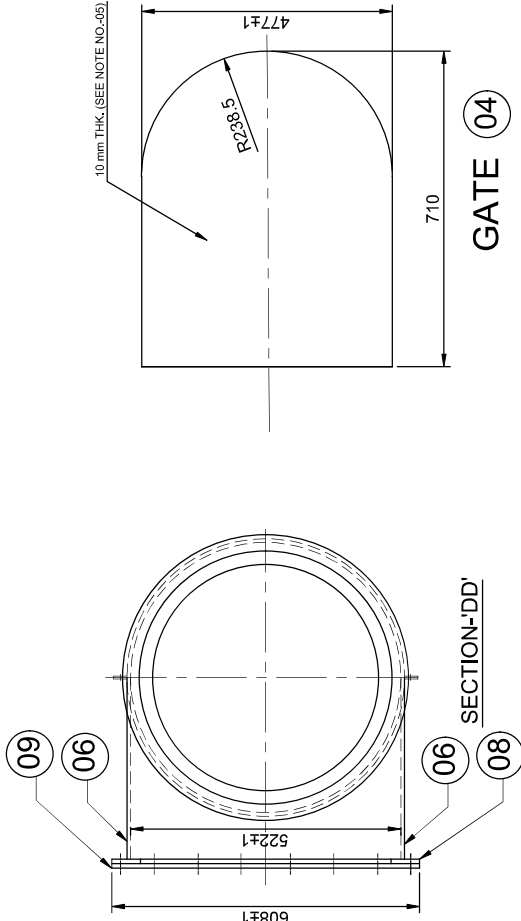
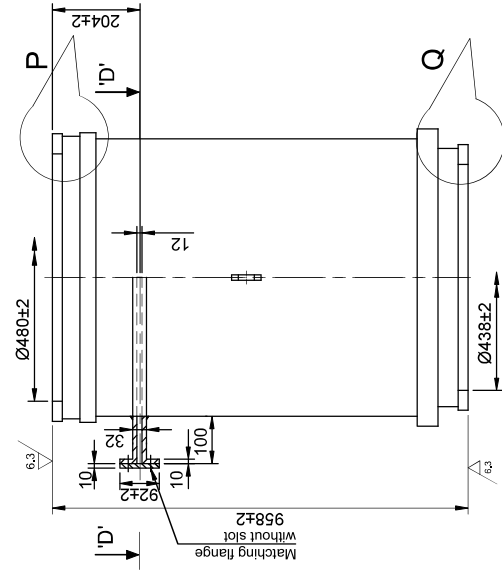


95110-EO-986-E

ON 31MMx40/बिना लुहडिजि

18 NOS. M12 x40 BOLT WITH NUT

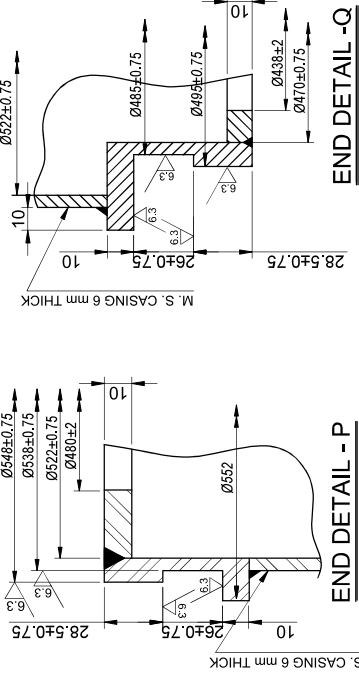
18 HOLES Ø14



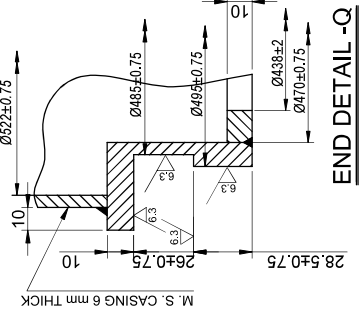
GATE 04

SECTION-DD'

LUG DET.-S



END DETAIL - P



END DETAIL -Q

यह दस्तावेज भारतीय प्रौद्योगिकी विभाग द्वारा जारी किया गया है। इसका उपयोग केवल उद्देश्य के लिए ही किया जाना चाहिए।
यह दस्तावेज भारतीय प्रौद्योगिकी विभाग द्वारा जारी किया गया है। इसका उपयोग केवल उद्देश्य के लिए ही किया जाना चाहिए।
यह दस्तावेज भारतीय प्रौद्योगिकी विभाग द्वारा जारी किया गया है। इसका उपयोग केवल उद्देश्य के लिए ही किया जाना चाहिए।

NOTES :-

- 01 MATERIAL M.S. CONFORM TO IS:2062 Gr. E250 QUALITY A.
- 02 CASING TO BE CLEANED & PAINTED WITH RED-OXIDE ON OUTSIDE ONLY.
- 03 TOLERANCE ON THICKNESS OF CASING AS PER IS:1852-1979 CLAUSE 7.3
- 04 D.P. TEST ON WELDED JOINT TO BE CARRIED OUT AS PER E & D:331
- 05 GATE TO BE SUPPLIED IN LOOSE CONDITION.
- 06 FLANGE TO BE FULL WELDED ON EACH END OF CASING.
- 07 18 BOLTS WITH NUT M12 TO BE SUPPLIED ALONG WITH CASING
- 08 SUITABLE WEDGES ARE TO BE PUT IN THE SLOTS DURING WELDING OF BOX TO MAINTAIN THE HEIGHT
- 09 MATING SURFACE OF FLANGE 08 & 09 SHOULD BE MACHINED FOR PROPER MATCHING

DIMENSIONS TO BE CONTROLLED WITHIN LIMITS AS SHOWN
MACHINING TOLERANCE ±0.25 mm
UNLESS OTHERWISE SHOWN
NON-MACHINING TOLERANCE ±0.5 mm

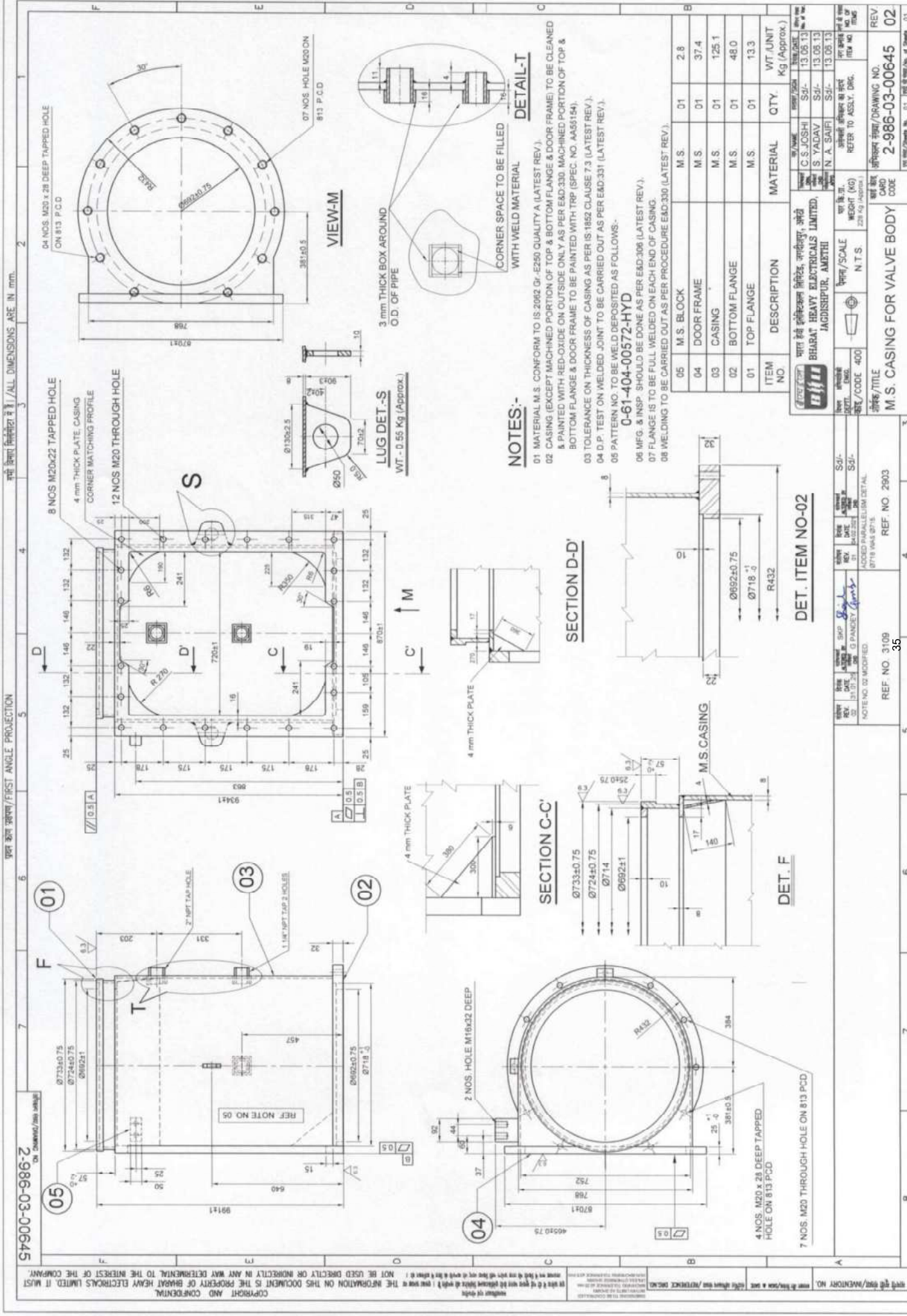
REFERENCE DRG. NO.	संदर्भ ड्राइंग नम्बर
DATE	दिनांक
SIGNATURE	हस्ताक्षर
INVENTORY NO.	सामग्री नम्बर

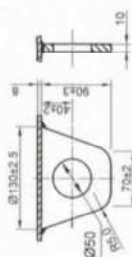
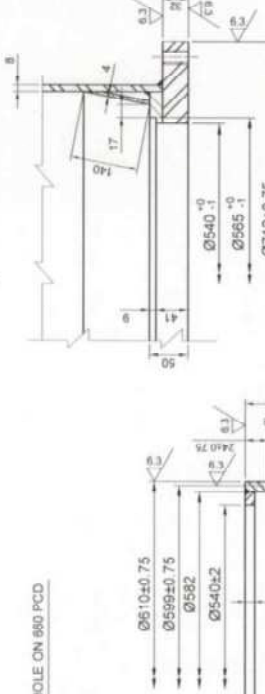
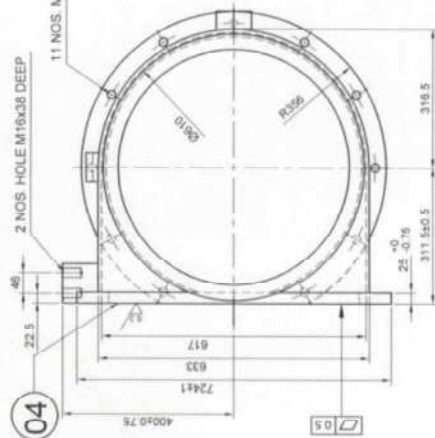
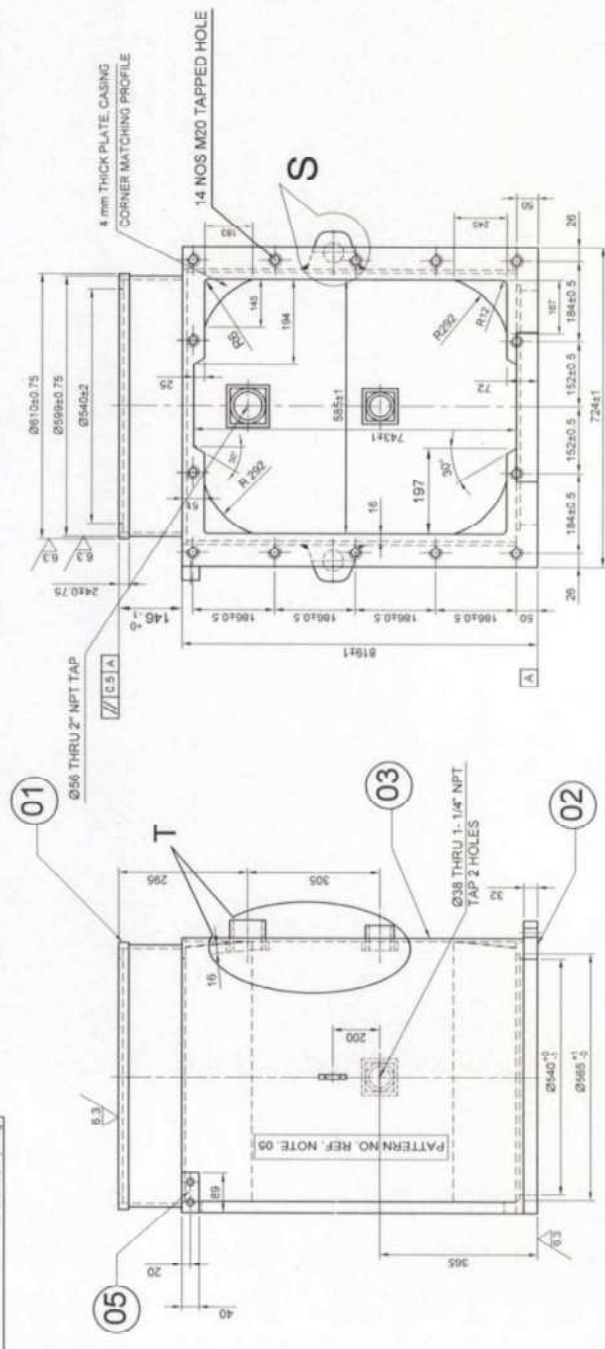
उत्पाद का प्रकार या ग्राहक/परियोजना का नाम
TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT

भारत हेवी इलेक्ट्रिकल्स लिमिटेड, जगदीशपुर, अमरी
BHARAT HEAVY ELECTRICALS LIMITED,
JAGDISHPUR, AMETHI

विभाग DEPT.	अभियंता ENG.	डिजाइन REV.	संशोधन ALTERED BY
कोड / CODE	400	400	CHD
पैमाना / SCALE	N.T.S.	भार कि.ग्रा. WEIGHT (KG)	144.00 Kg.(Approx)
शीर्षक / TITLE	M.S. CASING MILL DISCHARGE VALVE	अभिकल्प संख्या / DRAWING NO.	3-986-03-01153
शीर्षक / TITLE	DISCHARGE VALVE	REV.	00

ITEM NO.	DESCRIPTION	MATERIAL	QTY.	WT./UNIT Kg (Approx.)
09	MATCHING FLANGE WITHOUT SLOT	M.S.	01	4.5
08	FLANGE WITH SLOT	M.S.	01	4.5
07	LUG	M.S.	02	0.55
06	SIDE PLATE (10 THK.)	M.S.	02	1.5
05	GUIDE PLATE (10 THK.)	M.S.	02	8.0
04	GATE	M.S.	01	24.0
03	CASING	M.S.	01	65.4
02	BOTTOM FLANGE - Q	M.S.	01	12.0
01	TOP FLANGE - P	M.S.	01	12.26





NOTES:-

- 01 MATERIAL M.S. TO CONFORM TO IS 2062 Gr. E 250 QUALITY A (LATEST REV.)
02 CASING (EXCEPT MACHINED PORTION OF TOP & BOTTOM FLANGE & DOOR FRAME) TO BE
CLEANED & PAINTED WITH RED-OXIDE ON OUTSIDE ONLY AS PER EMD 330. MACHINED PORTION
OF TOP & BOTTOM FLANGE & DOOR FRAME TO BE PAINTED WITH TRP (SPEC. NO. AA35154).
03 TOLERANCE ON THICKNESS OF CASING AS PER IS 1852 CLAUSE 7.3 (LATEST REV.)
04 D.P. TEST ON WELDED JOINT TO BE CARRIED OUT AS PER EMD 331 (LATEST REV.)
05 PATTERN NO. TO BE WELD DEPOSITED ON OUTER SIDE AS FOLLOWS:-

0-61-488-00507-883-XRP

06 MFG. & INSP. SHOULD BE DONE AS PER E&D 306 (LATEST REV.).
07 CHANGE IS TO REEUL WELDED ON EACH END OF C-15ING2

08 WELDING TO BE CARRIED OUT AS PER PROCEDURE E&D 330 (1 A TEST REV.).

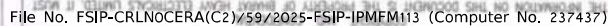
05	M.S. BLOCK	M.S.	01	1.0
04	DOOR FRAME	M.S.	01	33.2
03	CASING	M.S.	01	98.9
02	BOTTOM FLANGE	M.S.	01	39.0
01	TOP FLANGE	M.S.	01	22.9
ITEM NO.	DESCRIPTION	MATERIAL	QTY.	WT./UNIT Kg. (Approx.)

DET. ITEM NO-01

LUG DET.-S

WT - 0.55 Kg (Approx.)

[illegible]

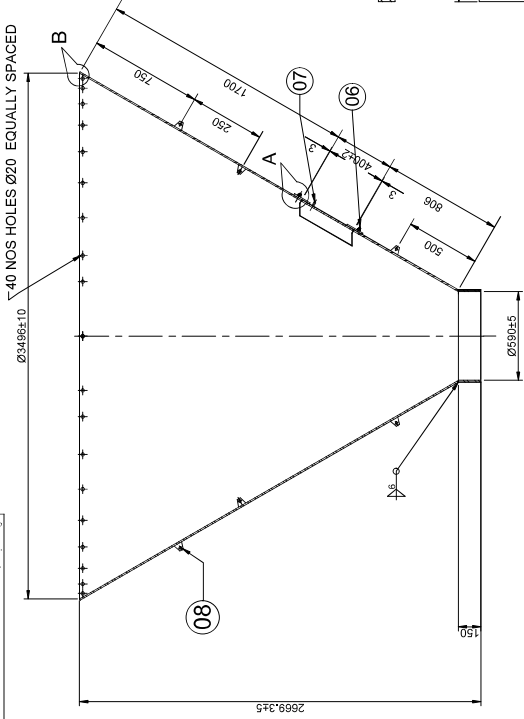


एक कोण प्रक्षेप/ FIRST ANGLE PROJECTION

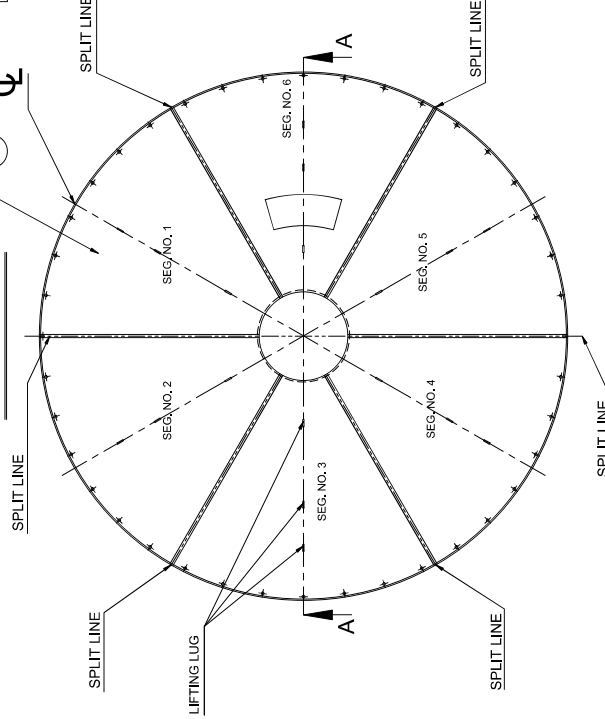
सभी माप संकेत/ ALL DIMENSIONS ARE IN mm.

06010-030-986-Z
ON 30MM/10mm

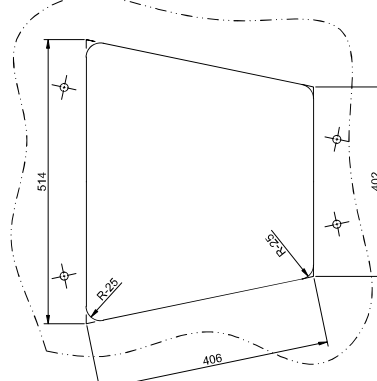
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SECTION - A-A



MAN HOLE DETAILS



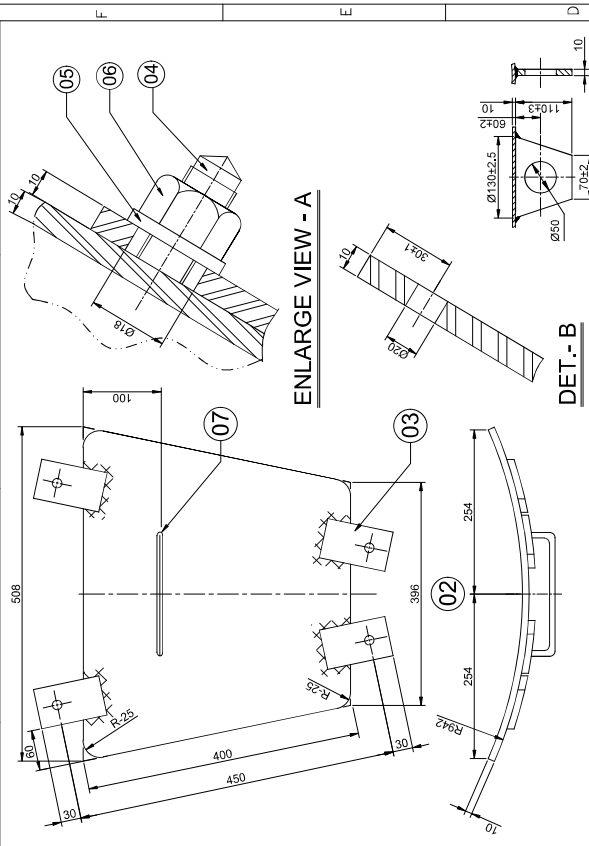
NOTES :-

- 01 MATERIAL M.S. TO CONFORM TO IS:2082 Gr.-E250 QUALITY A (LATEST REV.)
- 02 CASING TO BE CLEANED ON BOTH SIDE.
- 03 TOLERANCE ON THICKNESS OF CASING AS PER IS:1852 CLAUSE 7.3
- 04 D.P. TEST ON WELDED JOINT TO BE CARRIED OUT AS PER E&D 331
- 06 THE CONE IS TO BE SUPPLIED IN SIX SEGMENTS (AT THE TIME OF INSPECTION COMPLETE CONE TO BE REQUIRED WITH TACK WELD) .
- 07 IDENTIFICATION NUMBER TO BE PROVIDED BY PAINT FOR EACH SEGMENTS.
- 08 IN ALL THE SEGMENTS 6x45° CHAMFER TO BE PROVIDED ONLY IN STEEL AT BOTH END.
- 09 HORIZONTAL JOINT (IF USED) SHOULD NOT BE MORE THAN ONE FOR EACH PART.
- 10 IF HORIZONTAL JOINT USED THEN TOP PORTION AND BOTTOM PORTION SHOULD BE OF EQUAL LENGTH.

DET.- B

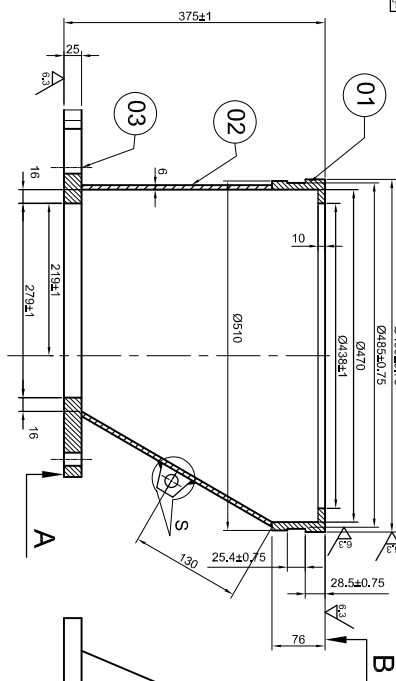
LUG DET.(08)
WT.-0.7 Kg (Approx.)

ENLARGE VIEW - A

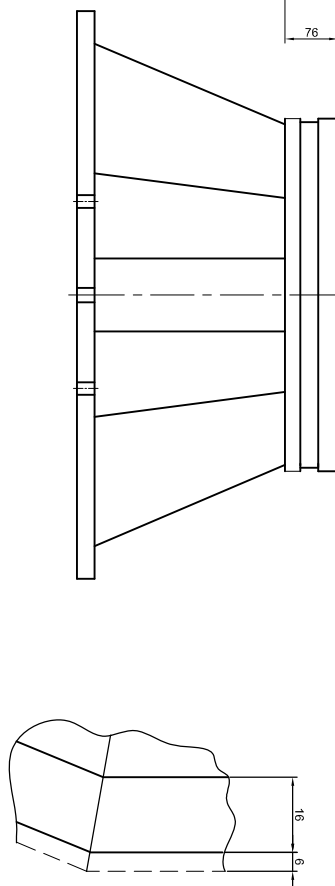


ITEM NO.	DESCRIPTION	SPECIFICATION	MATERIAL QTY.	UNIT WEIGHT Kg (Approx.)
08	LUG	10 mm THICK	M.S.	18
07	HANDLE	Ø10	M.S.	01
06	HEX. NUT	M16	STD.	04
05	WASHER	3.15X40 O.D./18 ID	STD.	04
04	STUD AUTO WELD	M16X45	STD.	04
03	PLATE	10X60X100	M.S.	04
02	MAN HOLE COVER	10 mm THICK	M.S.	01
01	CONE PLATE	10 mm THICK	M.S.	14.50
			M.S.	06
			M.S.	246

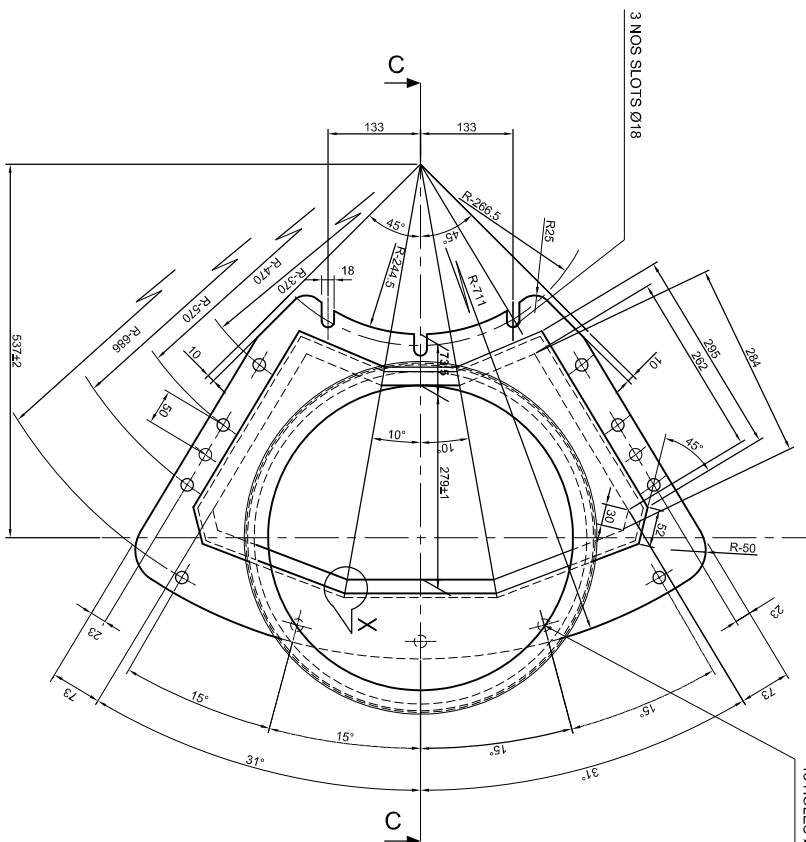
भारत हेवी इलेक्ट्रिकल्स लिमिटेड, जगदीशपुर, अरुणाचल प्रदेश BHARAT HEAVY ELECTRICALS LIMITED, JAGDISHPUR, ARUNACHAL PRADESH		अनुमोदित/DATE C.S. JOSHI V.K. RAM G.S. SINGH	संख्या/REV. 24.06.21 24.06.21 24.06.21
संख्या/DEPT. 400	संख्या/SCALE N.T.S.	संख्या/WEIGHT (KG) 4485 (Approx.)	संख्या/REV. 24.06.21
संख्या/TITLE M.S. CASING FOR INNER CONE		संख्या/REV. 2-986-03-01090	संख्या/REV. 02



SECTION - CC



ENLARGE VIEW - X



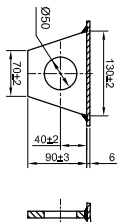
13 HOLES Ø18 & SPOT FACE Ø35 DEPTH 1mm

NOTES:-

- 01 MATERIAL M.S. CONFORM TO IS:2082 Gr.- E250 QUALITY A (LATEST REV.).
02 CASING TO BE CLEANED & PAINTED WITH RED-OXIDE ON OUTSIDE ONLY.
03 TOLERANCE ON THICKNESS OF CASING AS PER IS-1852+1979 CLAUSE 7.3 (LATEST REV.).
04 D.P. TEST ON WELDED JOINT TO BE CARRIED OUT AS PER EAD:331 (LATEST REV.).
05 FLANGE TO BE FULL WELDED ON EACH END OF CASING
06 PARALLELISM & FLATNESS BETWEEN SURFACE A & B IS TO BE WITHIN 1 mm.
07 ALL SEGMENTS TO BE FULL WELDED.
08 WELDING TO BE CARRIED OUT AS PER EAD:330.
09 PATTERN NO. TO BE WELD DEPOSITED AS FOLLOWS:-
"XRP-803"

LUG DET.-S

WT.-0.55 Kg (Approx.)



03	BOTTOM FLANGE	M.S.	39
02	CASING	M.S.	19
01	TOP FLANGE	M.S.	13.6
ITEM NO.	DESCRIPTION	MATERIAL	UNIT WT. (kg/ APPROX)

DIMENSIONS TO BE CONTROLLED
WITHIN
LIMITS AS SHOWN
MACHINING TOLERANCE ± 0.25 mm
UNLESS
OTHERWISE SHOWN
NON-MACHINING TOLERANCE ± 0.5 mm

REV.	DATE	ALTERED BY
		CHD

मार्गदर्शक	डिजिटल	मार्गदर्शक
REV.	DATE	ALTERED BY मार्गदर्शक CND

विभाग संशोधन विभाग				
DEPT.	DMS.			
कोड / CODE	400			
				
	N.T.S.			
	भार क्रि. ग्रा. WEIGHT (KG) 72.00 (APPROX.)			
	असंबंधी असंलग्न काट चित्र REFER TO ASSLY. DRC.			
	गोपनीयता कोड ITEM NO. NO.			

पत्र/टिपल
M.S. CASING FOR M.P.O.

3144444444 / DRAWING NO.
2-986-03-01148

0	
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A2 शीट/ A2 SIZE

[illegible]

[illegible]

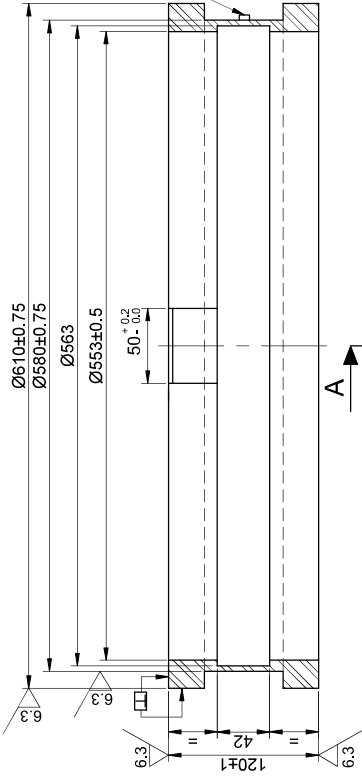
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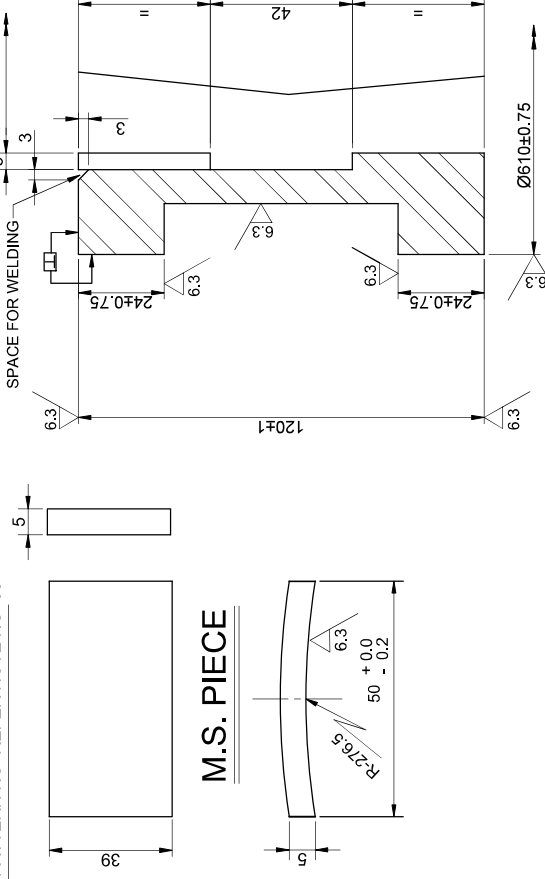
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आवक/सूचक/DRAWING NO.



PATTERN NO. REFER NOTE NO. 06



SECTION -A A'

NOTES :-

- 01 MATERIAL M.S. TO CONFORM TO IS:2062 Gr.- E250 QUALITY A (LATEST REV.)
02 CASING TO BE CLEANED & PAINTED WITH RED-OXIDE ON OUTER SIDE ONLY.
03 TOLERANCE ON THICKNESS OF CASING AS PER IS:1952 CLAUSE 7.3 (LATEST REV.)
04 D.P. TEST ON WELDED JOINT TO BE CARRIED OUT AS PER E&D:331 (LATEST REV.)
05 A CUT-OUT FOR 50 mm LONG TO BE PROVIDED AS SHOWN A SUITABLE PIECE FOR
FILLING CUT-OUT TO BE SUPPLIED SEPARATELY.
06 PATTERN NO. SHOULD BE PUNCHED ON OUTER PERIPHERY
FOR EXAMPLE FOR STYLE NO. 89:-

4790789

- 07 WELDING TO BE CARRIED OUT AS PER PROCEDURE E&D:330 (LATEST REV.):

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3.0 SUBJECT & PURPOSE:

SUBJECT: Design & Inspection procedures for the manufacture of fabricated casings & ceralin tiles for PF bends.

PURPOSE: To outline procedure for design of ceralin tiles & to provide information & guidance to various manufactures of MS casings with end rings.

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4.0 CERALIN CASING DESIGN :

OBJECTIVE :

This procedure essentially provides information for the process of manufacture of mitred segments, stipulates conditions for acceptance of tack/ full welded segments in the form of casings on Layout & details the method for tile design.

SCOPE OF SUPPLY :

- 1) The casing size, various dimensions connection details, and quality shall be as per the latest drawings to be enclosed along with the detailed purchase order.
- 2) Contractual obligations, if any, other than those specified in the procedure will be mutually agreed upon.

APPLICABLE CODES :

All welders have to be qualified as per welding procedure E&D: 330 prior to taking up welding on jobs.

MATERIAL :

- 1) The material used for the mitred segments shall conform to IS-2062 Gr. A
- 2) The material for ceralin tile should be as per Technology Document No. E&D : 308

CASINGS :

a) ROLLING SHELLS :

The following checks to be made prior to rolling.

- i. Thickness of plate conforming to drawing dimensions. Tolerances on thickness will be as per IS-1852 (1985) Cl.7.3
- ii. Visual defects on plates such as dents and burrs to be removed suitably.
- iii. Edges must be straight and if necessary to be ground, The plates of appropriate size to be chosen such that

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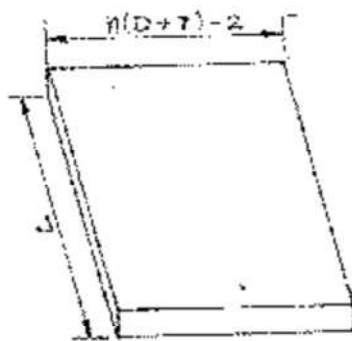


FIG - 1

(All dimensions in mm)

The desired rolling diameter is obtained and Maximum segments can be cut to minimize wastage of material.

The dimension of plates may be $(D+T) - 2\text{mm} \times L\text{ mm} \times T\text{ mm}$ where D = Internal dia, T = Thickness of plate, L = Length suitably chosen. $(D+T)$ = Mean diameter.

- The diagonals to be checked for equality and if necessary the edges to be gas cut and ground to the desired dimensions.
- Edge preparations shown in Fig-2 to be carried out by suitable grinding machines.

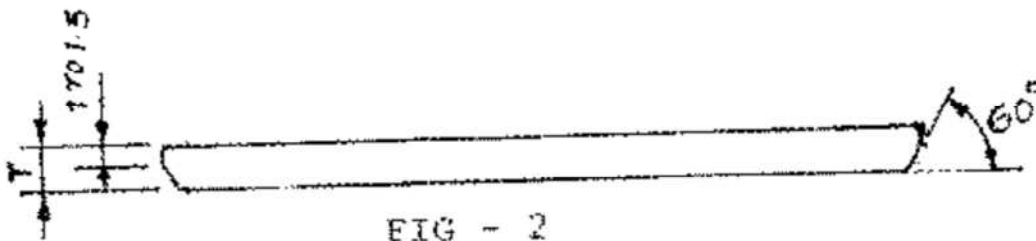


FIG - 2

Rolling to desired dimensions in the manner shown in Fig - 3

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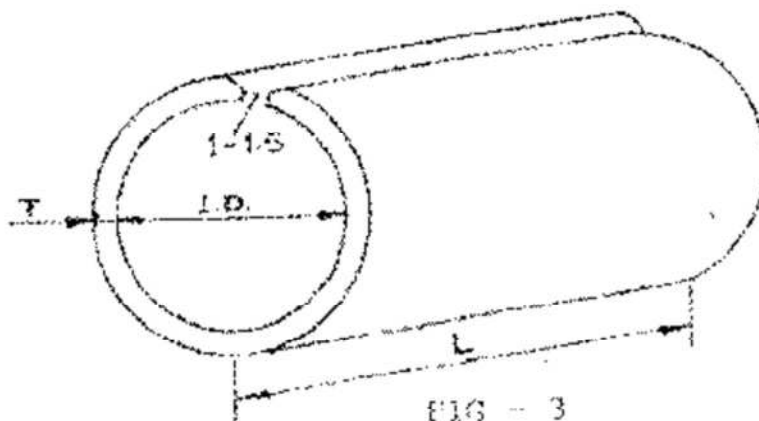
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At this stage the circumference compatibility with the corresponding length of development template of segment profile is to be checked and difference, if any, to be corrected to match with the template.

Welding is carried out as per welding procedure E&D: 330. On completion of welding, the pipe is to be re-rolled in order to correct for ovality and the maximum ovality permissible is 2mm. Use templates (extended curvature) for verifying ovality.

b) TEMPLATE :

Development drawing/ template for the type of segment is made first. The parameters to be considered for making the angular segment templates are 'R' the mean radius of bend. Inner diameter of the casing (ID) the corresponding angle for the segment and the pipe thickness (T). The possible types of segments can be categorized under any of the following shown in Fig. 4.

For angles α , $\beta/2$, γ & δ the corresponding values of X & Y are calculated as

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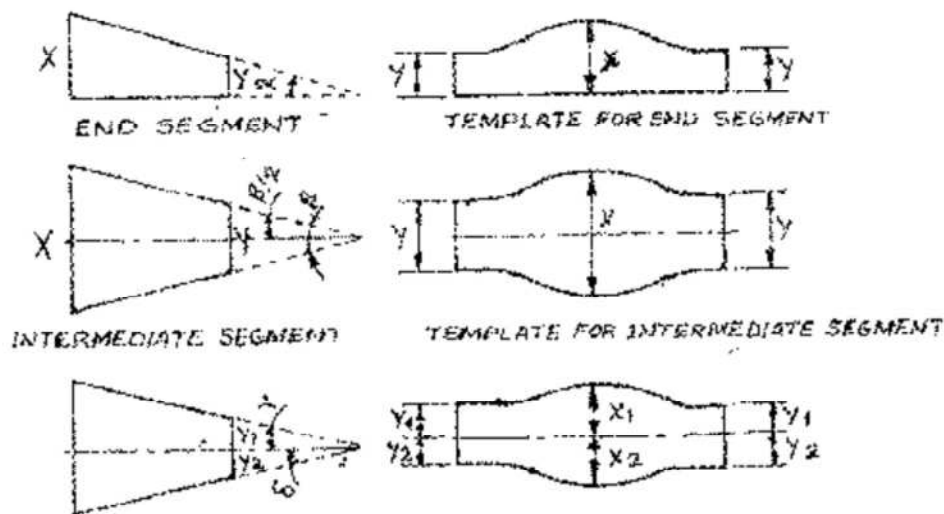


FIG - 4

$$\begin{aligned}
 & \{(R+OD/2) \tan \alpha\} - 1 \\
 &= \{2(R+OD/2) \tan \beta/2\} - 2 \\
 &= (R+OD/2) \tan \gamma + \tan \delta - 2 \\
 X &= x_1 + x_2 = \{(R+OD/2) \tan \gamma + (R+OD/2) \tan \delta\} - 2 \\
 Y &= \{(R-OD/2-2) \tan \alpha\} - 1 \\
 &= \{2(R-OD/2-2) \tan \beta/2\} - 2 \\
 &= \{(R-OD/2-2) \{\tan \gamma + \tan \delta\}\} - 2 \\
 Y &= Y_1 + Y_2 \\
 &= \{(R-OD/2-2) \tan \gamma + (R-OD/2-2) \tan \delta\} - 2
 \end{aligned}$$

The dimensions broadly shown are then transferred into a thin metal sheet of thickness <1 mm or sufficiently thick brown paper for making the working template.

They can be suitably identified by inscribing the angle, the radius of bend and the corresponding OD.

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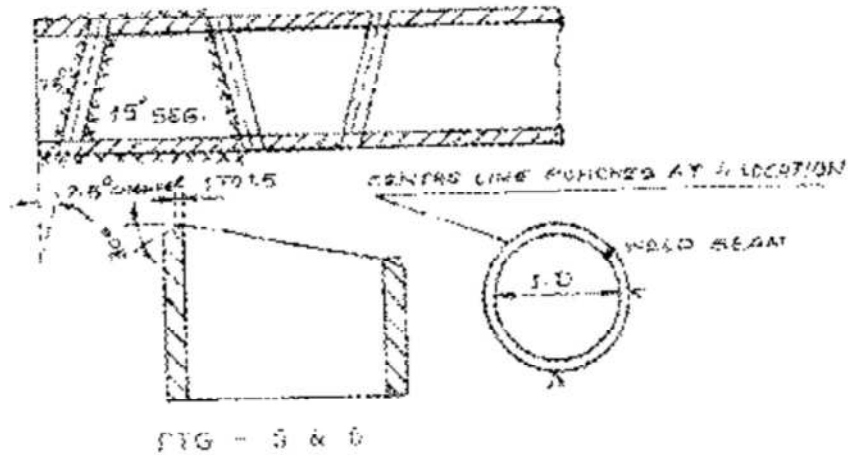
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c)

i CUTTING OF SEGMENT AND EDGE PREPARATION

The template cut to the desired dimensions is now wrapped around the pipe, care should be taken to align the pipe such that the Longitudinal seam location is not at any of the four location as shown in Fig. 5 and the segment boundaries are traced out with the help of a scribe and punch mark, made at regular intervals (about 1/2" to 1"). This line makes the nominal dimension desired. The template is now laterally shifted by 2mm and one more line is scribed parallel to the previous punchy marked line. This line is for gas cutting of segment and is shown in Fig. 6.

After cutting of the segments the edges are to be ground to the nominal dimensions as per the punch-marked nominal dimensions boundary line.

The segments so obtained are now to the nominal dimensions, a chamfer of 30° carefully given so that a land of 2mm is retained on the ground edge surface towards the interior of the pipe, under no circumstance one must grind off completely and then try to impart the land of 2mm. The same shall be checked with a gauge prior to welding.

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c)

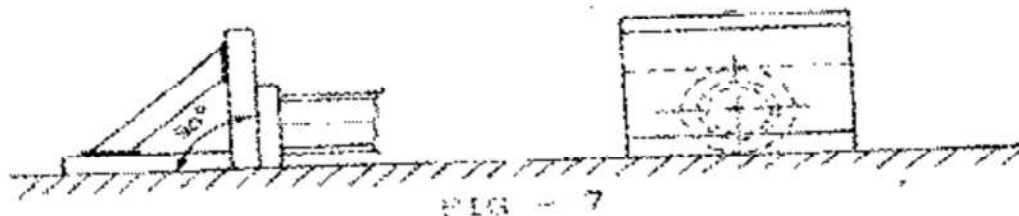
II. PROCEDURE FOR SEGMENT CUTTING OF ELBOW (REDUCER TYPE)

We have to calculate mean arc length which is $rs/180$. It is the length of reducer cylinder which requires OD1 (bigger dia) at one end and OD2 (smaller dia) at other end after rolling. Now marking should be done for 1st segment at 7.5° and similarly for 2nd, 3rd to 7th segment. The cutting, edge preparation and welding should be done as per normal procedure.

d) WELDING OF SEGMENTS/END RINGS

Welding in general shall be in accordance with welding Procedure E&D: 330 and D. P. Test on weld surfaces in accordance with E&D: 331 and the welding rods used shall be chosen only from the list of BHEL approved welding rod brands as specified in E&D 330.

Welding of segments to be carried out on a layout drawn on a levelled plate having an appropriate end fixture. The end fixtures shall be in the form of rugged square (or rectangular/ plates secured/welded rigidly) to form a right angle as shown in Fig. 7.



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On the outer side of the bend layout, suitable angle bars are welded at 90 to the levelled plate so that they form guides for proper positioning of the segments and also prevent distortion during welding of two segments.

To obtain a fully welded bend casings the following steps must be followed.

- Step 1 : Draw the appropriate layout as shown in the sheets from 11—14
- Step 2 : Align the end fixture at the two bends of the layout and position them rigidly
- Step 3 : Weld the two end segments onto the end rings taking care for concentricity of casing and end rings and for face perpendicularity, with respect to pipe axis.
- Step 4 : Now position these end segments integral with end rings on layout and clamp them by end rings to the end fixtures.
- Step 5 : Proceed with aligning other intermediate segments simultaneously from both ends to minimize errors in assembly and perform joint welding * (by tack or full welding as the case may be) .

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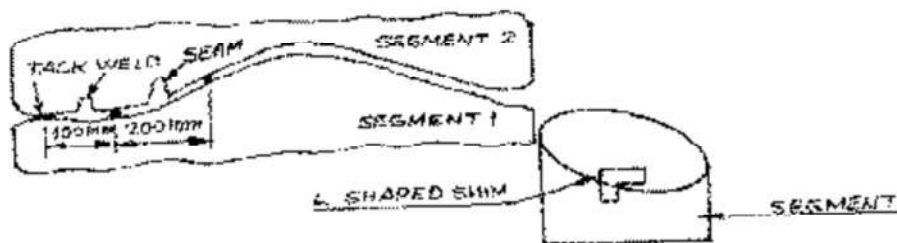


FIG - 8

NOTE :

- i. Follow sequential welding of segments when fully welded segments as desired.
- ii. For tack-welded segments the tacks to be given should not be more than 20 mm and spaced at 200 mm. And care should be taken not to tack weld at the marking of aligning center punch marks.
- iii. For tack welded segments suitable shims shall be placed to maintain the gap and configuration. as shown in Fig. 8
- iv. Suitable corrective measures in respect of fixture rigidity and welding process may be warranted from dimensional inspection on layout of the finished job after adequate ageing (i.e. one day) and the same shall accordingly be carried out by the fabricator so that post operational deviations in dimension are within the permissible limits (as per casing drawing) .

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5.0 LIST OF INSTRUMENTS:

LIST OF MEASURING INSTRUMENTS, GAUGES AND TEMPLATES REQUIRED FOR
MANUFACTURING AND INSPECTION OF CASINGS FOR (MITRED) PF BENDS

1.0 MEASURING INSTRUMENTS

- Spring divider and spring calipers
- Bar compass
- Measuring tapes (calibrated) 3—5 meters
- Measuring scales (metallic) up to 1 meter
- Vernier caliper to check ID/OD/Thickness of flanges
- Combination square set 1 no.

2.0 GAUGES

- To check chamfering and weld dimensions
- Angle templates
- Profile templates for checking ovality

3.0 OTHER AIDS

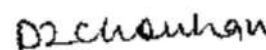
- Straight edge (up to 3 meters length) 1 no.
- Precision squares (1 meter height) 2 nos.
- Spirit level (600mm length vertical and horizontal) nos.
- Plumb line.
- Filler gauge

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7.0 INSPECTION PROCEDURE FOR PIPE CASING

1.0 Layout is drawn on the levelled plates as per nominal dimensions.

2.0 The pipe is suitably positioned on this layout by packing plates at the bottom such that the center line is maintained uniformly. Refer section 05 of E&D: 306 for inspection aids.

3.0 Bends, & Elbows.

The radial and axial shifts at both the pipe ends are measured and recorded. The out of squareness and inner diameter at both ends are also measured.

3.2 Straight pipes.

One end is matched squarely on the layout and measurement made at the other end.

4.0 Acceptance criteria:

Acceptance of bends and elbows with radial shifts, axial shifts and out of squareness will be in accordance with the norms given in the table or as per drawing requirements for the fully welded casings/ tack welded casings if specifically mentioned.

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TABLE

4.1 FOR FULLY WELDED CASINGS:

	Bends/Elbows	Straight pipe
1. Radial shift	± 5mm	Not applicable
2. Axial shift	5mm	Not applicable
3. Out of squareness		
FOR C & A TYPE *	2.0 mm	2.0 mm
FOR B TYPE*	3.0 mm	3.0 mm
4. Axis shift	Not applicable	± 2mm

4.2 FOR TACK/FULLY WELDED SEGMENTED CASINGS:

	Bends/Elbows	Straight pipe
1. Radial shift	±3mm	Not applicable
2. Axial shift	±5mm	Not applicable
3. Out of squareness		
FOR C & A TYPE *	1.5mm	1.5mm
FOR B TYPE*	2.0mm	2.0mm
4. Axis shift	Not applicable	± 2mm

* These 'Types' refer to the terminal end rings.

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WELDING & PAINTING PROCEDURE

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4.1 WELDING PROCEDURE:

4.1.1 The welding procedure outlined will be followed to ensure uniform and good quality welding.

4.1.2 The welding must be Arc / Flux cored after maintaining proper fit up.

4.1.3 The material specification of welding electrodes/Flux core wire to be as below:

A **Electrode: MS - E 6013**

Arc welding (2.5 mm , 3.15 mm or 4.0 mm):- make

Advani- Oerlikon: Overcords	D&H : Medio	Rockweld: V-117	I.O.L/ESAB: Vordian/Ferrospeed plus
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Electrode: SS - E 7018

Arc welding (2.5 mm , 3.15 mm or 4.0 mm) : - make

Advani-Oerlikon: Supercito	D & H : Supra Therme	ESAB: Ferro Weld-2 / ESAB 36 H
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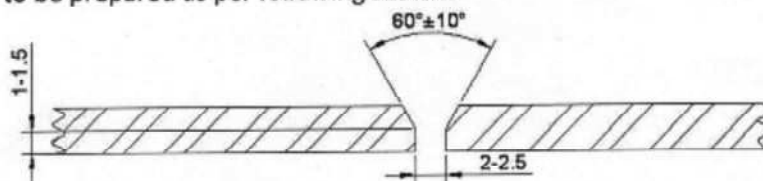
B **MIG WELDING:- (Flux core wire 1.6 mm or 1.8 mm)**

Solid wire core for MS -- ER 70S-6

For SS-- ER-308 L /ER309 L

Make- Ador /D&H/Esab/D&H Sechron/Cotmac

4.1.3 Edges to be prepared as per following sketch:



4.1.4 Root pass welding to be carried out by using 2.5 mm welding electrodes, further filling may be done either by 3.15 mm or 4.0 mm electrodes/Root pass welding to be carried out by 1.2 mm to 1.8 mm dia flux core wire, further filling by 1.2 mm to 1.8 mm flux core wire.

4.1.5 Ensure root weld is uniform and penetration is proper.

4.1.6 Between two passes, remove slag and clean weld surfaces.

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4.1.7 In case of undercut grind the weld surface smooth and fill up with 2.5 mm welding electrode/wire core.

4.1.8 Employ down hand method for welding.

4.2 CHECK POINTS:

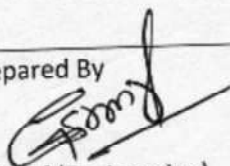
Audit checks are conducted for the quality of welding of every ceralin item. The Die Penetration test is to be carried as per E&D:331 after each root pass.

The visual examination of welding is to be carried out as per detail below:

1. The weld shall be free of cracks.
2. The face of weld shall be flush with the surface of base metal & weld shall merge smoothly with base metal. Undercut shall not exceed 1 mm & welding reinforcement shall not exceed 3 mm.
3. The root of weld shall be inspected & there shall be no evidence of cracks, incomplete fusion or inadequate joint penetration.
4. The weld shall be free from overlap.
5. The weld shall be free from accumulated slag the sum of the greatest dimensions of which shall not exceed 6 mm.
6. Grinding is not allowed on weld bead.
7. Grinding of all gas cut portion to be ensured (including lifting lug)

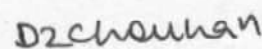
4.3 Welder Qualification: Welder qualification test to be done strictly for each welder as per AWS D-1.1 by a third party NABL accredited lab once in a year.

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WELDING & PAINTING PROCEDURE

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5. PAINTING PROCEDURE:

5.1. This procedure covers the requirements of primer and Final paint for M. S. Casing for in-land applications/costal region/export

5.2. This procedure specifies the painting requirements to provide adequate surface protection.

5.3. SPECIFICATION OF PRIMER/PAINT:-

Type of paint	Specification	Make
Alkyd Red Oxide Zinc Phosphate Primer	As per IS:12744 -DFT 30 Mic /coat	Berger ,Asian Paint , Dulux
General Purpose Aluminium Paint	As per IS:2339-DFT 30 mic/coat	Berger ,Asian Paint , Dulux
For costal region /Export / Special items ,paint type to be specified by the customer	As per specification provided by the customer	Berger ,Asian Paint , Dulux

SURFACE PREPARATION:-

5.3.1. Surface of component shall be thoroughly cleaned before the application of primer paint by either Power Tool cleaning (SSPC-SP3) or Abrasive Blast cleaning. The surface shall be free from dust, rust, weld, slag, spatters, oil, grease etc.

5.4. APPLICATION OF PAINT:-

5.4.1. Surface prepared as mentioned above shall be applied with one coat of Alkyd Red Oxide Zinc Phosphate primer (as per IS:12744) where no special primer is mentioned for M.S. Casing.

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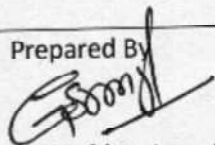
5.5. GENERAL:-

- 5.5.1. Paint make Berger /Dulux / Asian shall be used as supplied by the supplier without any addition of thinner.
- 5.5.2. Primer shall be thoroughly stirred before application. Primer can either be applied on surface by brushing or spraying using compressed air uniformly. The thickness of the primer shall not be less than 30 microns/coat (where no other specifications are mentioned).
- 5.5.3. Adequate drying time is to be allowed after each coat before next coat of paint.
- 5.5.4. No painting is required in case of Stainless Steel components, unless otherwise specified.
- 5.5.5. For all machined components, rust preventive fluids shall be used (where no other specifications are mentioned).
- 5.5.6. Rusting of received material at BHEL IP will be treated as use of poor paint / process and the same will be out rightly rejected or repainting will be done on the risk and cost of supplier on the discretion of BHEL.

5.6. Inspection:-

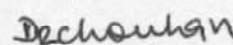
- 5.6.1. Surface preparation, primer coating shall be checked at appropriate stages by executing agency before proceeding to next operation.

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DYE PENETRATION TEST PROCEDURE

1.0 Scope:

This procedure shall be used for colour contrast (visible dye) method of liquid penetrant examination of materials for detecting discontinuities in welded joints of MS casings/ rings/ Cones.

2.0 METHOD AND MATERIALS:

A visible dye penetrant which can be easily seen in natural light or in artificial light shall be used (Solvent removable penetrant and Non Aqueous suspended type developer) •

3.0 SURFACE PREPARATION:

3.1 In general, satisfactory results may be obtained in the as welded, as forged, as cast and as rolled condition. Machining and grinding may be required when surface irregularities would otherwise mask the indications of unacceptable discontinuities.

3.2 Prior to penetrant examination the surface shall be carefully examined. Surface shall be free from dirt, grease, lint, scale, welding flux, spatters or any extraneous matter which may be tend to cover. Surface openings or otherwise interfere with proper evaluation of test result.

3.2.1 Adjacent areas to a minimum length of 25mm on either side of the weld shall be prepared as specified in 3.2.

3.2.2 Surfaces shall be thoroughly cleaned using acetone before applying penetrant.

3.2.3 Surface shall be dried at least 3 minutes prior to Application of Penetrant.

4.0 PENETRATION APPLICATION

4.1 The penetrant shall be applied by dipping, brushing or spraying. If the penetrant is applied by spraying, using compressed air, type apparatus, a filter shall be placed at the air inlet to preclude contamination of penetrant by oil, water or dirt that might have collected in the air lines.

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DYE PENETRATION TEST PROCEDURE

- 4.2 The temperature of the penetrant and the surface of the part to be processed shall not be below 16°C nor above 52°C throughout the examination period.
- 4.3 Minimum penetration time shall be 15 minutes.

5.0 EXCESS PENETRANT REMOVAL:

- 5.1 After the penetrant time specified above in column 4.3 has elapsed any penetrant remaining on the surface shall be removed, taking care to minimize removal of penetrant from the discontinuities.
- 5.2 Penetrant shall be removed by wiping with a clean lint free dry cloth. The operation should be repeated until most traces of penetrants are removed. A clean dry cloth moist with solvent (cleaner) shall then be used to wipe the surface lightly. Extreme care shall be taken to prevent over cleaning as over cleaning can and does remove penetrant from discontinuities. Under no circumstances cotton waste shall be used for removing penetrant.

6.0 DEVELOPER APPLICATION:

- 6.1 After cleaning, developer shall be applied by spraying, prior to applying the developer it must be thoroughly agitated to ensure adequate dispersion of the suspended particles. A uniform thin coating of developer must be applied. Conversely avoid the formation of parts of developer in the cavities since heavy coatings may mask indication.
- 6.2 Allow 5 minutes for the developer to dry before the start of inspection and a maximum of 30 minutes to complete the interpretation of results of the examination.

7.0 EVALUATION OF INDICATION:

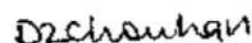
- 7.1 Discontinuities open to the surface will be indicated by the bleeding out of the penetrant. Localized surface imperfection which occur from machining marks, or surface irregularities shall be ignored as non relevant indication.
- 7.1.1 Non---relevant indication and broad areas of pigmentation, which would mask indication of defects, shall be reprocessed and retested.
- 7.2 Relevant indications are those, which result from discontinuities open to surfaces. Linear indications are those indications in which the length is more than three times the width. Rounded indications are circular or elliptical with length lesser than three times the width.

Prepared By



Functional Chief (Engineering)

Approved By



HOD (Engineering)

BIHARAT HEAVY ELECTRICALS LIMITED FSIP, JAGDISHPUR DYE PENETRATION TEST PROCEDURE	Document No. : E&D: 331 Section No. : 04 Section Rev. No.: 00 Date of Rev. : 04.07.19 Page : 3 of 3
--	---

8.0 ACCEPTANCE CRITERIA:

No cracks are permitted on any surface.

8.1 WELDS :

8.1.1 The following indications are not acceptable:

- a) Only indications with major dimensions greater than 1.6mm shall be considered as relevant.
- b) Unless otherwise specified the following relevant indications are unacceptable:
 1. Any cracks or linear indications.
 2. Rounded indications with dimensions greater than 4.8mm.
 3. Four or more rounded indications in a line separated by 1.6mm or less edge to edge.
 4. Ten or more rounded indications in any 3870 Sq. mm (6 Sq. in) of surface with the major dimension of this area not to exceed 152 Sq. mm with the area taken in the most unfavourable location relative to the indications being evaluated.

9.0 POST EXAMINATION CLEANING:

- 9.1 As soon as practical, after completion of the penetrant examination the completed parts shall be cleaned to remove residual penetrants materials.

Prepared By  Functional Chief (Engineering)	Approved By  HOD (Engineering)
--	---

REFERENCE QUALITY PLAN

MANUFACTURER'S NAME AND ADDRESS: AS PER PO/RC				ITEM /EQUIPMENT: METAL PART (CASING) FOR CERAMIC LINED ITEMS				SIGN. OF MFG				PAGE: 1 OF 2		TO BE FILLED IN BY BHEL	
ROP NO.: CER/2023-2400 REV. NO.: 00 DATE: 08.02.2024				SIGN. OF MFG				SIGN. OF MFG				SIGN. OF MFG		SIGN. OF MFG	
SL. NO	COMPONENT	CHARACTERISTICS & OPERATIONS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT#	ACCEPTANCE NORMS	FORMAT OF RECORD	REMARKS	REVIEWED BY:	APPROVED BY:				
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.					
1.0	Steel Plates for Casing & Rings	a) Chemical Composition b) Mechanical Properties	Maj.	Chemical Mechanical	1 sample/ lot -do-	As per drawing As per drawing	As per drawing As per drawing	MTC / Test Report MTC / Test Report	P P	V V	Correlated test certificate and inspection reports to be maintained by Vendor. Mechanical test shall be witnessed by BHEL in case material purchased & used without correlated MTC.				
2.0	Fabricated Casing	a) Suitability of welding procedure Specification (WPS) b) Capability of welder in adopting welding procedure	Maj.	Procedure qualification test Procedure qualification test	Once Periodically once in one year for each welder	E&D:330 Section 04 E&D:330 Section 04	E&D:330 Section 04 E&D:330 Section 04	Welding procedure & Qualification record Qualification certificate	P P	W W	Qualification test of welder done at BHEL's/ Vendor's work may be witnessed by BHEL. Records shall be maintained.				

LEGEND:

M: MANUFACTURER C: BHEL, P: PERFORM W: WITNESS AND V: VERIFICATION (AS APPROPRIATE) CHIP: BHEL SHALL IDENTIFY IN COLUMN "C" AS "W".

Note: # BHEL Inspection Engineer to check, approval date/ revision no. of reference documents at the time of Inspection

MANUFACTURER'S NAME AND ADDRESS: AS PER PO/RC		REFERENCE QUALITY PLAN				TO BE FILLED IN BY BHEL	
ITEM/EQUIPMENT : METAL PART (CASING) FOR CERALIN LINED ITEMS		SIGN. OF MFR		PAGE: 2 OF 2		REVIEWED BY: APPROVED BY:	
RQP NO.: CER/2023-2400 REV. NO.: 00 DATE: 08.02.2024		REFERENCE DOCUMENT#		FORMAT OF RECORD		REMARKS	
S/L NO	COMPONENT	CHARACTERISTICS & OPERATIONS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	ACCEPTANCE NORMS	REMARKS
					M	C	
1.		3.	4.	5.	6.	7.	8.
2.0	Fabricated Casing (Cont.)	c) Welding i) Fit up ii) Root run d) Liquid penetrant inspection for weld joints i) Butt Joint ii) Fillet Joint e) Welding Quality & Finished f) Dimension g) Painting	Maj. Maj. Maj. Maj. Maj. Maj.	Visual Visual NDT Visual Physical Physical	100% 100% 100% 10% 100% 100% 100%	Drawing Drawing E&D:331 Section 04 E&D:330 Section 04 Drawing E&D:330 Section 05 As Above QR/23-24 Rev 00	Inspection Report QAC 4301 & 4302 Inspection Report Inspection Report Inspection Report QAC 4306 Inspection Report QAC 4307 As Above P- BHEL shall verify the record at sub-contractor works and carryout the check on min 10% of samples selected at random for the test. If any sample fails, 100% of the lot shall be checked. The evaluation of LPI of welded joints is to be carried out by persons having min ASNT Level-II Qualification. Welder's identification shall be recorded. BHEL inspector may seek records for compliance of its quality requirement document.
3.0	Documentation	Review & Record of Inspection Reports	Maj.	Review of document	100%	As Above	As Above
4.0	Quality Requirement	Complete quality requirement	Maj.	Review of document	100%	As Above	As Above

LEGEND:
M: MANUFACTURER C: BHEL, F: PERFORM W: WITNESS AND V: VERIFICATION (AS APPROPRIATE) CHIP: BHEL SHALL IDENTIFY IN COLUMN "C" AS "W".

Note: # BHEL Inspection Engineer to check, approval date/revision no. of reference documents at the time of Inspection

QUALITY REQUIREMENTS

Following quality requirement is for the suppliers of M.S. or S.S Casings of BHEL FSIP, Jagdishpur. Each supplier participating in Rate Contract shall go through the Terms & Condition of this document thoroughly and participate in RC as per their facilities and 'Process Maturity' in line with this document. Supplier may has to submit documentary proof/present physically of all requirements as and when required by BHEL.

A. RAW Material

1. M.S. or S.S. Sheet:-

- As per BHEL Drawing
- Receipt and Issue of material used for BHEL supply shall be maintained as per enclosed Annex-A
- Correlated test certificate of material will be required along with each dispatch of M.S. /S.S Casing.

2. Welding Electrode:-

- As per latest revision of document no. E&D 330 section 04
- Photocopy of invoices of procurement of welding rod/flux core wire may be asked by BHEL against its PO to ensure type/make & quality of electrode used.

3. Paint:-

- As per latest revision of document no. E&D 330 section 05.
- Any other painting requirement will be indicated in drawing /painting scheme. It will be provided by BHEL separately with PO.
- Photocopy of invoices of procurement of paint may be asked by BHEL against their PO to ensure quality & make of paint used.

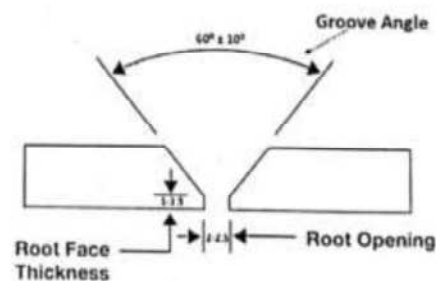
B. Fabrication/In-Process

1. Fabrication of M.S.Casing:

- As per BHEL document E&D 306 (Latest revision) and BHEL Drawing.
- Proper fit-up is to be maintained as below.

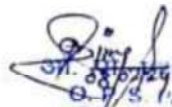
2. Fabrication of S.S.Casing:

- As per drawing.



3. Welder Qualification:

- Once in every Year for each welder to be done strictly as per AWS D-1.1 by a third party NABL Accredited Lab. On lack of valid welder qualification certificate Casing manufacturing may be hold by BHEL until submission of the same. BHEL may witness welder qualification.


G. S. PATEL
 अभियंता (गुणवत्ता)
 Engineer (Quality)
 BHEL FSIP, Jagdishpur, Amritsar (U.P.) 227017

Page 1 of 4


Amit Kumar Varma
 अभियंता (गुणवत्ता)
 Engineer (Quality)
 BHEL FSIP, Jagdishpur, Amritsar (U.P.) 227017

4. Welding/Hard facing: (Strictly as per E&D 330)

- Proper Penetration Required
- No Grinding on Weld bead allowed
- Grinding of all gas cut portion to be ensured (including lifting lug)

5. Machining:

- Surface roughness of 6.3 micron or as specified in drawing to be achieved at complete machining portion.
- Grinding/welding is strictly prohibited on machined portion.

6. Painting: As per BHEL document E&D 330 (Latest revision) & BHEL Drawing

- Power Tool cleaning (SSPC-SP3) or Abrasive Blast cleaning for removal of dust, rust, weld, slag, spatters, oil, grease etc. before painting is must.
- No thinner to be added in paint.
- Rusting of received material at BHEL FSIP will be treated as use of poor paint/process and the same will be out rightly rejected or Repainting will be done on the risk and Cost of supplier on the discretion of BHEL.
- Any other painting requirement will be indicated in drawing / painting scheme. It will be provided by BHEL separately.

C. Instruments for Inspection

1. Duly spirit leveled surface plate
2. One meter Right Angle (Tri square)
3. 01 meter height gauge
4. 02 nos. Vernier Caliper, Range (0-1000 mm & 0-300 mm)
5. 02 nos. Measuring Tape, Range (0-3000mm & 0-5000mm)
6. Ultrasonic wall thickness gauge (i.e. D' meter)
7. Digital Coating thickness gauge for checking thickness of paint
8. Feeler gauge, spirit level, 01 meter scale, Plumb Bob
9. Proper Materials Handling / movement, instrument like as overhead crane/ Hydra etc.
10. Digital Surface roughness gauge for checking the roughness of machined parts.
11. Hardness tester for checking the hardness of hard facing
12. Any kind of other instrument as per requirement of BHEL shall be arranged by the supplier

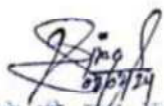
All above Instrument's Calibration should be traceable to NABL/BHEL approved Lab. BHEL reserves the right to stop inspection in case of unavailability of above instruments.


ओ. पी. एस. पटेल
O. P. S. PATEL
 अभियन्ता (गुणता) (Engr. (Quality))
 BHEL FSIP Jagt Singh, Amritsar (U.P.) 227017


अमित कुमार वर्मा
Amit Kumar Verma
 और प्रबंधक (गुणता एवं क्वालिटी)
 Sr. Manager (Quality & DE)
 BHEL FSIP Jagt Singh, Amritsar (U.P.) 227017

D. BHEL Inspection/Audit

1. Inspection call shall be raised by the vendor at least 2-3 days in advance by email to BHEL QC with a copy to MM having specific call number & details of items offered for inspection i.e. name of item as per PO, drawings number, variant number, stage of inspection, PO number, quantity offered, proposed date of inspection etc.
2. Call will be raised along with its dimension report actually measured and fill by vendor's QC/production at the required format of inspection. Each inspection call will have following disclaimer in the email:
"Material is ready for inspection as per above schedule. However, only positive variation in Quantity may be there. All the calibrated Measuring instruments are available with us for the above inspection. We have ensured that casing is fabricated as per BHEL specifications. [i.e. material conforms IS: 2062 Grade a (Latest Revision)/confirms of S.S. materials, according to drawing (Latest Revision). Fabrication is done strictly as per E&D 306 and welding is carried out as per E&D 330]. The above lot offered to you is already checked at our end and found acceptable."
3. No items shall be dispatched without clearance by BHEL.
4. BHEL Authorized representative/ Inspectors will have right of inspection/Audit/Photography of BHEL product at any supplier's premises without prior notice. Documentary evidence of compliance of above quality requirement shall be maintained by vendor and may be verified by BHEL.
5. In case of violation of quality requirements, BHEL Reserves the right to out rightly reject/ Hold for Rectification/Rectify at risk and cost of Supplier. BHEL also reserves the right to cancel the Purchase order or perform Risk Purchase.
6. PDI/inspection done by BHEL at vendors does not absolve vendor of their responsibility to supply a quality product as per specification/drawings etc. Vendor has to rectify / replace the casing if the casing is not manufactured as per drawing & discrepancy observed later after receipt at BHEL's work or at BHEL's customer site.


 ओ. पी. एस. पटेल
 O. P. S. PATEL
 अभियंता (गुणवत्ता)
 Engineer (Quality)
 2025/23-24 Rev. 00 (Page 3 of 4)
 1535982/2025/FSIP-IPMFM113


 अमित कुमार वर्मा
 Amit Kumar Verna
 वरिष्ठ प्रबंधक (गुणवत्ता एवं बी.ई.)
 Sr. Manager (Quality & BE)
 2025/23-24 Rev. 00 (Page 3 of 4)
 BHEL-FSIP Jagdishpur, Amritsar (U.P.)-227617

Vendor Name and address

Ref No.....

Date: _/ _/ _

M/s. BIHARAT HEAVY ELECTRICALS LIMITED
FABRICATION, STAMPING & INSULATOR PLANT
JAGDISHPUR INDUSTRIAL AREA, DISTT. AMETHI U.P.227817

Kind Attention-

Invoice No. -

Invoice Date -

Sub: Material used against BHEL Purchase Order No. Dated.....


Dear Sir,

With reference to above order, we are submitting our material test certificate for following material used in manufacturing of M.S. /S.S. casing.

Sl. No.	Plate Thickness	Test Certificate No.	Opening Balance	Material Consumption	Closing Balance

Authorized Signatory


आ. पी. एस. पटेल
O. P. S. PATEL
अभियन्ता (गुणता एवं बी.ए.)
Engineer (Quality & BE)
पंजीकृत अभियन्ता (गुणता एवं बी.ए.) (महाराष्ट्र)
पंजीकृत अभियन्ता (गुणता एवं बी.ए.) (महाराष्ट्र)
BHEL-FSIP Jagdishpur, Amethi (U.P.)-227817


अमित कुमार वर्मा
Amit Kumar Verma
वरिष्ठ प्रबंधक (गुणता एवं बी.ए.)
Sr. Manager (Quality & BE)
पंजीकृत अभियन्ता (गुणता एवं बी.ए.) (महाराष्ट्र)
BHEL-FSIP Jagdishpur, Amethi (U.P.)-227817



FSIP-JAGDISHPUR

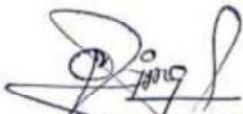
CLEARANCE MEMO

Format No. QAC: 4305

The Following items have been inspected at the works of M/s
against P.O. No. Dated
 and with reference of drawing No.....Rev. No.
 and are cleared for dispatch to BHEL subjected to remarks given below.

Sl. No.	ITEMS DESCRIPTION	IDENTIFICATION NO.	QUANTITY (NOS.)

Remarks :


 ओ. पी. एस. पटेल
 O. P. S. PATEL

(QC Inspector)

अभियन्ता (गुणित्व)
 Engineer (Quality)

पञ्जाब प्रान्त, भारत (U.P.) 227017
 P. O. Jagdishpur, Amritsar (U.P.) 227017



INSPECTION REPORT OF CASING FOR P.F. BEND/FIE/MOE

FSIP-JAGDISHPUR

Format No. : QAC: 4301

Supplier Name:

DRAWING NO.:
P.O. No. & DT.

Item Name:

DATE OF INSPECTION:

DATE OF INSPECTION:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
ANGLE	BEND NO.	I.D.		O.D.		AXIAL SHIFT		RADIAL SHIFT														OUT OF SQUARENESS				DP TEST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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Dimension of Segment and bend			Type of Flange	
As per drawing	Actual		AHS	TES
X				
Y				
OAL				
IAL				
C1				
C2				
C3				

Radius :

VAR No./Style No./Item No.


Welding of Flange:

Pattern No.:
Plate Thickness :
Welder Name :

Inspected By :

Approved By:

Inspection Remarks by BHEL Representative :


 ઓ. પી. એસ. પટેલ
 O. P. S. PATEL
 અધિકારી (ગુણવત્તા)
 Engineer (Quality)
 1535982/2025/FSIP-IPMFM113 (Date) 22/03/25
 1535982/2025/FSIP-IPMFM113 (Date) 22/03/25



FSIP-JAGDISHPUR

INSPECTION REPORT OF M.S./S.S.CASING
CERALIN EXCEPT PF BEND/FIE/MOE

FORMAT NO. QAC: 4302

SUPPLIER :





P.O. NO. :

ITEM :

DRAWING NO. :

W.O. No.:

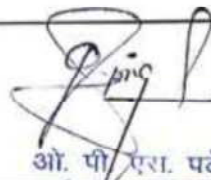
DATE OF INSPECTION:

Sl. No.	CHARACTERISTIC	RANGE	OBSERVATION				
			1	2	3	4	5
1	Flatness 						
2	Parrelelism 						
3	Perpendicularity 						
4	Cocentricity 						

INSPECTED BY:

REVIEWED BY:

INSPECTION REMARK BY BHEL REPRESENTATIVE



ओ. पी. एस. पटेल

G. M. S. PATEL
 अभियन्ता (जातिदी)
 Engineer (Quality)

Date: 21/10/2025 - 11:29 AM (Page 2/2)
 FSIP-Jagdishpur, Arantha (R.P.) 222012



FSIP-JAGDISHPUR

CHECK SHEET FOR FINAL INSPECTION OF CASING FOR PF BEND/FIE/MOE

Format No: QAC- 4306

ITEM :

P.O. NO.:

P.O. DATE:

DRAWING NO.:

DATE OF INSPECTION:

SUPPLIER:

Sl. No.	Pattern No.	Angle (°)	C2	OAL	IAL	Flange O.D.		Flange I.D.		Flange Type & Welding		Paint DFT in Micron	Lug Position
						AHS	TES	AHS	TES	AHS	TES		
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													


Inspected By:

Reviewed By:


ओ. पी. एस. पटेल
 O. P. S. PATEL
 Engineer (Quality)

Remarks given by BHEL Representative

21/10/2025 12:29 pm
 1535982/2025/FSIP-IPMFM113

 FSIP JAGDISHPUR		BHARAT HEAVY ELECTRICALS LIMITED FSIP JAGDISHPUR AMETHI (UP) PAINTING CERTIFICATE		FORMAT NO. QAC 4307	
REPORT NO. & DATE SUPPLIER ITEMS/PRODUCT PROJECT/CUSTOMER ITEMS/JOB SL NO. DATE OF INSPECTION PAINTING REFERENCE NO.					
PO NO. & DATE DRAWING NOS. QUANTITY					
IN PROCESS CHECKPOINT					
SURFACE PREPARATION					
DATE OF SURFACE PREPARATION		*SHOT BLASTING/GRINDING/ CHEMICAL CLEANING		REMARKS	
				SIGN	
*WHICHEVER IS APPLICABLE ?					
PAINTING					
PARAMETER	PRIMER	TIE COAT	FINAL COAT	REMARKS IF ANY	
PAINT SPECIFICATION					
BRAND NAME/SUPPLIER					
BATCH NO.					
DATE OF MANUFACTURING					
DATE OF EXPIRY					
PAINTING PROCESS					
NO. OF COATS					
DRYING TIME & DATE					
DRY FILM THICKNESS IN MICRON	MIN MAX	MIN MAX	MIN MAX	TOTAL DFT =	
ADHESION TEST					
INSPECTED BY					
REVIEWED BY					


ओ. पी. एस. पटेल
O. P. S. PATEL
 अभियन्ता (गुणवत्ता)
 Engineer (Quality)
 2042264/एचएसएचएमटीएल (एचएसएचएमटीएल) 202317
 19-HELEP-SIP Jagdishpur, Amethi (U.P.) 227017

	BHARAT HEAVY ELECTRICALS LIMITED FSIP, JAGDISHPUR, AMETHI UP, 227817	FORMAT NO. QAC: 4308
		Report No.- NDT/LPI/FY / Date-
<u>Report for Dye-Penetrant Examination</u>		
<u>1:- General Detail</u>		
Job/Component-	Project.-	
Job ID.-	Qty.-	
P.O. No/Date.-	W.O.No.-	
Drg.No./Rev.-	Test spec.-	
Material-	Extent of Test-	
<u>2:-Details of Examination</u>		
Procedure No.- E&D331	Method- As per Procedure	
Make of Penetrant:	Manufacturing Date:	
Batch No.:	Expiry Date:	
Make of Developer:	Manufacturing Date:	
Batch No.:	Expiry Date:	
Make of Cleaner:	Manufacturing Date:	
Batch No.:	Expiry Date:	
Surface Condition:	Temperature of Part:	
Dwell Time:		
<u>3:- Examination Result: -</u>		
<u>Inspected By</u>	<u>Approved By</u>	<u>Witnessed By</u>



ओ. पी. पटेल
O. P. PATEL
 अभियन्ता (मालिकी)
 Engineer (Quality)

1 | Page



भारत हेवी इलेक्ट्रिकल्स लिमिटेड
Bharat Heavy Electricals Limited
फैब्रिकेशन, स्टैम्पिंग ऐन्ड इंसुलेटर प्लांट, जगदीशपुर
Fabrication, Stamping & Insulator Plant (FSIP), Jagdishpur

MARKING ON CERALIN CASINGS		REF NO : CER : SPEC : 03 REV : 00 DATE : 27.07.2022 PAGE : 1 OF 1
<p>1. SCOPE: Providing BHEL FSIP Marking on Ceralin Casing except Orifice</p> <p>2. METHOD : By weld deposits of height 5 mm</p> <p>3. NOMENCLATURE</p> <p style="text-align: center;">"BHEL-FSIP-XXXXX"</p> <p>XXXXX- Identification No. to be provided by PPC/MM</p>		
PREPARED BY: Gaurav Pandey Sr. Engineer/Engineering	CHECKED BY: Ghan Shyam Sr. Manager/Engineering	APPROVED BY: D.R. Chouhan Sr. DGM/Engineering & Technology

	CORPORATE PURCHASING SPECIFICATION	AA55154 Rev No. 03 PAGE 1 of 3																		
RUST PREVENTIVE HARD FILM, BLACK (TRP)																				
<p>1 GENERAL</p> <p>This specification governs the quality requirements of temporary rust preventive (TRP), coating a hard film on drying. The material consists of film forming ingredients dissolved in solvents to give a low viscous liquid at room temperature. On evaluation of solvents, a thin though abrasion resistant film capable of being handled without damage shall be obtained.</p> <p>Normally this material gives protection upto six months and thereafter requires inspection and reapplication, if necessary.</p> <p>2 APPLICATION</p> <p>Depending upon components and their sizes, the rust preventive can be applied by brush, dip or spray. Two liberal coats are desirable for adequate protection. The surface to be coated with anti-rust solution should be absolutely clean and free from rust.</p> <p>3 REMOVAL</p> <p>This TRP can be removed by cotton cloth soaked in white spirit to BHEL specification AA56701.</p> <p>4 COLOUR</p> <p>Steel Black</p> <p>5 COMPLIANCE WITH NATIONAL STANDARDS</p> <p>The material shall comply with the requirements of the following national standards and meet the requirements of this specification.</p> <p>IS: 1153 - 2000: Temporary Corrosion Preventive, Fluid, Hard Film, Solvent deposited</p> <p>6 COMPOSITION</p> <p>The composition shall be based on asphalt, mineral oil and inhibitive pigments with suitable additives.</p> <p>7 TEST SAMPLES</p> <p>Half a litre of sample shall be taken for testing and approval.</p> <p>8 PROPERTIES</p> <p>When tested in accordance with the relevant clauses of BHEL standard AA0850001, the test sample shall show the following properties:</p> <p>8.1 Consistency</p> <p>90 ± 10 seconds in Ford Cup No.4 at 27± 0.5°C</p> <p>8.2 Drying Time</p> <p>Tack free : Within one hour</p> <p>Hard dry : 16 hours</p>																				
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="3" style="padding: 5px;"> Revisions: </td> <td colspan="3" style="text-align: center; padding: 5px;"> APPROVED: INTERPLANT MATERIAL RATIONALISATION COMMITTEE – MRC(CPO+NM) </td> </tr> <tr> <td style="width: 20%; padding: 5px;">Rev No.03</td> <td style="width: 20%; padding: 5px;">Amd No.</td> <td style="width: 20%; padding: 5px;">Reaffirmed</td> <td style="width: 20%; padding: 5px;">Prepared</td> <td style="width: 20%; padding: 5px;">Issued</td> <td style="width: 20%; padding: 5px;">Dt. of 1st Issue</td> </tr> <tr> <td style="padding: 5px;">Dt:26-05-2012</td> <td style="padding: 5px;">Dt:</td> <td style="padding: 5px;">Year:2019</td> <td style="padding: 5px;">HEP, Bhopal</td> <td style="padding: 5px;">Corp.R&D</td> <td style="padding: 5px;">01-11-1982</td> </tr> </table>			Revisions:			APPROVED: INTERPLANT MATERIAL RATIONALISATION COMMITTEE – MRC(CPO+NM)			Rev No.03	Amd No.	Reaffirmed	Prepared	Issued	Dt. of 1 st Issue	Dt:26-05-2012	Dt:	Year:2019	HEP, Bhopal	Corp.R&D	01-11-1982
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8.3 Flash Point

32°C, min.

8.4 Weight

11 ± 0.5 kg per 10 litres

8.5 Non-volatile Matter

58 ± 2% by mass

8.6 Test for Adhesion

To pass the test

8.7 Spreading Capacity

8.0 sq.meter/litre, minimum

8.8 Protection against corrosion at high temperature and humidity

To pass the test for 360 hours, minimum.

9 TYPE TESTS

Whenever specified, the following tests shall be carried out, as per the methods mentioned against each.

i) Protection against corrosion under conditions of condensation (IS: 101 Part 6/Sec 1)

No sign of corrosion on the surface after 21 days of exposure.

10 TEST CERTIFICATES

Three copies of test certificates shall be supplied along with each consignment, giving the following information:

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

- AA55154, Rev. 03: RUST PREVENTIVE HARD FILM, BLACK (TRP)
- BHEL Order No.
- Batch / Lot No.
- Supplier's/ Manufacturer's Name and Trade mark, if any
- Date of manufacture and expiry
- Test results of clause 8 and 9.

11 KEEPING PROPERTY

When stored in a covered dry place in the original sealed containers under normal temperature conditions, the material shall retain the properties prescribed in this specification for a period of not less than 12 months after the date of manufacture which shall be subsequent to the date of placing the order.



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12 PACKING & MARKING

Unless otherwise specified, the material shall be supplied in 4 kg steel containers, which shall be leak free, dry and clean.

Each container shall be marked with the following information:

- AA55154: RUST PREVENTIVE HARD FILM, BLACK (TRP)
- BHEL Order No.
- Supplier's / Manufacturer's Name and Trade mark, if any
- Batch No. / Lot No.
- Date of manufacture and expiry
- Quantity supplied

13 ENVIRONMENTAL REQUIREMENTS

The supplier shall furnish Material Safety Data Sheet (MSDS) covering all information relating to human safety and environmental impacts of the hazardous materials particularly during their transportation, storage, handling and disposal along with each supply.

Each container shall be marked with corresponding symbol and minimum worded cautionary notice for flammable / corrosive / toxic / harmful / irritant and oxidizing etc. as applicable.

14 REFERRED STANDARDS (Latest Publications Including Amendments)

- 1) AA0850001
- 2) AA56701
- 3) IS: 101, Part 6, sec 1

Monthly Manufacturing Capacity Declaration
(To be declared on Bidder's company letter head)

TE No. _____

Date: _____

Sl No	Item	Tender Qty (MT)	Required minimum monthly capacity (in MT)	Bidder's Monthly Capacity (in MT)
1	Casing for Cone	85	3.6	
2	Casing for MPO	87	3.7	
3	Casing for Orifice	39	2	
4	Casing for MDV/ Valve Body	130	5.5	

Note:- Vendor shall intimate only such capacity that can be provided to BHELFSIP Jagdishpur for orders against this and not their total capacity to supply per month. Capacity implies vendor's ability to supply such quantities of items meeting the quality requirements and delivery schedules.

(Seal and Sign of Bidder)

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 _____

TE-180 (Entering into Rate contract for M.S. carriage for MPO, MDV, offices & inner cone) valid for two years (hereinafter referred to as "Contract"). The Principal values full compliance with all relevant laws of the land, rules and regulations, and the principles of economic use of resources, and of fairness and transparency in its relations with its Bidder(s)/ Contractor(s).

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

Section 1- Commitments of the Principal

- 1.1 The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles: -
 - 1.1.1 No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
 - 1.1.2 The Principal will, during the tender process treat all Bidder(s) with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential/ additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.
 - 1.1.3 The Principal will exclude from the process all known prejudiced persons.
- 1.2 If the Principal obtains information on the conduct of any of its employees which is a penal offence under the Indian Penal Code 1860 and Prevention of Corruption Act 1988 or any other statutory penal enactment, or if there be a substantive suspicion in this regard, the Principal will inform its Vigilance Office and in addition can initiate disciplinary actions.

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

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

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- 2.1.1 The Bidder(s)/ Contractor(s) will not, directly or through any other person or firm, offer, promise or give to the Principal or to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material, immaterial or any other benefit which he/ she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.
- 2.1.2 The Bidder(s)/ Contractor(s) will not enter with other Bidder(s) into any illegal or undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.
- 2.1.3 The Bidder(s)/ Contractor(s) will not commit any penal offence under the relevant Indian Penal Code (IPC) and Prevention of Corruption Act; further the Bidder(s)/ Contractor(s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
- 2.1.4 Foreign Bidder(s)/ Contractor(s) shall disclose the name and address of agents and representatives in India and Indian Bidder(s)/ Contractor(s) to disclose their foreign principals or associates. The Bidder(s)/ Contractor(s) will, when presenting his bid, disclose any and all payments he has made, and is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.
- 2.2 The Bidder(s)/ Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
- 2.3 The Bidder(s)/ Contractor(s) shall not approach the Courts while representing the matters to IEMs and shall await their decision in the matter.

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

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

Section 4 - Compensation for Damages

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

Section 5 - Previous Transgression

- 5.1 The Bidder declares that no previous transgressions occurred in the last 3 (three) years (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 Suspension 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.

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- 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 Indian Penal Code / Prevention of Corruption Act, and the CMD, BHEL has not, within reasonable time, taken visible action to proceed against such offence or reported it to the Vigilance Office, the IEMs may also transmit this information directly to the Central Vigilance Commissioner, Government of India.
- 8.11 After award of work, the IEMs shall look into any issue relating to execution of Contract, if specifically raised before them. As an illustrative example, if a Contractor who has been awarded the Contract, during the execution of Contract, raises issue of delayed payment etc. before the IEMs, the same shall be examined by the panel of IEMs.
- 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.

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- 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 per the terms & conditions of the Contract.

For & On behalf of the Principal
(Office Seal)

Place BHEL, Jagdishpur

Date 19/11/25

Witness: [Signature]

(Name & Address) DHEERAJ KUMAR
BHEL ESIP Jagdishpur

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

Witness: _____

(Name & Address) _____

Clause on IP in the tender

Integrity Pact (IP)

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

SI	IEM	Email
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 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 any of the above IEM(s). All correspondence with 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 officials whose contact details are provided below:

Details of contact person(s):

(1)
 Name: Amit Kumar Pandey
 Deptt: MM
 Address: BHEL, FSIP
 Phone: (Landline/ Mobile) 79053 23141
 Email: pandeyak@bhel.in
 Fax: _____

(2)
 Name: Pankaj Kumar Mishra
 Deptt: MM
 Address: BHEL, FSIP
 Phone: (Landline/ Mobile) 7351561122
 Email: pankajkumar.mishra@bhel.in
 Fax: _____

GENERAL TERMS AND CONDITIONS (GTC) OF TENDER ENQUIRY

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GENERAL TERMS AND CONDITIONS (GTC) OF TENDER ENQUIRY

SL. NO.	DESCRIPTION
1	General:
A	These General Terms & Conditions (GTC) shall apply to all tender enquiries, notice inviting tenders (NIT), request for quotations concerning the supply of goods and / or rendering of services to Bharat Heavy Electricals Ltd., FSIP, Jagdishpur (hereinafter referred to as BHEL or the Purchaser) or its Projects / Customers. Special / supplementary/Notice Inviting Tender (NIT) terms and conditions of enquiry, if any, will override the terms and conditions mentioned in this GTC.
2	General Instructions - Common for Indigenous & Foreign enquiries
	Supplier may also be referred as Bidder/Vendor. The terms are being used interchangeably. A Purchase Order is a document issued by a buyer to a seller indicating the items or services wish to purchase. Purchase Order shall be treated as a contract and both are interchangeable. Order of precedence will be as follows: <ul style="list-style-type: none"> a. Any Corrigendum b. NIT Terms & Conditions c. Special/Supplementary terms and Conditions d. General Terms and Conditions
A	Through E- procurement-
	<ul style="list-style-type: none"> i. Offer shall be submitted by the bidders in single / two parts as called in Tender enquiry. ii. Bid Part - I Technical cum Commercial bid Bid Part - II Price bid iii. Suppliers shall quote price on BHEL/authorised third party service provider e-procurement site. Any deviation from the price format shall be clearly brought out in the offer Bid part-I. The offer shall be uploaded on BHEL e-procurement site using Class III digital signature. Bidders to put sign and seal on all the uploaded documents. The quotation should be uploaded on the site before due date and time. Part-I of the bid shall contain complete item-wise scope of supply as offered vis-à-vis the scope of supply as per enquiry, all commercial terms and conditions etc. It is expected that bidders shall meet all our technical and commercial requirements and shall not deviate from them.
B	Commercial Conditions quoted by the vendor in any place including as stated in bidder's 'General Terms and Conditions' if any, shall not be binding on the BHEL and the conditions contained in this GTC, including special conditions, if any, for this enquiry shall only prevail, unless agreed by BHEL.
C	<p><u>Wherever Reverse Auction is called for</u></p> <p>REVERSE AUCTION (RA): "BHEL shall be resorting to Reverse Auction (RA) (Guidelines as available on https://www.bhel.com/supplier-registration) for this tender. RA shall be conducted among the techno-commercially qualified bidders. 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."</p> <p><u>Wherever Reverse Auction is not called for</u></p> <p>PRICE BID OPENING: Tender shall be finalized via price bid opening of all the techno-commercially qualified bidders in place of RA.</p> <p>Price bid should contain only price of item. Anything other than price of item shall be invalid. <i>Tender finalization mode (RA or Price bid opening) shall be specified in NIT / Special / supplementary terms and conditions of enquiry.</i></p>
D	The goods offered shall confirm to BHEL specifications and / or National/International standards as mentioned in the Enquiry and the bidder is required to confirm his unconditional acceptance to the same. Vendors, seeking deviations from the specifications and any other conditions, may indicate the same clearly on a separate sheet, with reasons for such deviations. BHEL reserves the right to reject the offer with deviations or load the deviations suitably for evaluation.

GENERAL TERMS AND CONDITIONS (GTC) OF TENDER ENQUIRY

E	Wherever, any make/ brand specific requirement is there in tender, the offers shall be submitted directly by Manufacturer/ OEM or his authorized agent/dealer/distributor only. Unsolicited offers shall be summarily rejected. In case both OEM and its Authorized agent/dealer/distributor quote against tender, offer of only OEM shall be considered.
F	Bid in single part or techno-commercial bid in two-part system (as the case may be) will be opened on the due date. In case of two-part bid, price bids of techno-commercially acceptable bidder(s) only shall be opened on the assigned date.
G	In case of changes in scope and / or technical specification and / or commercial terms & conditions, having price implication, techno-commercially acceptable bidders shall be asked by BHEL to submit the impact of such changes on their price bids. In case a bidder opts to submit revised price bid instead of impact called for, then latest price bid shall prevail.
H	The bidders will submit Integrity Pact, duly signed by its authorized signatory, where called for in the enquiry.
I	Bidders who are not registered with BHEL FSIP, Jagdishpur may visit www.bhel.com and may fill up online "Supplier Registration Form" on BHEL link (http://supplier.bhel.in) along-with all the supporting documents.
J	BHEL expects that the bidder must respond to the enquiry. Regret letter, with valid reasons for not participating in the tender will be submitted where the bidder is unable to submit offer. Repeated lack of response (Not Quoted in last four consecutive tenders or all enquiries in last two years whichever is earlier) on the part of vendor may lead to his deletion from BHEL's approved vendor list.
K	Goods shall be properly packed to avoid transit damage. Suitable markings shall be provided to identify the goods with that of the PO No. and the consignee details.
L	Goods shall be consigned to Store Officer, BHEL, FSIP, IA Jagdishpur Dist- Amethi (U.P.) India, unless otherwise specified in the PO.
M	All corrigenda, addenda, amendments, time extensions, clarifications etc. to the tender will be hosted on BHEL website (www.bhel.com)/ https://eprocurebhel.co.in/nicgep/app eProcurement website only.
N	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.
O	The Purchaser can consider awarding tendered quantities among more than one bidder (after acceptance of L1 price by the other bidders) in the manner and proportion disclosed in the tender conditions. Wherever the numbers of qualified responses (N) are three or more, the distribution shall be limited to (N-1) qualified responses. Distribution in case of two qualified bidders shall be as per BHEL's discretion only. Purchaser can also consider awarding of part of the tendered quantity to other than L1 bidder at L1 counter offered rates, if the quantity offered by the L1 bidder is less than the quantity tendered for. BHEL can also award order to L1 bidder/counter offer accepted bidders in case any bidder is not supplying/delaying the supplies and in this case the distributed quantity shall not be considered in loading share. The loading of Order shares on suppliers will also be subject to their performance (Quality, Delivery and Service) for the supplies made against Purchase Orders. The suppliers with consistence good performance will be preferred over poor performance supplier and encouraged with more order share. Depending upon performance in supplies BHEL shall go to redistribute the pending orders/shares of poor performer to other suppliers whose performance in supplies is better.
P	The bidder shall submit price bid strictly in the price format, wherever provided for, in the enquiry. Any attempt on the part of the bidder to alter the contents of the price bid format in any manner, which in the opinion of BHEL can vitiate the tendering process, will lead to rejection of the bid, <u>besides BHEL taking appropriate punitive action as deemed fit as per policy.</u>
Q	In case the bidder decides to sub-contract part of his activity / work to some of his vendors, details of such intended subcontracting shall be mentioned in the bid. This will however not absolve the bidder from his contractual obligations and responsibilities.
R	Wherever the minimum reserved capacity is called for in the tender, the offers of such bidders, who do not quote for the minimum reserved capacity, are liable to be rejected.

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3	Delivery Terms
A	Indigenous Purchase
	Goods shall be delivered on 'FOR Destination' basis (with freight and insurance in bidder scope) to the named destination unless otherwise called for in the enquiry.
B	Foreign Purchase — Imports
B1	<ol style="list-style-type: none"> 1. Goods shall be despatched by Sea, unless stated otherwise in the enquiry or purchase order. 2. Terms of Delivery for Sea shipment shall be on CFR / CIF basis with 14 days' detention free period for FCL (Full Container Load) Cargo of GP & HC Containers. 3. For other cases - Other than GP & HC Containers, LCL Cargo shall be delivered at Nhava Sheva (JNPT) & Break-bulk Cargo at Mumbai (MPT). 4. For Air consignments, the terms of delivery shall be FCA at BHEL nominated Airport. 5. Freight amount shall be indicated separately in the offer in case of CIP/CFR/CIF. 6. The number of detention free days and destination charges payable to shipping line must be mentioned in your offer and also on the Bill of Lading. 7. Offer received on FOB basis may be considered on an exceptional basis. BHEL will load freight, marine insurance & shipping line port handling charges etc. to work out landed cost at Sea Port. 8. Please visit BHEL website for details of named Air ports and Sea ports. Name of the gateway port so chosen by the Seller shall be indicated by the Bidder in his offer.
B2	<ol style="list-style-type: none"> 1. For delivery of FCL (Full Container Load) cargo, the Bidder shall provide minimum 14 days' detention free period from the date of delivery at Port of Discharge / Place of Delivery (in case of ICD). Wherever the detention free period offered is less than 14 days, the bids shall be loaded for the period short of 14 days' period. 2. <u>Port Congestion charges or any additional charges claimed by the shipping line at Port of Discharge / Place of Delivery shall be to the Seller's account.</u>
C	If bidder insists for Ex Works Delivery in FOR tenders, BHEL shall load for transportation charges as per BHEL transport rate contract. In case of rate contract is not available, BHEL may seek budgetary offer for transportation charges.
4	Delivery Schedule & Completion date
A	<ul style="list-style-type: none"> • Instead of writing specific date against delivery offered, bidder shall commit delivery period in number of days / weeks / months to suit the delivery period indicated in the enquiry. • Commencement of delivery period shall be reckoned from the date of PO / LOI or any other agreed milestone. • Seller shall deliver the goods in the manner and schedule agreed under the Purchase order. • Goods shall be delivered within contractual period or any extension thereof, if any, granted by the Purchaser. • If delivery is linked to approval of documents, time for submission of such documents to be indicated and delivery period to be indicated from approval of documents. This delivery schedule will be considered for processing delivery extension, wherever applicable. • BHEL reserves the right to cancel the order if material is not delivered within PO scheduled delivery. • In case of unsatisfactory performance on quality / delivery BHEL will have right to discontinue the contract in part or full.
B	In case of foreign supplies, the date of Bill of Lading (B/L) or AWB shall be taken as actual date of delivery.
C	In case of Indigenous bidders, the date of delivery at named destination in India shall be taken as contractual delivery completion date where delivery terms are FOR destination.
D	In case of 'Ex-works' delivery terms, the date of Intimation by supplier to lift the material or date of invoice, whichever is earlier, shall be the contractual delivery completion date.
5	Transit Insurance
	Except where delivery terms are agreed on CIF basis for Imports & FOR destination basis for indigenous purchases, transit insurance will be covered by BHEL under its Open Marine Transit Insurance Policy. Seller shall inform dispatch particulars with value of consignment to the Purchaser within 07 days of dispatch for BHEL to arrange insurance coverage in its policy. Failure on the part of seller to inform dispatch particulars will make him liable to pay for any transit damages / losses suffered by the Purchaser.
6	Force Majeure
	Notwithstanding anything contained in the contract, neither the Seller nor the Purchaser shall be held responsible for total or partial non-execution of any of the contractual obligations, should the obligation become unreasonably onerous or

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	impossible due to occurrence of a 'Force Majeure' which directly affects the obligations to be performed by the Purchaser or the Seller; Such events include war, military operations of any nature, blockages, revolutions, insurrections, riots, civil commotions, insurgency, sabotage, acts of public enemy, fires, explosion, epidemics, quarantine restrictions, floods, earthquake, or acts of God, restrictions by Govt. authorities; over which the Seller or the Purchaser has no control.
	The party claiming to be affected by force majeure shall notify the other party in writing without delay, within two weeks on the intervention and on the cessation of such circumstance. Extension of time sought by the Seller along with supporting evidence and so granted by the Purchaser for the supply/ work affected, if any, shall not be construed as waiver in respect of remaining deliveries. Rescheduling of deliveries on account of force majeure conditions, if so agreed by the Purchaser, will not entail the Seller to claim any increase in the price on whatsoever account. Notwithstanding above provisions, Purchaser shall reserve the right to cancel the order/ Contract, wholly or partly, in order to meet the overall project schedule and make alternative arrangements. If deemed necessary, Purchaser may takeover partly processed material at a mutually agreed price.
7	LD/Penalty for delayed delivery/ performance.
A	<p>Subject to force majeure conditions,</p> <p>I. LD shall be 0.5 % of the total order value per week of delay or part thereof subject to a maximum of 10% of the total order value.</p> <p>II. In case of staggered delivery schedule, LD shall be 0.5 % of the undelivered portion per week of delay or part thereof subject to a maximum of 10% of the total order value of that lot. However, even if a staggered delivery schedule for Capital Machine / BOPs is agreed, the LD cap will be levied on total order value and not undelivered portion of the order value.</p> <p>III. In case of any amendment/ revision, the LD shall be linked to the amended / revised PO value.</p> <p>Any loading on LD/penalty clause shall be to the extent to which it is not agreed to by the bidder (at offered value). The same shall be intimated separately prior to price bid opening.</p> <p>Note: "Recovery of LD will not include GST".</p> <p>Date of Gate entry at BHEL shall be considered as date of material receipt for LD purpose except Ex Works PO.</p> <p>In case the contractually agreed delivery date falls on a holiday in BHEL FSIP Jagdishpur, the next working day shall be taken as contractual delivery date for compliance and applicability of LD / penalty.</p> <p>In case any supply is rejected by BHEL, Receipt date of replacement material shall be considered as date of material receipt for LD purpose.</p>
B	Risk Purchase
	<p>If the material is not supplied within the agreed delivery period, BHEL reserves the right to cancel the order and purchase the material from alternate source (s) at the Risk and Cost of the Seller along with appropriate action as per BHEL extant rules. In such an event, it shall be obligatory on the part of seller to make good any loss suffered by the purchaser.</p> <p>Amount to be recovered in case of risk purchase shall be calculated as below:</p> <p>Risk and Cost against Balance Work :</p> <p>Risk & Cost Amount= [(A-B) + (A x H/100)]</p> <p>Where,</p> <p>A = Value of Balance scope of Work/ Supply (*) as per rates of new contract</p> <p>B = Value of Balance scope of Work/ Supply (*) as per rates of old contract being paid to the contractor/ supplier at the time of termination of contract i.e. inclusive of PVC & ORC, if any.</p> <p>H = Overhead Factor to be taken as 5</p> <p>In case (A-B) is less than 0 (zero), value of (A-B) shall be taken as 0 (zero).</p> <p>*(Balance scope of work/ supply)</p> <p>Difference of Contract Quantities and Executed Quantities as on the date of issue of Letter for 'Termination of Contract', shall be taken as balance scope of Work/ Supply for calculating risk & cost amount.</p> <p>Contract quantities are the quantities as per original contract. If, Contract has been amended, quantities as per amended Contract shall be considered as Contract Quantities.</p>

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	<p>Items for which total quantities to be executed have exceeded the Contract Quantities based on drawings issued to contractor from time to time till issue of Termination letter, then for these items total Quantities as per issued drawings would be deemed to be contract quantities. Substitute/ extra items whose rates have already been approved would form part of contract quantities for this purpose. Substitute/ extra items which have been executed but rates have not been approved, would also form part of contract quantities for this purpose and rates of such items shall be determined in line with contractual provisions.</p> <p>However, increase in quantities on account of additional scope in new tender shall not be considered for this purpose.</p> <p>NOTE: In case portion of work is being withdrawn, contract quantities pertaining to portion of work withdrawn shall be considered as 'Balance scope of work/supply' for calculating Risk & Cost amount.</p>
8	Indian Agents and Agency commission
A	BHEL prefers to deal directly with Foreign vendor, wherever required, for procurement of Goods. However, if the Foreign Principal desires to avail services of an Indian Agent, then the Principal should ensure compliance to "regulatory guidelines" which will require submission of an agency agreement.
B	The CFR / CIF price quoted will be deemed to be inclusive of Indian Agency commission. Agency commission as disclosed by the bidder in his quoted CFR / CIF price will be paid in Indian Rupees on receipt & acceptance of Materials or it's installation at destination, as the case may be. The lower of the TT buying rate prevailing on the date of technical bid opening or price bid opening shall be considered for computation of Agency commission.
C	In a tender either the Indian Agent on behalf of Principal / OEM or the Principal / OEM itself can bid, but both cannot bid simultaneously for same item / product in the same Tender. In case bids are received from both the Principal / OEM and the agent, bid received from the agent will be ignored.
D	If an agent submits Bid on behalf of the Principal / OEM, the same agent shall not submit bid on behalf of another Principal / OEM in the Tender, for the same Item / Product.
9	Documentation:
A	Indigenous Purchase
	<p>For supply orders placed on Indian Suppliers: Irrespective of the value of the invoice amount, the bidder / vendor should necessarily upload the despatch & invoice details on BHEL SUVIDHA portal at https://suvidha.bhel.in/suvidha, prior to despatch. All documents as per PO checklist, along with additional documents (if any), must be uploaded on the portal. It is mandatory that tax invoices with a net amount (including taxes) exceeding Rs. five lakhs uploaded on the portal are digitally signed using a Class 3 Digital Signature Certificate (DSC) issued by a licensed Certifying Authority. Submission of invoice document in hard copy is allowed for invoices with a net amount (including taxes) equal to and up to Rs. five lakhs, in case they were not digitally signed and uploaded on the portal.</p> <p>Note- "The material will not be accepted inside BHEL in absence of the above."</p>
B	Foreign Purchase — Imports
	<p>A. Vendor to share immediately Bill of lading with Import Invoice and packing list of material at mssea@bhel.in and incorporate following detail in the bill of lading:</p> <ol style="list-style-type: none"> Import & export Code (IEC) of importer; GST Identification No (GSTIN) of importer; Official email id of importer (to be used for correspondence by shipping lines and Customs) – mssea@bhel.in to be included. <p>B. Seller shall send 1 set of following documents, in English, within 7 days of B/L date / 1 day of AWB date by courier to the Purchaser.</p> <ol style="list-style-type: none"> Express / Original 'Clean on board' Bill of Lading / AWB. One set of Commercial Invoice, Packing list indicating container-wise Gross weight, Net weight, CBM volume, No. of packages with Dimensions of each package. Original Certificate of Country of Origin issued by Chamber of Commerce. One set of Original Test Certificates and O&M Manual where called for. Fumigation / Phyto Sanitary Certificate wherever cargo is packed in wooden packing or packing of plant origin material is used. Supplier should additionally forward 2 sets of original documents mentioned at point 1 to 5 along with original bill to Lading through any international courier service / registered airmail or AWB by captain's mail within three days of obtaining the same directly to the following:

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	<p>(i) Head- M.S Regional Operations Division BHEL 14th Floor Centre-1 World Trade Centre, Cuffe Parade Colaba, Mumbai 400 005 INDIA E-mail: mssea@bhel.in</p> <p>(ii) Head- Finance Administrative Bldg. BHEL, FSIP, IA Jagdishpur Amethi, 227817, UP, India</p> <p>And confirm forwarding details to Purchase Officer, BHEL, FSIP, IA Jagdishpur 227817, Amethi , UP, India <u>through email</u>.</p> <p>7. In case the Seller decides to negotiate all 3 originals of B/L / AWB along with all original documents through negotiating Bank, non-negotiable documents (NNDs) consisting of copy of B/L / AWB & documents mentioned at Sl. No 9- B2 to B5 will be sent by e-mail to the Purchaser at his e-mail address given in the PO. Other documents, as required, will be separately indicated in the Purchase Order. Additional expenditure, if any, incurred by the Purchaser by way of detention / demurrage, resulting out of delay attributable to the Seller in providing Negotiable documents, will be recovered from the Seller. In case any discrepancy is raised by bankers / BHEL with respect to documents submitted, vendor to facilitate clearance of goods through Delivery Order.</p>
C	General
	<p>1. For Hazardous chemicals, the materials safety data sheet (MSDS) is to be submitted.</p> <p>2. All certificates as called must be sent. BHEL may test any goods supplied and their decision is final irrespective of supplier's certificates. If test certificate and guarantee certificate are not received along with the document stipulated in these specifications, BHEL reserves the right to get the material tested and recover the expenses from the supplier without awaiting supplier's confirmation.</p>
10	Pricing Terms:
	Prices once quoted shall remain firm within the validity or any extension thereof for placement of order, till complete execution of the order, without any escalation / increase for any reason, whatsoever, unless specifically provided for in the Enquiry & PO. In case of foreign vendors, the quoted price shall be taken as inclusive of Third Party Inspection and testing charges as called for in the NIT.
11	Price Validity :
	Unless stated otherwise in the enquiry, offer shall be valid for a period of 90 days from the date of Techno- commercial (Part-I) bid opening date.
12	Taxes & Duties - Indigenous Purchase:
A	Vendor to ensure timely remittance of SGST, CGST, IGST as applicable in time as per law.
B	Vendor to ensure compliance to filing of monthly GST sales return including BHELs supplies by 10 th of next calendar month in the online GST portal wherever applicable.
C	Vendors to declare filing of timely returns and GST remittance / likely remittance / ITC adjustment along with invoice.
D	Vendor to submit invoices compliant with GST invoice Rules
E	Vendors to comply with all statutory provisions as may be applicable at the time of despatch / sale. Any additional financial liability to BHEL on account of non-compliance by vendors shall be borne by them and shall be adjusted / recovered from the vendors. BHEL reserves the right to review the existing offers / contracts for any revision in terms, which may arise due to change in any statutory provisions to ensure that the benefit accrues to BHEL.
F	Vendor to ensure TAX INVOICE submission along with consignment.
G	<p>In respect of cases where the liability to discharge GST is on BHEL under reverse charge mechanism, vendors have to ensure timely submission of invoices and delivery of material / services to BHEL, so that there is no mismatch on both activities. In case there is any additional financial liability on BHEL on account of default on the part of the vendor on submission or delivery of material / services the same shall be passed on to them.</p> <p>In respect of free issue material by BHEL, vendors have to return the processed material within the time line as per the provisions of GST. In case of any additional tax liability on BHEL on account of non-compliance by the vendor, the additional financial implications on BHEL shall be passed on to the vendor.</p>
H	Vendors to provide the applicable HSN / SAC codes as called for in the enquiry.

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I	<p>e-Invoicing: In line with notifications of the Government of India in the Ministry of Finance (Department of Revenue), GST invoices are to be uploaded by vendors on the Invoice Registration Portal (IRP) as per applicability of relevant notifications and shall submit the unique 'Invoice Reference Number (IRN)' after digitally signing the e-invoice generated by IRP. It is important to note that where a vendor is required to issue an e-invoice but fails to do so, then such invoice would not be treated as a valid invoice under GST law for availing input tax credit (ITC).</p>
13	<p>Taxes & Duties - Foreign Purchase — Imports</p>
	<p>The offered prices shall be <u>inclusive of all the Taxes and duties</u> as applicable in the country of bidder / country of dispatch for the quoted CFR / CIF price.</p>
14	<p>Payment Terms-</p>
A	<p>Indigenous: 100% payment in 90 days of receipt (45 days for MSE having UDYAM certificate, registered suppliers as per relevant Act in force), subject to acceptance of material at BHEL, on direct presentation of the documents. In case of despatch of material to site directly, site certification for receipt of materials is required unless otherwise provided for in the PO. GST amount shall be released only after the same is credited in BHEL account in GSTR 2.</p>
B	<p>Foreign: 100% direct Payment payable on 90th day of B/L / AWB.</p>
	<p>Any deviation from the above payment terms, if accepted (by BHEL), shall be loaded as per below point:</p> <p>(i) Repo Rate (as applicable on the date of bid opening; Techno-commercial bid opening in case of two part bids) + 4% shall be considered for loading for the period of relaxation sought by bidders.</p> <p>(ii) Wherever LC payment terms are not offered in NIT and the same is insisted by bidder(s), all LC related bank charges to be incurred by BHEL shall also be loaded.</p> <p>(iii) In case of deviation w.r.t. LC payment terms offered in NIT, the loading shall be done for all LC related bank charges to be incurred by BHEL.</p>
C	<p>Foreign vendors to submit declaration of Permanent Establishment and Business Connection (PEBC) for remittances purpose. Declaration to be submitted in required formats whichever is applicable as per their transaction entered into with BHEL. In the absence of certificates from the vendor, withholding tax at applicable rates along with surcharge and cess will be recovered at the time of remittance to the vendor.</p>
D	<p>Foreign vendors to submit Tax Residency Certificate (TRC) & Form 10 F (for obtaining DTAA benefits) in respect of services. The TRC (tax residency certificate) is to be issued by the authorities of the government of vendor's country. If the informative part of the format (other than residency) is not furnished by the authorities, the same may be furnished by the vendor as a declaration.</p>
15	<p>Inspection of Goods</p>
A	<p>The Seller shall give adequate notice, of 1 week (unless otherwise stated) or as mutually agreed period, in writing to the Purchaser (in case Customer inspection is involved) or BHEL appointed TPIA about the date and place at which the goods will be ready for inspection/ testing, as provided for in the contract.</p>
B	<p>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.</p> <p>Wherever required, BHEL may carry out testing at BHEL's testing Lab and in case of any rejection during such testing, replacement / rectification, as required, will have to be done by Supplier. If BHEL carries out any rectification of such rejected material, such cost will be recovered from Supplier's Bills. In case of Customer inspection as Supplier's Works, inspection clearance to be obtained from Customer and submitted to BHEL.</p>
C	<p>BHEL's representative from unit or Corporate Quality (CQ) is authorised to carry out audits along with TPIA at vendor's works before clearing the items for despatch.</p>

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D	<p>All costs related to inspections and re-inspections shall be borne by the Seller. In case of inspection by BHEL and / or BHEL's customer, the cost of to & fro passage and Boarding & Lodging shall be borne by the Purchaser / Customer, unless otherwise specifically agreed. In case of foreign vendors, the cost of third party inspection, where called for, shall be deemed to be included in the quoted price. Seller shall be responsible to provide assistance such as labour, materials, electricity, fuels, stores, apparatus, instruments at his cost, as may be required and as may be reasonably demanded to carry out such tests effectively.</p>
E	<p>REJECTION: If any goods are rejected, BHEL shall be at liberty to take action as per following:</p> <ul style="list-style-type: none"> a) Allow the supplier, wherever mutually agreed, to rectify the rejected goods at BHEL's works within reasonable time as fixed by BHEL. or b) Allow the supplier to make free replacement within a specified period. Rejected goods can be lifted by the supplier there after. or c) In case payment has been done, allow supplier to refund equivalent value of rejected material by NEFT / RTGS or furnish Bank Guarantee for same amount before lifting the rejected goods. Fresh replacement shall be regulated as per terms and condition of the original Purchase Order. In case payment has not been done, allow the supplier, wherever mutually agreed, to rectify the rejected goods at supplier's works within reasonable time as fixed by BHEL. or d) Terminate the contract either in part or in whole at the discretion of BHEL and recover the loss, if any, from the supplier. or e) Any goods rejected by BHEL must be removed by the supplier after making payment through NEFT / RTGS within 45 days from the date of intimation of rejection or 30 days after receipt of the intimation of rejection whichever is earlier. If vendor fails to lift or allow despatch of rejected material at his cost within 90 days from the intimation of rejection, his claim on rejected material shall cease.
16	<p>Guarantee / Warranty and corresponding Repairs / Replacement of Goods</p> <p>Manufacturer's works test / infection certificates shall be furnished along with the guarantee that material conforms strictly to the specification for general & special conditions as laid down in the purchase order. Goods shall comply with the specifications for material, workmanship and performance. The Guarantee/ Warranty shall be for a period of 12 months from the date of receipt. If the delivery is found non-compliant during the Guarantee/ Warranty period, leading to rejection, the Seller shall arrange free replacement / repair of goods, within one month from the date of intimation or any mutually agreed period. The rejected goods shall be taken away by the Seller at his cost and replaced on Delivered Duty Paid (DDP) (FOR - BHEL Stores / designated destination basis) within such period. In the event of the Seller's failure to comply, Purchaser may take action as appropriate, including Repair / Replenish rejected goods & disposal of rejections, at the risk & cost of the Seller.</p> <p>In case the defects attributable to Seller are detected during processing of the goods at purchasers/ his subcontractor's works, the Seller shall be responsible for free replacement / repair of the goods as required by the purchaser.</p>
17	<p>Evaluation and Loading Criteria:</p> <p>Evaluation of the tender shall be on the basis of delivered cost, i.e. 'total cost to BHEL' w.r.t the technical scope and commercial conditions finalized after techno-commercial clarifications (after considering, inter alia, Customs Duty and GST / Other taxes as applicable/Other applicable loading). Exchange rate (TT selling rate of State Bank of India) applicable on the date of Part-I bid opening shall be considered for evaluation of foreign bids. If the relevant day happens to be a bank holiday in India, then the FOREX rate as on the previous bank working day shall be taken for evaluation.</p> <p>Foreign suppliers shall ensure that the benefits as applicable under Comprehensive Economic Partnership Agreement (CEPA) with Government of India are disclosed in the bid & relevant documents such as Certificate of Country of Origin, issued by the appropriate authority in the country of Export is provided by the vendor along with dispatch documents. Bids shall be evaluated with such applicable benefits. In the event of Seller failing to provide appropriate documents for Purchaser to avail disclosed concessional duty benefits in India, financial loss, so incurred, will be to the Seller's account.</p> <p>The evaluation currency for this tender shall be INR (Indian Rupees).</p>

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18	Variation of orders
	No variation to the Purchase order is permitted unless authorised in writing and signed by or on behalf of purchase executive, BHEL Jagdishpur.
19	Sub-contract
	BHEL's order or part there off, if further to be subcontracted in exceptional circumstances the details of subcontracting and to whom to be subcontracted shall be furnished to BHEL and written permission shall be obtained from BHEL. However, it shall not absolve the supplier of the responsibility of fulfilling BHEL order requirements.
20	Recovery / deductions of amount from supplier
	<p>A) Any amount on account of recovery from consignor / supplier under any condition shall be liable to be adjusted against any amount payable to the consignor / supplier against bills.</p> <p>B) For any deficiency in supplies where deduction is involved, an amount as decided by BHEL, shall be deducted from supplier's bills.</p>
21	Safety During Inspection by BHEL/TPIA
	<p>The vendors shall maintain and ensure sufficient safety measures as required for inspections and test like HV test. Pneumatic test, Hydraulic test Spring test, Bend test, Material handling and safe working environment etc. to enable Inspection Agency for performing inspection.</p> <p>The vendor shall ensure that all the safety precautions specified in factories Act 1948 chapter-IV Section-21 to 41 are complied with respect to equipment's to be inspected.</p> <p>If any test equipment is found not complying with proper safety requirement, then the inspection agency may withhold inspection, till such time the desired safety requirements are met.</p>
22	Non-Disclosure Agreement
	<p>All Drawings 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. <u>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.</u></p>
	<p>DRAWINGS, PATTERNS & TOOLS: All drawings, patterns & tools supplied by BHEL or made at BHEL's expense are BHEL's property. These cannot be used or referred to any other party and must only be used in the execution of BHEL's orders. These should be preserved at the supplier's cost for a period of not less than 5 years. Patterns & tools should be returned to BHEL within 90 days of issue of the same.</p>
23	Settlement of Disputes & Arbitration
	<p>If any dispute or difference of any kind whatsoever shall arise between BHEL and the Supplier/Vendor, arising out of the contract for the performance of the work whether during the progress of contract termination, abandonment or breach of the contract, it shall in the first place referred to Designated Engineer for amicable resolution by the parties. Designated Engineer (to be nominated by BHEL for settlement of disputes arising out of the contract) who within 60 days after being requested shall give written notice of his decision to the contractor. Save as hereinafter provided, such decision in respect of every matter so referred shall forthwith be given effect to by the Supplier/Vendor who shall proceed with the work with all due diligence, whether he or BHEL desires to resolve the dispute as hereinafter provided or not. If after the Designated Engineer has given written notice of this decision to the party and no intention to pursue the dispute has been communicated to him by the affected party within 30 days from the receipt of such notice, the said decision shall become final and binding on the parties. In the event the Supplier/Vendor being dissatisfied with any such decision or if amicable settlement cannot be reached then all such disputed issues shall be resolved through conciliation in terms of the BHEL Conciliation Scheme 2018.</p>

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A	<p><u>CONCILIATION:</u> Any dispute, difference or controversy of whatever nature howsoever arising under or out of or in relation to this Agreement (including its interpretation) between the Parties, and so notified in writing by either Party to the other Party (the "Dispute") shall, in the first instance, be attempted to be resolved amicably in accordance with the conciliation procedure as per BHEL Conciliation Scheme 2018. 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 - "Procedure for conduct of conciliation proceedings" (as available in www.bhel.com).</p>
B	<p><u>ARBITRATION:</u> Except as provided elsewhere in this Contract, in case Parties are unable to reach amicable settlement (whether by Conciliation to be conducted as provided in Clause 21.1 herein above or otherwise) 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 (hereinafter referred to as the 'Dispute'), then, either Party may, refer the disputes to Arbitration as per the provisions of The Arbitration and Conciliation Act. The dispute may be referred to an appropriate Arbitral Institution for adjudication of dispute by a Sole Arbitrator appointed in accordance with the Rules of said Arbitral Institution.</p>
D	<p>A party willing to commence arbitration proceeding shall invoke Arbitration Clause by giving notice to the other party in terms of section 21 of the Arbitration & Conciliation Act, 1996 (hereinafter referred to as the 'Notice') before referring the matter to arbitral institution. The Notice shall be addressed to the Head of the Region, Power Sector/ Unit, BHEL, executing the Contract and shall contain the particulars of all claims to be referred to arbitration with sufficient detail and shall also indicate the monetary amount of such claim including interest, if any.</p> <p>After expiry of 30 days from the date of receipt of aforesaid notice, the party invoking the Arbitration shall submit that dispute to the Arbitral Institution and that dispute shall be adjudicated in accordance with their respective Arbitration Rules. The matter shall be adjudicated by a Sole Arbitrator who shall necessarily be a Retd Judge having considerable experience in commercial matters to be appointed/nominated by the respective institution. The cost/expenses pertaining to the said Arbitration shall also be governed in accordance with the Rules of the respective Arbitral Institution. The decision of the party invoking the Arbitration for reference of dispute to a specific Arbitral institution for adjudication of that dispute shall be final and binding on both the parties and shall not be subject to any change thereafter. The institution once selected at the time of invocation of dispute shall remain unchanged.</p> <p>The fee and expenses shall be borne by the parties as per the Arbitral Institutional rules.</p> <p>The Arbitration proceedings shall be in English language and the seat and venue of Arbitration shall be New Delhi. Subject to the above, the provisions of Arbitration & Conciliation Act 1996 and any amendment thereof shall be applicable. All matters relating to this Contract and arising out of invocation of Arbitration clause are subject to the exclusive jurisdiction of the Court(s) situated at New Delhi.</p> <p>Notwithstanding any reference to the Designated Engineer or Conciliation or Arbitration herein, a. the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree. Settlement of Dispute clause cannot be invoked by the Contractor, if the Contract has been mutually closed or 'No Demand Certificate' has been furnished by the Contractor or any Settlement Agreement has been signed between the Employer and the Contractor.</p> <p>It is agreed that Mechanism of resolution of disputes through arbitration shall be available only in the cases where the value of the dispute is less than Rs. 10 Crores.</p> <p>In case the disputed amount (Claim, Counter claim including interest is Rs. 10 crores and above), the parties shall be within their rights to take recourse to remedies other than Arbitration, as may be available to them under the applicable laws after prior intimation to the other party. Subject to the aforesaid conditions, provisions of the Arbitration and Conciliation Act, 1996 and any statutory modifications or re-enactment thereof as amended from time to time, shall apply to the arbitration proceedings under this clause.</p> <p>In case, multiple arbitrations are invoked (whether sub-judice or arbitral award passed) by any party to under this contract, then the cumulative value of claims (including interest claimed or awarded) in all such arbitrations shall be taken in account while arriving at the total claim in dispute for the subject contract for the purpose of disputed amount as above. Disputes having cumulative value of less than 10 crores shall be resolved through arbitration and any additional dispute shall be adjudicated by the court of competent jurisdiction.</p>

GENERAL TERMS AND CONDITIONS (GTC) OF TENDER ENQUIRY

	<p>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 resolution through AMRCD (Administrative Mechanism for Resolution of CPSEs Disputes) as mentioned in DPE OM No. 05/0003/2019-FTS-10937 dated 14-12- 2022 as amended from time to time.</p>
24	<p>Applicable Laws and Jurisdiction of Courts Indian laws both substantive and procedural, for the time being in force, including modifications thereto, shall govern the Contract including Arbitration proceedings. The competent Courts at Sultanpur/Amethi/New Delhi (for foreign Bidders only) in the State of Uttar Pradesh, India shall have sole jurisdiction.</p>
25	<p>Benefits earmarked for Purchase from Micro & Small Enterprises (MSEs) — Indigenous Purchase</p>
A	<p>MSE bidders must submit the valid UDYAM certificate along with their bid w.r.t. their respective MSE status as per extant norms. Date to be reckoned for determining the deemed validity will be the last date of Technical bid submission. Non-submission of such document will lead to consideration of their bid, at par with other bidders and MSE status of such bidders shall be shifted to Non- MSE supplier till the supplier submit these documents.</p>
B	<p>In tender, participating MSEs quoting price within price band of L1+15% 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 MSE and such MSE shall be allowed to supply up to 25% of total tendered value. In case of more than one such MSE, the supply shall be shared proportionately. A quantum of 6.25% out of 25% quantity, so earmarked, will be reserved for MSE's owned by SC / ST entrepreneurs who submit their bid with relevant documents provided that in event of failure of such MSE(s) to participate in tender process or meet tender requirements and L1 price, 6.25% sub-target for procurement earmarked for MSE(s) owned by SC or ST entrepreneurs shall be met from other MSE(s).</p> <p>Special provision for Micro and Small Enterprises owned by Women: 3% reservation for women owned MSEs under following conditions: -</p> <ol style="list-style-type: none"> In case of Proprietary MSE, proprietor is woman. In case of Partnership MSE, the woman partner is holding at least 51% share in the unit. In case Private limited companies, at least 51% share is held by woman promoters. <p>In case of indivisible tender, the full quantity shall be awarded to L1.</p>
26	<p>Integrity Pact (IP) — Independent external monitors (IEM) For tenders in which integrity pact is applicable, following points stand valid :</p>
A	<p>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. A panel of Independent External Monitors (IEMs) have been appointed to oversee implementation of IP in BHEL.</p> <p>The IP as enclosed with the tender is to be submitted (duly signed by authorized signatory who signs in the offer) along with techno commercial 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.</p> <p>Name : _____ Address: _____ mail : _____</p> <p style="text-align: right;">} As indicated in NIT / enquiry : _____</p>
B	<p>Please refer Section 8 of the IP for roles and responsibilities of IEMs. In case of any complaint arising out of tendering process, the matter may be referred to the IEM mentioned in the tender.</p> <p>NOTE: No routine correspondence shall be addressed to the IEM (phone / post / e-mail) regarding the clarifications, time extensions or any other administrative queries, etc. on the tender issued. All such clarifications / issues shall be addressed directly to the tender issuing (procurement) department.</p>
27	<p>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 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.</p>
28	<p>GSTN nos. of vendors as well as GSTN No of BHEL must be mentioned on the invoices/bills of the materials. Please note that correct HSN code as well as rate of GST be mentioned in the invoice/bills. BHEL FSIP GSTIN Reg. No: 09AAACB4146P2ZC</p>

GENERAL TERMS AND CONDITIONS (GTC) OF TENDER ENQUIRY

	State Code: 09 (Uttar Pradesh)
29	<p>(a) Right of Acceptance: BHEL reserves the right to accept the offers in part or in full. BHEL also reserves the right to increase or decrease the tendered quantities. Bidders should be prepared to accept order for reduced/increased quantity without any extra charges.</p> <p>(b) Right of Rejection /Non- Placement of PO: BHEL reserves the right to reject the offers in part or in full or cancel the Tender enquiry-without assigning any reason. BHEL is not bound to place PO of tendered items.</p> <p>(c) Wherever BHEL business interest will contradict with any supplier, offer of that supplier may be rejected.</p>
30	Deviation: Any of the terms and conditions not acceptable to supplier, shall be explicitly mentioned in the tender. Otherwise, it will be treated as that all those terms and conditions as mentioned in the tender are acceptable in Toto.
31	Benefits earmarked to suppliers for Purchase under 'MAKE IN INDIA'
	<p>Compliance to MAKE IN INDIA (MII) circular issued by GOI:</p> <p>"For this procurement, the local content to categorize a supplier as a Class I local supplier / Class II local supplier / Non-Local Supplier and purchase preference to Class I local supplier, is as defined in Public Procurement (Preference to Make in India), Order 2017 dated 04.06.2020 issued by DPIIT. In case of subsequent orders issued by the nodal ministry, changing the definition of local content for items of the NIT, the same shall be applicable even if issued after issue of this NIT, but before opening of Part II bids against this NIT".</p>
	<p>As part of minimizing import content, Government of India, vide order no P-45021/2/2017-B.E.-II dated 15.06.2017, under the subject – Public Procurement (Preference to Make in India) -- has set the initiatives to encourage and promote indigenously manufactured goods within India and services provided by sources within India.</p> <p>In line with this, bidders who manufacture the goods and provide services within India (otherwise referred as local suppliers) are given purchase preference and are entitled to benefits in the tender</p>
A	Definitions
(i)	Local content means the amount of value added in India which shall, unless otherwise prescribed by the Nodal Ministry, be the total value of item procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties) as a proportion of the total value, in percent. Presently, the minimum local content required is 50%. The nodal ministry may prescribe a higher or lower percentage in respect of any particular item and may also prescribe the manner of calculation of local content.
(ii)	Local supplier means a supplier or service provider whose product or service offered for procurement meets the minimum local content as prescribed
(iii)	Margin of Purchase Preference means the maximum extent to which the price quoted by a local supplier may be above the L1 for the purpose of purchase preference. Presently the margin of Purchase preference is 20%.
B	Conditions under which preference is given
(i)	In procurement of goods in respect of which the Nodal ministry has communicated that there is sufficient local capacity and local competition, and where the estimated value of procurement is Rs 50 lakhs or less, only local suppliers shall be eligible. If the estimated value of procurement of such goods is more than Rs 50 lakhs, provisions of 31(A) (ii) and 32(A)(iii) shall apply.
(ii)	If the procurement of goods are not covered by 31(A)(i) and are divisible in nature, the following procedure shall be followed :
<i>a</i>	If L1 is a local supplier, the order for full quantity shall be awarded to local supplier
<i>b</i>	If L1 bid is not from a local supplier, 50% of the order quantity shall be awarded to L1. Thereafter, the lowest bidder among the local suppliers, shall be invited to match the L1 price for the remaining 50% quantity, subject to the local supplier's quoted price falling within the margin of purchase preference, and the order for that quantity shall be awarded to such local supplier subject to matching the L1 price. In case such lowest eligible local supplier fails to match the L1 price or accepts less than offered quantity, the next higher local supplier within the margin of purchase preference shall be invited to match the L1 price for remaining quantity and so on, and the order shall be awarded accordingly. In case some quantity is still left uncovered on local suppliers, then such balance quantity may also be ordered on the L1 bidder.
<i>iii</i>	If the procurement of goods are not covered by 31(A)(ii) and are not divisible in nature, and in procurement of services where the bid is evaluated on the price alone, the following procedure shall be followed :

GENERAL TERMS AND CONDITIONS (GTC) OF TENDER ENQUIRY

a	If L1 is a local supplier, the order shall be awarded to local supplier
b	<p>If L1 bid is not from a local supplier, then the lowest bidder among the local suppliers, will be invited to match the L1 price, subject to the local supplier's quoted price falling within the margin of purchase preference, and the order shall be awarded to such local supplier subject to matching the L1 price.</p> <p>In case such lowest eligible local supplier fails to match the L1 price, the local supplier with the next higher bid within the margin of purchase preference shall be invited to match the L1 price and so on, and the order shall be awarded accordingly.</p> <p>In case none of the local suppliers within the margin of preference match the L1 price, then the order may be awarded to the L1 bidder.</p>
C	Exemption of small purchases
	Notwithstanding anything contained at clause 31 above, procurements where the estimated value of procurement is less than Rs 5 lakhs are exempt and purchase preference shall not be accorded in such cases. However the exemption shall be applicable as per latest Govt. of India guidelines.
D	Verification of local content
(i)	The local supplier, at the time of tender, bidding or solicitation, shall be required to provide self-certification that the item offered meets the minimum local content and shall give details of the location(s) at which the local value addition is made.
(ii)	In cases of procurement for a value in excess of Rs 10 crores, the local supplier shall be required to provide a certificate from the statutory auditor or cost auditor of the company (in case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.
(iii)	False declarations shall be in breach of code of integrity and shall invite action as per guidelines for Suspension of Business dealings with Suppliers
E	In case of any disputes / clarifications, the extant guidelines of Government of India shall prevail.
32	RESTRICTION UNDER RULE 144 (xi) OF THE GENERAL FINANCIAL RULES (GFR) 2017: As per latest government guidelines
I	Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority.
II	"Bidder" (including the term 'tenderer', 'consultant' or 'service provider' in certain contexts) 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 from a country which shares a land border with India" for the purpose of this 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 (iii) above will be as under:
1	<p>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.</p> <p>Explanations –</p>

GENERAL TERMS AND CONDITIONS (GTC) OF TENDER ENQUIRY

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 shareholder’s agreements of 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 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 of capital of 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 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.
33	Conciliation
	<p>BHEL and bidder 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 terms & conditions of order, which the parties are unable to settle mutually), arise inter-se the parties, the same may, be refereed 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</p> <p>Notes:</p> <ol style="list-style-type: none"> 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. <p>The proceedings of Conciliation shall broadly be governed by Part-III of the Arbitration and Conciliation Act 1996 or any statutory modification thereof. The details of Conciliations shall be governed by the BHEL Conciliation scheme 2018.</p>
34	Clause for Suspected Cartel Formation
	<p>The Bidder declares that they will not enter into any illegal or undisclosed agreement or understanding, whether formal or informal with other Bidder(s). This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process. In case, the Bidder is found having indulged in above activities, suitable action shall be taken by BHEL as per extant policies/ guidelines.</p> <p><i>Important Note: The bidder will, when presenting his bid, declare whether other family firms or sister concern affiliates/subsidiary firms are participating in same tender, so as to eliminate the possibility of cartel formation.</i></p>
35	CONFLICT OF INTEREST
	<p>A bidder shall not have conflict of interest with other bidders. Such conflict of interest can lead to anti-competitive practices to the detriment of Procuring Entity's interests. The bidder found to have a conflict of interest shall be disqualified. Bidder has to submit sealed and signed declaration (Annexure-11) along with their offer.</p>
36	SUSPENSION OF THE BUSINESS DEALINGS
	<p>Defaulter suppliers/contractors shall be treated as per BHEL’s Guidelines for Suspension of the Business Dealing with suppliers/contractors.</p>

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

1.0 Integrity commitment, performance of the contract and punitive action thereof:

1.1. 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.

1.2 Commitment by Bidder/ Supplier/ Contractor:

1.2.1. The bidder/ supplier/ contractor commit 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.

1.2.2. 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.

1.2.3. 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 malpractices, 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 [www. bhel.com](http://www.bhel.com) and/or under applicable legal provisions.

37 BID SECURITY / EARNEST MONEY DEPOSIT (EMD)

Bidders to submit Bid Security / Earnest Money Deposit (EMD) along with their bids (except Micro and Small Enterprises (MSEs) or Startups as recognized by Department for Promotion of Industry and Internal Trade (DPIIT)).

Applicability: The applicability of Bid Security / Earnest Money Deposit (EMD) the subject tender shall be mentioned the special terms and conditions of the tender enquiry/NIT.

Amount of EMD: The amount of Bid Security / Earnest Money Deposit (EMD) the subject tender shall be mentioned the special terms and conditions of the tender enquiry.

Modes of deposit

a) The EMD may be accepted only in the following forms:

- (i) Electronic Fund Transfer credited in BHEL account (before tender opening).
- (ii) Banker's cheque/ Pay order/ Demand draft, in favour of BHEL (along with offer).
- (iii) Fixed Deposit Receipt (FDR).
- (iv) Bank Guarantee from any of the Scheduled Banks.
- (v) Insurance Surety Bonds.

b) In case the EMD is more than Rupees Two lakh and in case of foreign bidders, it may be in the form of a bank guarantee (in equivalent Foreign Exchange amount, in case of foreign bidders) issued / confirmed from any of the scheduled commercial bank in India in an acceptable form. The EMD shall remain valid for a period of 45 (forty-five) days beyond the final bid validity period.

	<p>Forfeiture of EMD</p> <p>(i) A bidder's EMD will be forfeited if the bidder withdraws or amends its/his tender or impairs or derogates from the tender in any respect within the period of validity of the tender or if the successful bidder fails to furnish the required performance security within the specified period mentioned in the Tender.</p> <p>(ii) EMD by the tenderer to be withheld in case any action on the bidder is envisaged under the provisions of extant "Guidelines on Suspension of business dealings with suppliers/ contractors" and forfeited/ released based on the action as determined under these guidelines.</p> <p>Return of EMD</p> <p>(i) Bid securities of the unsuccessful bidders shall be returned to them at the earliest after expiry of the final bid validity period and latest by the 30th day after the award of the contract. However, in case of two packet or two stage bidding, Bid securities of unsuccessful bidders during first stage i.e. technical evaluation etc. shall be returned within 30 days of declaration of result of first stage i.e. technical evaluation etc.</p> <p>(ii) Bid security shall be refunded to the successful bidder on conclusion of the order/ receipt of a performance security (if called in the tender).</p> <p>(iii) EMD shall not carry any interest.</p>
38	<p>PERFORMANCE SECURITY/ Security Deposit</p> <p>To ensure due performance of the contract, Performance Bank Guarantee (PBG) or Security Deposit (SD), hereafter referred as performance security shall be submitted by successful bidder after award of the contract. Performance security is to be submitted by the date specified in the contract.</p> <p>Applicability: The applicability of Performance security the subject tender shall be mentioned the special terms and conditions of the tender enquiry/NIT.</p> <p>Amount of Performance security: The total amount of Performance Security shall be mentioned in contract (which is usually 5% of the contract value, however this value may vary as per BHEL discretion).</p> <p>Modes of deposit:</p> <p>a) Performance security may be furnished in the following forms:</p> <p>(i) Local cheques of Scheduled Banks (subject to realization)/ Pay Order/ Demand Draft/ Electronic Fund Transfer in favour of BHEL.</p> <p>(ii) Bank Guarantee from Scheduled Banks / Public Financial Institutions as defined in the Companies Act. The Bank Guarantee format should have the approval of BHEL.</p> <p>(iii) 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).</p> <p>(iv) 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).</p> <p>(v) Insurance Surety Bond.</p> <p>(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)</p> <p>b) In case of GTE tenders, the performance security should be in the same currency as the contract and must conform to Uniform Rules for Demand Guarantees (URDG 758) – an international convention regulating international securities. Performance Security is to be furnished by a specified date (generally 14(fourteen) days after notification of the award) and it should remain valid for a period of 60 (sixty) days beyond the date of completion of all contractual obligations of the supplier, including warranty obligations.</p> <p>Forfeiture of Performance Security:</p> <p>The performance security will be forfeited and credited to BHEL's account in the event of a breach of contract by the supplier.</p> <p>Return of Performance Security:</p>

GENERAL TERMS AND CONDITIONS (GTC) OF TENDER ENQUIRY

	<p>Performance Security shall be refunded to the contractor without interest, after he duly performs and completes the contract in all respects but not later than 60(sixty) days of completion of all such obligations including the warranty under the contract.</p> <p>The Performance Security shall not carry any interest.</p>
39	BREACH OF CONTRACT, REMEDIES AND TERMINATION
	<p>In case of breach of contract, 10% of the contract value will be recovered from SD/ bank guarantee, running bills etc. or legal action may be pursued. Further, levy of liquidated damages, debarment, termination, de-scoping, short-closure, etc., shall be applied as per provisions of the contract. Wherever breach of contract is applicable Risk Purchase will not be applicable.</p>
40	Grievance Redressal Mechanism
	<p>To promote transparency and ensure fair treatment of all bidders, a structured Grievance Redressal Mechanism is in place to address any concerns or issues arising during the tendering process or in subsequent business dealings with the company.</p> <p>Suppliers/Contractors are requested to follow the below escalation process for grievance resolution:</p> <p>1.First Level: Any grievance should initially be addressed to the designated Dealing Officer, whose contact details are provided in the Notice Inviting Tender (NIT)/Contract.</p> <p>2.Second Level: If the issue remains unresolved, it may be escalated by lodging a formal grievance through the SUVIDHA Portal: https://suvidha.bhel.in/suvidha/. Responses will be provided in accordance with the defined escalation matrix.”</p>
41	Annexures

CERTIFICATE OF NO DEVIATION

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

To
Fabrication, Stamping and Insulator Plant
Bharat Heavy Electrical Limited
Jagdishpur
Amethi-227817

Dear Sir,

Subject: No-Deviation Certificate

Ref: 1) Tender Enquiry No.....
2) All other pertinent issues till date

We hereby confirm that we have not changed/ modified/materially altered any of the tender documents as downloaded from the website/ issued by BHEL and in case of such observance at any stage, it shall be treated as null and void.

We also hereby confirm that we have neither set any Terms and Conditions and nor have we taken any deviation from the Tender conditions together with other references applicable for the above referred Tender.

We further confirm our unqualified acceptance to all Terms and Conditions, unqualified compliance to Tender Conditions.

We confirm to have submitted offer in accordance with tender instructions and as per aforesaid references.

Thanking you,

Yours faithfully,

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

Date:

Place:

UNDERTAKING

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

To
Fabrication, Stamping and Insulator Plant
Bharat Heavy Electrical Limited
Jagdishpur
Amethi-227817

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:

NON-DISCLOSURE CERTIFICATE

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

I/We understand that BHEL FSIP, is committed to Information Security Management System as per their Information Security Policy.

Hence, I/We who are submitting offer for providing services to BHEL FSIP against Tender Enquiry No..... hereby undertake to comply with following in line with Information Security Policy of BHEL FSIP.

- To maintain confidentiality of documents & information which shall be used during the execution of the Contract.
- The documents & information shall not be revealed to or shared with third party which shall not be in the business interest of BHEL FSIP.

Thanking you,

(Signature, date & seal of Authorised
Signatory of bidder)

Date:

Place:

Declaration

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

To
 Fabrication, Stamping and Insulator Plant
 Bharat Heavy Electrical Limited
 Jagdishpur
 Amethi-227817

Dear Sir,

Subject: Details of related firms and their area of activities

Ref: 1) Tender Enquiry No.....

Please find below details of firms owned by our family members that are doing business/ registered for same item with BHEL,(NA, if not applicable)

1	Material Category/ Work Description	
	Name of Firm	
	Address of Firm	
	Nature of Business	
	Name of Family Member	
	Relationship	
2	Material Category/ Work Description	
	Name of Firm	
	Address of Firm	
	Nature of Business	
	Name of Family Member	
	Relationship	
...		

Note: I certify that the above information is true and I agree for penal action from BHEL in case any of the above information furnished is found to be false.

Yours faithfully,

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

Date:

Place:

Declaration

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

To
Fabrication, Stamping and Insulator Plant
Bharat Heavy Electrical Limited
Jagdishpur
Amethi-227817

Dear Sir,

Subject: Details of relation/relatives of Proprietor /Partner(s)/ Director(s) employed in BHEL

Ref: 1) Tender Enquiry No.....

I/We hereby submit the following information pertaining to relation/relatives of Proprietor /Partner(s)/ Director(s) employed in BHEL.

Tick any one as applicable:

1. The Proprietor, Partner(s), Director(s) of our Company/Firm DO NOT have any relation or relatives employed in BHEL

OR

2. The Proprietor, Partner(s), or Director(s) of our Company/Firm HAVE relation/relatives employed in BHEL and their particulars are as below:

i.

ii.

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

Note:

1. Attach separate sheet, if necessary.
2. If BHEL Management comes to know at a later date that the information furnished by the Bidder is false, BHEL reserves the right to take suitable against the Bidder.

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
Fabrication, Stamping and Insulator Plant
Bharat Heavy Electrical Limited
Jagdishpur, Amethi-227817

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/Non-Local **** 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.

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 authorised signatory of this declaration shall necessarily be the statutory auditor or cost auditor of the company (in the case of companies) or a practising 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

DECLARATION REGARDING COMPLIANCE TO RESTRICTIONS UNDER RULE 144 (xi) OF GFR 2017

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

To

Fabrication, Stamping and Insulator Plant

Bharat Heavy Electrical Limited

Jagdishpur, Amethi-227817

Sub: Declaration regarding compliance to Restrictions under Rule 144 (xi) of GFR 2017).

Ref: 1) Tender Enquiry No

2) All other pertinent issues till date

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
..... (NAME OF THE Bidder organisation), is not from such a country/ has been registered with the Competent Authority (attach valid registration by the Competent Authority, i.e., the Registration Committee constituted by the Dept. for Promotion of Industry and Internal Trade (DPIIT)).

I hereby certify that we fulfil all requirements in this regard and is eligible to be considered.

Thanking you,
Yours faithfully,

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

Note: Bidders to note that in case above certification given by a bidder, whose bid is accepted, is found to be false, then this would be a ground for immediate termination and for taking further action in accordance with law and as per BHEL guidelines.

PROFORMA OF BANK GUARANTEE FOR EARNEST MONEY
(On non-Judicial paper of appropriate value)

Bank Guarantee No-.....

Date-.....

To
Fabrication, Stamping and Insulator Plant
Bharat Heavy Electrical Limited
Jagdishpur
Amethi-227817

Dear Sirs,

In accordance with the terms and conditions of Invitation for Bids/Notice Inviting Tender Enquiry No-..... M/s..... having its registered office at (hereinafter referred to as the 'Tenderer'), is submitting its bid for the work/supply of Invited by Bharat Heavy Electrical Limited (Employer) through its unit at Fabrication, Stamping and Insulator, Jagdishpur.

The tender conditions provide that the tenderer shall pay a sum of Rs..... as Earnest Money deposit in the form therein mentioned. The form of payment of Earnest Money Deposit includes Bank Guarantee executed by a Scheduled Bank.

In lieu of the stipulations contained in the aforesaid Tender Conditions that an irrevocable and unconditional Bank Guarantee against Earnest Money Deposit for an amount of Rs is required to be submitted by the Tenderer as a condition precedent for participation in the said Tender and the Tenderer having approached us for giving the said Guarantee, we, the (Name & address of the Bank) having our Registered Office at..... (hereinafter referred to as the Bank) being the guarantor under this Guarantee, hereby irrevocably and unconditionally undertake to forthwith and immediately pay to the Employer without any demur, merely on your first demand any sum or sums of Rs..... (in words Rupees.....) without any reservation, protest, and recourse and without the beneficiary 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

We undertake to pay to the Employer any money so demanded notwithstanding any dispute or disputes raised by the Vendor/Contractor/Vendors 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 hereunder and the Tenderer shall have no claim against us for making such payment

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 Tender or to extend the time of submission of 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 Tenderer and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Tenderer or for any or forbearance, act or omission on the part of the Employer or any indulgence by the Employer to the said Tenderer 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 Tenderer and not withstanding any security or other guarantee that the Employer may have in relation to the Tenderer's liabilities.

The Guarantees shall be irrevocable and shall remain in force upto and including..... and shall be extended from time to time for such period as may be desired by the Employer.

This Guarantee shall not be determined or affected by liquidation or winding up, dissolution or change of constitution or insolvency of the Tenderer but shall in all respects and for all purposes be binding and operative until payment of all money payable to the Employer in terms hereof. However, unless a demand or claim under this guarantee is made on us in writing on or before..... We shall be discharged from all liabilities under this Guarantee.

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

Courts at Sultanpur (Uttar Pradesh) shall have exclusive jurisdiction over any matter arising out of or in connection with 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 bank under this guarantee shall not exceed
- b) This Guarantee shall be valid upto
- 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.

- d) This bank Guarantee shall be effective only when the BG message is Transmitted by the issuing bank through SFMS to the bank of beneficiary IFSC: SBIN0009072, Bank: STATE BANK OF INDIA, BRANCH: IGFC Branch, A/c no. 10405292240, A/c Name: Bharat Heavy Electricals Limited.

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/e-stamp paper shall be purchased in the name of Contractor/sub-contractor /vendor/ Bank issuing the guarantee.

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

Bank Guarantee No.....

Date.....

To
Fabrication, Stamping and Insulator Plant
Bharat Heavy Electrical Limited
Jagdishpur
Amethi-227817

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 Fabrication Stamping and Insulator Plant, Jagdishpur 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 Refs No.....and the Vendor / Contractor / Supplier having agreed to provide the a contract performance bank guarantee, equivalent to % (... percent) value of the contract to the employer for the faithful performance of the Contract.

We, AXIS BANK LIMITED, (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 a 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.....

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.

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 Sultanpur (Uttar Pradesh) 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.
- d) This bank Guarantee shall be effective only when the BG message is Transmitted by the issuing bank through SFMS to the bank of beneficiary IFSC: SBIN0009072, Bank: STATE BANK OF INDIA, BRANCH: IGFC Branch, A/c no. 10405292240, A/c Name: Bharat Heavy Electricals Limited.

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)

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/e-stamp paper shall be purchased in the name of Contractor/sub-contractor /vendor/ Bank issuing the guarantee.

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

DECLARATION FOR CONFLICT OF INTEREST

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

To

Fabrication, Stamping and Insulator Plant
Bharat Heavy Electrical Limited
Jagdishpur
Amethi-227817

Dear Sir,

Subject: Declaration for Conflict of Interest

Ref: 1) Tender Enquiry No.....

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 Authorised distributor (with/ or without the OEM). from quoting equipment manufactured by an Original Equipment Manufacturer (OEM) in procurements under a Proprietary Article Certificate.
- iv) A bidder participates in more than one bid in this tender process. Participation in any capacity by a Bidder (including the participation of a Bidder as a partner/ JV member or sub-contractor in another bid or vice-versa) in more than one bid shall result in the disqualification of all bids in which he is a party. However, this does not limit the participation of an entity as a sub-contractor in more than one bid if he is not bidding independently in his own name or as a member of a JV.

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.

Note: 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.

Thanking you,

Yours faithfully,

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

Date:

Place:

DECLARATION FOR OWNERSHIP STATUS OF MSE

(To be filled and Submitted in the Letter Head of the Company/Firm of Bidder)

To
 Fabrication, Stamping and Insulator Plant
 Bharat Heavy Electrical Limited
 Jagdishpur
 Amethi-227817

Dear Sir,

Subject: Declaration for ownership status

Ref: 1) Tender Enquiry No.....

Bidder falling under MSE category shall furnish the following details & submit documentary evidence/ Govt. Certificate (UDYAM) etc. in support of the same along with their techno-commercial offer.

Type under MSE	SC/ST Owned	Women Owned	Others (excluding SC/ST & Women Owned)
Micro			
Small			

Note: If the bidder does not furnish the above in the tender, offer shall be processed construing that the bidder is not falling under MSE category.

Thanking you,

Yours faithfully,

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

Date:

Place: