

# **Bharat Heavy Electricals Limited**

# Heavy Equipment Repair Plant

Tarna Shivpur Varanasi-221003 website: <a href="https://herp.bhel.com">https://herp.bhel.com</a>

Enquiry Number: E-RC-304-25-0181-61-1 Date: 18/Oct/2025

#### **Enquiry For Material:-**

SI No	Material Description	Material Code	Quantity	Unit
1	SEAL RUNNER ASSLY (HY-207.02) - FULLY M/CD ITEM AS PER DRG. 26118000611/04 WITH MATL AS PER SPECN. AA10119/15	RV1019919221	100.0	NOS.
2	SEAL RUNNER ASSY. (HY-259.B) - FULLY M/CD ITEM AS PER DRG. 26117001086/01 WITH MATL. AS PER SPECN. AA10119/15	RV1019919418	20.0	NOS.
	SEAL RUNNER ASSLY (HY-918.01) - FULLY M/CD ITEM AS PER DRG. 26118802142/04 WITH MATL AS PER SPECN. AA10119/15	RV1019922018	20.0	NOS
4	SEAL WEAR RING (HY-802.03) AS PER DRG. 36108000964/00 WITH MATL. AS PER SPECN. HY-19366/01 OR SA 106 Gr.'B'	RV1045955078	30.0	NOS
5	WEAR SLEEVE 'VAR-02' OR 'VAR-03' (HY-816.00) - FULLY M/CD ITEM AS PER DRG. 36118000863/05 WITH MATL AS PER SPECN. AA19332/10 OR AA10455	RV1045955442	50.0	NOS
6	JR. HEAD INSERT (HY-1102.19) - QUENCHED AND TEMPERED AS PER DRG. 46100402192/00 WITH MATL SPECN. HY10561/04	RV1055901051	20.0	NOS
7	SP.STUD INSERT (HY-339.04) - FULLY M/CD ITEM AS PER DRG. 36130000694/03 WITH MATL. AS PER SPECN. HY-10565/03	RV1055965025	50.0	NOS
8	THRUST PLATE - T.E. (HY-311.A.37) - FULLY M/CD FORGING AS PER DRG. 46100000663/04 WITH MATL AS PER SPECN. HY19366/01	RV1930166036	100.0	NOS.
9	SEAL WEAR RING (HY-215.A.53) - FULLY M/CD ITEM AS PER DRG. 36108002400/00 WITH MATL AS PER SPECN. HY-19366/01	RV1930166044	250.0	NOS.
	SEAL WEAR RING (HY-311.A.17) - FULLY M/CD HARD CROME PLATED SEAL WEAR RING AS PER DRG. 36100000544/02 WITH MATL AS PER SPECN. HY- 19366/01	RV1930166052	50.0	NOS
	SEAL WEAR RING (HY-312.A.07) 'VAR-01 OR VAR-02' - FULLY M/CD ITEM AS PER DRG. 36100000668/05 WITH MATL AS PER SPECN. HY-19366/01 OR AA19511/09	RV1930166060	300.0	NOS.
12	SEAL WEAR RING (HY-1101.21) - FULLY M/CD ITEM AS PER DRG. 26100402257/01 WITH MATL. HY-19366/01 OR PIPE AS PER SPECN. AA10455/10(BHEL MATL. CODE 26100402257-02)	RV1930166095	30.0	NOS
13	THRUST PLATE - T.E. (HY-1102.05) - FULLY M/CD ITEM AS PER DRG. 46100402190/00 WITH MATL AS PER SPECN. HY19366/01	RV1930166109	10.0	NOS
14	FULLY MACHINED AND CARBURISED JOURNAL HEAD INSERT (HY-313.18) AS PER DRG. 36100000628/05 WITH MATL AS PER SPECN. HY19366/01	RV1935966049	25.0	NOS
15	SEAL WEAR RING (HY-902.19) - FULLY M/CD ITEM AS PER DRG. 36108802132/02 WITH MATL AS PER SPECN. HY19366/01	RV1935966057	100.0	NOS
16	JOURNAL HEAD INSERT - FULLY M/CD & CARBURISED ITEM AS PER DRG 36109600297/00 WITH MATL AS PER SPECN. HY19366/01	RV1935966073	20.0	NOS
17	THRUST PLATE - T.E. (HY-97.00) - FULLY M/CD FORGING AS PER DRG. 36137600091/05 WITH MATL AS PER SPECN. HY19366/01	RV9930166010	50.0	NOS.

#### **Remarks**

(A) SCOPE OF SUPPLY:-

1. THIS ENQUIRY HAS BEEN RAISED FOR ENTERING INTO FRAMEWORK AGREEMENT (VALUE WISE) WITH VENDORS FOR M/CD COMPONENTS WITH CASE CARBURISING / HARD CHROME PLATING. SEPARATE PO WILL BE GIVEN TIME TO TIME AS PER REQUIREMENT, UNDER THIS RC. ITEM QUANTITY MENTIONED IN THE ENQUIRY IS TENTATIVE & IT MAY INCREASE OR DECREASE AS PER OUR FINAL REQUIREMENT.

2.THE % WEIGHTAGE FOR CALCULATING TOTAL COST OF INDIVIDUAL ITEM HAS BEEN ARRIVED CONSIDERING INDIVIDUAL ITEM'S CONTENT IN TOTAL ESTIMATED COST OF ALL THE ENQUIRY ITEMS. THE % WEIGHTAGE WILL BE AS PER ANNEXURE-IV

- 3. VALUE WISE MEANS FA WILL DONE ON SINGLE SET BASIS FOR ALL THE 17 ITEMS WITH THEIR FULL QUANTITY AND NOT QUANTITY OF INDIVIDUAL ITEM.
- 4. RATE FOR INDIVIDUAL ITEM WILL BE ARRIVED AS PER PERCENTAGE WEIGHTAGE MENTIONED IN ANNEXURE IV-ATTACHED.
- 5. RATES OF ITEMS AGAINST FA WILL BE FIRM & VALID FOR ORDERING FOR A PERIOD OF ONE YEAR FROM THE DATE OF AGREEMENT. PRICE VARIATION CLAUSE (PVC) IS NOT ACCEPTABLE.
- 6. VENDOR HAS TO QUOTE FOR ALL THE 17 ITEMS OF TENDER ENQUIRY COMPULSORILY. IN CASE, ANY VENDOR QUOTES FOR PART ITEM, THEIR OFFER WILL NOT BE CONSIDERED FOR FURTHER EVALUATION.
- 7. L-1 VENDOR WILL BE DECIDED ON TOTAL COST ON SET BASIS.
- 8. RC QTY AGAINST EACH ITEM IS INDICATIVE ONLY. PO WILL BE PLACED BASED ON ACTUAL REQUIREMENT IRRESPECTIVE OF RC QUANTITY NOT EXCEEDING THE TOTAL RATE CONTRACT VALUE.

AFTER FINALIIZATION OF RATE CONTRACT, PO QUANTITY WILL BE PLACED AS PER REQUIREMENT.

REMARKS FOR RV1019919221, RV1019919418, RV1019922018, RV1045955078, RV1045955442, RV1930166044, RV1930166052, RV1930166060, RV1930166095 & RV1935966057

#### (A) SUPPLY CONDITION:

- 1. ITEM TO BE SUPPLIED AT HERP STORES.
- 2. PRE-DESPATCH INSPECTION TO BE CARRIED OUT AS PER QUALITY PLAN NO. RV/MCD/23.A REV02 AT PARTY'S WORK BY BHEL REPRESENTATIVE.

#### (B) TECHNICAL DELIVERY CONDITION:

- 1. MATERIAL IS TO BE SUPPLIED AS PER ITEM DESCRIPTION.
- 2. DIMENTIONS AND TOLERANCES TO BE MAINTAINED AS PER DRAWING.
- 3. UST OF THE FORGING TO BE DONE AS PER SPECN. AA0850118 CAT.02.
- 4. CHROME PLATING TO BE DONE AS PER DRG.
- 5. ALL THE TECHNICAL REMARKS MENTIONED IN THE DRG MUST BE FULFILLED.
- 6. DIMENSIONS REPORT IS REQUIRED.
- (C) TEST CERTIFICATE: REQUIRED FOR CHEMICAL & MECHANICAL PROPERTIES, UST AND HARDNESS AFTER CHROME PLATING.
- (D) GUARANTEE CERTIFICATE: REQUIRED FOR 24 MONTHS AGAINST ANY MANUFACTURING DEFECTS FROM THE DATE OF RECIPT AT BHEL HERP.
- (E) PACKING INSTRUCTIONS: EACH SEAL WEAR RINGS & SEAL RUNNER ASSLY SHALL BE WRAPPED IN PUF SHEET AND EACH LOT SHALL BE PACKED IN WOODEN BOXES OF 1" PLANK AND 1.5" BRACKETS. QTY OF LOT SHOULD BE SUITABLY SELECTED AS PER CAPACITY OF WOODEN BOX. ANY SEAL WEAR RINGS & SEAL RUNNER ASSLY SHALL BE REJECTED IF DENTS ARE OBSERVED AFTER UNPACKING AT OUR WORKS.THEREFORE, PROPER CARE MUST BE TAKEN IN PACKING AND HANDLING DURING TRANSIT."

REMARKS FORFOR RV1055901051,RV1055965025, RV9930166010, RV1930166036, RV1930166109, RV1935966049 & RV1935966073

#### (A) SUPPLY CONDITION

- 1. ITEMS ARE TO BE SUPPLIED AT HERP STORES.
- 2. PRE-DESPATCH INSPECTION TO BE CARRIED OUT AS PER QUALITY PLAN NO. RV/C&F/23 REV 02 AT PARTY'S WORKS BY BHEL REPRESENTATIVE.

#### (B) TECHNICAL DELIVERY CONDITION:

- 1. MATERIAL IS TO BE SUPPLIED AS PER SPECN MENTIONED IN THE DESCRIPTION.
- 2. DIMENTIONS AND TOLERANCES TO BE MAINTAINED AS PER DRAWING.
- 3. UST OF FORGINGS TO BE DONE AS PER SPECN. AA0850118 CAT.02.
- 4. CARBURIZING IS TO BE DONE AS PER DRG.
- 5. ALL NOTES MENTIONED ON THE DRAWING SHOULD BE STRICTLY FOLLOWED.
- (C) TEST CERTIFICATE: REQUIRED FOR CHEMICAL & MECHANICAL PROPERTIES AND HARDNESS AFTER CARBURIZING. CARBURIZING THICKNESS SHOULD BE MAINTAINED AS PER DRG. CERTIFICATE REGARDING TEST RESULT OF UST IS ALSO REQUIRED.

- (D) GUARANTEE CERTIFICATE: REQUIRED FOR 24 MONTHS AGAINST ANY MANUFACTURING DEFECTS FROM THE DATE OF RECIPT AT BHEL HERP.
- (E) "PACKING INSTRUCTION: EACH ITEMS SHALL BE WRAPPED IN PUF SHEET AND EACH LOT SHALL BE PACKED IN WOODEN BOXES OF 1" PLANK AND 1.5" BRACKETS. QTY OF LOT SHOULD BE SUITABLY SELECTED AS PER CAPACITY OF WOODEN BOX. ANY ITEM SHALL BE REJECTED IF DENTS ARE OBSERVED AFTER UNPACKING AT OUR WORKS.THEREFORE, PROPER CARE MUST BE TAKEN IN PACKING AND HANDLING DURING TRANSIT."
- (F) RATE CONTRACT VALIDITY: FOR 1 (ONE) YEAR FROM THE RC-PO DATE.
- (G) SPECIAL REMARKS:
- 1. ITEM WISE MAXIMUM QTY IN EACH LOT (WHICH MAY BE REQUIRED IN A PARTICULAR ORDER) WILL BE AS MENTIONED IN RC-LOT- BA07-05. THERE WILL BE A GAP OF 01 MONTH BETWEEN TWO CONSECUTIVE LOTS.
- 2 .DELIVERY IS WITHIN 120 DAYS FROM DATE OF PO FOR FIRST LOT.
- (H) SPLITTING CONDITION:
- 1. THERE WILL BE SPLITTING BETWEEN TWO VENDORS IN THE RATIO OF L1:L2::60:40.
- 2. THE EQUATED L1 RATES OF ITEMS WOULD BE COUNTER OFFERED TO THE NEXT HIGHER BIDDER IN ORDER OF THEIR RANKING AND THE QUANTITY WOULD BE GIVEN TO THE BIDDER WHO ACCEPT THE EQUATED L1 PRICE ON THE BASIS OF THEIR RANKING IN THE PRICE BID.
- 3. IF NONE OF THE OTHER BIDDERS ACCEPT THE L1 PRICE, THEN THE ENTIRE QUANTITY OF THE TENDER WOULD BE ORDERED TO THE ORIGINAL L1 PARTY ONLY.
- 4. AT ANY POINT OF TIME OR IF THE PERFORMANCE OF ANY VENDOR IS FOUND UNSATISFACTORY, THE ABOVE DISTRIBUTION RATIO MAY BE CANCELLED OR CHANGED BY BHEL AND ITEMS MAY BE PROCURED FROM PERFORMING VENDORS.
- (I) REVERSE AUCTION (RA) WILL NOT BE CONDUCTED.
- (J) IN ORDER TO AVAIL BENEFITS OF MSE UNDER VARIOUS CATEGORIES, ALL BIDDERS FALLING UNDER MSE CATEGORY SHALL FURNISH THE FOLLOWING DETAILS & SUBMIT DOCUMENTARY EVIDENCE/ GOVT. CERTIFICATE ETC. IN SUPPORT OF THE SAME ALONG WITH THEIR TECHNO-COMMERCIAL OFFER AS PER ANNEXURE? MSES 2012 REV 01 ATTACHED.

(K)ALL OTHER TERMS AND CONDITIONS SHALL BE AS PER THE GTC ATTACHED WITH ENQUIRY (PARTY HAVE TO STRICTLY ADHERE THESE TERMS & CONDITIONS).

List of required Quality Documents along with supply:-

S.No	Material Code	Material Description	Documents Description				
1	RV9930166010	THRUST PLATE -T.E. HY-97.00	<ol> <li>Dimension Report</li> <li>Guarantee Certificates</li> <li>Inspection Report by TPI/BHEL</li> <li>Test Certificates Chemical Properties</li> <li>Test Certificates-Mechanical Properties</li> <li>UT Report</li> </ol>				
Note	Note: Any other document mentioned in QP/Drg/Spec will also be applicable						

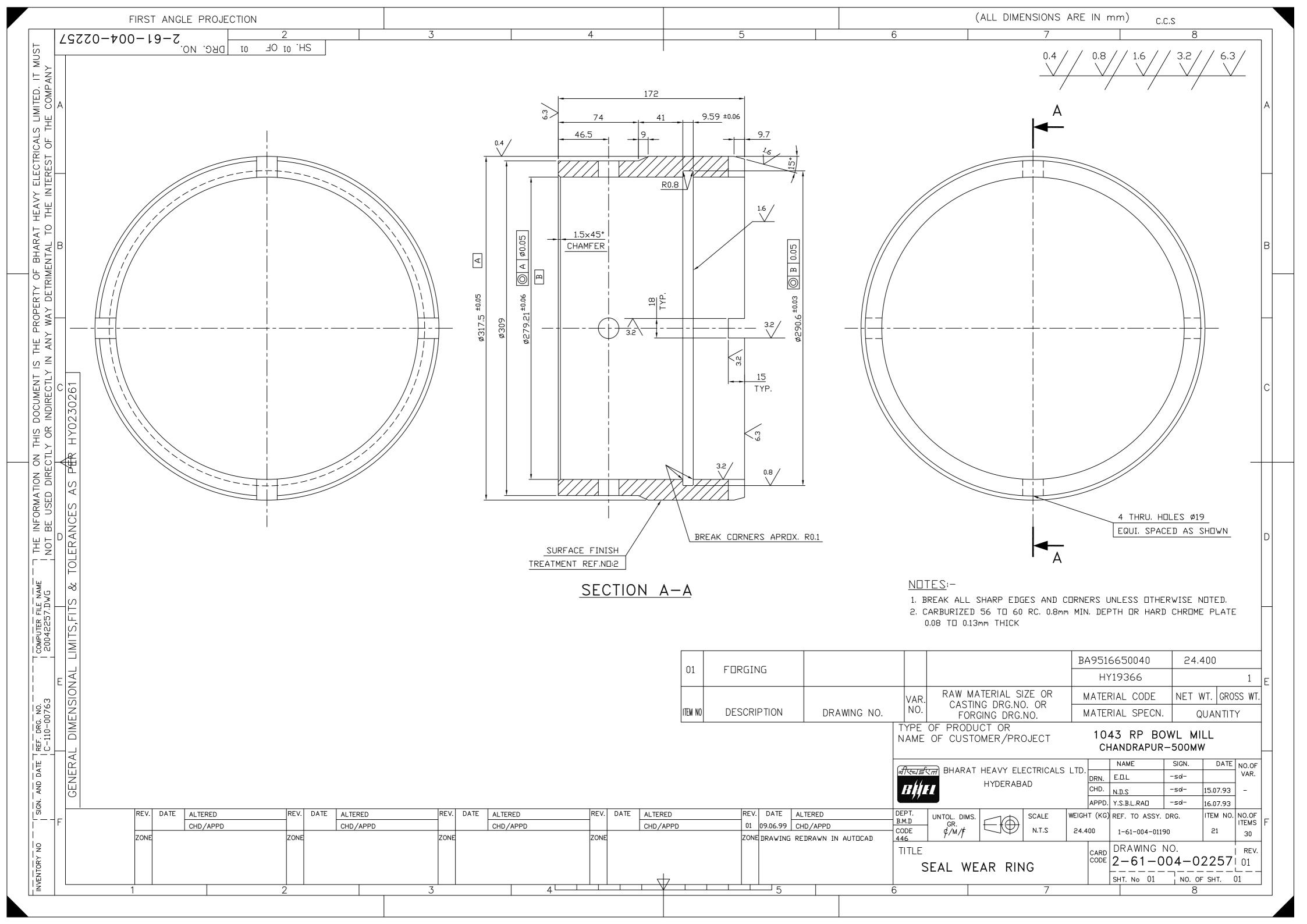
# **ANNEXURE IV**

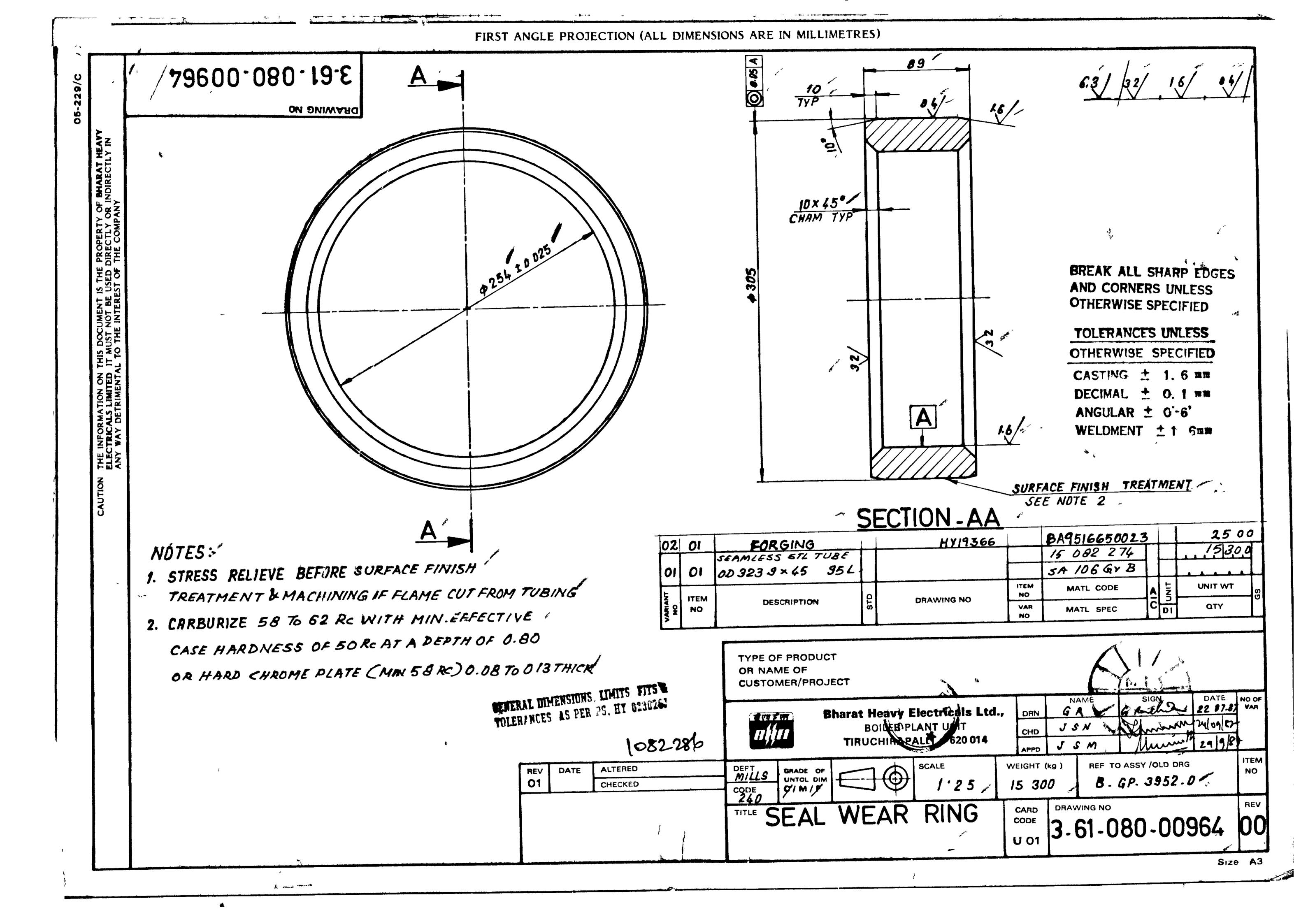
SR No	MATERIAL CODE	ITEM DESCRIPTION	QTY	% WEIGHTAGE
1	RV1019919221	SEAL RUNNER ASSLY (HY-207.02) - FULLY M/CD ITEM AS PER DRG. 26118000611/04 WITH MATL AS PER SPECN. AA10119/15	100	15.0%
2	RV1019919418	SEAL RUNNER ASSY. (HY-259.B) - FULLY M/CD ITEM AS PER DRG. 26117001086/01 WITH MATL. AS PER SPECN. AA10119/15	20	7.5%
3	RV1019922018	SEAL RUNNER ASSLY (HY-918.01) - FULLY M/CD ITEM AS PER DRG. 26118802142/04 WITH MATL AS PER SPECN. AA10119/15	20	6.2%
4	RV1045955078	SEAL WEAR RING (HY-802.03) AS PER DRG. 36108000964/00 WITH MATL. AS PER SPECN. HY-19366/01 OR SA 106 Gr.'B'	30	2.4%
5	RV1045955442	WEAR SLEEVE 'VAR-02' OR 'VAR-03' (HY-816.00) - FULLY M/CD ITEM AS PER DRG. 36118000863/05 WITH MATL AS PER SPECN. AA19332/10 OR AA10455	50	2.4%
6	RV1930166044	SEAL WEAR RING (HY-215.A.53) - FULLY M/CD ITEM AS PER DRG. 36108002400/00 WITH MATL AS PER SPECN. HY-19366/01	250	14.7%
7	RV1930166052	SEAL WEAR RING (HY-311.A.17) - FULLY M/CD HARD CROME PLATED SEAL WEAR RING AS PER DRG. 36100000544/02 WITH MATL AS PER SPECN. HY-19366/01	50	4.2%
8	RV1930166060	SEAL WEAR RING (HY-312.A.07) 'VAR-01 OR VAR-02' - FULLY M/CD ITEM AS PER DRG. 36100000668/05 WITH MATL AS PER SPECN. HY-19366/01 OR AA19511/09	300	23.4%
9	RV1930166095	SEAL WEAR RING (HY-1101.21) - FULLY M/CD ITEM AS PER DRG. 26100402257/01 WITH MATL. HY-19366/01 OR PIPE AS PER SPECN. AA10455/10	30	2.8%
10	RV1935966057	SEAL WEAR RING (HY-902.19) - FULLY M/CD ITEM AS PER DRG. 36108802132/02 WITH MATL AS PER SPECN. HY19366/01	100	8.6%
11	RV1055901051			0.3%
12	RV1055965025	SP.STUD INSERT (HY-339.04) - FULLY M/CD ITEM AS PER DRG. 36130000694/03 WITH MATL. AS PER SPECN. HY-10565/03	50	0.6%
13	RV9930166010	THRUST PLATE - T.E. (HY-97.00) - FULLY M/CD FORGING AS PER DRG. 36137600091/05 WITH MATL AS PER SPECN. HY19366/01	50	2.7%

14	RV1930166036	THRUST PLATE - T.E. (HY-311.A.37) - FULLY M/CD FORGING	100	5.7%
		AS PER DRG. 46100000663/04 WITH MATL AS PER SPECN.		
		HY19366/01		
15	RV1930166109	THRUST PLATE - T.E. (HY-1102.05) - FULLY M/CD ITEM AS	10	0.8%
		PER DRG. 46100402190/00 WITH MATL AS PER SPECN.		
		HY19366/01		
16	RV1935966049	FULLY MACHINED AND CARBURISED JOURNAL HEAD INSERT	25	0.6%
		(HY-313.18) AS PER DRG. 36100000628/05 WITH MATL AS		
17	RV1935966073	JOURNAL HEAD INSERT - FULLY M/CD & CARBURISED ITEM	20	2.1%
		AS PER DRG 36109600297/00 WITH MATL AS PER SPECN.		
		HY19366/01		

# **RC-LOT- BA07/05**

SR No	MATERIAL CODE	ITEM DESCRIPTION	QTY	MAX LOT QTY
1	RV1019919221	SEAL RUNNER ASSLY (HY-207.02) - FULLY M/CD ITEM AS PER DRG.	100	25
		26118000611/04 WITH MATL AS PER SPECN. AA10119/15		
2	RV1019919418	SEAL RUNNER ASSY. (HY-259.B) - FULLY M/CD ITEM AS PER DRG.	20	10
		26117001086/01 WITH MATL. AS PER SPECN. AA10119/15		
3	RV1019922018	SEAL RUNNER ASSLY (HY-918.01) - FULLY M/CD ITEM AS PER DRG.	20	10
		26118802142/04 WITH MATL AS PER SPECN. AA10119/15		
4	RV1045955078	SEAL WEAR RING (HY-802.03) AS PER DRG. 36108000964/00 WITH	30	10
		MATL. AS PER SPECN. HY-19366/01 OR SA 106 Gr.'B'		
5	RV1045955442	WEAR SLEEVE 'VAR-02' OR 'VAR-03' (HY-816.00) - FULLY M/CD ITEM	50	20
		AS PER DRG. 36118000863/05 WITH MATL AS PER SPECN.		
6	RV1930166044	SEAL WEAR RING (HY-215.A.53) - FULLY M/CD ITEM AS PER DRG.	250	50
		36108002400/00 WITH MATL AS PER SPECN. HY-19366/01		
7	RV1930166052	SEAL WEAR RING (HY-311.A.17) - FULLY M/CD HARD CROME PLATED	50	20
		SEAL WEAR RING AS PER DRG. 36100000544/02 WITH MATL AS PER		
8	RV1930166060	SEAL WEAR RING (HY-312.A.07) 'VAR-01 OR VAR-02' - FULLY M/CD	300	50
		ITEM AS PER DRG. 36100000668/05 WITH MATL AS PER SPECN. HY-		
9	RV1930166095	SEAL WEAR RING (HY-1101.21) - FULLY M/CD ITEM AS PER DRG.	30	10
		26100402257/01 WITH MATL. HY-19366/01 OR PIPE AS PER SPECN.		
10	RV1935966057	SEAL WEAR RING (HY-902.19) - FULLY M/CD ITEM AS PER DRG.	100	20
		36108802132/02 WITH MATL AS PER SPECN. HY19366/01		
11	RV1055901051	JR. HEAD INSERT (HY-1102.19) - QUENCHED AND TEMPERED AS PER	20	5
		DRG. 46100402192/00 WITH MATL SPECN. HY10561/04		
12	RV1055965025	SP.STUD INSERT (HY-339.04) - FULLY M/CD ITEM AS PER DRG.	50	10
		36130000694/03 WITH MATL. AS PER SPECN. HY-10565/03		
13	RV9930166010	THRUST PLATE - T.E. (HY-97.00) - FULLY M/CD FORGING AS PER DRG.	50	10
		36137600091/05 WITH MATL AS PER SPECN. HY19366/01		
14	RV1930166036	THRUST PLATE - T.E. (HY-311.A.37) - FULLY M/CD FORGING AS PER	100	20
		DRG. 46100000663/04 WITH MATL AS PER SPECN. HY19366/01		
15	RV1930166109	THRUST PLATE - T.E. (HY-1102.05) - FULLY M/CD ITEM AS PER DRG.	10	5
	100100103	46100402190/00 WITH MATL AS PER SPECN. HY19366/01	10	
16	RV1935966049	FULLY MACHINED AND CARBURISED JOURNAL HEAD INSERT (HY-	25	5
10	1111333300013	313.18) AS PER DRG. 36100000628/05 WITH MATL AS PER SPECN.	23	
17	D) // 025066072	· ·	20	
17	RV1935966073	JOURNAL HEAD INSERT - FULLY M/CD & CARBURISED ITEM AS PER DRG 36109600297/00 WITH MATL AS PER SPECN. HY19366/01	20	5





SECTION - DD RUTATED 90° C/CLUCKVISE

FIRST ANGLE PROJECTION

□ 0.04 SEE VIEW 'CC'

ELECTRICALS LIMITED.
REST OF THE COMPANY

HEAVY

BHARAT DETRIMENTAL

¥¥

PRUPERTY

붙

ON THIS DOCUMENT IS USED DIRECTLY OR INDIF

INFORMATION (UST NOT BE U

뿔 ╘

COMP FILE NAME TREF. DRG. NO.

INVENTORY NO

CI\DVG\SEAL

DRG. NO. 2-61-170-01086

PIR NO VEND NO

12.5/

R0.8

3X30° CHAM

20

K. SEE

NOTE:1

.5X45° CHAM

SECTION AA

NOTES HARD CHROME PLATE THIS SURFACE TO 60-65 RC.0.08-0.125 THICKNESS TO REMAIN AFTER FINISH MACHINING.

FINISH MACHINING AFTER JOINING THE TWO HALFS WITH ITEMS 2 & 3.

3. DO NOT USE LOCTITE AT THIS ASSEMBLY.

PARTS MUST STAY TOGETHER AS SET.

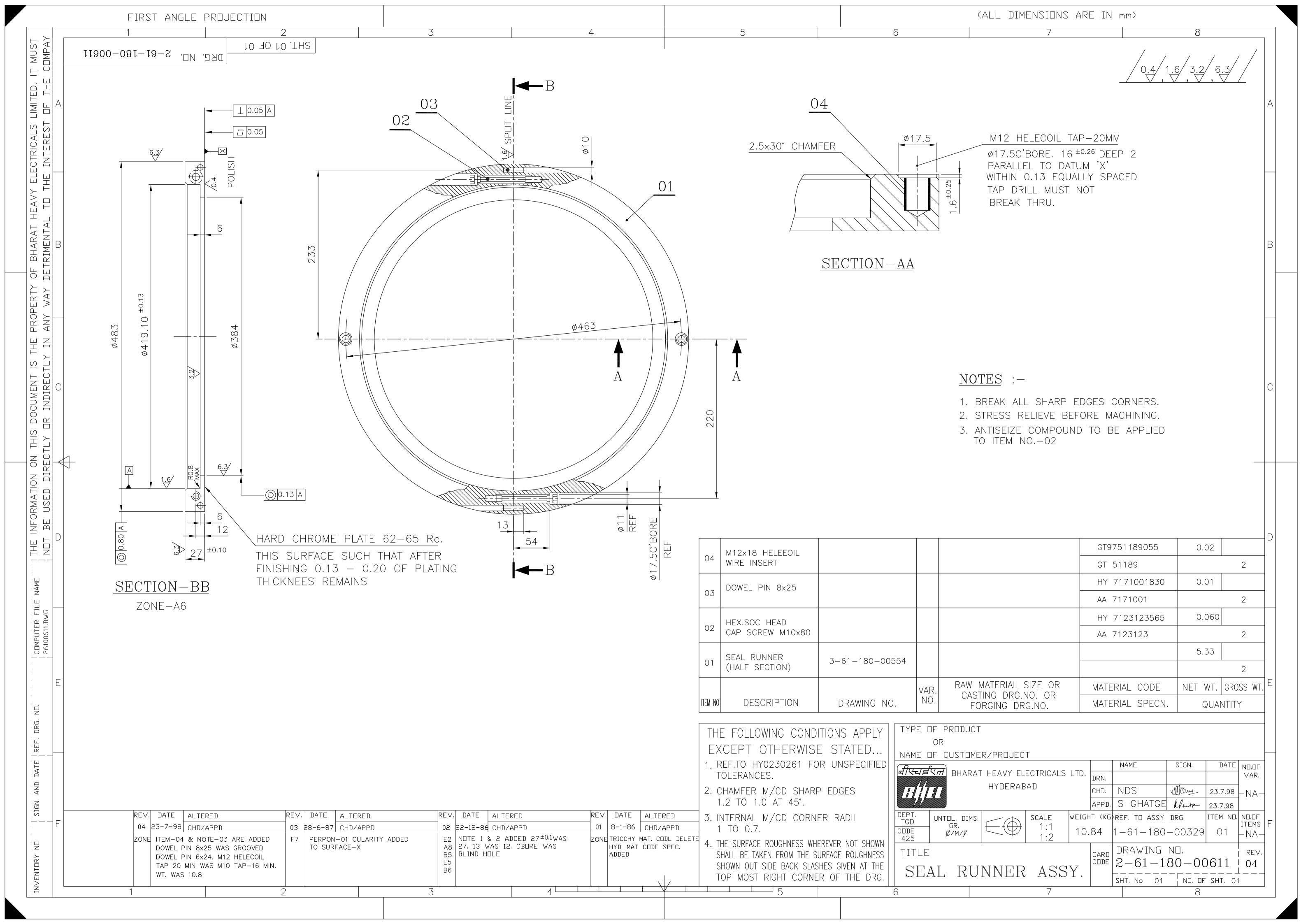
TYPE OF PRODUCT NAME OF CUSTOMER/PROJECT

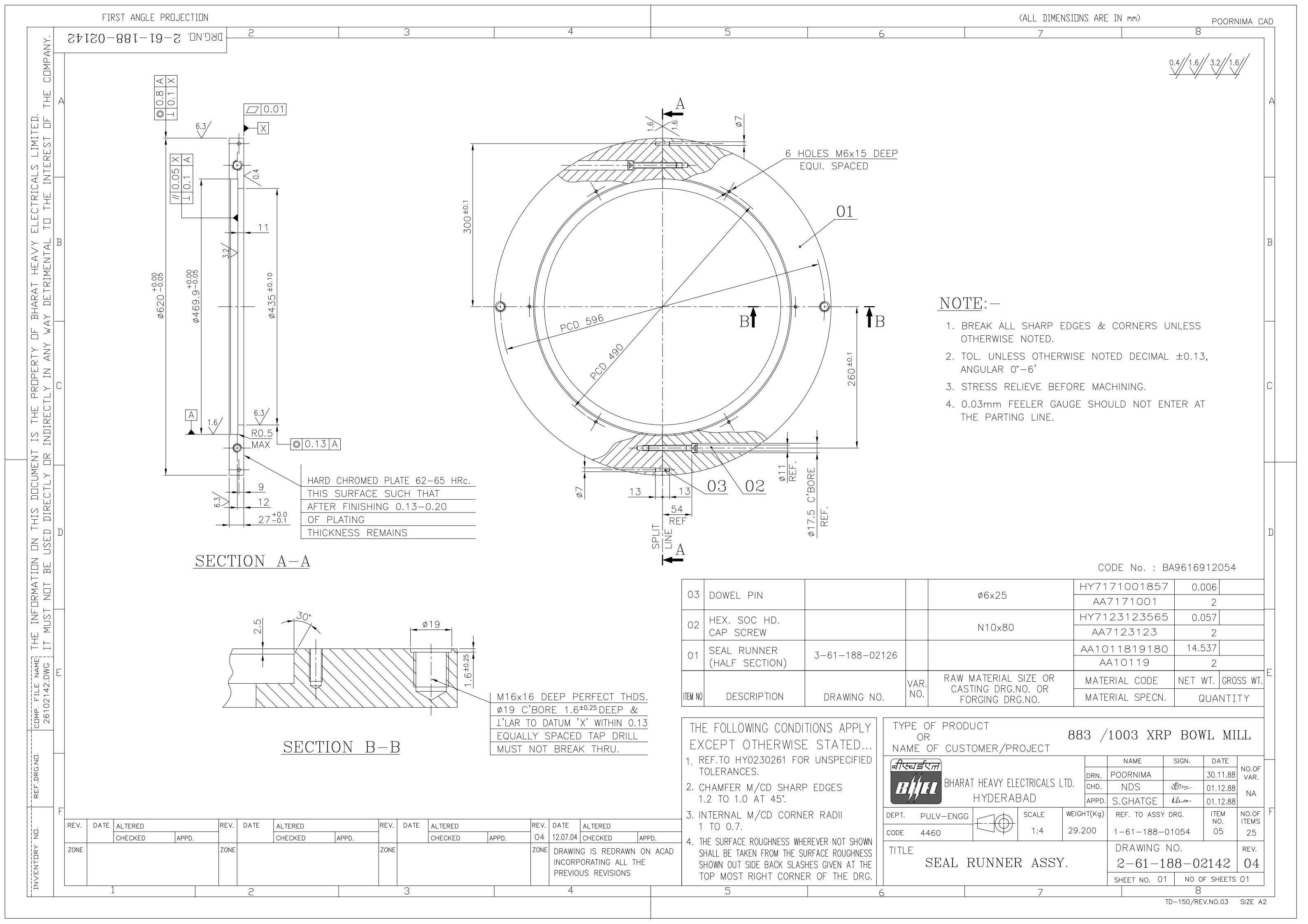
BHARAT HEAVY ELECTRICALS LTD. DRN. HYDERABAD CHD. BURALI \$211.05 SCALE WEIGHT (KG) HO. 37.280 C - 74 - 684

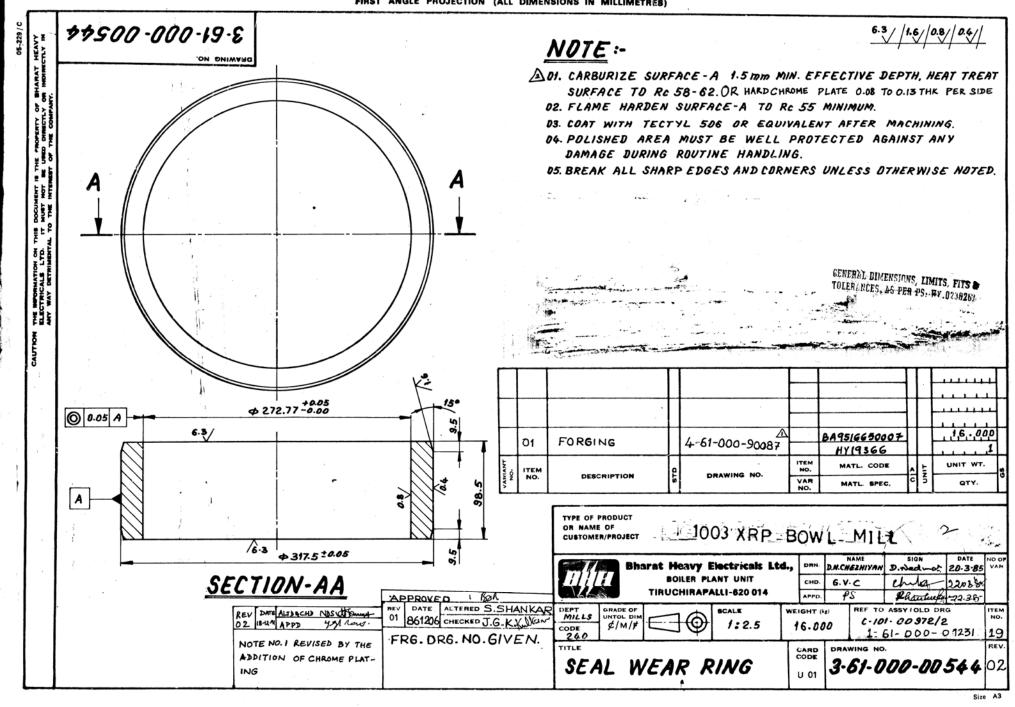
N.T.S. DRAVING RETRACED TITLE SEAL RUNNER ASSEMBLY

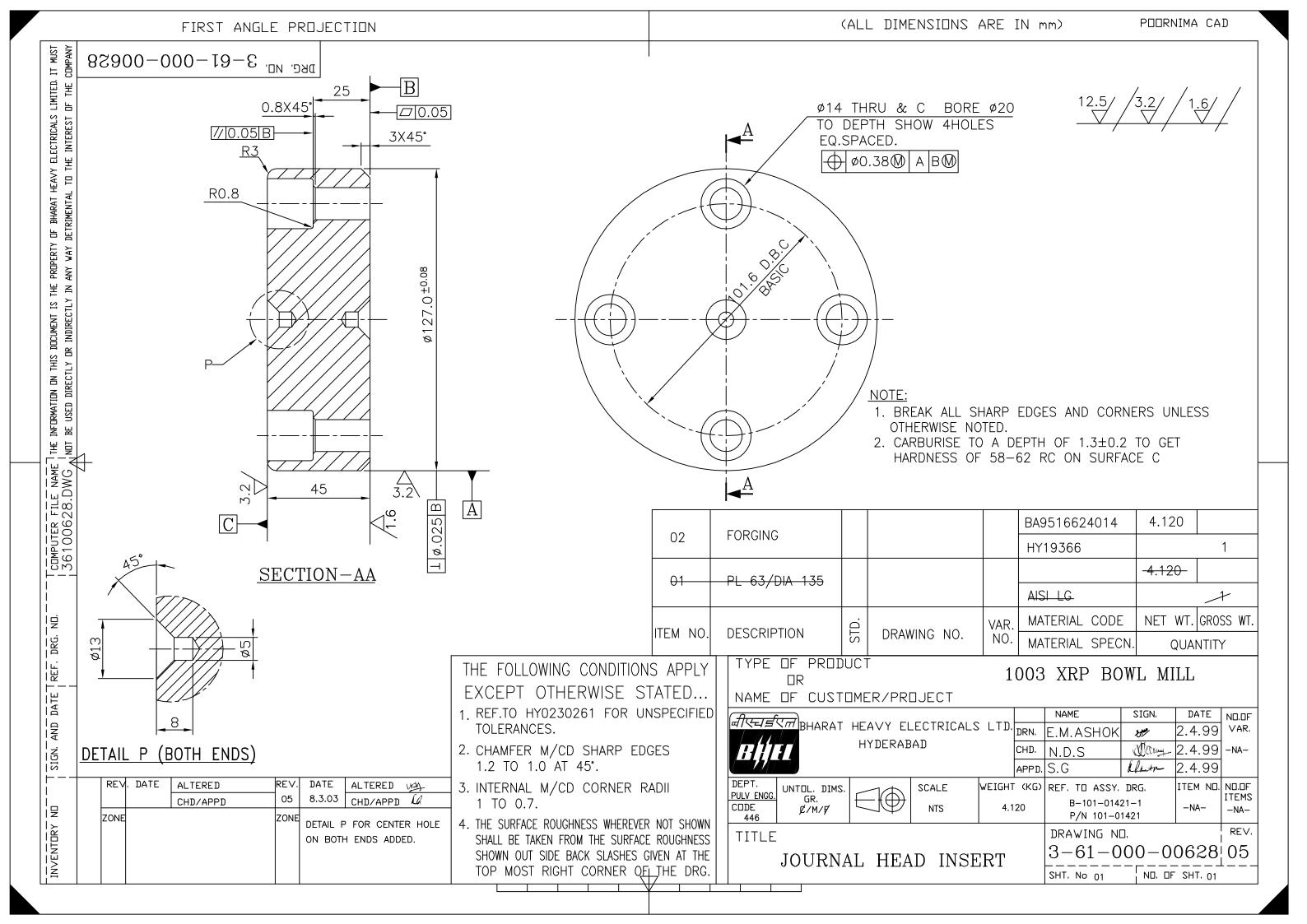
DRAWING NO. 2.61.170.01086 SHEET NO. 01 U 01

01





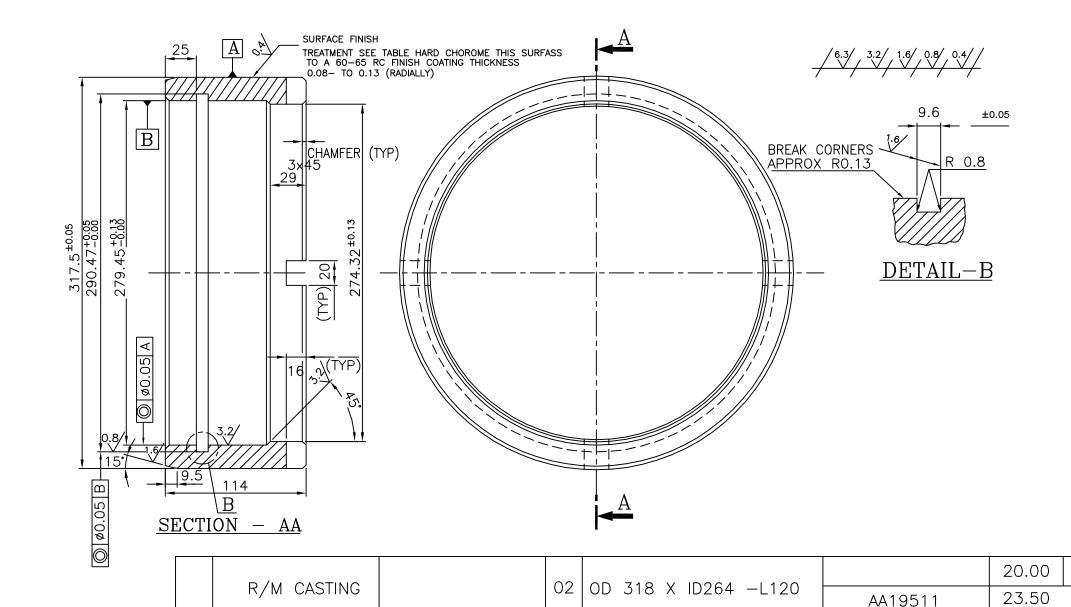




# .DWG

36100668.[ FILE NAME

# 000-000-19-61



### NOTES:-

- 01. MACHINE ALL SURFACES TO UNLESS OTHERWISE NOTED.
- 02. STRESS RELIEVE BEFORE SURFACE FINISH TREATMENT & MACHINING IF FLAME CUT FROM TUBING OR PLATE.
- 03. BREAK ALL SHARP EDGES AND CORNERS UNLESS OTHERWISE NOTED.
- 04. CASTING (VAR 02) TO BE OF UT QUALITY. CARRY OUT UT AS PER AA0850104 ACCEPTANCE LEVEL II.
- 05. FOR CASTING (VAR 02) CARRY OUT LPI ON OUTER SURFACE BEFORE CHROME PLATING.

<u>-</u>	REV.	DATE	ALTERED		REV.	DATE	ALTERED	
<u>-</u>	05	2.1.05	CHD.	APPD.	04		CHD.	APPD.
NVENTOR	ZONE	VARIANT CORREC	NOS 01 & 02 S TLY.	SHOWN	ZONE	NOTE 4	02 ADDED. & 5 FOR ADDE PLOTTED	D.

THE FOLLOWING CONDITIONS APPLY EXCEPT OTHERWISE STATED ..

- 1. REF.TO HY0230261 FOR UNSPECIFIED TOLERANCES.
- 2. CHAMFER M/CD SHARP EDGES 1.2 TO 1.0 AT 45°.

**FORGING** 

DESCRIPTION

ITEM NO

- 3. INTERNAL M/CD CORNER RADII 1 TO 0.7.
- 4. THE SURFACE ROUGHNESS WHEREVER NOT SHOWN SHALL BE TAKEN FROM THE SURFACE ROUGHNESS SHOWN OUT SIDE BACK SLASHES GIVEN AT THE TOP MOST RIGHT CORNER OF THE DRG.

TYPE OF PRODUCT

VAR

NO.

DRAWING NO.

1003 XRP BOWL MILL

BA9516650074

HY19366

MATERIAL CODE

MATERIAL SPECN.

NAME OF CUSTOMER/PROJECT

बीएचईएल					NAME	SIGN.	DATE	NO.OF
	T 115 A) 07 51 5		TD	DRN.	UNIC		03.08.96	VAR.
			CHD.	B.M.R		30.08.97		
	HYDERAE	BAD		APPD.	K.M.R	MF	30.08.97	NA
DEPT. PULV ENGG.		SCALE	WEIGH	T (KG)			ITEM NO.	NO.OF
CODE 446		1:2.5	20	.00	B-101-01   CE PART No.1		NA NA	NA
TITLE	•		•		DRAWING NO.			REV.
	TATION		- T /	$\sim$				05

SEAL WEAR RING

4-61-000-90087

RAW MATERIAL SIZE OR

CASTING DRG.NO. OR

FORGING DRG.NO.

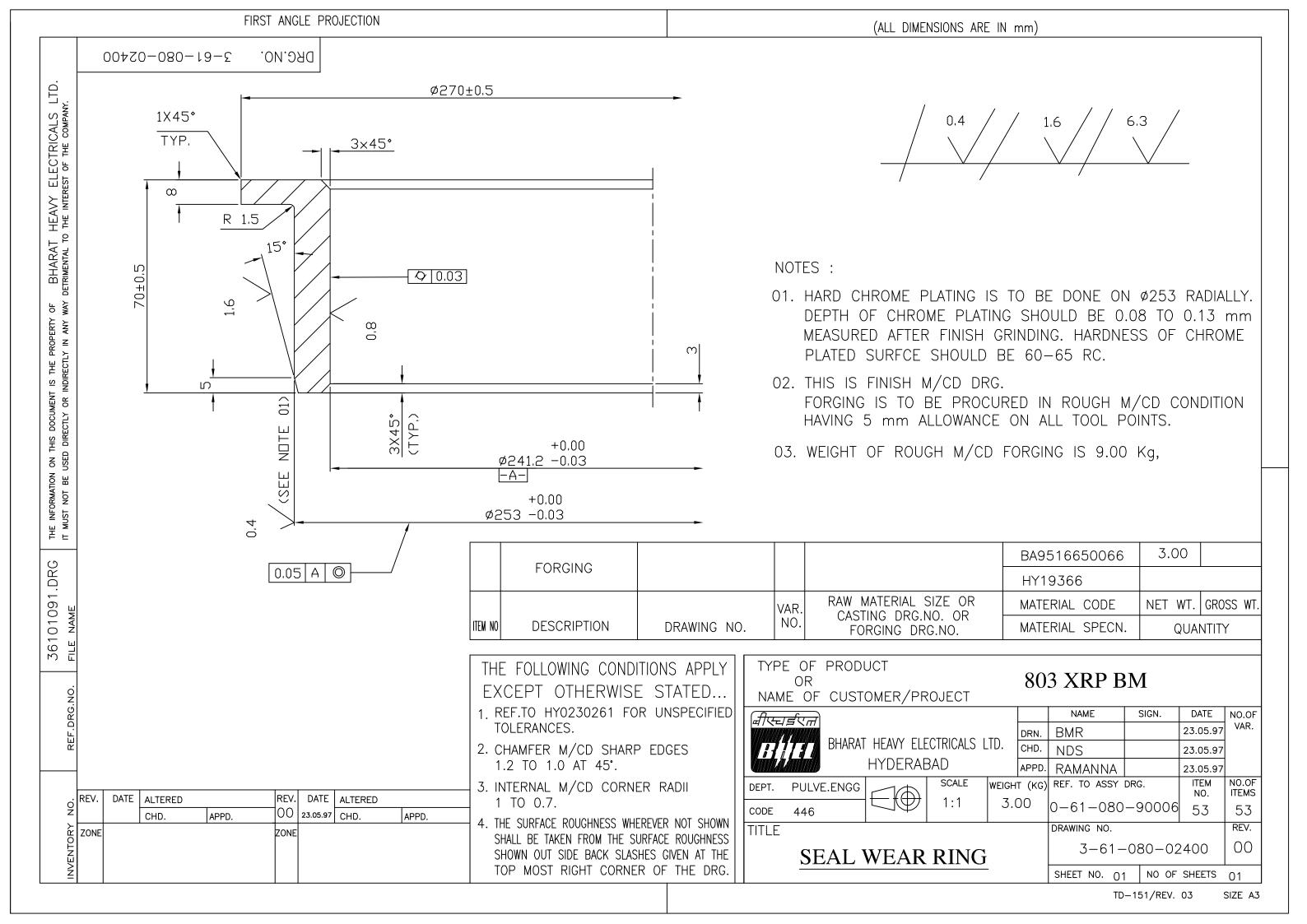
|3-61-000-00668|05 SHEET NO. 01 | NO OF SHEETS

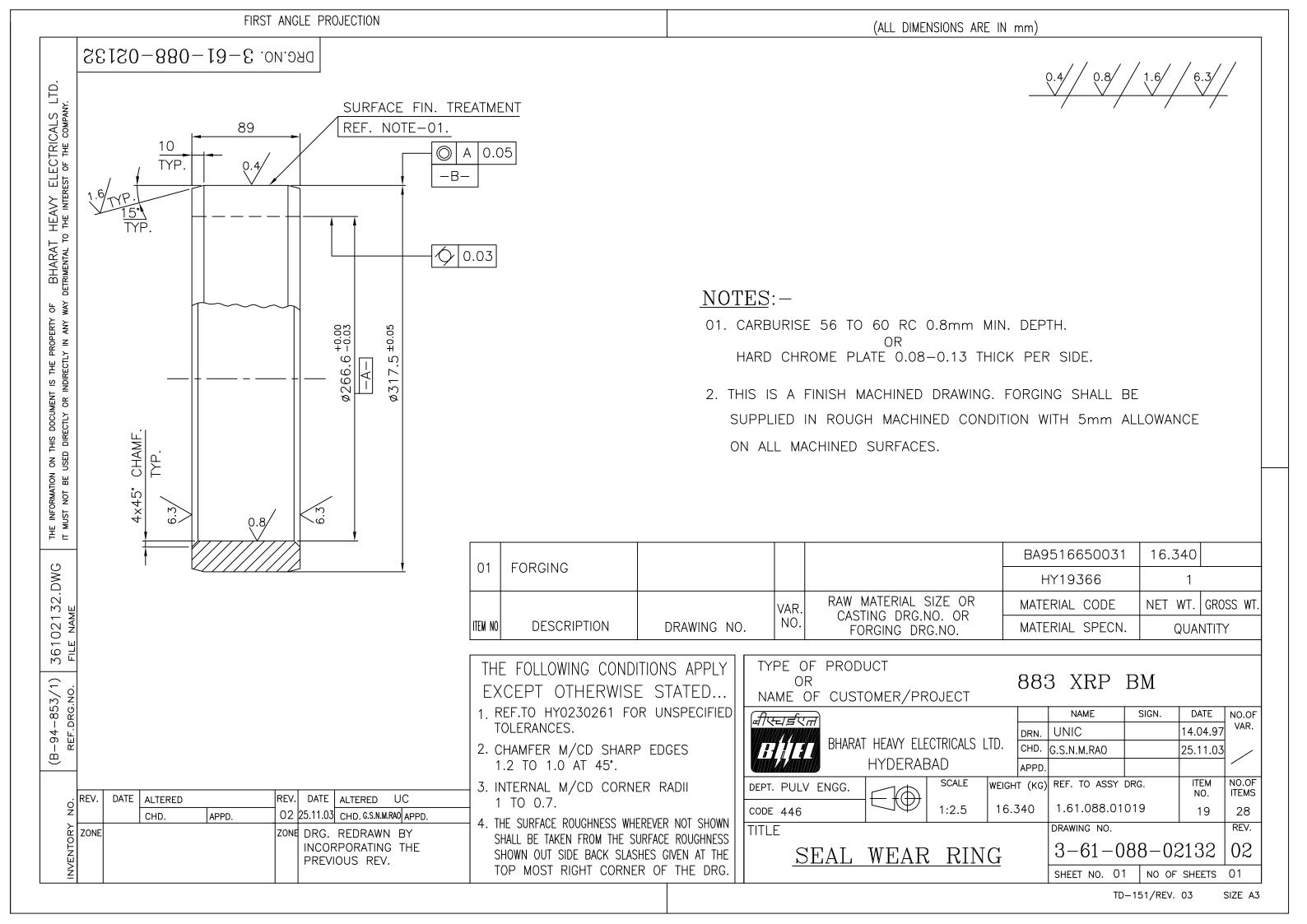
> TD-151/REV. 03 SIZE A3

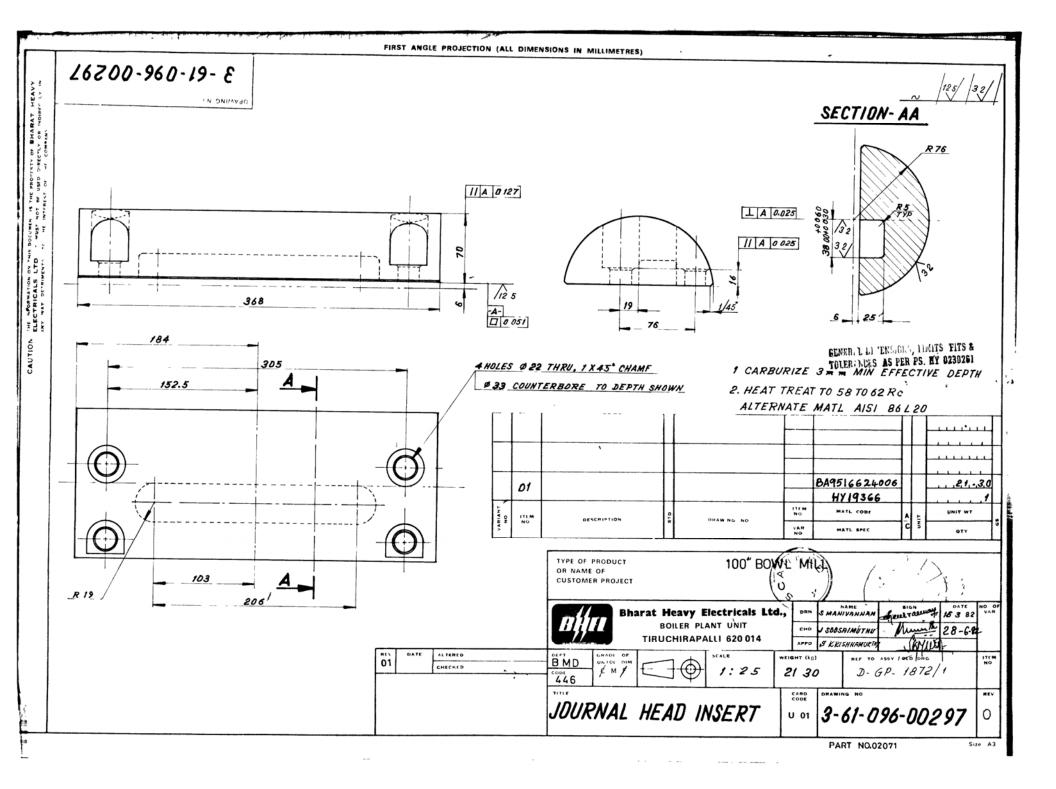
20.00

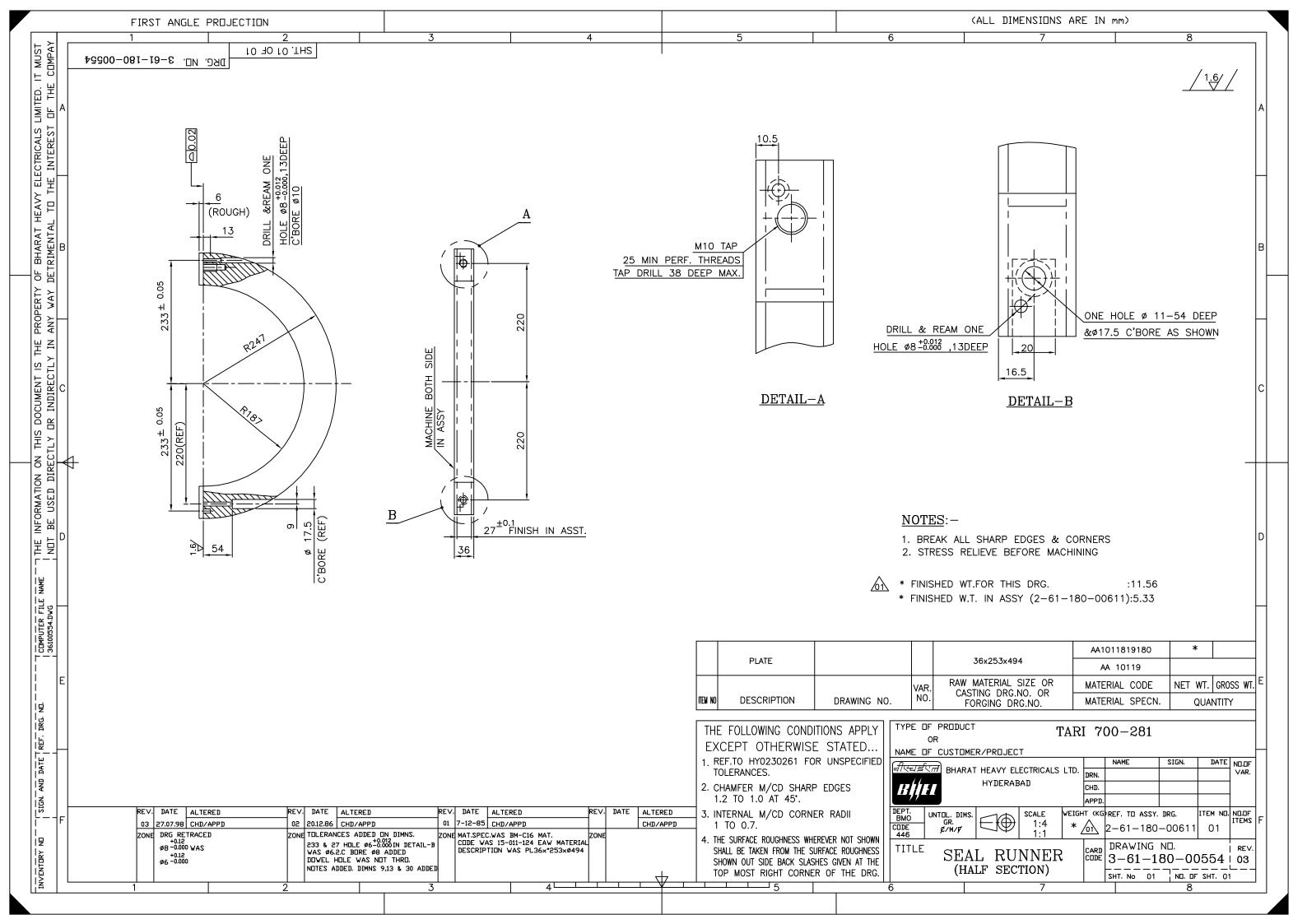
NET WT. GROSS WT

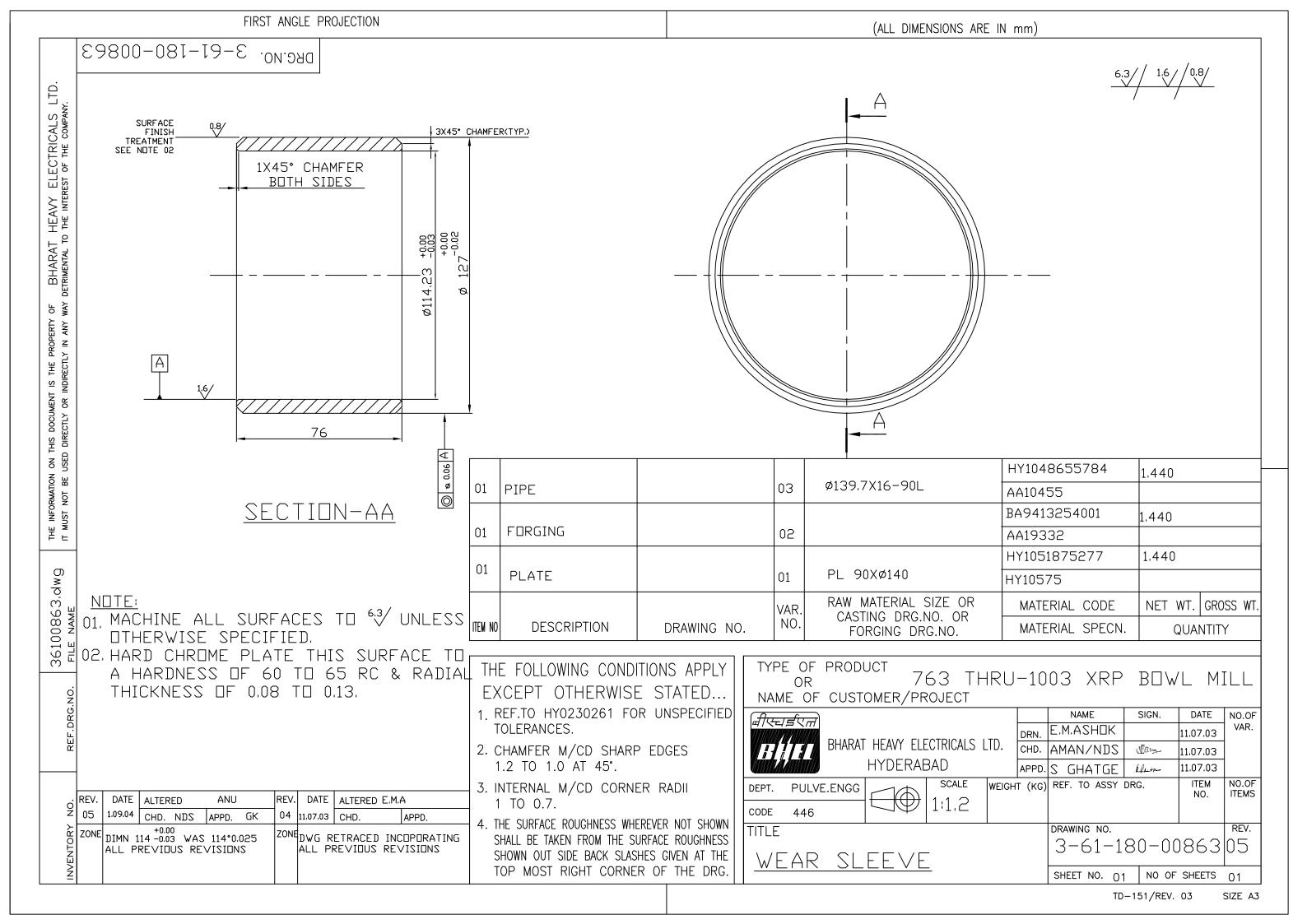
QUANTITY

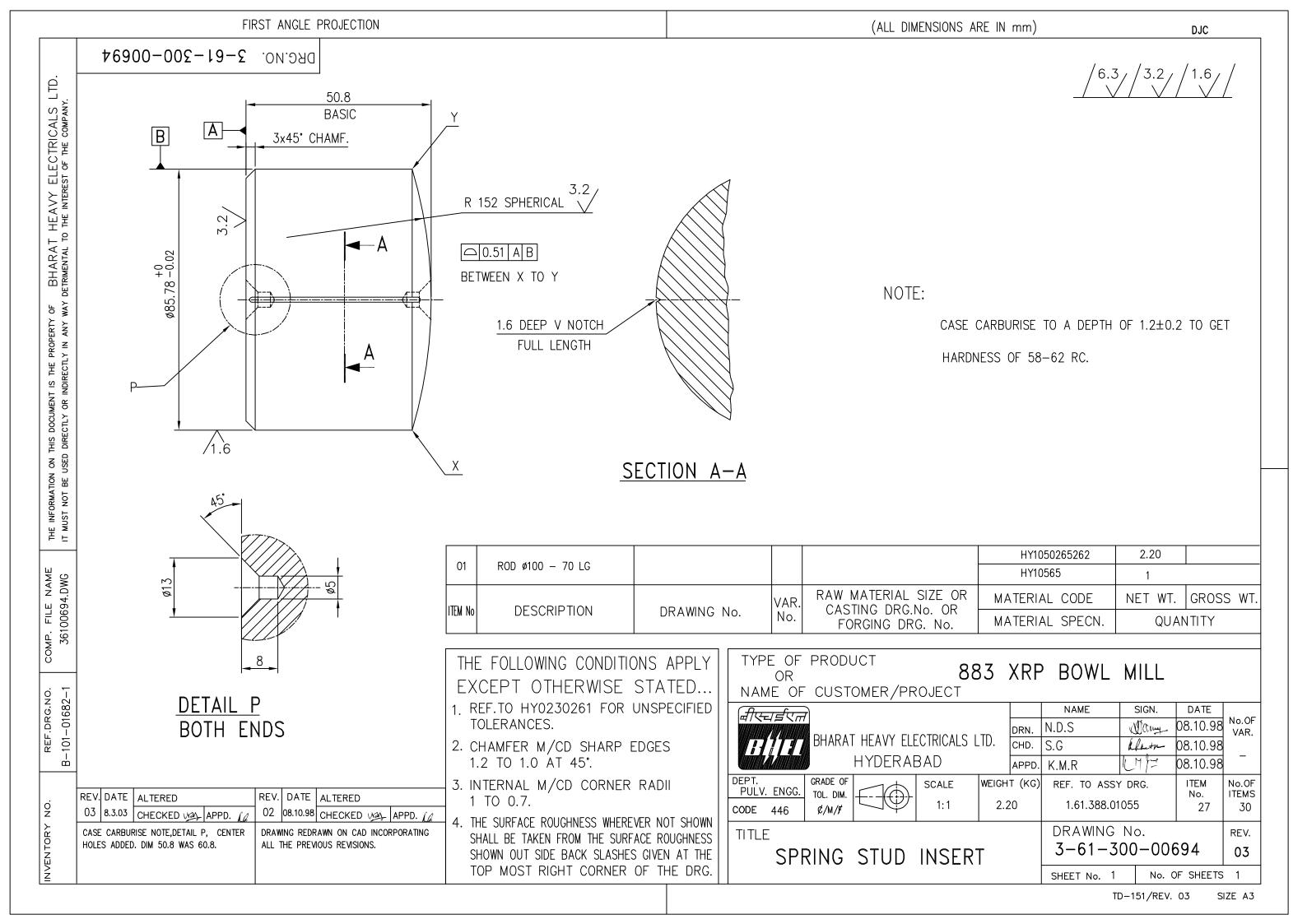


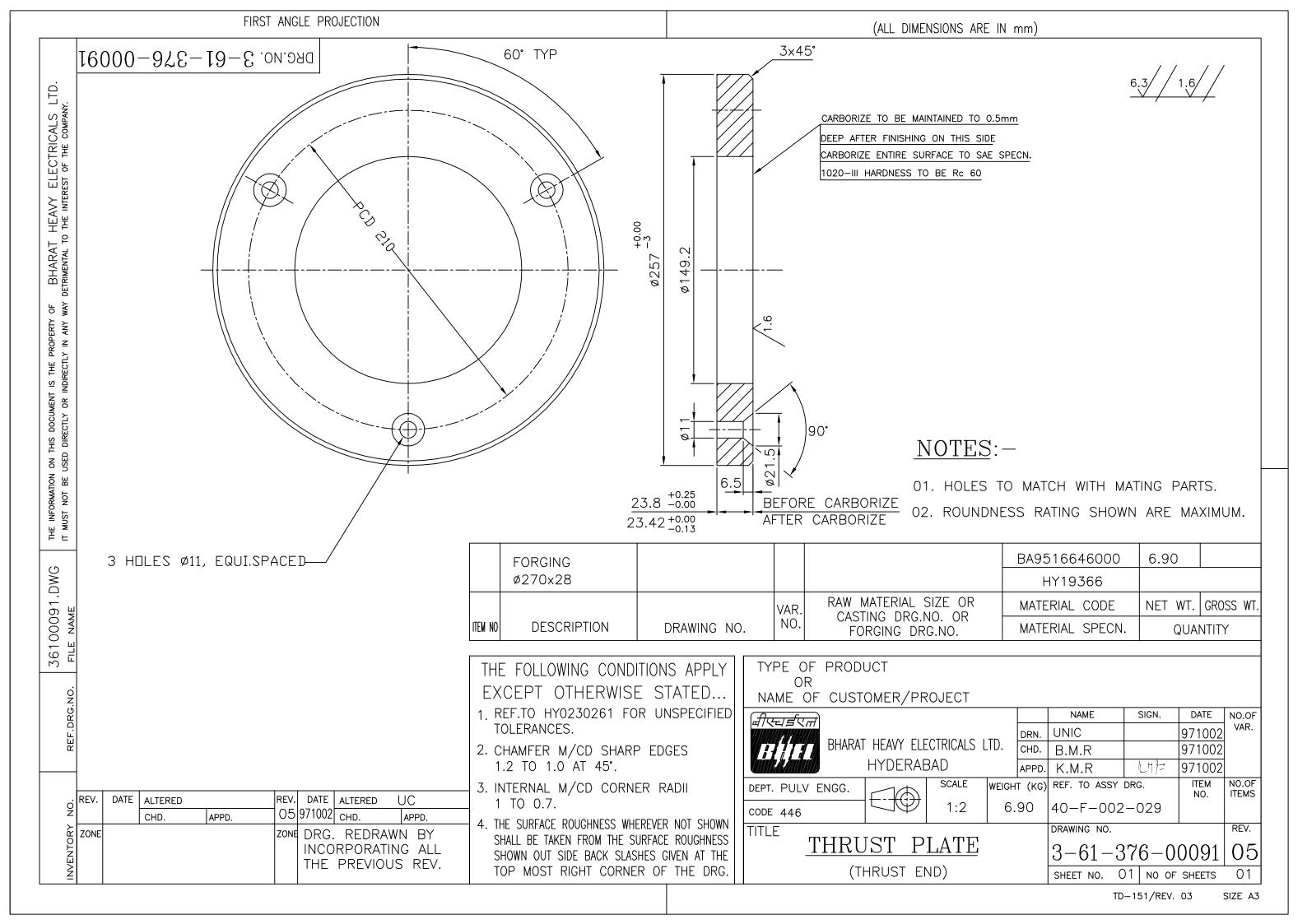


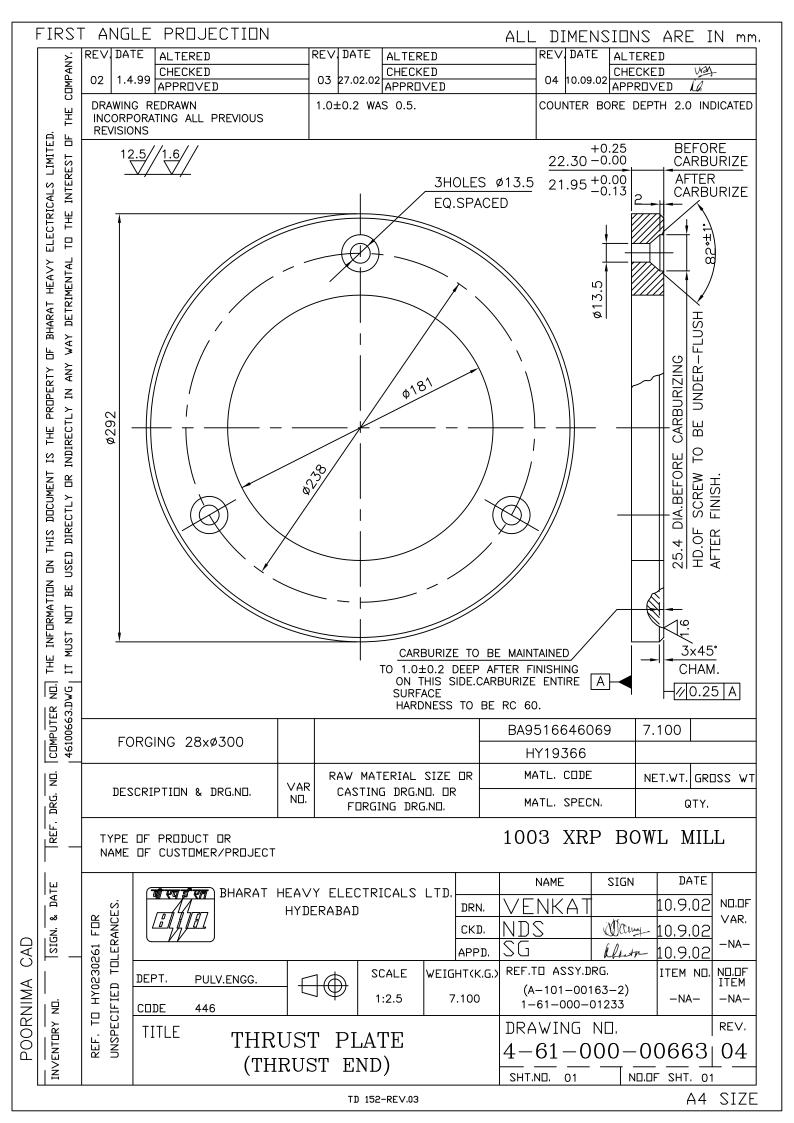


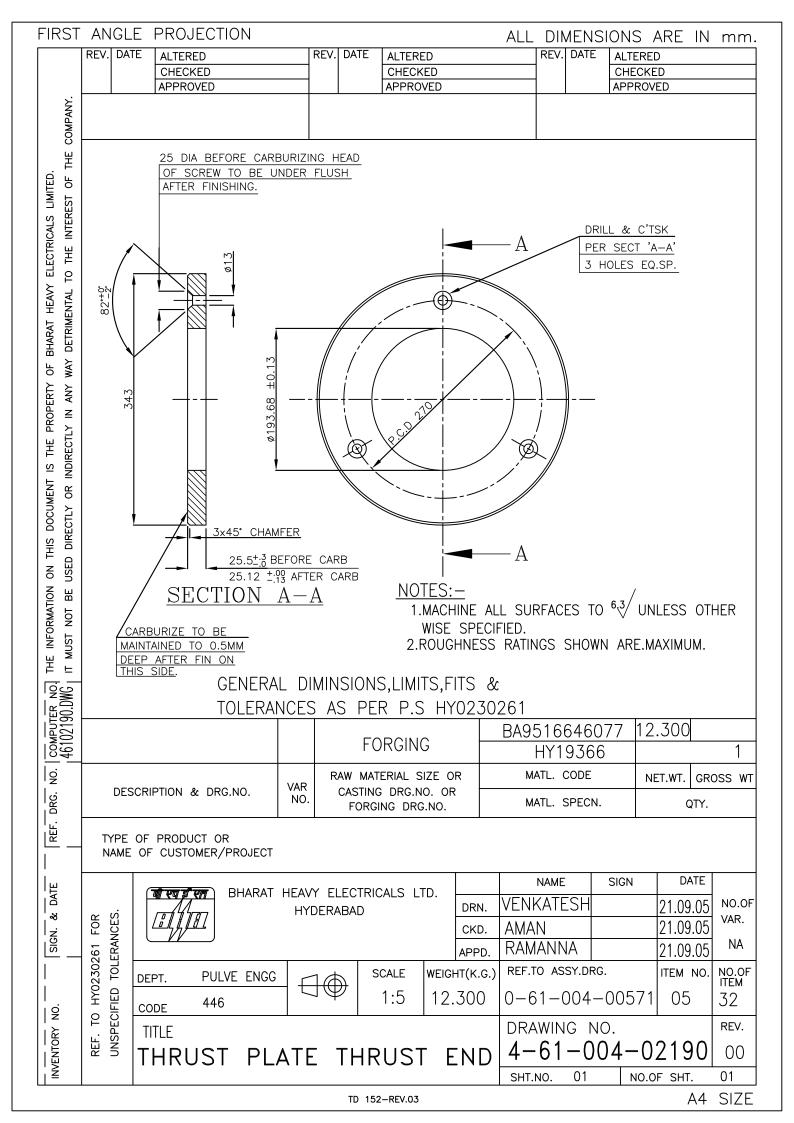


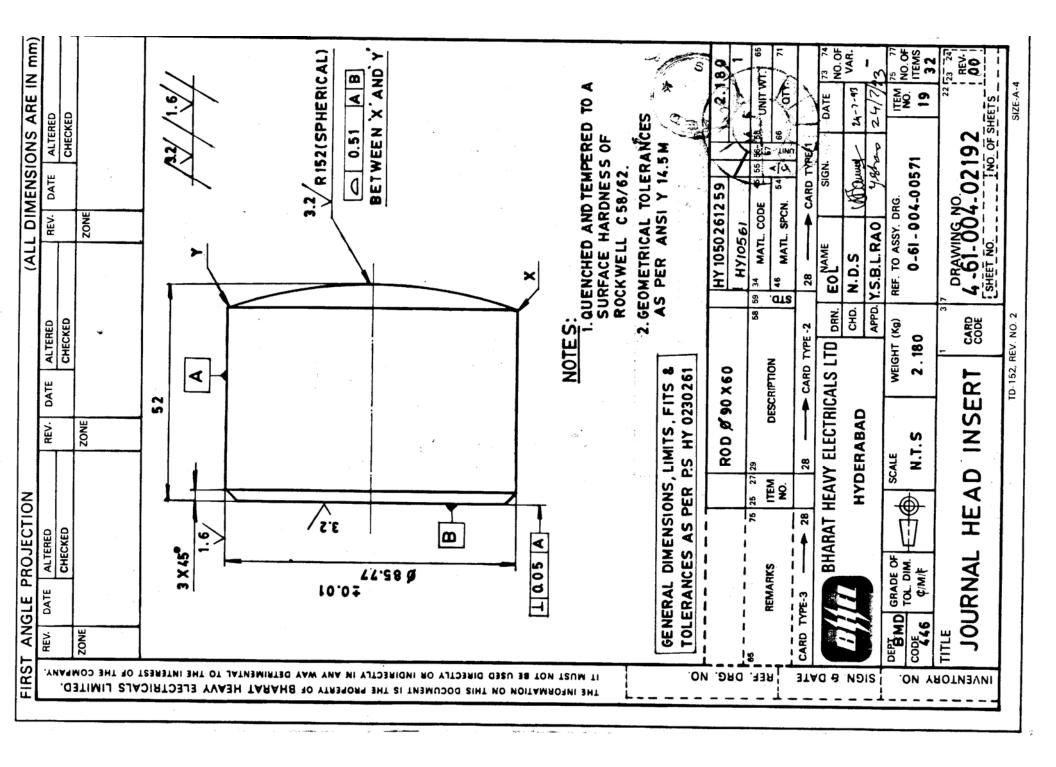














# AMENDMENT - NOTIFICATION

AA 085 01 18 REV. No. 01

PAGE 1 OF 1

# AA 085 01 18:ULTRASONIC TESTING CLASSIFICATION AND ACCEPTANCE STANDARDS FOR STEEL FORGINGS, BILLETS AND BLOOMS

- 1.0 PAGE 1 OF 6: Cl 1.0 SCOPE:
   Last sentence of the para is modified as follows:
   "This standard does not apply to austenitic steel forgings
   for which AA 085 01 19 may be referred to."
- 2.0 <u>Cl 3.2 Sensitivity:</u>
  Title of the left hand column of the table is modified as "Frequency. MHz" in place of Frequency range, MHz.
- 3.0 PAGE 2 OF 6; Cl 5.0 COUPLANT: Last line is modified as "or water shall be used.
- 4.0 <u>Cl 6.1:</u> Eight line is modified as follows: "shall not exceed 150mm/second. The following techniques"

Please see instructions on the reverse.								
Ref:	λind. No.	Approved	lasued	Date	Cum, Sr. No.			
Cl:10.2.4 of MOM	01	WG-NDT	CORP. R&D	15.1.96	A 1822			



AA 085 01 18

REV. No. 01

PAGE 1 OF 6

# ULTRASONIC TESTING, CLASSIFICATION AND ACCEPTANCE STANDARDS FOR STEEL, FORGINGS, BILLETS AND BLOOMS

#### 1.0 SCOPE:

This standard deals with the ultrasonic testing of steel forgings, billets and blooms. The procedure covers pulse echo direct contact manual ultrasonic flaw detection technique. This standard does not apply to austenitic steel forgings.

#### 2.0 PERSONNEL REQUIREMENT:

Personnel performing non-destructive examination and evaluation shall be qualified to the recommended practice SNT - TC - 1A or any other recognised practice.

# 3.0 EQUIPMENT CHARACTERISTICS:

## 3.1 Frequency range:

The ultrasonic equipment shall be suitable for operating at frequencies within the range of 0.5 to 6 MHz.

#### 3.2 <u>Sensitivity:</u>

The sensitivity of the equipment shall be tested to ensure that the number of full screen back wall echo is not less than that given below, when the appropriate probe is placed on the metalised surface of plastic insert of the Indian Standard reference block (IS:4904)/IIW block.

Frequency range, MHz	Min.No. of full screen back echoes
1	5
2	4
4 to 6	2

## 3.3 Resolution:

The resolution of the equipment and probe combined shall be such as to show separately indications of the three grooves in the IIW - VI block.

Revision: C1	.9.4 OF MOM	OF WG(NDT)	Approved: INTERPLANT STANDARDIZATION COMMITTEE - ( WG-NDT )				
Rev.No. 01	Amd.No.	Restlirmed	Prepared CFFP	lssued CORP. R&D	Dt. of 1st issue		
Dt. Jan'95	Dt.	Year:	HARDWAR		Jan '80		

OF 6

REV. No. 01

PAGE

## CORPORATE STANDARD



#### 4.0 SURFACE CONDITION:

The test surface shall be free from loose scales, rust and such other extraneous material that would interfere with the ultrasonic energy transmission. In case of machined surface, it is desirable to have a surface finish of 6.25 microns or better. A gramophone record type of finish and tear produced by machining tools shall be avoided since these give rise to spurious echoes and cause probe wear.

#### 5.0 COUPLANT:

To ensure adequate transmission of ultrasonic energy between the probe and the test object, a suitable couplant having good wetting characteristics such as oil, grease, water, glycerine or cellulose paste shall be used.

#### 6.0 <u>TESTING TECHNIQUE:</u>

- 6.1 Selection of testing technique shall be made after giving due consideration to the method of manufacture and shape of the object tested. Testing technique should be such that each and every part of the object volume is scanned at least once. Successive scans shall overlap a minimum of 15% of the probe width. Uniform contact shall be maintained between probe and object and scanning speed shall not exceed 100 mm/ second. The following techniques are considered to be minimum for providing adequate coverage.
- 6.2 Scanning Scheme (Solid And Hollow Forgings):
  Complete length of the forging shall be scanned radially from sides / cylindrical surface through 360° using longitudinal wave probe. Whenever practicable the forging shall be scanned in axial direction also. Hollow forgings, and when necessary, solid forgings also shall be scanned using appropriate shear wave probes to detect axial and radial cracks. Hollow forgings are the forgings made hollow on the press by punching or ring rolling operation.
- 6.3 <u>Solid Rectangular Forgings, Billets And Blooms:</u>
  Complete length of the object shall be scanned from two adjacent faces and whenever practicable one end face using longitudinal wave probe.
- 6.4 Radial cracks on round sections which can not be detected by normal testing method may be subjected to other crack detection methods such as MPI.

#### 7.0 **SCANNING:**

7.1 Probes and Frequency:
Overall scanning shall be done using 2 MHz nominal, 20-25
mm diameter probes except when large grain size and path
length make it necessary to use a lower frequency. Smaller
probes may be used when necessary. However, for forgings
intended for backing material for white metal lined
bearings, the examination shall be carried out by 4 MHz
probes.



AA 085 01 18

REV. No. 01

PAGE 3 OF 6

7.2 <u>Time Base Calibration:</u>
The time base shall be calibrated using a calibration block or a known dimension of forging under examination.

#### 7.3 Sensitivity:

7.3.1 When Calibrated Attenuator Is Not Available:

Reference sensitivity of equipment shall be set such that the maximum acceptable defect equivalent flat bottomed hole in the test block is equal to 75% of the full screen height. Testing shall be carried out at the highest sensitivity possible.

7.3.2 When Calibrated Attenuator Is Available:

The sensitivity of the equipment during scanning shall be set 6 dB more than the sensitivity required to give a full screen height echo from the maximum acceptable size of defect.

Note: The above sensitivity level adjustment is purely for scanning purposes. Once a defect is encountered, the sensitivity shall be brought down to estimate the size of defect for evaluation of the material under test.

#### 8.0 ESTIMATION OF FLAW SIZE:

8.1 Large Size Flaws:

The size of large flaws can be estimated by moving the probe in all directions and plotting the midpoint of the probe when echo falls to 50 percent or 6 dB.

- 8.2 Small Size Flaws:
- 8.2.1 When Calibrated Attenuator Is Not Available:
- 8.2.1.1 The size of the flaw may be estimated by comparing with the echoes of the flat bottomed holes at appropriate depths in a test block of ultrasonically similar material.
- 8.2.1.2 The size of the flaw may also be estimated by moving probe successively in all the four directions at right angles to each other and plotting the mid point of the probe when echo height falls to 50% or 6 dB. Due allowance shall also be made for beam spread, depth and orientation of flaw and diameter of the forging if the scanning is done from the curved surface.
- 8.2.2 When Calibrated Attenuator Is Provided With The Equipment:

The size of the flaw (smaller than the beam spread) can be estimated accurately in millimetres of equivalent circular flaw with the help of Krautkramer's DGS (Distance - gain - size) diagram. Method of estimating flaw size using a DGS diagram is given in Annexure - A.

			, ·
AA 08	5 01 18		बीय प इंपात
REV. No. 01			CORPORATE STANDARD
PAGE 4	OF 6		
9.0	CLASSIFICAT	CION O	F FORGINGS, BILLETS AND BLOOMS:
9.1	following f	five o	ets and blooms are classified into the categories depending upon the defect size or the purpose of ultrasonic testing:
	Category		Unacceptable defects
	1	(i) (ii) (iii)	that from a 2 mm diameter equivalent flaw. Groups of defects with maximum indication less than that from a 2 mm diameter equivalent flaw which cannot be separated
		(iv)	at testing sensitivity if the back echo is reduced to less than 70%. Defects giving indications of 1 to 2 mm diameter equivalent flaw separated by a distance less than four times the size of the larger of the adjacent flaws.
		(i) (ii) (iii)	Defects giving indication larger than that from a 4 mm diameter equivalent flaw.
	·	(i) (ii) (iii) (iv)	Cracks, flakes, seams & laps. Defects giving indication larger than that from a 6 mm diameter equivalent flaw. Groups of defects with maximum indication less than that from a 6 mm diameter equivalent flaw which cannot be separated at testing sensitivity if the back echo is reduced to less than 40%. Defects giving indications of 3 to 6 mm diameter equivalent flaw separated by a distance less than four times the size of the larger of the adjacent flaws.
	,	(i) (ii) (iii)	Cracks, flakes, seams & laps. Defects giving indication larger than that from a 10 mm diameter equivalent flaw. Groups of defects with maximum indication less than that from a 10 mm diameter equivalent flaw which cannot be separated at testing sensitivity if the back echo is reduced to less than 20%.



AA 085 01 18

REV. No. 01

PAGE 5 OF 6

Defects giving indications of 5 to 10 mm diameter equivalent flaw separated by a (iv) distance less than four times the size of the larger of the adjacent flaws.

5

Cracks, flakes, seams & laps.

(i) (ii) Defects giving indication larger than that from a 15 mm diameter equivalent flaw.

(iii) Groups of defects with maximum indication less than that from a 15 mm equivalent flaw which cannot be separated at testing sensitivity if the back echo is reduced to less than 10%.

Note: Loss of back wall echo not attributable to the presence of defects or geometry and exceeding the limits mentioned in item (iii) of each category of unacceptable defects shall be a cause for rejection.

#### ANNEXURE - A

The equivalent flaw size curves of the DGS diagram is prepared by plotting the amplitude in decibels from a series of circular reflectors with increasing distance from the probe in water and so the graph incorporates only the loss in water. When it is found that the attenuation in the material under test is more (this can be checked using back echo curve of DGS diagram), this shall be taken into account while calculating the flaw size. Corrections will not be required for majority of heat treated forgings when tested with 2-4 MHz probes.

A step by step method of estimating flaw size using universal DGS diagram is given below:

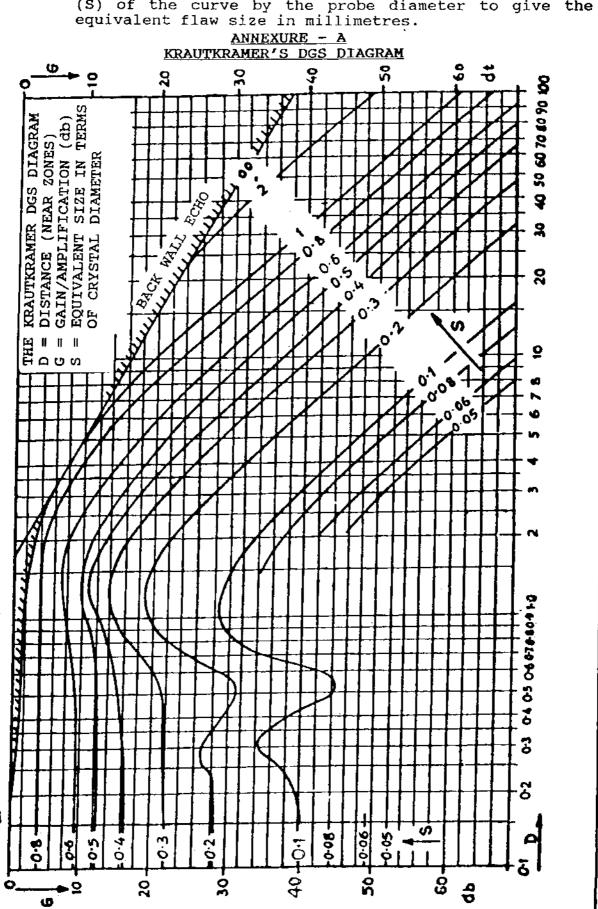
- (a) Adjust the depth range of the equipment to the required depth.
- (b) Adjust the back echo to 70% of screen height from a defect free area parallel wall of the material under test or ultrasonically similar test block and note the dB value (A) on the calibrated gain control.
- (c) Mark on the back echo curve of the diagram, the back wall of the distance in terms of near field in millimetres in the case of universal DGS diagram.
- (d) Move the probe to the defective area and get the maximum defect echo. Read off the flaw depth. Increase the gain with the calibrated gain control until echo height reaches 70% of screen height. Note the attenuator reading in dB (B).
- (e) Calculate the gain (G) in dB by subtracting 'A' from 'B'. Count off the gain 'G' downwards from the marked point on the back echo curve, and then move horizontally to intersect the vertical line from the base line corresponding to the flaw depth 'D' in terms of near field in the case of universal diagram.

REV. No. 01 CORPORATE STANDARD

री एप ईपता

PAGE 6 **OF** 6

(f) Note the equivalent flaw size curve passing through the above point. Multiply the reduced flaw dimension (S) of the curve by the probe diameter to give the equivalent flaw size in millimetres.





#### **AMENDMENT -- NOTIFICATION**

AA 085 01 04 Rev. No. 01

PAGE 1 OF 1

**1.0 TITLE:** Title of the standard is changed as below:

"ULTRASONIC EXAMINATION, ACCEPTANCE STANDARDS AND CLASSIFICATION OF CARBON. LOW ALLOY AND MARTENSITIC STEEL

**CASTINGS**"

(Change is underlined)

2.0 C1.1: SCOPE: Scope of the standard is modified as below:

"This standard details the ultrasonic testing procedure, acceptance standards and classification of carbon, low alloy and martensitic steel castings."

**3.0** Cl.4: This clause is modified as below:

#### **PERSONNEL REQUIREMENT:**

Personnel performing non-destructive examination and evaluation shall be qualified to the recommended practice SNT-TC-1A or any other recognised practice.

REF:	AMD. NO.	APPROVED	Issued	DATE	CUM.SR.NO.
C1.8.7of MOM OF WG (NDT)	01	WG (NDT)	Corp. R&D	June '93	A 1274



AA 085 01 04

PAGE 1 OF 6

# <u>ULTRASONIC EXAMINATION, ACCEPTANCE STANDARD</u> <u>AND CLASSIFICATION OF STEEL CASTINGS</u>

#### 1. SCOPE:

This standard details the ultrasonic testing procedure\* acceptance standard and classification of steel castings.

#### 2. STAGE OF EXAMINATION:

Ultrasonic examination shall be generally carried out after heat treatment of the casting and rough machining, if called for in the order. Ultrasonic examination shall be repeated after weld rectification, if any.

#### 3. SURFACE PREPARATION:

Smooth "as cast" surface, free from adhered or fused sand and irregularities is adequate for ultrasonic examination. Loose scales and excessive surface irregularities such as that caused by removal of runner and riser shall be ground off. While grinding care shall be taken to avoid surface undulations which would interfere with probe contact. . To improve coupling efficiency of as cast surfaces or to remove rust or paint, shot-blasting or sand-blasting may be carried out . Rough machined surfaces should have a minimum surface finish of 6.2 microns.

#### 4. **OPERATING PERSONNEL:**

The operator performing the ultrasonic test shall be conversant with the ultrasonic techniques and the equipment.

#### 5. EQUIPMENT CHARACTERISTICS:

#### 5.1 Frequency Range:

The equipment shall be capable of operating over a frequency range of at least 0.5 to 12 MHz

#### 5.2 <u>CRT Screen Presentation</u>:

"A" scope presentation shall be used. The trace shall be well defined, easy to read and associated with permanent graticule scale marking for both range and amplitude.

#### 5.3 Linearity Of Amplification:

The amplifier shall be linear within + 2dB upto at least1/2full screen height and any deviation above this should be known to the operator. Suppression affects linearity and the effect of suppression over full range should be recorded.

Revisions: C1. 3.14 of the minutes of meeting of WG (NDT)			APPROVED: INTERPLANT STANDARDIZATION COMMITTEE-WG (NDT)		
Rev. No.	Rev. Date	Revised:	Prepared	Issued	Date
01	June'88	Corp (R&D)	CORP.R&D	Corp. R&D	Sept,'79

PAGE 2 OF 6

# **CORPORATE STANDARD**



#### 5. 4 Linearity Of Time Base:

The time base shall be linear as far as possible and non-linearity should not exceed 1% of the full scale graticule reading.

#### 5.5 Resolution:

The resolution of probe and flaw detection apparatus shall be such as to show separately the indications from two or more nearby reflecting surfaces separated by twice the wave length.

#### 5.6 Sensitivity of The Equipment:

The sensitivity of the equipment shall be checked with the longitudinal wave probes used, by placing the probe on the metalised surface of the plastic insert of IS:4904/IIW test block. The minimum number of multiple echoes from the plastic insert at full gain setting shall be as given below:

Frequency range, MHz	Number of multiple echoes		
1 2	5 4		
4	to 6		

#### 6. COUPLANT:

To ensure adequate transmission of ultrasonic energy between probe and casting, a suitable couplant having good wetting characteristic shall be used. oil, glycerin or Polycell paste may be used. For better adoption of cast surfaces, a thin protective plastic cover over the longitudinal probe is recommended.

#### 7. TESTABILITY OF CASTINGS:

The testability of a casting is expressed as the minimum equivalent flaw size discernible with sufficient accuracy. The echo height of largest allowable equivalent flaw at the back wall distance shall be at least 8 dB above grass level. The testability can be determined on a parallel wall area of the casting using either a DGS diagram or a test block containing the appropriate flat bottomed hole. The surface quality of the test block should correspond to that of the casting. Sufficient testability is proved when the following condition is fulfilled.

Type of probe

<u>Above noise level, mm</u>

2-4 MHz Normal beam probe (Tested from one side)

3 or (Largest size allowable)



AA 085 01 04

PAGE 3 OF 6

#### 8. TESTING PROCEDURE:

#### 8.1 Selection Of Probes:

For all ultrasonic examinations, the highest frequency compatible with the size, metallurgical condition and thickness of the casting shall be used.

#### 8.2 Testing Technique:

While selecting testing technique the following factors must be taken into account.

- Type, orientation, position and incidence of defects likely to be encountered in the casting under consideration.
- (ii) Thickness and profile of the section.
- (iii) Structural condition.

All parts of the casting surface where a contact probe can be used, shall be tested by overlapping scans (20 - 25 mm) with normal beam probes, irrespective of casting geometry and availability of reference back echo. Normal beam probe of minimum 2 MHz frequency shall be used but shall be augmented by a thorough shear wave examination of location where the manufacturing method of the casting gives rise to features which may cause internal planer defects due to risers, chills, fillets, brackets, bosses and changes in section thickness, when examining areas of the casting which are to be further machined, a double crystal probe shall be used to reveal defects very near to the surface. This type of probes may also be used for the examination of thin sections and weld repaired areas, to determine depth of flaws, etc. Smaller diameter probes may be used for more critical examination of suspected areas. Testing shall be carried out from both sides of the wall wherever possible to assess the loss in wall thickness.

#### 9. EQUIPEMNT CALIBRATION:

#### 9.1 Depth Range:

The depth range of the equipment shall be adjusted for normal and shear wave probes Using known thickness of the casting or standard calibration block. When latter is Used, velocity difference, if any, should be taken into account.

#### 9.2 Sensitivity:

The scanning sensitivity of the apparatus shall be adjusted using either DGS diagram or standard test block with flat bottomed hole so that maximum acceptable equivalent defect will give an indication height of 75% screen height +8 dB. When test block is used for sensitivity calibration, distance amplitude curve shall be plotted on CRT screen to facilitate.

#### PAGE 4 OF 6

## **CORPORATE STANDARD**



Correct defect size assessment. While estimating the size of defect, compensation shall also be made for difference in surface condition and attenuation in the test block and casting

#### 10. SIGNIFICANT ULTRASONIC INDICATIONS:

The following ultrasonic indications are significant and must be considered during testing of castings:

- (a) All defect echoes beyond the acceptance level.
- (b) All echo indications which suggest crack like planer defects perpendicular to/approximately Perpendicular to the test surface.
- (c) Loss of back echoes occurring not due to the casting geometry. (If loss of back echo cannot Be attributed to the presence of a defect inspite of examining with different transducers, Then such loss shall not exceed 75%).

#### 11. ACCEOTABCE STANDARD:

The casting wall is divided into four zones as shown below:

Zone 1: Middle 1/3 wall thickness

Zone 2 : Outer 1/3 wall thickness but not less than 16mm Zone 3 : Inner 1/3 wall thickness but not less than 16 mm

Zone 4: 16 mm from surface of zone 2 if machined and 16 mm from surface of zone 3 whether machined or unmachined

The castings are categorised into three levels according to the size distribution and number of defects permissible.

Ultrasonic indications exceeding those shown in the table below as well as cracks, Hot tears and cold shuts are unacceptable.

# COPYRIGHT AND CONFIDENTIAL The Information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED It must not be used directly or indirectly in any way detrimental to the Interest of the company.

# चीएवं इं एल संदेशीय

# **CORPORATE STANDARD**

AA 085 01 04

PAGE 5 OF 6

	CLASSC IFICATION LEVEL	ZONE 1	ZONE 2 & 3	ZONE 4
A. Equivalent flaw dia. As fraction of Wall thickness in mm	*-=≡	3 1/5 WT** 1 1/5 WT 1 1/4 WT	3 10 1/8 WT 6 10 1/8 WT 6 12 1/6 WT 8	3 1/16 WT 3 1/16 WT 3 1/12 WT 4
B. Decrease of back-echo in Percentage associated With the defect	*  -==	Not allowed 90 90 95	Not allowed 75 75 85	Not allowed
C. Thickness of detect as Percentage of Wall thickness	* -=	5 3 mm 15 15	İ	5 3mm 5 5
	=	20	15	10
D. Length of defect in mm (See Note below )	* -=≡	3 100 150	3 75 100 120	3 12 50 75
E. Area of individual defect In cm	* >-= <u>=</u>	120 150 200	10 20 30	0.25 0.50 10
F. Accumulated area of defect In 1000 cm area	* >-= <u>=</u>	200 cm 300 cm 400 cm	10 cm 40 cm 60 cm	2.5 cm 5 cm 10 cm
G. Minimum distance between defects 'X' (See Fig. 1)	* >-= <u>=</u>	6L+ 4L 4L 4L	6L+ 4L 4L 4L	9F 6L 6L 6L

AA 085 01 04

PAGE 6 OF 6

# **CORPORATE STANDARD**



\*W=

Fabrication Weld Zone: 75 mm length from the edges shall constitute the fabrication weld zone which excludes the excess machining allowance. In the case of unacceptable defects beyond 30 mm from the edge<sup>^</sup> they may be referred to BHEL for further evaluation with respect to acctual weld preparation.

\*\* WT = wall thickness

L+ = Length of defects

#### Note (For item D ):

Class by defeate wi

Close by defects will be treated as a single defect if the distance between the extremities of the adjacent defects is less than the length of the longest defect. The total length of the defect shall be considered as the length of the flaws plus the distance in between.

# Minimum Distance Between Defects 'X' (For item ${\bf G}$ )

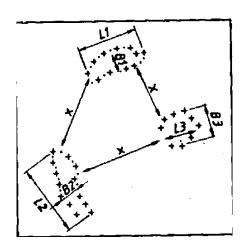


Fig - 1

L= Length of defect

B= Breadth of defect

**X=** Minimum distance between defects



# CORPORATE STANDARD

AA0850118

Rev. No.01

PAGE 1 of 5

# ULTRASONIC TESTING, CLASSIFICATION AND ACCEPTANCE STANDARDS FOR STEEL FORGINGS, BILLETS AND BLOOMS

#### 1.0 SCOPE:

This standard deals with the ultrasonic testing of steel forgings, billets and blooms. The procedure covers pulse echo direct contact manual ultrasonic flaw detection technique. This standard does not apply to austenitic steel forgings for which AA0850119 may be referred to.

#### 2.0 PERSONNEL REQUIREMENT:

Personnel performing non-destructive examination and evaluation shall be qualified to the recommended practice SNT - TC - 1A or any other recognised practice.

#### 3.0 EQIPMENT CHARACTERISTICS:

#### 3.1. Frequency range:

The ultrasonic equipment shall be suitable for operating at frequencies within the range of 0.5 to 6 MHz.

#### 3.2. Sensitivity:

The sensitivity of the equipment shall be tested to ensure that the number of full screen back wall echo is not less than that given below, when the appropriate probe is placed on the metalised surface of plastic insert of the Indian Standard reference block (IS:4904)/IIW block.

Frequency MHz	Min. No. of full screen back echoes
1	5
2	4
4 to 6	2

#### 3.3. Resolution:

The resolution of the equipment and probe combined shall be such as to show separately indications of the three grooves in the IIW- VI block.

#### 4.0 SURFACE CONDITION:

The test surface shall be free from loose scales, rust and such other extraneous material that would interfere with the ultrasonic energy transmission. In case of machined surface, it is desirable to have a surface finish of 6.25 microns or better. A gramophone record type

Revisions: Clause.9.4 & 10.2.4 of MOM of WG-NDT			<b>APPROVED:</b> INTER PLANT STANDARDISATION COMMITTEE – WG(NDT)		
Rev. No.01	Rev. No.01 Amd. No.01 Reaffirmed		Prepared	Issued	Dt. of 1st Issue
Dt:02-01-1995	Dt:02-01-1995 Dt: 15-01-1996 Year:		HEEP, Haridwar	Corp. R&D	Jan 1980

Rev. No.01

# CORPORATE STANDARD

बीएचईएल HHHEL

PAGE 2 of 5

of finish and tear produced by machining tools shall be avoided since these give rise to spurious echoes and cause probe wear.

#### 5.0 COUPLANT:

To ensure adequate transmission of ultrasonic energy between the probe and the test object, a suitable couplant having good wetting characteristics such as oil, grease, glycerine or water shall be used.

#### **6.0 TESTING TECHNIQUE:**

**6.1.** Selection of testing technique shall be made after giving due consideration to the method of manufacture and shape of the object tested. Testing technique should be such that each and every part of the object volume is scanned at least once. Successive scans shall overlap a minimum of 15% of the probe width. Uniform contact shall be maintained between probe and object and scanning speed shall not exceed 150 mm/ second. The following techniques are considered to be minimum for providing adequate coverage.

#### 6.2. Scanning Scheme (Solid And Hollow Forgings):

Complete length of the forging shall be scanned radially from sides/cylindrical surface through 360° using longitudinal wave probe. Whenever practicable the forging shall be scanned in axial direction also. Hollow forgings, and when necessary, solid forgings also shall be scanned using appropriate shear wave probes to detect axial and radial cracks. Hollow forgings are the forgings made hollow on the press by punching or ring rolling operation.

- **6.3.** Solid Rectangular Forgings, Billets and Blooms: Complete length of the object shall be scanned form two adjacent faces and whenever practicable one end face using longitudinal wave probe.
- **6.4.** Radial cracks on round sections which cannot be detected by normal testing method may be subjected to other crack detection methods such as MPI.

#### 7.0 SCANNING:

#### 7.1. Probes and Frequency:

Overall scanning shall be done using 2 MHz nominal, 20-25 mm diameter probes expect when large grain size and path length make it necessary to use a lower frequency. Smaller probes may be used when necessary. However, for forgings intended for backing material for white metal lined bearings, the examination shall be carried out by 4 MHz probes.

#### 7.2. Time Base Calibration:

The time base shall be calibrated using a calibration block or a known dimension of forging under examination.

#### 7.3. Sensitivity:

#### 7.3.1. When Calibrated Attenuator is Not Available:

Reference sensitivity of equipment shall be set such that the maximum acceptable defect equivalent flat bottomed hole in the test block is equal to 75% of the full screen height. Testing shall be carried out at the highest sensitivity possible.



# CORPORATE STANDARD

AA0850118

Rev. No.01

PAGE 3 of 5

#### 7.3.2. When Calibrated Attenuator is Available:

The sensitivity of the equipment during scanning shall be set 6 dB more than the sensitivity required to give a full screen height echo from the maximum acceptable size of defect.

**Note:** The above sensitivity level adjustment is purely for scanning purposes. Once a defect is encountered, the sensitivity shall be brought down to estimate the size of defect for evaluation of the material under test.

#### 8.0 ESTIMATION OF FLAW SIZE:

#### 8.1. Large Size Flaws:

The size of large flaws can be estimated by moving the probe in all directions and plotting the midpoint of the probe when echo falls to 50 percent or 6 dB.

#### 8.2. Small Size Flaws:

#### 8.2.1. When Calibrated Attenuator is Not Available:

- **8.2.1.1.** The size of the flaw may be estimated by comparing with the echoes of the flat bottomed holes at appropriate depths in a test block of ultrasonically similar material.
- **8.2.1.2.** The size of the flaw may also be estimated by moving probe successively in all the four directions at right angles to each other and plotting the midpoint of the probe when echo height falls to 50% or 6 dB. Due allowance shall also be made for beam spread, depth and orientation of flaw and diameter of the forging if the scanning is done from the curved surface.

#### 8.2.2. When Calibrated Attenuator is Provided With The Equipment:

The size of the flaw (smaller than the beam spread) can be estimated accurately in millimetres of equivalent circular flaw with the help of Krautkramer's DGS (Distance – Gain – Size) diagram. Method of estimating flaw size using a DGS diagram is given in Annexure - A.

#### 9.0 CLASSIFICATION OF FORGINGS, BILLETS AND BLOOMS:

**9.1.** Forgings, billets and blooms are classified into the following five categories depending upon the defect size admissibility for the purpose of ultrasonic testing:

Category	Unacceptable defects
1	<ul> <li>i) Cracks, flakes, seams &amp; laps.</li> <li>ii) Defects giving indication larger than that from a 2 mm diameter equivalent flaw.</li> <li>iii) Groups of defects with maximum indication less than that from a 2 mm diameter equivalent flaw which cannot be separated at testing sensitivity if the back echo is reduced to less than 70%.</li> <li>iv) Defects giving indications of 1 to 2 mm diameter equivalent flaw separated by a distance less than four times the size of the larger of the adjacent flaws.</li> </ul>

Rev. No.01

#### PAGE 4 of 5

# CORPORATE STANDARD



Category		Unacceptable defects	٦
<i>3</i> - <i>y</i>	i)	Cracks, flakes, seams & laps.	٦
	ii)	Defects giving indication larger than that from a 4 mm diameter	
	ĺ	equivalent flaw.	
	iii)	Groups of defects with maximum indication less than that from a 4 mm	
2		diameter equivalent flaw which cannot be separated at testing	
		sensitivity if the back echo is reduced to less than 50%.	
	iv)	Defects giving indications of 2 to 4 mm diameter equivalent flaw	
		separated by a distance less than four times the size of the larger of the	
		adjacent flaws.	4
	i)	Cracks, flakes, seams & laps.	
	ii)	Defects giving indication larger than that from a 6 mm diameter	
	:::\	equivalent flaw.	
3	iii)	Groups of defects with maximum indication less than that from a 6 mm	
Э		diameter equivalent flaw which cannot be separated at testing sensitivity if the back echo is reduced to less than 40%.	
	iv)	Defects giving indications of 3 to 6 mm diameter equivalent flaw	
	10)	separated by a distance less than four times the size of the larger of the	
		adjacent flaws.	
	i)	Cracks, flakes, seams & laps.	┪
	ii)	Defects giving indication larger than that from a 10 mm diameter	
		equivalent flaw.	
	iii)	Groups of defects with maximum indication less than that from a 10 mm	
4		diameter equivalent flaw which cannot be separated at testing	
		sensitivity if the back echo is reduced to less than 20%.	
	iv)	Defects giving indications of 5 to 10 mm diameter equivalent flaw	
		separated by a distance less than four times the size of the larger of the	
	:)	adjacent flaws.	$\dashv$
	i) ii)	Cracks, flakes, seams & laps.  Defects giving indication larger than that from a 15 mm diameter	
	111)	equivalent flaw.	
5	iii)	Groups of defects with maximum indication less than that from a 15 mm	
	/	diameter equivalent flaw which cannot be separated at testing	
		sensitivity if the back echo is reduced to less than 10%.	
		v	_

**Note:** Loss of back wall echo not attributable to the presence of defects or geometry and exceeding the limits mentioned in item (iii) of each category of unacceptable defects shall be a cause for rejection.

#### ANNEXURE - A

The equivalent flaw size curves of the DGS diagram is prepared by plotting the amplitude in decibels from a series of circular reflectors with increasing distance from the probe in water and so the graph incorporates only the loss in water. When it is found that the attenuation in the material under test is more (this can be checked using back echo curve of DGS diagram), this shall be taken into account while calculating the flaw size. Corrections will not be required for majority of heat treated forgings when tested with 2-4 MHz probes.

A step by step method of estimating flaw size using universal DGS diagram is given below:

- (a) Adjust the depth range of the equipment to the required depth.
- (b) Adjust the back echo to 70% of screen height from a defect free area parallel wall of the material under test or ultrasonically similar test block and note the dB value (A) on the calibrated gain control.



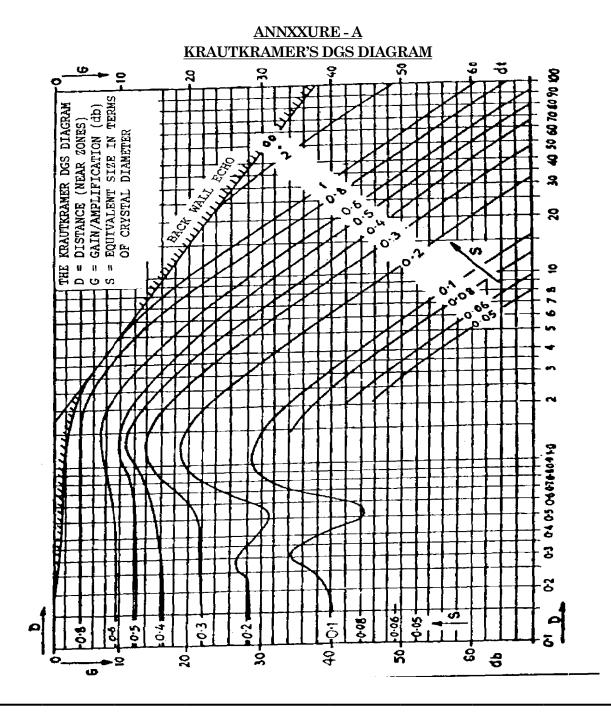
# CORPORATE STANDARD

AA0850118

Rev. No.01

PAGE 5 of 5

- (c) Mark on the back echo curve of the diagram, the back wall of the distance in terms of near field in millimetres in the case of universal DGS diagram.
- (d) Move the probe to the defective area and get the maximum defect echo. Read off the flaw depth. Increase the gain with the calibrated gain control until echo height reaches 70% of screen height. Note the attenuator reading in dB (B).
- (e) Calculate the gain (G) in dB by subtracting 'A' from 'B'. Count off the gain 'G' downwards from the marked point on the back echo curve, and then move horizontally to intersect the vertical line from the base line corresponding to the flaw depth 'D\* in terms of near field in the case of universal diagram.
- (f) Note the equivalent flaw size curve passing through the above point. Multiply the reduced flaw dimension (S) of the curve by the probe diameter to give the equivalent flaw size in millimetres.





# CORPORATE PURCHASING SPECIFICATION

AA10119 Rev No. 15

PAGE 1 of 2

# STRUCTURAL STEEL - WELDABLE QUALITY (PLATES, SECTIONS, STRIPS, FLATS AND BARS)

#### ORDERING DESCRIPTION

#### 1.0 GENERAL:

The material shall conform to IS 2062-2011, E250-Gr.BR (with mandatory Impact Test) or DIN EN 10025-2:2005, Gr. S275JR and comply with following additional requirements.

#### 2.0 APPLICATION:

For general engineering purposes, suitable for welding.

#### 3.0 CONDITION OF DELIVERY:

- 3.1 Bars & Sections shall be supplied in Hot rolled in straight lengths without twists and bends.
- 3.2 The material shall be supplied as per IS: 2062 2011, E250 Gr.BR (with mandatory Impact Test) or as per DIN EN 10025-2:2005 Gr. 275JR.
- 3.3 Any other additional requirement as per BHEL Purchase order.

#### 4.0 DIMENSIONS AND TOLERANCES:

#### 4.1 Sizes:

Material shall be supplied to the dimensions specified in BHEL Order.

#### 4.2 Tolerances:

The tolerances on hot rolled material shall comply with IS: 1852 or any other equivalent national standard.

#### 4.3 Straightness for hot rolled bars:

Unless otherwise specified, the permissible deviation in straightness shall not exceed 5 mm in any 1000 mm length.

#### 5.0 TEST SAMPLES:

The selection of test pieces for all tests like Chemical, Mechanical etc. shall be as per IS: 2062, E250-Gr.BR or DIN EN 10025-2, Gr. S275JR.

	Revisions:			APPROVED:			
	Clause No. 1, 3, 5 & 8 revised (as per MOM of 38th MRC meeting), Clause 10 added			INTERPLANT MATERIAL RATIONALISATION COMMITTEE – MRC(S&GPS)			
1	Rev No.15	Amd No.	Reaffirmed	Prepared	Issued	Dt. of 1st Issue	
j	Dt:11-03-2014	Dt:	Year:	HPEP, Hyderabad	Corp.R&D	June, 1976	

AA10119

Rev No. 15

PAGE 2 of 2

# CORPORATE PURCHASING SPECIFICATION



#### 6.0 ULTRASONIC EXAMINATION:

Plates shall be ultrasonically examined in accordance with BHEL standard AA0850120 (or ASTM-A435) as detailed below and shall comply with the acceptance standards specified therein.

#### 6.1 For plates above 40 mm thick:

Shall be ultrasonically examined unless when otherwise specified in order.

#### 7.0 TEST CERTIFICATES:

Unless otherwise specified, three copies of test certificates shall be supplied.

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

The test certificate shall bear the following information:

AA10119 - Rev.No.15/ IS: 2062-Gr: BR (with mandatory Impact test) or DIN EN 10025-2, Gr. S275JR,

BHEL order No.

Melt No, Size & Quantity, Batch No with heat treatment details, Results of Chemical analysis,

Mechanical tests & NDT, Supplier's name, Identification No, TC No, Signature of Competent Authority, etc.

#### 8.0 PACKING AND MARKING:

Plates shall be transported suitably to avoid damage during transit.

Each plate shall be marked with Melt No. Material grade and specification, BHEL Order No, Supplier's Name Identification No, Size & weight, on any one corner and encircled with paint preferably of white colour.

#### 9.0 REJECTION AND REPLACEMENT

If the material does not comply with the requirements of this specification during receipt inspection at BHEL or if any defect is found during further processing of material, BHEL reserves the right to reject the whole consignment and the supplier shall replace the material free of cost. The rejected material shall be taken back by the supplier after fulfilling the commercial terms and conditions.

# 10.0 REFERRED STANDARDS (Latest publications including amendments):

1) IS: 1852

2) ASTM - A435

3) AA0850120

51/9/90

15-723



#### CORPORATE PURCHASING SPECIFICATION

AA10455

Řev No.10

PREFACE SHEET

#### CARBON STEEL SEAMLESS PIPES FOR HIGH TEMPERATURE SERVICE

FOR INTERNAL USE ONLY REMOVE THIS PREFACE BEFORE ISSUE TO SUPPLIERS

#### Equivalent/Comparable Standards:

1. AMERICAN

ASME SA106, Gr:B

#### Suggested/Probable Suppliers and Grades:

Refer User plant vendors list

#### **User Plant References:**

1. HEP, BHOPAL

PS10145 / PS10151 / PS10158

2. HEEP, HARDWAR

3. HPEP, HYDERABAD

ASTM A106, Gr:B

4. HPBP, TRICHY

TDC:1-001/C

5. PC, CHENNAI

ASTM A106, Gr:B

Revisions: CI.N IBR requirement	o.10 revised in line	with latest	APPROVED: INTERPLANT MATERIAL RATIONALISATION COMMITTEE - MRC(FCF+HTM)		
Rev No.10	Amd No.01	Reaffirmed	Prepared	Issued	Dt. of 1st Issue
Dt-08-12-2018	Dt-20-12-2018	Vear	HPBP, Trichy	Corp.R&D	June. 1978



#### CORPORATE PURCHASING SPECIFICATION

AA10455

Rev No. 10

PAGE 1 of 2

#### CARBON STEEL SEAMLESS PIPES FOR HIGH TEMPERATURE SERVICE

(ORDERING DESCRIPTION FOR ASME SA106, Gr. B ATTESTED MATERIAL)

#### 1 GENERAL:

The pipes shall conform to the latest version for ASME SA106, Gr:B and comply with the following additional requirements.

#### 2 APPLICATION:

For high temperature service at stress levels and temperatures allowed by ASME Boiler & Pressure Vessel Code, Section I & Indian Boiler Regulations.

#### 3 DIMENSIONS AND TOLERANCES:

#### 3.1 Sizes

Pipe OD X Thickness shall be as specified on BHEL order. Unless otherwise specified, pipes shall be supplied in single random lengths of 4.8 to 6.7 meters.

#### 3.2 Tolerances

As per ASME SA 530

#### **4 MANUFACTURE**

Either hot finished or cold drawn.

#### 5 CHEMICAL COMPOSITION

Carbon content shall be restricted to 0.25%, max

#### **6 MECHNICAL PROPERTIES**

#### 6.1 Bend Test

One pipe per melt / size upto 60.3mm OD (nominal size) shall be subjected to bend test as per ASME SA106.

#### 6.2 Flattening

One pipe per melt / size over 60.3 mm OD (nominal size) shall be subjected to flattening test at one end of the pipe as per ASME SA106.

For pipes of sizes 10 inches and above (≥ 254 mm) may be bend tested as per ASME SA106.

#### 7 HYDROSTATIC TEST / NDT

Each length of pipe shall be subjected to Hydrostatic test as per ASME SA530.

As an alternative to the Hydrostatic test, each length of pipe shall be subjected to NDT as given below:

 a) For thickness upto 3.6mm, inclusive, Eddy current test as per ASME SE309 or for thickness upto 12mm, inclusive, Flux leakage test as per ASME SE570

or

V

Revisions: Cl.No.10 revised in line with latest IBR requirement			APPROVED: INTERPLANT MATERIAL RATIONALISATION COMMITTEE - MRC(FCF+HTM)		
Rev No.10	Amd No.	Reaffirmed	Prepared	Issued	Dt. of 1st Issue
Dt:08-12-2018	Dt:	Year:	HPBP, Trichy	June, 1978	

\*AA10455 Rev No. 10

## CORPORATE PURCHASING SPECIFICATION



PAGE 2 of 2

b) Ultrasonic test as per ASME SE213.

Norms of acceptance shall be as specified in the respective standards mentioned above.

#### 8 INSPECTION AT SUPPLIER'S WORKS

BHEL's representative shall have free access at all times to all parts of the manufacture's works, until the work on the contract of BHEL is being performed. The manufacturer shall offer BHEL's representative all reasonable facilities, without charge, to satisfy the latter that the material is being furnished in accordance with the specification.

#### 9 REPAIRS

- 1) Repair involving fusion welding is prohibited.
- 2) When defects are repaired by mechanical means, the wall thickness requirements shall be satisfactorily met with and the surfaces shall be smoothly dressed up without any sharp edges.

#### 10 CERTIFICATION:

Certification in IBR Form III-A for finished pipes from "IBR-Well Known Pipe Maker" or "Inspecting Authority", as applicable, shall be submitted to BHEL.

#### 11 PACKING AND MARKING:

As per BHEL Standard AA0490001.

#### 12 REJECTION & REPLACEMENT

If each length of pipe does not comply with the requirements of this specification during receipt inspection at BHEL or if any defect is found during further processing of pipes BHEL reserves the right to reject the whole consignment and the supplier shall replace the material free of cost. The rejected material shall be taken back by the supplier after fulfilling the commercial terms and conditions

#### 13 REFERRED STANDARDS (Latest publications including amendments):

- 1) ASME SA530
- 2) ASTM A370
- 3) ASME SE309
- 4) ASME SE570

- 5) ASME SE213
- 6) AA0490001

8/12/1/K hhb -





#### CORPORATE PURCHASE SPECIFICATION

AA 193 32
Rev. No. 10
PAGE 1 OF 7

# **CARBON STEEL FORGINGS, CLASS-3**

î

#### 1.0 GENERAL:

This specification governs the quality requirements of Carbon Steel Forgings, class 3.

ĺ

#### 2.0 APPLICATION:

Suitable for general engineering purposes.

#### 3.0 CONDITION OF DELIVERY:

Normalised/Normalised and tempered.

Rough machining of the forgings shall be carried out, unless otherwise specified in the BHEL order/drawing.

#### 4.0 COMPLIANCE WITH NATIONAL STANDARDS:

The forgings shall comply, in general with the requirement of the following National standards and also meet the requirements of this specification.

#### 5.0 DIMENSIONS AND TOLERANCES:

The dimensions and tolerances shall be as specified in the order/ drawing. Wherever these are not specified, specified, the machining allowances and tolerances shall be as specified below:

For finish machined drawings: 3 ± 1 mm

For rough machined drawings: ± 1 mm

Revisions: 36 <sup>th</sup> MOM OF MRC FCF+HTM			APPROVED: INTERPLANT MATERIAL RATIONALISATION COMMITTEE-MRC (FC&F+HTM)		
Rev. No. 10	Rev. No. 10 Amd.No. Reaffirmed			Issued	Dt. of 1st Issue
Dt. 23.01.2007 Dt: Year:04-11-2011		HARDWAR	Corp. R&D	JANUARY 1978	

$\mathbf{A} \mathbf{A}$	193	32
AA	147	7/

**Rev. No. 10** 

#### CORPORATE PURCHASE SPECIFICATION



PAGE 2 OF 7

#### 6.0 **MANUFACTURE**:

Forgings shall be manufactured from steel produced by the open hearth, electric or such other process as may be agreed to between BHEL and the manufacturer.

Steel shall be fully killed.

Sufficient discard shall be made from each ingot to ensure freedom from pipe, segregation and other defects.

The amount of hot working and finishing temperature shall be such as to ensure complete soundness and adequate uniformity of structure and mechanical properties after heat treatment. The forgings shall not be overheated.

The minimum reduction ratio when forgings are made out of ingots shall be 4:1.

For sizes above 250 mm ruling section, the minimum reduction ratio shall be 3.5:1

Note: Raw material like Ingots/Blooms/Billets required for forgings should be procured from BHEL approved sources along with test certificate."

#### 7.0 HEAT TREATMENT:

Forgings shall be normalised / normalised and tempered at suitable temperature to achieve the mechanical properties specified.

Test pieces shall also be heat treated along with the forgings they represent.

#### 8.0 FINISH:

As mentioned in the drawing.

#### 9.0 FREEDOM FROM DEFECTS:

The forging shall be free from defects, such as cracks, fold, flakes, seams, segregation, nonmetallic inclusions and other defects which may affect the utility of the forging.

#### 10.0 CHEMICAL COMPOSITION:

The melt analysis of steel and permissible variation in the composition of the forgings form the melt analysis shall be as follows:

Element	Melt and perce		Permissible variation, percent	
	Min.	Max.	porconi	
Carbon Silicon Manganese Sulphur Phosphorus	0.25 0.15 0.60 	0.35 0.35 0.90 0.040 0.040	± 0.03 ± 0.03 ± 0.04 + 0.005 + 0.005	
·				



#### CORPORATE PURCHASE SPECIFICATION

AA 193 3	32			
Rev. No.	10			
PAGE	3	OF	7	

#### Notes:

1. Elements not quoted above shall not be added to the steel, other than for the purpose of finishing the heat and shall not exceed the following limits:

Element	Percent, max.
Nickel	0.30
Chromium	0.30
Copper	0.25
Molybdenum	0.15
Vanadium	0.05
Tin	0.05
Boron	0.0003

- 2. When steel is aluminium killed or killed with both aluminium and silicon, the requirements of minimum silicon content shall not apply. For aluminium killed steel the total aluminium content shall be with in 0.02 to 0.05 percent.
- 3. Mo  $\leq$  0.15%, limiting to meeting conditions of Cr + Mo + Ni = 0.5%.

#### 11.0 TEST SAMPLES:

11.1 Unless otherwise specified in the order/drawing, test samples shall be taken form each melt and each heat treatment batch. Test samples should be cut from the heat treated forgings by cold process only and shall no further heat treatment.

Test samples shall be taken form locations indicted on the drawing, leaving enough material, if required for testing at BHEL's end, integral with forgings.

The samples shall be cylindrical or rectangular in shape and cut at a distance of 12.5mm below the heat treated surface.

- 11.2 When integral test pieces are not called for, a test sample, having similar reduction ratio and heat treatment, as the forgings it represents, shall be provided per heat, per heat treatment batch, for check testing at BHEL, along with the forgings. The samples shall be properly identified and correlated with the Heat/Heat treatment Batch No./ Test Certificate No. Test samples shall be taken, at a distance of 12.5mm below the heat-treated surface.
- 11.3 Test samples shall generally be taken in the longitudinal direction. However, for economic reasons or where the size/ configuration does not permit the same, test samples may be taken in the transverse or radial direction.

AA 193 32

**Rev. No. 10** 

CORPORATE PURCHASE SPECIFICATION

बी एच ई एल सिक्ष्म

**PAGE** 4 **OF** 7

#### 12.0 MECHANICAL PROPERTIES:

The test pieces, after being heat treated as per clause 7.0 above, shall show the following properties upto a limiting ruling section of 800 mm. Properties for thicker sections shall be subject to agreement between BHEL and the mainufacturer. Test methods are specified below:

12.1 Tensile test : IS:1608

12.2 Hardness test (Brinell) : IS:1500

12.3 Charpy Impact Value (2mm U-Notch) : IS:1499

This test applicable for forgings of sizes above 16mm only.

Limiting ruiing section, mm Sample **Property** (See Cl.11.3) Upto & >500 & >100 & > 300 & incl 100 upto 300 upto 500 upto 800 Longitudinal/ 490 470 450 Tensile 450 strength Transverse/ N/mm<sup>2</sup> Radial/Tangential 490 470 450 450 -----Yield Longitudinal/ strength Transverse/ 270 245 230 220 min, N/mm<sup>2</sup> Radial/Tangential Longitudinal 21 17 Elongation 19 18 Transverse on 5.65 √So 10 9 8 7 14 12 10 gauge length Radial 11 Tangential percent, min 16 14 13 12 Reduction in Longitudinal 42 40 35 32 area, percent Transverse 25 24 22 20 Radial 27 26 24 22 min. Tangential 34 32 32 140-192 140-192 135-190 \*Hardness. 135-190 Brinell, HB Longitudinal Charpy 35 27 23 31 Impact Value Transverse 18 14 12 16 (2mm, U-Notch) Radial 21 19 17 15 Tangential min.,Joules 26 23 20 17

**Note:** 1. Unless otherwise stated on the order/drawing, small forgings of non-critical nature weighing less than 300kg shall be accepted on the basis of chemical composition and hardness.

<sup>\* 2.</sup> Hardness test can be conducted only, when tensile test can not be performed.



#### CORPORATE PURCHASE SPECIFICATION

AA 193 32
Rev. No. 10
PAGE 5 OF 7

#### 13.0 ULTRASONIC TESTS:

î

13.1 For forgings ordered by BHEL, Hyderabad: Unless other wise specified on the drawing, ultrasonic test shall be carried out as per BHEL standard AA 085 01 18 and norms of acceptance shall be as per category 2.

3.13.2 For forgings ordered by other units: If specified on the drawing/order, ultrasonic test shall be carried out as per BHEL standard AA 085 01 18 and norms of acceptance shall be as per category 2, unless otherwise specified.

#### 14.0 ADDITIONAL TESTS:

If specified in the drawing/order, the following tests shall be conducted:

14.1 Bend Test (Longitudinal):

The test pieces (230mm long and 32 mm square with edges rounded off, where the dimensions permit) shall be capable of being bent cold by direct pressure without fracture, until the sides are parallel, round a mandrel having a diameter of 44 mm when tested as per IS:1599.

- 14.2 Magnetic particle test.
- 14.3 Any other tests: Norms of acceptance shall be as specified in the drawing/order.

#### 15.0 SCOPE OF THIRD PARTY INSPECTION:

Wherever, separate quality plan is not attached, the scope of third party inspection shall be as follows:

- 1. Review of supplier's declared chemical composition.
- 2. Selection of test samples for mechanical tests and witness of mechanical tests.
- 3. Witness of Non-destructive tests as applicable.
- 4. Review of HT charts.
- 5. Dimensional inspection.

#### **16.0 TEST CERTIFICATE:**

Three copies of test certificates shall be supplied unless otherwise stated in the order, preferably in the test certificate format annexed to this specification (Annexure 1).

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

The following details shall be furnished in the test certificate:

- i) Reduction ratio
- ii) Dimensional Inspection.
- iii) Chemical composition including trace elements.
- iv) Results of mechanical tests.
- v) Results of Ultrasonic test
- vi) Details of heat treatment
- vii) Results of additional tests called for in the drawing/order.

$\mathbf{A}\mathbf{A}$	193	32

# Rev. No. 10 CORPORATE PURCHASE SPECIFICATION



PAGE 6 OF 7

#### 17.0 PACKING & MARKING:

Forgings shall be suitably packed to prevent corrosion and damage during transit.

Machined surfaces shall be properly protected with anticorrosive compounds.

Each package or forging (when supplied separately) shall be legibly marked with the following information:

AA 193 32 : Carbon Steel Forgings, Class 3

Î

BHEL Order No.

Suppliers Name

Consignment/ Identification No.

Batch No.

Weight.

#### 18.0 REFERRED STANDARDS (Latest publications Including Amendments):

- 1) AA 085 01 18
- 2) IS:1499
- 3) IS:1500
- 4) IS:1599

- 5) IS: 1608
- 6) 2004



#### **CORPORATE PURCHASE SPECIFICATION**

AA 193 32

**Rev. No. 10** 

**PAGE** 7 **OF** 7

## ANNEXURE-I: RECOMMENDED TEST CERTIFICATE FORMAT FOR FORGINGS

					TEST		JER'S NAME IFICATE			SDME					
	Customer: TC No. & Date: PO No.: Process of Meltin Deoxidisation Pro- Forging Method: BHEL's Reference Discard: Top	ocess:		om	% %	OLITI	IIIOATE	9. 10. 11. 12. 13. 14.	Redu Ratio Batc Heat Spec Test Supp	iction ) h No.: /Melt No.	₿ Blook Nos. e ingot/				
					15.1	FORGING	SCOVERED	BYTESTCE	RTIF	CATE					
	S.No.			Drawin	g No. & II	tem No.		Desci	ription				Quantity	& Weight	
					16	CHEMICA	LCOMPOSI	TON /PERC	ENT)					-	
	Element		С	Si	Mn	s	Р	TOTAL ENG							
		Min.							+		_		-		
	As Per Specn.	Max.							+						
	Actual Values														
							EATMENT d by Records	r Chart Wh	ADAV4	ar called f	or)				
_	0		He	ating Ra				1			T		5		
_	Condition			℃/hr.			Γemp.°C	Soa	aking	Time, Hrs	-	Cooling	Rate, ℃/hr	Cooling	Medium
				_											
					18.	MECHAN	ICAL PROPE	RTIES							
					,	r.s.	% Elongatio	ın		Hardnes	s	Impact		Bend Test	
				T.S. mm²	0.5	/0.2% N/mm²	5.65√S GL			BHN(Min values)	.3	Value Joules	Angle of bend	Dia of mandrel	Result
	As Per	Min.	12 8800		10000000										
	Specn.	Max.													
_	Actual Values														
9. '	SURFACEFINIS called for in the								-						
0.	DIMENSIONAL														
U.	DIMENSIONALI	INSPECTION			21	NON DES	TRUCTIVE	сете							
	Nature of Test		Ī	Assent	ance leve			umentused		I	ange		Results	Any other	r datail
	Ultrasonic			Ассери	arice leve	'	msu	ument useu		n n	ange		results	Ally office	detail
	Radiographic														
	Dye penetrant/				un /										
	Magnetic Partic	le			22	METALLO	OGRAPHICE	XAMINATIO	N						
			(To !	be condu			nd photo mic			ached alo	ng with	a report)			
	Location of Sam	nple	E	tchant u	sed	М	agnification		onstitu bserv		'	Relative 9	6		
			ļ												e
	Microstructure			Macroet	cn	ln	clusion Ratir	g							
23.	OTHER TESTS	IF ANY /MICE	OSCOF	ac suu	PHURPO	INTS ET	2)								,
4.	IDENTIFICATION						<u> </u>								
	We hereby certi	fy that the item	s menti				d and inspec	ed in our pre	sence	e and are f	ound to	be in acc	ordance with d	rawings,	
	specifications a SIGNATURE, N INSPECTING O DATE:	AME & SEAL									C	HIEFOF	E, NAME & SE QUALITY CON TALLURGIST C	TROL	PLIER
	INSTRUCTION	s									U				
	MOTHOCHOR														





#### CORPORATE PURCHASING SPECIFICATION

AA 195 11 Rev. No. 09

PAGE 1 OF 6

#### **CARBON STEEL CASTINGS-FUSION WELDING QUALITY**

#### 1.0 GENERAL

This specification governs the quality requirements of Carbon Steel Castings-Fusion Welding Quality.

#### 2.0 APPLICATION

For pressure containing parts for high temperature service and of quality suitable for assembly with other castings or wrought steel parts by fusion welding.

#### 3.0 CONDITION OF DELIVERY

Normalised / Normalised & tempered

Rough machining of the castings shall be carried out, unless otherwise specified in BHEL order/drawing.

Castings shall not be painted

#### 4.0 COMPLIANCE WITH NATIONAL STANDARDS

There is no Indian standard covering this material. However, assistance has been derived from ASTM A 216-1993, Gr: WCC, in preparing this specification.

#### 5.0 DIMENSIONS AND TOLERANCES

The castings shall be true to the pattern/drawing.

Holes for machining up to and including 50 mm in diameter are to be cast solid, unless otherwise stated in BHEL order/drawing.

Unless otherwise specified in BHEL order/drawing, untoleranced dimensions for the castings shall be as per tolerance class 4 of BHEL standard AA 023 04 02.

Revisions:  36 <sup>th</sup> MOM of MRC-FCF+HTM			APPROVED: INTERPLANT MATERIAL RATIONALISATION COMMITTEE-MRC (FCF+HTM)				
Rev. No. 09	Amd.No.	Reaffirmed	Prepared	Issued	Dt. of 1st Issue		
Dt: 01.10.2005	Dt:	Year;04-11-2011	HYDERABAD	Corp. R&D	MARCH, 1978		

AA	195	11
AA	173	

**Rev. No. 09** 

#### CORPORATE PURCHASING SPECIFICATION



PAGE 2 OF 6

#### 6.0 MANUFACTURE

The steel for the castings shall be made by basic electric furnace process or such other process as may be agreed to between BHEL and the manufacturer.

The steel shall be fully killed.

#### 7.0 HEAT TREATMENT

Heat treatment shall be carried out at suitable temperatures to give the properties specified.

Any flame or arc cutting which may have to be done, shall be carried out before heat treatment.

Test pieces shall also be heat treated along with the castings they represent.

#### 8.0 FINISH

All castings shall be properly fettled and dressed and all surfaces shall be thoroughly cleaned.

Machined surfaces shall have the surface finish as indicated in the drawing

#### 9.0 FREEDOM FROM DEFECTS

Castings shall be free from defects such as porosity, blow holes, sand inclusion, shrinkage, cavities, hard spots, cold shuts, cracks, etc., which may adversely affect machining and utility of castings.

When it is necessary to remove risers by flame cutting, care shall be taken to make the cut at a sufficient distance from the body of the casting so as to prevent any defect being introduced into the casting due to local heating.

#### 10.0 CHEMICAL COMPOSITION

The melt analysis of steel and the permissible variation in the composition of the castings from the melt analysis shall be as specified below:

	Melt analysis,	Permissible
Element	Percent, max	Variation, percent
*Carbon	0.25	0.02
Silicon	0.60	0.05
*Manganese	1.20	0.06
Sulphur	0.045	0.008
Phosphorus	0.040	0.008



#### CORPORATE PURCHASING SPECIFICATION

AA 195 11	
Rev. No. 09	

PAGE 3 OF 6

**Note:** 1. In the interest of uniform welding, the concentration of the unspecified alloying elements shall not exceed the limits specified below. Whenever specified in the enquiry/order, the test results of these elements shall also be included in the test certificate. However, the manufacture shall ensure that these elements are within the limits specified.

Element	Percent, Max.				
Copper	0.30				
Nickel	0.50				
Chromium	0.50				
Molybdenum	0.20				
Vanadlum	0.03				
1. Total content of these unspecified elements	1.00				

<sup>2.</sup> For each reduction of 0.01% below the specified maximum carbon content, an increase of 0.04% Mn above the maximum specified will be permitted up to a maximum of 1.40%.

#### 11.0 TEST SAMPLES

Manufacturers shall carryout mechanical testing as per following sampling plan.

- 11.1 Unless otherwise specified for castings weighting up to 500 kg. piece weight one keel block, separately cast per melt per heat treatment batch shall be supplied according to the sketch given below:
- 11.2 Unless otherwise specified castings weighing more than 500 kg shall be provided with integrally cast keel block.
- 11.3 Retests shall be carried out as per IS: 8800
- 11.4 Keel blocks with proper identification and representative of the castings shall be supplied along with the consignment for testing at BHEL works.

#### AA 195 11

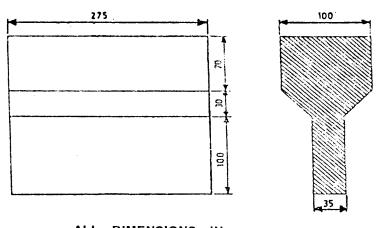
**Rev. No. 09** 

#### CORPORATE PURCHASING SPECIFICATION



#### PAGE 4 OF 6

#### **DETAIL OF KEEL BLOCK**



#### ALL DIMENSIONS IN mm

#### 12.0 MECHANICAL PROPERTIES:

The test pieces, after being heat treated as per clause Cl.7.0 above, shall show the following properties:

#### 12.1 Tensile

The test pieces shall show the following properties when tested in accordance with ASTM A 370

Tensile strength : 485 - 655 N/mm²

Yield strength : 275 N/mm², min.

Elongation on 50mm gauge length : 22 percent, min.

Reduction in area : 35 percent, min.

#### 12.2 Hardness (Brinell): for information only:

150 - 205 HB.

#### 13.0 NON-DESTRUCTIVE TESTS:

The following tests shall be conducted:

- 1) Ultrasonic examination to BHEL standard AA 085 01 04 / AA 085 01 05
- 2) Liquid penetrate examination to BHEL standard AA 085 0131.
- 3) Magnetic particle examination to BHEL standard AA 085 01 33 and norms of acceptance as per BHEL standard AA 085 01 34.

Norms of acceptance shall be as specified in BHEL order/drawing



#### CORPORATE PURCHASING SPECIFICATION

AA 195 11	
Rev. No. 09	_

PAGE 5 OF 6

#### 14.0 REPAIR OF CASTINGS

The manufacturer without the prior permission of BHEL shall not carry out repair of castings.

#### 15.0 SCOPE OF THIRD PARTY INSPECTION:

Wherever, separate quality plan is not attached, the scope of third party inspection shall be as follows:

- 1. Review of supplier's declared chemical composition.
- 2. Selection of test samples for mechanical tests and witness of mechanical tests.
- 3. Witness of Non-destructive tests as applicable.
- 4. Review of HT charts.
- 5. Dimensional inspection.

#### 16.0 TEST CERTIFICATES

Three copies of test certificates shall be supplied unless otherwise stated in BHEL order, preferably in the test certificate format annexed to this specification (Annexure -1).

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

The test certificate shall bear the following information:

- i) Dimensional inspection.
- ii) Detail of heat treatment
- iii) Chemical composition & unspecified alloying elements whenever called for
- iv) Results of mechanical tests
- v) Results of NDT tests.

#### 17.0 PACKING AND MARKING

Castings shall be suitably packed to prevent corrosion and damage during transit. Machined surfaces shall be properly protected with anticorrosive compounds. Each package or casting (when supplied separately) shall be legibly marked with the following information.

AA 195 11: C.S. Castings - F.W. Quality

BHEL Order No.

Consignment/Identification No.

Melt No.

Weight

Supplier's Name

#### 18.0 REFERRED STANDARDS (Latest Publications Including Amendments):

1. AA 023 04 02 2. AA 085 01 04

3. AA 085 01 05

4. AA 085 01 31

5. AA 085 01 34

6. ASTM A 216

7. ASTM A 370

8. IS: 8800

$\mathbf{A}^{A}$	1	95	11	

Rev. No. 09

## CORPORATE PURCHASING SPECIFICATION



PAGE 6 OF 6

#### ANNEXURE 1 - RECOMMENDED TEST CERTIFICATE FORMAT FOR CASTINGS

				•	SŲ	PPLIERS	'S NAM	ME /	AND AD	DRES	s					
. Customer: . TC No. & D . PO No.: . Process of . Deoxidisati	Mellin	-							7. E 8. <del>j</del> 9. S	Batch f Heat C Spec	ode ;	<b>e</b> :				
				-		II. CASTI	NG CC	VE	RED BY	T.C.						·
SI. No.	$T^-$		Dra	awing N	lo. &	item No.			T		scription			Quant	ity & V	Veight
				•							,					
	_ <del>_</del>				2. C	HEMICAL	. COM	POS	ITION (	PERC	ENT)					
Element	To	s	si	Mn	s	Р	T		T		ا		İ		Ţ	T .
As per Min.	$\top$															
Spec. Max		1	j					_	T-			 				1
A short Makes						1			+	<del> </del>	<del>†</del> -				<del> </del>	+-
Actual Values				İ	L					<u></u>		l				
			(	(To be	acco	13. mpanied b			Chart, v		er called	for)				
Condition			Ter	mp.ºC					Soaking	Time.	Hrs		C	ooling	Mediu	ım
							<u></u>				·					
<del></del>	<del></del>		г	Y.S.		14. MEC % E on			PROPE	RTIES	γ					
		r.s. /mm2	0.5/	1.3. 10.2% P N/mm2		GL 5.65 SO	% R.A Min	۸	Hardnes Min. 3 V		Impe Value, J		Bend			
As per " Min.																
Spec. Max																
Actual Value			†						_		<del>                                     </del>			-		
15. Surface (When c		or in t	he c	order/dr	<u>-</u>		1,		L		Ь		<u> </u>	1	<del></del>	
16. DIMENS					<i>3/</i>											
						17.NON	-DEST	RUC	TIVE T	ESTS						
Nature of Tes	a	ccept	anc	e Leve	ı	Instrumen	used		Ran	āe .	<u> </u>	Res	uits	Any	other	details
Ultrasonic								1								
Radiographic																·····
Dye Penetra: Magnetic Par								T						$\top$		
18. OTHER	FESTS				<del>-</del> †	·								<u>.                                    </u>		
19. IDENTIF	ICATIO	NO NO	<del>-</del>		1											
We he	eby ce	riify th	al Ih drav	e ilems	meni	lioned abov	e have t	2000	tested an	nd Inspe	ected in c	ur pre	sence and	are	lound to	be in
Signature & S	al of U	he Insp	ecti	ing Offic		valione a	a puivi		J. 401.				of the Cl st of the S			Contro
Dale :				• ,						•		-	ale :	-ppm		
b) Test C c)-All the	is proc	les are	lot iing:	oe furnie	hed :	n process, i as per Purc ould be in b	chase Or lack in	rder c.	lent shoul and Spec	d be fu Ficalion	rnished e is, in A4	nd sh	ali not exc	eed 0	.009% r.	





#### CORPORATE STANDARD

AA 712 31 23

**Rev. No. 07** 

PAGE 1 OF 4

# SCREWS, CAP, HEXAGON SOCKET HEAD, PRODUCT GR. A, COARSE PITCH, STEEL, PROPERTY CLASS 12.9 (M3 - M36)

#### 1.0 DESIGNATION:

A hexagon socket head, cap screw of nominal size M10, length 30mm, coarse pitch, product grade A and of property clause 12.9 shall be designated as:

#### 1.1 On drawings:

- i) Material specification column: AA 712 31 23
- ii) Description column: SCRU CAP SOCK A M10 X 30 12.9

#### 1.2 On indents:

Screw Hex socket head, cap A M10 X 30 – 12.9: AA 712 31 23.

#### 1.3 For issuing enquiries and on purchase orders:

While issuing enquiries and purchase orders, delete BHEL standard number from above description and add the information given under clause 2.0

#### 2.0 COMPLIANCE WITH STANDARDS:

2.1 Dimensions, Tolerances & General Requirements: As per IS: 2269 - 2006.

#### 2.2 Mechanical properties:

To conform to property Cl. 12.9, as specified in table 3 of IS: 1367, Part 3

#### 2.3 Threads:

Pitch-coarse to IS: 4218, Part 2 Tolerance quality: Medium. Tolerance class: 5g - 6g.

#### 2.4 Identification Marking:

As stated in clause 9 of IS: 1367, Part 3 (except for sizes up to M10)

- 2.5 Surface Discontinuity: As per IS: 1367, Part 9
- **2.6 Finish:** Plated as specified in BHEL order.

#### 3.0 NOTE:

- 3.1 Length and diameter combination (refer Table 1 on page 3 of 4) between the bold lines should only be used.
- 3.2 Sizes to the left side of the dotted lines are threaded to the head within 3P.

Revisions : As MOM of WG	_	9.1.2 of 29 <sup>th</sup>	APPROVED:  INTERPLANT  STANDARDIZATION COMMITTEE (WG-F)								
Rev. No. 07	Amd.No.		Prepared	Issued	Dt. of 1st Issue						
Dt:15.04.2011	Dt:	Year:	BHOPAL	Corp. R&D	January, 1977						

AA 712 31 23

**Rev. No. 07** 

# **CORPORATE STANDARD**



#### PAGE 2 OF 4

- 3.3 For screw threads, general (Metric) refer to BHEL standard AA 023 18 00
- 3.4 For tolerance grade, position and class refer to BHEL standard AA 023 02 01
- 3.5 Screws to this standard would be unplated, divisions wishing to have plated Screws would have to get them plated.
- 3.6 Weights given in this standard are for general reference only and are not meant for commercial transaction.
- 3.7 The screws to this standard can also be supplied with diamond / straight knurling on the external side of head.
- 3.8 When fasteners are to be tested with in BHEL, the sampling and acceptance plan shall be as per IS:1367, Part 17

#### 4.0 REFERRED STANDARDS (Latest publications including amendment):

- 1) IS: 1367, Pt.3, 9 &17
- 2) IS: 2269
- 3) IS: 4218, Pt 2
- 4) AA 023 02 01

- 5) AA 023 18 00
- 6) AA 023 18 50

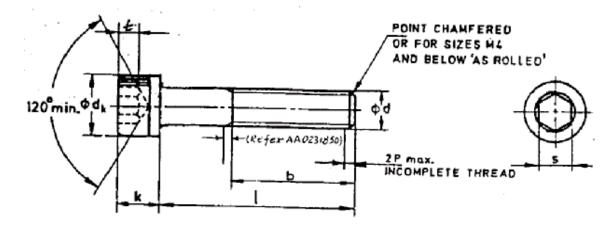


FIG. 1



# **CORPORATE STANDARD**

AA 712 31 23

**Rev. No. 07** 

PAGE 3 OF

All dimensions are in 'mm' TABLE

Corporate Sub-Code Numbers only are shown in Table 1. <del>ન</del> બ બ 4

NOTE

Weights have been shown in kg per 1000 no-For threaded runout refer AA 023 18 50.

Lengths above the thick dashed line are threaded to the head within 3P.

			_	_	-		•	т-	-			_		_			_								
1	002	L		L			L	L				L					L				L				L
	180			L.	L		Ĺ												_				Ш	L	
	091																								
	051	Γ	Γ	Γ	Γ		Γ				Г					_									Г
1 1	140	Г	Т	Т	Γ	Г	Γ	Г		Γ	Г									557			П		Γ
	130	Γ	T	Τ	Γ	Γ	Г	Г		Γ	Γ	Γ										581			
	120	Г	Т	Т	Γ	Г		Γ	Г	Γ	Γ										П		П		
	011	T	T	T		Т	$\vdash$	T		Γ	Г	Г					1		Г		Г	Г	П		
1	100	T	T	+		Т	Т	T		Γ		Г				33	681		Г	549	479		П	_	Г
	8	T	T	Τ	$\vdash$	Т	Τ	T	Г	Τ	Г	t	Г	56		· ·	Г	Т		530	435	573	П		Г
	8	T	十	✝	Τ	✝	$\vdash$	┢	_	Г	Н	468	583	Ť.								565	П	_	r
[3]	25	$\top$		T	Г	Г	1			r		213	55.7			310	2	35	Š		Г		П		Г
8	5	Г	Т	Г	Г	Г	Γ	Г		Г	Г	Г		287	73.7		Γ			ũ	363				Γ
NOMLENGTH(L)	89	Γ	T		ľ	Γ	Γ			131	309	홌	49.5	5	707		Γ		Γ					$\overline{}$	
₹	9	Γ	Π	T		Г	Γ	Г	_	Γ	Г	8	8		Г	Г	Γ		_	514	333				Г
Ž	S	Τ	1	T	Τ	Г	Γ	Г	Г	Γ	Г	450 190	43.4		Г		T			-			П		Г
1	50		Т	Γ	Γ	Г	Г	770	5	133	349	낊	403434	33	2	ĕ	103	됬	麗	Š	Г	Г	П		Г
	45	Τ	T	Τ	┢	✝	Τ	Ť	Т	Г	Г	<del>-</del>	37.3	247255	ŭ		_		Ė		Г	Г	П		1
li	9			Г	Τ	T		83	600	113	21.0	77	7.7	8	83.	χ	장	336	8			Г	П		Г
li	33	Г	Т	Г	Г	Г	Г	Γ		103	8	433 17444	310						Г			Г	П		Г
	30	Γ					Γ	020	8.75	093 373	17.1	8	28031,034,7	33	39.6	8	 8								
	22	L	L	L		L	L	g	ģ	663	151	28	ភ	ង	9										
ll	œ	L		387		417		8	853	<b> </b> \$80	13.1	140	ij	176	32										Г
	91	L		L	L			Š	5.73	395															
	11							018	5.03																
	2	Ľ				<del>2</del>																			
	66	L	1		_	_	L	L		L						_									
		₽		┡	H	ᆫ	L				H		_	_	Ш		Н	$\vdash$	_		Ц	_	Ц	_	L
	•	-	╁	╁	Ŀ	2	Ŀ	2	_	2	L	9		.2	H	2	-	-3	-	.2		_9	Н	-52	-
		Sub-Code	Weight	Sub-Co	Weight	Sub-Coc	Weight	Sub-Coc	Weigh	Sub-Codo	Weight	Sub-Code	Weight	Sub-Code	Weight	Sub-Code	Weigh	Sub-Code	Weight	Sub-Code	Weight	Sub-Code	Weight	Sub-Cod	Weight
E -	or refined		×2	8		ผ		7		88	1	8			3	;	;	6		8		6		38	
ket	₩ ₩	=	2	7		25	1		,	7		,	,	,	- 1		,	2	2	13	3	15.5		0	
Socket	Across Flats Max Min	2.56	252	308	302	4005	707	5(9)5	5.02	6095	602	8.115	8.025	18.27 10.115	10:025	14.142	14.032		1705	19.275	19:065	45.39 22.275	22.065	54.46 27.275	27.065
ad	B H H S	5.68	532	FI	6.78	872	87,8	10.33	87.6	13.27 6.095	17.7	16.27	15.73 8.025	18.77	17.73	3433	795	50.05	29.63	36.39	3561	45.39	197	9 大	55
Head	돌돌살	æ.	2.86	-	386	_	182	9	5.70	$\dashv$	7.64	2	196	12	1.57	16	15.57	a	19.48	ಸ	23.48		8#87	ĸ	3530
,	Nom o		25	3		MS		7		- SE		410		412		Alk	! - !	M20		Š	_	- PGW	_	M36	-

		~ 4	
$\mathbf{A} \mathbf{A}$	712	-31	-23

**Rev. No. 07** 

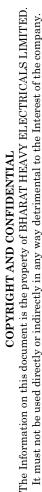
# **CORPORATE STANDARD**



PAGE 4 OF 4

#### **EXPLANATORY NOTE:**

The	following	changes	have been	made in	this rev	ision:
CI <sub>2</sub>	.1. 2.2. 2.	3 & 2.5 -	modified.			





# CORPORATE STANDARD

AA7171001 Rev. No. 06

PAGE 1 of 3

# PINS, CYLINDRICAL, STEEL, UNHARDENED (TOLERANCE m6)

#### 1.0 DESIGNATION

A cylindrical pin of nominal diameter 8 mm, tolerance on diameter m6 and nominal length 65 mm shall be designated as:

**1.1** On drawings:

i) Material specification column : AA7171001

ii) Description column : PIN CYL RND END 8 m 6 x 65-St

**1.2** On indents:

Pin cylindrical 8 m 6 x 65: AA7171001

**1.3** For issuing enquiries and on purchase orders:

While issuing enquiries and purchase orders, delete BHEL standard number from the above description and add the information given under clause 2.0.

#### 2.0 COMPLIANCE WITH STANDARDS:

**2.1** Dimensions, Tolerances and General requirements:

As per IS: 2393-2010 Table-1.

**2.2** Material:

Carbon steel with minimum tensile strength of 500 N/mm<sup>2</sup> as specified in IS: 5517.

**2.3** Finish:

Free from burrs, scales and tool marks. The surface finish of the various surfaces shall be as shown in Table-1 of IS: 2393.

Revisions: As per	Clause 32.4 of	MOM of	APPROVED:						
MRC-F			INTERPLANT MAT	ΓERIAL RATIC	NALISATION				
			COMM	ITTEE - MRC	(F)				
Rev. No. 06	Amd. No.	Reaffirmed	Prepared	Issued	Dt. of 1st Issue				
Dt: 08-12-2014	Dt:	Year:	EDN, Bangalore	Corp. R&D	01-01-1977				

AA7171001 Rev. No. 06

PAGE 2 of 3

# CORPORATE STANDARD



#### 3.0 **NOTE**

- **3.1** Sizes (refer Table-1 on page 3 of 3) between the bold lines should only be used.
- **3.2** Weights given in this standard are for general reference only and are not meant for commercial transactions.
- 3.3 When the fasteners are to be tested within BHEL, the following sampling plan based on IS: 6821 (Table-1) shall be followed as detailed below for physical properties.

LOT SIZE	SAMPLE SIZE	ACCEPTANCE NOS.
Up to 1000	5	0
1001 – 3000	8	0
3001 - 10000	13	0
10001 - 35000	20	0
over 35000	32	1

#### 4.0 REFERRED STANDARDS (Latest publications including amendment):

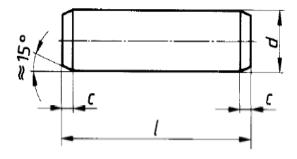
1) IS: 5517

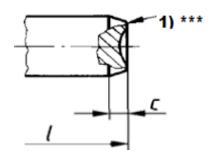
2) IS: 6821

#### **EXPLANATORY NOTE:**

The following changes have been made in this revision:

- In Clause 2.1, year of IS: 2393 is changed to 2010.
- In Clause 2.2, year of IS: 5517 is removed.
- Table-1 and figures modified





#### Note:

- 1) \*\*\* Radius and dimpled pin end permissible.
- 2) Corporate sub-code numbers are shown in Table-1.
- 3) Weights have been shown in kg per 1000 Nos.



# CORPORATE STANDARD

AA7171001

Rev. No. 06

PAGE 3 of 3

1) Corporate Sub-Code Nos. are shown below 2) Weights has been shown in kg / 1000 Nos.

Note:

All dimensions are in mm

																							Į,	200	<ul> <li>4) Weights that been shown in high 1000 100s.</li> </ul>	2	-	2	<u> </u>	,	2	
p @	o																Length	Length (L js15)										•	•	•		
	u	4 5	9	8	10	12	14	16 18	18 20	0 22	24	25	26 28	30	32	35	40	45	20	92	09	99	70 7	75 80	) 85	90	95 1	100	120 14	140 16	160 180	200
	Sub-code																															
	0.3 weight																															
	Sub-code						1;	130																								
N .	weight						0.	68.0																								
	Sub-code																															
2.5	0.4 weight																															
c	epoo-qnS			-	148		1;	156	164	4:		172		180	)																	
	weight			0	0.55		0.	0.88	1.10	10		1.38		1.66	9																	
	Sub-code			J	016				199	60		202		210	)																	
4 O	v.es weight			0	96.0				1.96	96		2.45		2.95	2																	
	epoo-qns													237		245		253														
0	weight weight													4.60	0	5.37		6.91														
	Sub-code						024		032	22		091		040		105	620															
٥	veight					رن	3.05		4.38	38		5.49		09.9	0	7.71	8.82															
	Sub-code								270	0,		288		296	3		300	318	326		)	290		334	4							
0	weight								7.76	9,		9.73		11.70	0,		15.64	17.62	19.59		2	25.50		31.42	42							
Ç	Sub-code								075	.2				342	٥.	083	350		369	-	121			377	7							
	2 weight								12.07	20				18.23		21.31	24.39		30.56		36.72			49.04	04							
2	Sub-code																															
	weight																															
4	Sub-code																					(r)	385									
	weight																					10	109.50									
0	Sub-code																															
	weight																															
25	Sub-code			1																												
	weight																															
30	Sub-code																															
	weight																															
40	Sub-code																															
	weight																															
C	Sub-code																															
	weight										_																					





# PLANT STANDARD HYDERABAD

HY0230261

REV. NO. 03

PAGE 1 OF 2

## LIST OF APPLICABLE STANDARDS ON LIMITS, FITS AND TOLERANCES

#### 1.0 SCOPE:

The standard covers the list of applicable standards on Limits, Fits and Tolerances. These standards are applicable unless or otherwise specified.

#### **2.0** LIST OF APPLICABLE STANDARDS:

SL.	STANDARD		TITLE
NO.	NO.		
1.	AA0230201	-	Limits and Fits (Tolerance grade, Position and Class).
2.	AA0230202	-	Limits and sizes for commercial bolts and nuts.
3.	AA0230204	-	Guide for selection of Fits.
4.	AA0230206	-	Standard limits for Shafts (upto 500 mm).
5.	AA0230207	-	Standard limits for Shafts (above 500 mm and upto 3150 mm).
6.	AA0230208	-	Allowable deviations for dimensions without specified tolerances (linear and angular).
7.	AA0230402	-	Permissible deviations for untoleranced dimensions of castings.
8.	AA0230403	-	Tolerancing system ISO Metric Screw Threads
9.	AA0621101	-	Tolerances and Machining allowances for Flame cutting.
10.	AA0621104	-	General tolerances for welding constructions for length and angles.
11.	AA0621105	-	General tolerances for welded structures – form and position.

Revisions:			Issued:		
Withdrawn sta	andards deleted	(2 Nos.).	STANDARDS I	ENGINEERING I	DEPARTMENT
Rev. No. 03	Amd. No.	Reaffirmed:	Prepared: MANAGER	Approved:	Date of 1 <sup>st</sup> issue:
Dt. OCT. 06	Dt.	Year:	(STDS. ENGG.)	AGM (E&CC)	MAY, 1992

# HY0230261

**REV. NO. 03** 

PAGE 2 OF 2

# PLANT STANDARD **HYDERABAD**



#### NOTE:

1) AA 023 02 08

> Medium class of deviation is applicable, if the same is not mentioned on the drgs./specs.

2) AA 023 04 02

Tolerance class 5 is applicable, if the same is not mentioned on the drgs./specs.

AA 062 11 04 3)

Accuracy class A is applicable if the same is not mentioned on the drgs.

AA 062 11 05 4)

Accuracy class E is applicable, if the same is not applicable on drgs.





# PLANT STANDARD HYDERABAD

HY0230261

REV. NO. 03

PAGE 1 OF 2

## LIST OF APPLICABLE STANDARDS ON LIMITS, FITS AND TOLERANCES

#### 1.0 SCOPE:

The standard covers the list of applicable standards on Limits, Fits and Tolerances. These standards are applicable unless or otherwise specified.

#### **2.0** LIST OF APPLICABLE STANDARDS:

SL.	STANDARD		TITLE
NO.	NO.		
1.	AA0230201	-	Limits and Fits (Tolerance grade, Position and Class).
2.	AA0230202	-	Limits and sizes for commercial bolts and nuts.
3.	AA0230204	-	Guide for selection of Fits.
4.	AA0230206	-	Standard limits for Shafts (upto 500 mm).
5.	AA0230207	-	Standard limits for Shafts (above 500 mm and upto 3150 mm).
6.	AA0230208	-	Allowable deviations for dimensions without specified tolerances (linear and angular).
7.	AA0230402	-	Permissible deviations for untoleranced dimensions of castings.
8.	AA0230403	-	Tolerancing system ISO Metric Screw Threads
9.	AA0621101	-	Tolerances and Machining allowances for Flame cutting.
10.	AA0621104	-	General tolerances for welding constructions for length and angles.
11.	AA0621105	-	General tolerances for welded structures – form and position.

Revisions:			Issued:		
Withdrawn sta	andards deleted	(2 Nos.).	STANDARDS I	ENGINEERING I	DEPARTMENT
Rev. No. 03	Amd. No.	Reaffirmed:	Prepared: MANAGER	Approved:	Date of 1 <sup>st</sup> issue:
Dt. OCT. 06	Dt.	Year:	(STDS. ENGG.)	AGM (E&CC)	MAY, 1992

# HY0230261

**REV. NO. 03** 

PAGE 2 OF 2

# PLANT STANDARD HYDERABAD



#### NOTE:

1) AA 023 02 08

Medium class of deviation is applicable, if the same is not mentioned on the drgs./specs.

2) AA 023 04 02

Tolerance class 5 is applicable, if the same is not mentioned on the drgs./specs.

3) AA 062 11 04

Accuracy class A is applicable if the same is not mentioned on the drgs.

4) AA 062 11 05

Accuracy class E is applicable, if the same is not applicable on drgs.



HY10561
REV. NO. 04
PAGE 1 OF 5

#### 1.5% NICKEL-CHROMIUM-MOLYBDENUM STEEL BARS - H & T

Gr: 34 Cr Ni Mo 6 (Old Grade: 817 M40 (En24))

#### 1.0 **GENERAL**:

This specification governs the requirements of 1.5% Nickel-Chromium-Molybdenum Steel Bars in hardened and tempered condition.

#### **2.0** APPLICATION:

For general engineering applications requiring high tensile strength combined with good ductility and resistance to shock.

#### 3.0 CONDITION OF DELIVERY:

Hot Rolled/Forged, Hardened and Tempered.

#### 4.0 <u>COMPLIANCE WITH NATIONAL STANDARDS:</u>

This specification complies with DIN EN 10083: 1996; Quenched and tempered: Technical delivery conditions for special steels; Grade 34 Cr Ni Mo 6.

#### **5.0 DIMENSIONS AND TOLERANCES:**

- **5.1** Sizes: Bars shall be supplied to the dimensions specified on the order.
- **5.1.1 Length:** Unless otherwise specified, hot rolled bars shall be supplied in 3 to 6 metres length or in multiples with maximum 10%, shorts down to 1 metre.

Forged bars shall be supplied in lengths of 1.5 to 3.0 metres.

#### **5.2** Tolerance:

- **5.2.1** Hot rolled bars: The bars shall not vary from specified diameter or distance across flats by more than  $\pm 2\frac{1}{2}$  %.
- **5.2.2 Forged bars:** The tolerance on the forged bars shall be as follows.

<b>Revisions:</b> Updated in line	with EN10083-1.		Issued : STANDARDS ENGINEERING				
			DEPARTMENT				
Rev.No. 04	Amd.No.	Reaffirmed	Prepared:	Approved:	Dt.of 1st Issue		
Dt. <b>FEB. 06</b>	Dt.	Year:	STDS	SR.MGR(TS)	JAN., 1982		

#### HY10561

REV. NO. 04

PAGE 2 OF 5

# PLANT PURCHASING SPECIFICATION HYDERABAD



<u>Diameter, mm</u> <u>Tolerance, 8 mm</u>

50 mm to 175 mm + 8.0 mm

Above 175 mm + 12.5 mm

**Note:** (Hot rolled & forged bars).

Insignificant surface defects in the form of dent and ripple marks are permissible provided their depth does not exceed half the tolerance on each size.

#### **6.0 MANUFACTURE:**

The method of steel manufacture is left to the discretion of the manufacturer. However air or mixed air and oxygen bottom blown converter process is not acceptable. The steel shall be fully killed.

#### 7.0 FREEDOM FROM DEFECTS:

The bars shall be free from surface and internal defects such as piping, segregation etc.

#### **8.0 HEAT TREATMENT:**

The recommended heat treatment shall be as follows:

**Hardening:** 830 - 860° C followed by oil quenching.

**Tempering:** 660° C max.

Note (1) Tempering between 280 - 500°C shall be avoided.

- (2) The cooling rate between the tempering temperature and 200° C shall be such as to avoid temper embrittlement.
- (3) The actual heat treatment cycle followed shall be reported in the Test certificate.

#### 9.0 SELECTION OF TEST SAMPLES:

- **9.1** Chemical Analysis: Each melt shall be analysed for chemical composition.
- **9.2 Hardness:** Hardness shall be checked for 5% of the bars of same size, melt and heat treatment batch. In any case minimum two bars shall be tested for hardness.
- **9.3 Mechanical Properties:** One sample per lot, comprising of bars of same size, melt and heat treatment batch shall be taken for mechanical tests.

# Copyright and Confidential The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED. It must not be used directly or indirectly in any way detrimental to the interest of the company.





HY10561

REV. NO. 04

PAGE 3 OF 5

#### 10.0 CHEMICAL COMPOSITION:

The melt analysis of material shall be as follows:

Elei	ment	С	Si	Mn	Ni	Cr	Mo	S	P
Melt	Min.	0.30	0.10	0.50	1.30	1.30	0.15	-	-
analysis	Max.	0.38	0.40	0.80	1.70	1.70	0.30	0.035	0.035
Permissible variation in check Analysis		± 0.02	± 0.03	± 0.04	± 0.05	± 0.05	± 0.03	+ 0.005	+ 0.005

#### 11.0 MECHANICAL PROPERTIES:

The mechanical properties shall be as follows:

Ruling Section, mm (d=dia, t=thickness)	Tensile strength N/mm <sup>2</sup>	0.2% Proof stress, min. N/mm <sup>2</sup>	Elongation min (L=5d)	Reduction in area % min.	Notch bar impact strength, min. (ISO -V notch)	Hardness BHN
$d \le 16 \ (t \le 8)$	1200-1400	1000	9	40	35	360-420
$16 < d \le 40  (8 < t \le 20)$	1100-1300	900	10	45	45	330-390
$40 < d \le 100$ (20 < t \le 60)	1000-1200	800	11	50	45	300-360
$100 < d \le 160  (60 < t \le 100)$	900-1100	700	12	55	45	270-300
$160 < d \le 250$ $(100 < t \le 160)$	800-950	600	13	55	45	240-285

**NOTE:** 1) The tensile test shall be carried out in accordance with IS:1608 or any other reputed national standard.

2) The charpy impact test shall be performed in accordance with IS:1757 or any other reputed national standard. The specimen size shall be 10x10x55mm with a 2 mm V-Notch.

An impact test shall consist of three specimens from a single test location, the average value of which shall be as specified above.

Only one value of the three can be below the specified minimum, but in no case below 2/3rd of the specified average value.

All the three test results shall be reported in test certificate.

**REV. NO. 04** 

PAGE 4 OF 5

# PLANT PURCHASING SPECIFICATION HYDERABAD



**11.1 Hardness test:** The hardness shall be tested in accordance with IS 1500 or any other equivalent international standard.

#### **12.0 ULTRASONIC TEST:**

Each bar above 50 mm shall be tested ultrasonically in accordance with corporate standard AA 085 01 18 to ensure freedom from internal defects. The norms of acceptance shall be as per category 2 of the above standard.

#### **13.0 <u>RETESTS:</u>**

- 13.1 If any of the test specimen fails to meet the requirements specified in cl. 11, the sample bar from which the test specimen was cut shall be rejected and two further sample bars from the same lot shall be taken for retest.
- 13.2 If the retests also fail, manufacturer is at liberty to reheat treat the bars in question. Not more than two reheat treatments are allowed. However, retempering is not considered as reheat treatment.
- 13.3 If after reheat treatment, the mechanical properties are not complied with, the entire lot shall be rejected.

#### 14.0 INSPECTION AT SUPPLIER'S WORKS:

- 14.1 BHEL representative/BHEL appointed Inspection Agency shall have free entry and access to all areas where the manufacture of the bars is carried out. All reasonable facilities shall be extended to him including labour wherever necessary.
- 14.2 BHEL representative/BHEL appointed Inspection Agency shall be given sufficient advance intimation to witness the various processes, tests, etc. Punching and identification of test coupons and execution of various tests shall be done in presence of BHEL representative/BHEL appointed Inspection Agency.

#### **15.0 TEST CERTIFICATE:**

Five copies of the test certificate shall be supplied bearing the following details.

BHEL Order No

BHEL Specification No: HY 10561/ Rev. 04

Supplier's Name:

Identification No:

Size

Cast No.

Details of Heat treatment.

Results of Chemical analysis, mechanical tests including hardness & NDT called for in this specification.





HY 10561

REV. NO. 04

PAGE 5 OF 5

#### 16.0 PACKING AND MARKING:

The bars shall be suitably packed in bundles to prevent corrosion and damage during transit.

Bars above 50mm in diameter or of equivalent cross-sectional area shall be stamped HY 10561/ Rev.04 and cast no. on the side near the end or on the end face.

A metal label shall be securely attached to each bundle and shall bear the following information for the sizes less than 50 mm diameter.

HY 105 61 Rev. 04 BHEL Order No. Consignment or Identification No: Cast No. Size & Weight. Supplier's Name.

#### 17.0 REJECTION & REPLACEMENT:

In the event of the bar material proving defective in the course of further processing at BHEL, the same shall be rejected notwithstanding any previous acceptance.

The supplier shall replace the material forging at his own cost and the rejected bars shall be returned after all the commercial conditions are satisfied.



HY10565
REV. NO. 03
PAGE 1 OF 4

#### 1% CHROMIUM CASE HARDENING STEEL BARS, ANNEALED

(GR: 16 Mn Cr 5)

#### 1.0 GENERAL:

This specification governs the requirements of 1% chromium case hardening bars.

#### 2.0 <u>APPLICATION</u>:

For the manufacture of case hardened components.

#### 3.0 <u>CONDITION OF DELIVERY</u>:

The bars shall be supplied in the hot / cold rolled/ forged and Annealed condition

#### 4.0 COMPLIANCE WITH NATIONAL STANDARDS:

This specification complies with EN10084-1998: Case hardening steels.

Gr: 16 Mn Cr5

#### 5.0 <u>DIMENSIONS AND TOLERANCES:</u>

**Dimensions:** As specified in the order. Unless otherwise specified, the hot/cold rolled bars shall be supplied in random lengths of 3 to 6 meters. Forged bars shall be supplied in lengths of 1.5 to 3.0 metres.

#### **5.2** Tolerance:

- **5.2.1 Rolled bars:** The bars shall not vary from specified diameter or distance across flats by more than  $\pm 2\frac{1}{2}$  %.
- **5.2.2 Forged bars:** The tolerance on the forged bars shall be as follows.

<u>Diameter, mm</u> Tolerance, mm

50 mm to 175 mm + 8.0 mm

Above 175 mm + 12.5 mm

**Note:** (Hot rolled & forged bars).

Insignificant surface defects in the form of dent and ripple marks are permissible provided their depth does not exceed half the tolerance on each size.

<b>Revisions:</b> Revised in line v	with EN10084 (lat	test version).	Issued: STANDARDS ENGINEERING DEPARTMENT				
Rev.No. 03	Amd.No.	Reaffirmed	<b>Prepared:</b> MANAGER,	Approved:	Dt.of 1st Issue		
Dt. <b>FEB. 06</b>	Dt.	Year:	MATLS ENGG	GM (ENGG)	JAN., 1984		

**REV. NO. 03** 

PAGE 2 OF 4

### PLANT PURCHASING SPECIFICATION HYDERABAD



#### 6.0 **MANUFACTURE:**

The method of steel manufacture is left to the discretion of the manufacturer. However, air or mixed air and oxygen bottom blown converter process is not acceptable. The steel shall be fully killed.

#### 7.0 FREEDOM FROM DEFECTS:

The bars shall be free from surface and internal defects such as piping, segregation etc.

#### 8.0 **HEAT TREATMENT:**

- 8.1 The bars shall be soft annealed at 650 700° C and furnace cooled.
- 8.2 The recommended heat treatment for sample test pieces shall be as follows:

Blank Carburize at 880 - 980° C, followed by air cooling.

Hardening: At 860 - 900° C followed by quench in oil or water.

The tempering temperature shall be 150 - 200  $^{\circ}$  C. The actual heat treatment cycle followed shall be reported in the Test certificate.

#### 9. <u>SELECTION OF TEST SAMPLES:</u>

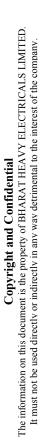
- **9.1** Chemical Analysis: Each melt shall be analysed for chemical composition
- **9.2 Mechanical Properties :** One sample per melt per size shall be tested for mechanical properties after heat treatment as per clause 8.2. For the bars beyond 250 mm diameter, the test samples shall be forged to dia 250 mm then tested for mechanical properties after heat treatment as per clause 8.2.
- **9.3** Metallography tests: One sample per melt per size shall be tested for metallography tests.

#### 10.0 CHEMICAL COMPOSITION:

The melt analysis of the material shall be as follows:

Element		С	Si	Mn	Cr	P	S
Melt analysis	Min .%	0.14	1	1.00	0.80		-
allalysis	Max. %	0.19	0.40	1.30	1.10	0.035	0.035
Permissible variation in product analysis		± 0.02	+0.03	±0.05	±0.05	+0.005	+0.005

# **Copyright and Confidential**The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED. It must not be used directly or indirectly in any way detrimental to the interest of the company.





HY10565					
REV. NO. 03					
PAGE 3 OF 4					

#### 11.0 MECHANICAL PROPERTIES:

**11.1 Tensile**: The mechanical properties of the hardened and tempered test bars of ruling section 30 mm shall be as follows:

Tensile Strength N/mm <sup>2</sup>	0.2% Proof Stress min. N/mm <sup>2</sup>	% Elongation min. (l = 5 d)
780 - 1080	590	10

11.2 <u>Hardness</u>: 5 % of the bars or minimum 2 numbers, in annealed condition shall be tested for Brinell Hardness and the value shall be 207 BHN max.

#### 12.0 METALLOGRAPHY TEST:

- **12.1** Grain size: Grain size shall be 5 or finer when tested in accordance with ASTME 112.
- 12.2 <u>Cleanliness Rating</u>: Inclusion content shall be tested as per ASTME 45 and inclusion rating for all types shall not be more than 2.0 (thin series) and 1.5 (thick series). The inclusion of all types i.e. A, B, C & D may exist simultaneously.

#### **13.0 ULTRASONIC TESTING:**

Each bar above 50 mm dia/size shall be tested ultrasonically in accordance with corporate standard AA0850118 to ensure freedom from internal defects. The norms of acceptance shall be as per category 2 of the above standard.

#### 14.0 <u>INSPECTION AT SUPPLIER'S WORKS:</u>

BHEL representative/BHEL appointed Inspection Agency shall have free entry and access to all areas where the manufacture of the bars is carried out. All reasonable facilities shall be extended to him including labour wherever necessary.

BHEL representative/BHEL appointed Inspection Agency shall be given sufficient advance intimation to witness the various processes, tests, etc. punching and identification of test coupons and execution of various tests shall be done in presence of BHEL representative/BHEL appointed Inspection Agency.

#### HY10565

REV. NO. 03

PAGE 4 OF 4

# PLANT PURCHASING SPECIFICATION HYDERABAD



#### 15.0 <u>TEST CERTIFICATES:</u>

Three copies of test certificates shall be supplied bearing the following details:

- a) BHEL Order No.
- b) BHEL Specification No: HY 10565 / Rev. 03
- c) Supplier's name:
- d) Identification No.
- e) Size:
- f) Cast No.
- g) Details of heat treatment carried out on material and test samples.
- h) Results of chemicals analysis and mechanical tests including hardness tests called for in this specification.
- i) Results of ultrasonic tests and metallography tests.

#### 16.0 PACKING AND MARKING:

The bars shall be suitably packed in bundles to prevent corrosion and damage during transit.

Bars above 50mm in diameter or of equivalent cross-sectional area shall be stamped HY10565 and Cast No. on the side near the end or on the end face.

A metal lable shall be securely attached to each bundle and shall bear the following information for bars of diameters less than 50 mm.

HY 105 65/Rev. 03

BHEL Order No.

Consignment or Identification No:

Cast No.

Size & Weight.

Supplier's Name.

#### 17.0 REJECTION AND REPLACEMENT:

In the event of the bar material proving defective in the course of further processing at BHEL, the same shall be rejected notwithstanding any previous acceptance.

The supplier shall replace the material forging at his own cost and the rejected bars shall be returned after all the commercial conditions are satisfied.

**Copyright and Confidential**The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED. It must not be used directly or indirectly in any way detrimental to the interest of the company.



HY 105 75	
Rev. No.01	
PAGE 1 OF 3	

#### HIGH STRENGTH LOW ALLOY STRUCTURAL STEEL PLATES

#### 1.0 **GENERAL:**

This Specification governs the requirements of High Strength Low-Alloy Structural Steel Plates.

#### 2.0 <u>APPLICATION</u>:

For fabrication of Oil Rig Components which require good resistance to atmosphere corrosion.

#### 3.0 CONDITION OF DELIVERY:

Hot / Cold rolled, Normalized condition.

#### 4.0 <u>COMPLIANCE WITH NATIONAL STANDARDS</u>:

The plates shall comply with the latest version of ASTM A588, Gr.A.

#### 5.0 <u>DIMENSIONS AND TOLERANCES</u>:

- **5.1 Dimensions:** Shall be as specified in the purchase order. Unless otherwise specified, plates shall be supplied in the standard dimension of 6' x 13' (1830mm x 3962mm).
- **5.2 Tolerances:** Shall be as per ASTM:A6.

#### 6.0 MANUFACTURE:

The steel shall be manufactured by one of the following process: Open hearth, basic oxygen or electric furnace. The steel shall be made to fine grain practice.

#### **7.0 HEAT TREATMENT:**

The material shall be supplied in the normalized condition.

<b>Revisions:</b>			<b>Issued:</b>			
G	eneral Revision broa	ıght	STANDARDS SECTION			
in	line with ASTM AS	588	ENGINEERING DEPARTMENT			
Rev.No.	Rev.Date:	Rev.Date	Prepared:	Approved:	Date:	
01	Mar 1992	MatlsEngg	Stds.	AGM (G)	Aug 1984	

REV. NO.01

PAGE 2 OF 3

# PLANT PURCHASING SPECIFICATION HYDERABAD



#### 8.0 CHEMICAL COMPOSITION:

The Melt analysis of material shall be as follows:

Element		С	Mn	Si	Ni	Cr	Cu	V	P	S
	Min		0.80	0.30	-	0.40	0.25	0.02	-	-
	Max	0.19	1.25	0.65	0.40	0.65	0.40	0.10	0.040	0.050
Permissible Variation in Product analysis		+ 0.04	+ 0.10 - 0.08	± 0.05	+ 0.03	± 0.04	± 0.03	± 0.01	+ 0.010	+ 0.010

#### 9.0 MECHANICAL PROPERTIES:

The mechanical properties of the different groups of the sections shall be follows:

Thickness of the plate mm	Tensile Strength N/mm <sup>2</sup> Min.	Yield Strength, N/mm <sup>2</sup> Min	% Elongation Min.
			L=50 mm (L=4d)
Below 100	485	345	21
>100≤125	460	315	21
>125≤200.0	435	290	21

#### **NOTE:**

- 1) For plates wider than 610mm test specimen is taken in the transverse direction as per ASTM 6 Clause 11.2.
- .2) For plates wider than 610mm, the elongation requirement is reduced by two percentage points.



HY 105 75

REV. NO: 01

PAGE 3 OF 3

#### 10.0 INSPECTION AT SUPPLIER'S WORKS:

BHEL representative/BHEL appointed Inspection Agency shall have free entry and access to all areas where the manufacture of the bars is carried out. All reasonable facilities shall be extended to him including labour wherever necessary.

BHEL representative/BHEL appointed Inspection Agency shall be given sufficient advance intimation to witness the various processes, tests, etc. Punching and identification of test coupons and execution of various tests shall be done in presence of BHEL representative/BHEL appointed Inspection Agency.

#### 11.0 TEST CERTIFICATE:

Five copies of the certificates giving the following details shall be furnished.

- a) BHEL Order No.
- b) BHEL Specification No. HY 105 75 / Rev.01
- c) ASTM A588, Gr:A
- d) Melt No.
- e) Consignment/Identification No.
- f) Size
- g) Results of Chemical analysis.
- h) Results of Mechanical tests.

#### **12.0 MARKING:**

Each plate shall be punched with the following details and encircled by paint.

- a) Melt No.
- b) Supplier's identification mark

In addition to the above, the following details shall also be marked legibly on each plate.

- c) BHEL Order No.
- d) HY 10575/Rev. 01
- e) ASTM A588, Gr.A
- f) Size & Weight
- g) Supplier's Name

#### 13.0 REJECTION AND REPLACEMENT:

In the event of the material proving defective in the course of further processing at BHEL, the same shall be rejected notwithstanding any previous acceptance.

The supplier shall replace the material forging at his own cost and the rejected material shall be returned after all the commercial conditions are satisfied.



HY 19366	
Rev. No.01	
Page 1 of 5	

# <u>Cr-Mn CASE HARDENING STEEL FORGINGS, ANNEALED</u> (GR: 16 Mn Cr 5G)

#### $1.0 \quad \underline{GENERAL}$ :

This specification governs the requirements of alloy case hardening steel forgings of grade 16 Mn Cr 5G in annealed condition

#### 2.0 <u>APPLICATION</u>:

For the manufacture of case hardened components of Steam Trubine, Switchgear Etc.

#### **3.0** CONDITION OF DELIVERY:

The forgings shall be supplied in rough machined and annealed condition.

#### 4.0 <u>COMPLIANCE WITH NATIONAL STANDARDS</u>:

The forgings shall comply with DIN: 17210 - 1986 Gr:16 Mn Cr 5G with the following specific/additional requirements.

#### **5.0 <u>DIMENSIONS AND TOLERANCES</u>**:

**5.1 Dimensions:** The dimensions shall be as specified on the drawings.

#### **5.2** Tolerances:

- a) For finish machined component drawings, the extra allowance of 3±1 mm per surface shall be provided for finish machining at BHEL.
- b) For rough machined Forging drawings necessary finish machining allowance is included in the dimensions. Hence extra allowance is not required. The tolerance shall be ±1 mm on dimension, unless otherwise specified in the drawing.

#### **6.0 MANUFACTURE**:

The steel used shall be manufactured from basic oxygen or electric furnace process. The steel shall be fully killed. Sufficient discard shall be made from the ingot, if ingot is used as forging stock, to ensure freedom from piping, segregation and other harmful defects.

<b>Revisions:</b>			Issued:				
1) Revised as p	er DIN:17210-198	36.	STANDARDS				
2) End Quench Test added.			ENGINEERING DEPARTMENT				
Rev.No.	Rev.Date	REVISED:	Prepared:	Approved:	Date:		
01		MARICENCO		AGM (ENGG)			
	SEP.93	MATLS.ENGG	MATLS ENGG.		JULY, .82.		

**SPECIFICATION HYDERABAD** 



PAGE 2 of 5

The amount of hot working shall be sufficient to ensure uniform working throughout the cross-section.

Reduction ratio shall be minimum 3:1 for ingot and 1.5:1 for rolled/forged stock.

#### **7.0 HEAT TREATMENT**: (For information only).

- The forgings shall be soft annealed at 650-700°C and furnace cooled... 7.1
- 7.2 The recommended heat-treatment for sample test pieces shall be as follow:
  - a) Blank carburizing at 880-980°C.
  - b) Hardening at 860-900°C and quenching in oil or water
  - c) Tempering at 150-200<sup>o</sup> C followed by air cooling.

Heat treatment cycle followed shall be reported in test certificate.

#### 8.0 **FINISH**:

Surface finish of the rough machined forgings shall be 6.3 microns (r.m.s) wherever ultrasonic test is called for and 12.5 microns (r.m.s) for other surfaces

#### 9.0 **FREEDOM FROM DEFECTS:**

The Forgings shall be free from cracks, flakes, seams, segregation and other defects which may affect the utility of the forgings.

#### 10.0 **CHEMICAL COMPOSITION:**

The chemical analysis of the steel shall be as follows:.

Element		С	Si	Mn	Cr	S	P
	%Min	0.14	-	1.00	0.80	-	-
Melt Analysis	%Max	0.19	0.40	1.30	1.10	0.035	0.035
Permis Variation produ	on In uct	±0.02	+0.03	±0.05	±0.05	+0.005	+0.005
Analy	ys1s						

The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED. It must not be used directly in any way determined to the interest of the company. Copyright and Confidential



HY 19366	
Rev. No.01	
Page 3 of 5	

#### 11.0 END QUENCH TEST:

The raw material used for forging of the components shall have the following limiting values of Rockwell C hardness as determined by the end Quench Test. The values plotted on the graph shall be submitted along with the Test Certificate. Hardening temperature for end quench test shall be  $870^{\circ}$  C.

#### Hardness, in HRC

At a distance from the quenched end, in mm, of

	1	2	3	4	5	6	7	8	9	10	11	13	15
Max	47	46	44	41	37	35	44	33	31	30	29	28	27
Min	39	35	31	28	24	22	20	-	-	-	-	-	-

#### 12.0 <u>TEST SAMPLES</u>:

Test samples shall be taken per melt and shall be blank carburisaed, hardened & tempered as per clause 7.2 to achieve the mechanical properties given in clause 13.1 (Forgings are to be supplied in soft annealed condition only)

#### 13.0 <u>MECHANICAL PROPERTIES</u>:

The mechanical properties of blank carburized hardened and tempered test bar of ruling section 30 mm shall be as follows:

#### 13.1 Tensile:

Tensile	0.2% Proof	Elongation
strength	Stress, min.	%min
$N/mm^2$	N/mm <sup>2</sup>	4 - 1
(Kgf/mm <sup>2</sup> )	(Kgf/mm <sup>2</sup> )	(l=5d)
780-1080	590	10
(80-110)	(60)	10
,		

**Hardness:** 5% of the forgings or min. two nos. in annealed condition, shall be tested for Brinell Hardness and the value shall be 207 BHN max.

#### 14.0 NON-DESTRUCTIVE TEST:

If specified in the drawing, the following tests shall be conducted.

# Rev. No.01 Page 4 of 5 PLANT PURCHASING SPECIFICATION HYDERABAD

14.1 Magnetic particle Test: Shall be performed as per ASTM 'A' 275 and acceptance

- i) Cracks and porosity are not acceptable
- Presence of the following individual inclusions on the surfaces are acceptable. Maximum eight numbers having a length of Max. 1mm or 5 inclusions of max. 3mm length or one inclusion of 5mm max. length concentrated in the area 25 cm. sq.
- **14.2 Ultrasonic Test:** shall be performed as per ASTM: A 388 (BHEL Standard AA 0850118) and following shall be unacceptable defects.
  - i) Cracks, flakes, seams and laps.

criteria shall be as follows:

- ii) Defects giving indications larger than that from a 4 mm diameter equivalent flaw.
- iii) Groups of defects with maximum indication less than that from a 4mm diameter equivalent flaw which cannot be separated at testing sensitivity if the back eacho is reduced to less than 50%
- iv) Defects giving indication of 2 to 4 mm diameter equivalent flaw separated by a distance less than four times the size of the larger of the adjacent flaws.

The above acceptance criteria is equivalent to level 2 of AA 0850118.

#### 15.0 INSPECTION AT SUPPLIER'S WORKS:

BHEL representative shall have free entry and access to all areas where the manufacture of the forging is carried out. All reasonable facilities shall be extended to him including labour where ever necessary, free of charge Sufficient advance intimation shall be given to the representative to witness the various processes, tests etc. Identification of test coupons & forgings and excution of various tests shall be done in his presence.

#### **16.0 TEST CERTIFICATE:**

- **16.1** The suppliers shall furnish five copies of the test certificate (in English) to BHEL with the following details.
  - a) BHEL Specification No. Hy 19366. Rev.01
  - b) Material Grade: 16 Mn Cr 5G
  - c) BHEL Order No:
  - d) Item Description.
  - e) Drawing NO:
  - f) Supplier's Name.
  - g) Melt No:
  - h) Serial NO. of the forging.



HY 19300	
Rev. No.01	
PAGE 5 of 5	

- i) Heat Treatment details for forgings and Test Specimen.
- j) Result of Chemical Analysis, Hardness test, Tensile tests for heat treated samples stipulated in this specification and any non-destructive tests as specified in the drawing/purchase order.
- k) End quench test report.
- 16.2 The test certificates shall be attested by the Chief of Inspection/Chief Metallurgist of the supplier and also by BHEL representative.

#### 17.0 MARKING AND PACKING:

- **Marking:** The following details shall be punched clearly on each forging and the same shall be encircled by paint:
  - a) BHEL Specification No. Hy 19366. Rev.01
  - b) Material Grade: 16 Mn Cr 5G
  - c) BHEL Order No.
  - d) Melt No.
  - e) Serial No. of the forging
  - f) Drawing No.
  - g) BHEL Inspectors Stamp.
- **17.2 Packing:** The forgings shall be suitably packed & prevented from damage and corrosion during transit. In the case of overseas supplies, the packing shall be seaworthy.

#### 18.0 <u>REJECTION AND REPLACEMENT</u>:

In the event of the forging proving defective in the course of further processing at BHEL, the same shall be rejected notwithstanding any previous acceptance.

The supplier shall replace the rejected forging at his own cost and the rejected forging shall be returned after all the commercial conditions are satisfied.



HY 19366	
Rev. No.01	
Page 1 of 5	

# <u>Cr-Mn CASE HARDENING STEEL FORGINGS, ANNEALED</u> (GR: 16 Mn Cr 5G)

#### $1.0 \quad \underline{GENERAL}$ :

This specification governs the requirements of alloy case hardening steel forgings of grade 16 Mn Cr 5G in annealed condition

#### 2.0 <u>APPLICATION</u>:

For the manufacture of case hardened components of Steam Trubine, Switchgear Etc.

#### **3.0** CONDITION OF DELIVERY:

The forgings shall be supplied in rough machined and annealed condition.

#### 4.0 <u>COMPLIANCE WITH NATIONAL STANDARDS</u>:

The forgings shall comply with DIN: 17210 - 1986 Gr:16 Mn Cr 5G with the following specific/additional requirements.

#### **5.0 <u>DIMENSIONS AND TOLERANCES</u>**:

**5.1 Dimensions:** The dimensions shall be as specified on the drawings.

#### **5.2** Tolerances:

- a) For finish machined component drawings, the extra allowance of 3±1 mm per surface shall be provided for finish machining at BHEL.
- b) For rough machined Forging drawings necessary finish machining allowance is included in the dimensions. Hence extra allowance is not required. The tolerance shall be ±1 mm on dimension, unless otherwise specified in the drawing.

#### **6.0 MANUFACTURE**:

The steel used shall be manufactured from basic oxygen or electric furnace process. The steel shall be fully killed. Sufficient discard shall be made from the ingot, if ingot is used as forging stock, to ensure freedom from piping, segregation and other harmful defects.

<b>Revisions:</b>			Issued:				
1) Revised as p	er DIN:17210-198	36.	STANDARDS				
2) End Quench Test added.			ENGINEERING DEPARTMENT				
Rev.No.	Rev.Date	REVISED:	Prepared:	Approved:	Date:		
01		MARICENCO		AGM (ENGG)			
	SEP.93	MATLS.ENGG	MATLS ENGG.		JULY, .82.		

**SPECIFICATION HYDERABAD** 



PAGE 2 of 5

The amount of hot working shall be sufficient to ensure uniform working throughout the cross-section.

Reduction ratio shall be minimum 3:1 for ingot and 1.5:1 for rolled/forged stock.

#### **7.0 HEAT TREATMENT**: (For information only).

- The forgings shall be soft annealed at 650-700°C and furnace cooled... 7.1
- 7.2 The recommended heat-treatment for sample test pieces shall be as follow:
  - a) Blank carburizing at 880-980°C.
  - b) Hardening at 860-900°C and quenching in oil or water
  - c) Tempering at 150-200<sup>o</sup> C followed by air cooling.

Heat treatment cycle followed shall be reported in test certificate.

#### 8.0 **FINISH**:

Surface finish of the rough machined forgings shall be 6.3 microns (r.m.s) wherever ultrasonic test is called for and 12.5 microns (r.m.s) for other surfaces

#### 9.0 **FREEDOM FROM DEFECTS:**

The Forgings shall be free from cracks, flakes, seams, segregation and other defects which may affect the utility of the forgings.

#### 10.0 **CHEMICAL COMPOSITION:**

The chemical analysis of the steel shall be as follows:.

Element		С	Si	Mn	Cr	S	P
	%Min	0.14	-	1.00	0.80	-	-
Melt Analysis	%Max	0.19	0.40	1.30	1.10	0.035	0.035
Permis Variation produ	on In uct	±0.02	+0.03	±0.05	±0.05	+0.005	+0.005
Analy	ys1s						

The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED. It must not be used directly in any way determined to the interest of the company. Copyright and Confidential



HY 19366	
Rev. No.01	
Page 3 of 5	

#### 11.0 END QUENCH TEST:

The raw material used for forging of the components shall have the following limiting values of Rockwell C hardness as determined by the end Quench Test. The values plotted on the graph shall be submitted along with the Test Certificate. Hardening temperature for end quench test shall be  $870^{\circ}$  C.

#### Hardness, in HRC

At a distance from the quenched end, in mm, of

	1	2	3	4	5	6	7	8	9	10	11	13	15
Max	47	46	44	41	37	35	44	33	31	30	29	28	27
Min	39	35	31	28	24	22	20	-	-	-	-	-	-

#### 12.0 <u>TEST SAMPLES</u>:

Test samples shall be taken per melt and shall be blank carburisaed, hardened & tempered as per clause 7.2 to achieve the mechanical properties given in clause 13.1 (Forgings are to be supplied in soft annealed condition only)

#### 13.0 <u>MECHANICAL PROPERTIES</u>:

The mechanical properties of blank carburized hardened and tempered test bar of ruling section 30 mm shall be as follows:

#### 13.1 Tensile:

Tensile	0.2% Proof	Elongation
strength	Stress, min.	%min
$N/mm^2$	N/mm <sup>2</sup>	4 - 1
(Kgf/mm <sup>2</sup> )	(Kgf/mm <sup>2</sup> )	(l=5d)
780-1080	590	10
(80-110)	(60)	10
,		

**Hardness:** 5% of the forgings or min. two nos. in annealed condition, shall be tested for Brinell Hardness and the value shall be 207 BHN max.

#### 14.0 NON-DESTRUCTIVE TEST:

If specified in the drawing, the following tests shall be conducted.

# Rev. No.01 Page 4 of 5 PLANT PURCHASING SPECIFICATION HYDERABAD

14.1 Magnetic particle Test: Shall be performed as per ASTM 'A' 275 and acceptance

- i) Cracks and porosity are not acceptable
- Presence of the following individual inclusions on the surfaces are acceptable. Maximum eight numbers having a length of Max. 1mm or 5 inclusions of max. 3mm length or one inclusion of 5mm max. length concentrated in the area 25 cm. sq.
- **14.2 Ultrasonic Test:** shall be performed as per ASTM: A 388 (BHEL Standard AA 0850118) and following shall be unacceptable defects.
  - i) Cracks, flakes, seams and laps.

criteria shall be as follows:

- ii) Defects giving indications larger than that from a 4 mm diameter equivalent flaw.
- iii) Groups of defects with maximum indication less than that from a 4mm diameter equivalent flaw which cannot be separated at testing sensitivity if the back eacho is reduced to less than 50%
- iv) Defects giving indication of 2 to 4 mm diameter equivalent flaw separated by a distance less than four times the size of the larger of the adjacent flaws.

The above acceptance criteria is equivalent to level 2 of AA 0850118.

#### 15.0 INSPECTION AT SUPPLIER'S WORKS:

BHEL representative shall have free entry and access to all areas where the manufacture of the forging is carried out. All reasonable facilities shall be extended to him including labour where ever necessary, free of charge Sufficient advance intimation shall be given to the representative to witness the various processes, tests etc. Identification of test coupons & forgings and excution of various tests shall be done in his presence.

#### **16.0 TEST CERTIFICATE:**

- **16.1** The suppliers shall furnish five copies of the test certificate (in English) to BHEL with the following details.
  - a) BHEL Specification No. Hy 19366. Rev.01
  - b) Material Grade: 16 Mn Cr 5G
  - c) BHEL Order No:
  - d) Item Description.
  - e) Drawing NO:
  - f) Supplier's Name.
  - g) Melt No:
  - h) Serial NO. of the forging.



HY 19300	
Rev. No.01	
PAGE 5 of 5	

- i) Heat Treatment details for forgings and Test Specimen.
- j) Result of Chemical Analysis, Hardness test, Tensile tests for heat treated samples stipulated in this specification and any non-destructive tests as specified in the drawing/purchase order.
- k) End quench test report.
- 16.2 The test certificates shall be attested by the Chief of Inspection/Chief Metallurgist of the supplier and also by BHEL representative.

#### 17.0 MARKING AND PACKING:

- **Marking:** The following details shall be punched clearly on each forging and the same shall be encircled by paint:
  - a) BHEL Specification No. Hy 19366. Rev.01
  - b) Material Grade: 16 Mn Cr 5G
  - c) BHEL Order No.
  - d) Melt No.
  - e) Serial No. of the forging
  - f) Drawing No.
  - g) BHEL Inspectors Stamp.
- **17.2 Packing:** The forgings shall be suitably packed & prevented from damage and corrosion during transit. In the case of overseas supplies, the packing shall be seaworthy.

#### 18.0 <u>REJECTION AND REPLACEMENT</u>:

In the event of the forging proving defective in the course of further processing at BHEL, the same shall be rejected notwithstanding any previous acceptance.

The supplier shall replace the rejected forging at his own cost and the rejected forging shall be returned after all the commercial conditions are satisfied.



#### **BHEL-HERP, VARANASI** QUALITY PLAN

hy-19366

#### FULLY M/CD

3=Vendor/Supplier

2=BHEL

SI.No.		Characteristic Checked	Type/Method	Extent	Reference	Acceptance	Format of		Agen	cv	Remarks
4.0	Operation		of Check	of Check	Documents	Norm	Record	P	W	V	
1.0	Raw Material/ Forging	i. Composition	Chemical Analysis	1 Sample per melt.	As per Spec.	As per Spec.	T.C.	3	-	2	and the second
		ii Heat Treatment	H.T. Chart	1 Sample per H.T.Batch	-do-	-do-	H.T.Chart	3	-	2	
		iii. Mechanical Properties	Mechanical Test	-do-	-do-	-do-	T.C.	3	-	2	
2.0	In Process (After Rough Machining of Forging)	i. Soundness of Forging	Ultrasonic Testing	100%	AA0850118	AA0850118	U.T.Report	3/2	2	-	100% UT as per Cat.2 to be witnessed by BHEL
3.0	Final Inspection	i. Dimensions	Measurement	100%by Vend. Random 10% by BHEL	Drawing	Drawing	Dimension Report	3/2	2-	-	
		ii. Hardness of sample after Carburizing	Hardness Test	-do-	As per Drg	60 HRC Min	T.C.	3		2	Hardness of sample is to be measured on Micro Hardnes tester in a NABL/ Govt approved Lab. Sample will be designated with unquue number and same will be appeared in TC.
		iii. Surface Defects	visual	100%	Free from defects	Free from defects	Inspection Report	3	2	-	
		iv. Cleanliness	Visual	100%			Inspection Report	3	2	-	
		v. Identification & Marking	Punching Heat No,PO No.& Inspector seal	100%	_		Inspection Report	3	2		
		vi. Prevention (from rust)	Visual	100%	_		Inspection Report	3	2	-	
.P.No.	RV/C&F/23 Rev.02	Approved by	1.11	Prepared by	1 V	Legend	P=Perform				TC-Tt-Ctiet-
ate	11.03.2022	Signature & Date	The state -	Signature & Date	1 ston	Legenu	W=Witness				TC=Test Certificate
age No.	1 of 1	BHEL	100112	BHEL	1 1000 23.21		V=Verify				HT=Heat Tratment DR=Dimension Report

Extent of cheek for dimensions after machining was 100%. Rev-01

Rev-02 Hardness measurement through Micro Hardness tester has been included.

सुनील कुमार तिवारी/Sunil Kumar Tiwari बारे॰ प्रबंधक (अभियांत्रिकी एवं विषणन)/Sr. Manager (E&M) बी०एच०ई०एल०, हर्प, वाराणसी-221003 BHEL-HERP, Varanasi-221003

भारत होते इलेक्ट्रिकल्म लि॰ Bharat Heavy Electricals Ltd. हर्प, वाराणसी / HERP, Varanasi अनित कुमार / Amit Kumar उप० प्रकलि (शिंक एवं विकाध, Manager (E&M) HT=Heat Tratment DR=Dimension Report IR=Inspection Report



BHEL HERP VARANASI QUALITY PLAN

2 = BHEL

COMPONENT: SEAL WEAR RING

SL.NO.	COMPONENT/DESCRIPTION	CHARACTERISTIC CHECKED	TYPE/METHOD OF CHECK	EXTENT OF CHECK	REFERENCE DOCUMENTS	ACCEPTANCE NORM	FORMAT OF RECORD		ENCY		REMARKS
								Р	W	V	
1.0	RAW MATERIAL	1.1) Composition	Chemical Analysis	Review of document	Specn. as per PO	Specn. as per PO	T.C.	3	-	2	
		1.2) Mechanical Properties	Mechanical test	Review of document	Specn. as per PO	Specn. as per PO	T.C.	3	-	2	
2.0	FINAL INSPECTION AFTER ASSEMBLY	2.1) Dimension after machining	Measurement	100% by Vendor, Random 10% by BHEL	Drawing as per	Drawing as per PO	DIMENSION REPORT	3	2	-	
		2.2) Hardness	Measurement	Review of document	Drawing as per PO	Drawing as per PO	Insp.Report	3	•	2	
		2.3) Case Depth of Hard Chromium Plating	Measurement (DFT)	100% by Vendor, Random 10% by BHEL	Drawing as per PO	Drawing as per PO	insp.Report	3	2		In case of Hard Chrome Plating case depth to be witnessed by portable digital DFT/Elcometer     In case of flame hardening case depth to be verified.
		2.4)IDENTIFICATION & MARKING	Write SI NO., P.O No. on the tag and tie with them	100%		-	Insp.Report	3	2	S <b>-</b>	
QP. NO.	RV/MCD/23.A Rev-02		Prepared by	Approved By		LEGEND:					
DATE	13-04-23	Sign	X4/13/11/23	( 1 / 1 / 2 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3 / 1/3			P = PERFORM		T.C. =	TEST CE	RTIFICATE
PG. NO.	1 OF 1		Abhishek Shah	CK Prajapati	:	100	W = WITNESS				
						J	V = VERIFY 3 = VENDOR/SUPPI	LIER			

#### **PQR for Crirical Regular Direct Mil items**

PQR Ref No: PQR/24-25/ Crirical Regular Direct Mil items	Date: 23.08.2024
Pay No. 02	Review Date:
Rev No: 03	22.08.2025
PQR Revision Date: 22.08.2025	

SI. No.	BHEL Terms	Supplier's ComplianceYES/NO
1	Offers are accepted from:	Compilance (25) (Co
	Only Manufacturer's Offers shall be considered for the Tender Enquiry.	
	Supplier shall give list of In-House Facilities:	
2 -	Vendor shall have in-House necessary Manufacturing facilities required for manufacturing	
2.a	and supply of item/s as per drawing/specification.	
	BHEL reserves right to visit the Works of the Manufacturer for Physical verification of the	
2.b	Manufacturing facilities (as declared by them) and assessment of their Quality systems	
	during Technical Evaluation of the Offers.	
2.c	Bidders shall submit detailed Manufacturing process Plan along with the Technical Offer.	
3	Experience:	
3.a	Bidders shall submit the necessary documents proving their Experience in Supplying same or similar items to any Power Plant Equipment Manufacturer (Original Equipment Manufacturer)/ Defence Equipment Manufacturer (Original Equipment Manufacturer) (Govt or PSU)/AeroSpace Equipment Manufacturer (Original Equipment Manufacturer) (Govt or PSU)/Indian Railway during last Five (05) years from the date of Enquiry. Documentary evidances to be submitted in the form of Executed Purchase Order copies along with Material Acceptance Report and drawings/specifications of the supplied item/items.	
	No relaxation in experience shall be given to MSEs & Notified start-ups.	
3.b	BHEL reserves right to verify the details from the Bidder's customers based on Documents submitted as a part of past experience. BHEL may ask for other relevant documents in line with above to review the capacity and capability of vendor with respect to enquired items.	
4	Financial Capability:	•
4.a	<b>Turn Over:-</b> Turn over of Non-MSE vendors should be 100% of tender value. Relaxation for MSE vendors/ Notified Start-Ups on turn over will be as per MSME guidelines. Latest UDYAM Certificate required for MSE status.	
	Applicable only for Non-MSE vendors:	
4.b	Audited balance Sheet and Profit and Loss account Statement of last three consecutive year (with UDIN) required along with part-1 bid. Or A CA Certified Consolidated summary (with UDIN) for last 3 consecutive years having annual turn over and Profit and Loss to be enclosed along with Part-1 bid.	
	For Vendors having Turn over less than 1 crore in any of the financial year, CA certified Financial Turn over and Profit Loss (with UDIN) may be accepted for that year only.	

Note-1: Non Submission of the above requested documents/non compliance to the above points is liable for rejection of the Offers without any further Notice/Intimation to the Bidder and no correspondance will be entertained at later stage.

Note-2: "Similar items" means items having same or similar Constructional feature, manufacturing process, similar nature of use, etc.

# ITEM DESCRIPTION: ENQUIRY NO:

ENQ	UIRY NO:	Confirmation
SI No	BHEL STANDARD TERMS &CONDITIONS	of supplier (Yes/No)
	A) OFFER MUST BE SUBMITTED IN TWO PART BID SYSTEM NAMELY TECHNO-COMMERCIAL BID & PRICE BID FOR THE ITEM AS PER ENQUIRY IN SEPARATE SEALED COVERS:	
1.	(I) TECHNO – COMMERCIAL BID & (II) PRICE BID SHOULD BE CLEARLY SUPERSCRIBED THE ENQUIRY NO. AND DUE DATE ON THE ENVELOPES.  (B) UN-PRICED OFFER WITH TECHNICAL BID IS REQUIRED TO BE FURNISHED BY THE VENDOR. TECHNICAL OFFER SHOULD CLEARLY REFLECT AT LEAST OUR MATERIAL CODE, ITEM DESCRIPTION & QUANTITY.	
	(C) THE DIFFERENCE BETWEEN "UN-PRICED OFFER" AND "PRICED OFFER" SHOULD BE ONLY THE PRICES WHEREVER APPLICABLE. THE RATES AND AMOUNT SHOULD BE CLEARLY WRITTEN IN FIGURES AND WORDS BOTH WITHOUT ANY CUTTING / OVERWRITING.  (D) IMPORTANT POINT FOR VENDOR WHO HAVE NOT SUBMITTED THE SRF (SUPPLIER REGISTRATION FORM) SO FAR: THE VENDORS, WHO HAVE NOT SUBMITTED	
2.	THE SRF SO FAR, MUST SUBMIT THE SAME ALONG WITH PART- 1 BID. THE SRF TO BE DOWNLOADED FROM WWW.BHEL.COM OR <a href="https://herp.bhel.com">https://herp.bhel.com</a> .  BID SHOULD BE FREE FROM CORRECTION, OVERWRITING, USING CORRECTIVE FLUID, ETC. ANY INTERLINEATION, CUTTING, ERASURE OR OVERWRITING SHALL BE	
3.	VALID ONLY IF THEY ARE ATTESTED UNDER FULL SIGNATURE(S) OF PERSON(S) SIGNING THE BID ELSE BID SHALL BE LIABLE FOR REJECTION .  YOUR TECHNO COMMERCIAL BID SHOULD MENTION THAT PRICE BID HAS BEEN SENT IN A SEPARATE ENVELOPE GIVING ITS REFERENCE.	
4.	VENDOR TO ENSURE THAT ITEM & QUANTITY MENTIONED IN THE OFFERS ARE EXACTLY SAME AS PER ENQUIRY. IF ANY DEVIATION IS THERE PARTY MUST MENTION SPECIFIC HEREWITH OTHERWISE BHEL SHALL CONSIDER THAT ITEM & QUANTITY AS REQUIRED IN ENQUIRY.	
5.	PLEASE MAKE SURE THAT THERE IS NO DISCREPANCY IN BETWEEN ACCEPTED TERMS & CONDITIONS MENTIONED IN THE CHECK LIST AND QUOTATION SUBMITTED BY VENDOR AND IF FOUND SO THEN THE TERMS & CONDITIONS WHICH ARE BENEFICIAL TO BHEL WOULD ONLY BE CONSIDERED.	
6.	THE TENDER RECEIVED AFTER 14:00 HRS ON THE DUE DATE WILL NOT BE CONSIDERED.	
7.	PART-I CONTAINING THE TECHNO-COMMERCIAL BID WILL BE OPENED ON THE DATE AND TIME SPECIFIED IN THE ENQUIRY, IN THE PRESENCE OF THOSE TENDERERS WHO WISH TO ATTEND. PART-II i.e., PRICE BID WILL BE OPENED ONLY OF THOSE BIDDERS WHO ARE FOUND TECHNO-COMMERCIALLY SUITABLE AFTER SCRUTINY OF THEIR PART-I OFFERS.	
8.	NO REVISED OFFERS WILL BE ACCEPTED UNLESS ASKED BY BHEL AFTER OPENING OF PART-1 BID IN ANY CASE.	
9.	THE RATE OF GST SHOULD BE CLEARLY MENTIONED IN THE OFFER.	
10.	VALIDITY OF OFFER SHOULD BE MINIMUM 90 DAYS FROM THE DATE OF TECHNO - COMMERCIAL BID OPENING OR 60 DAYS FROM THE REVERSE AUCTION DATE.	
11.	BHEL RESERVES THE RIGHT TO REJECT THE OFFER, WHICH IS HAVING DEVIATIONS TO THE TERMS AND CONDITIONS GIVEN IN THE TENDER ENQUIRY.	
12.	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.	
13.	BID EVALUATION: UNLESS SPECIFIED IN THE TENDER, VENDOR MUST NOTE THAT BHEL WILL ARRIVE THE L1 STATUS FOR EACH ITEM ON LANDED COST BASIS. ACCORDINGLY, ORDER SHALL BE PLACED ON LOWEST BIDDER ON INDIVIDUAL ITEM BASIS ONLY, UNLESS BHEL ASK FOR TERMS OTHER THAN THIS ON EXCEPTION BASIS. IN THE COURSE OF EVALUATION, IF MORE THAN ONE BIDDER HAPPENS TO OCCUPY L-1 STATUS, EFFECTIVE L-1 WILL BE DECIDED BY SOLICITING DISCOUNTS FROM THE RESPECTIVE L-1 BIDDERS. IN CASE MORE THAN ONE BIDDERS HAPPENS TO OCCUPY THE L-1 STATUS EVEN AFTER SOLICITING DISCOUNST, THE L-1 BIDDER SHALL BE DECIDED BY A TOSS/ORAW OF LOTS, IN THE PRESENCE OF THE RESPECTIVE BIDDER(S) OR THEIR REPRESENTATIVE(S). RANKING WILL BE DONE ACCORDINGLY. BHEL'S DECISION IN SUCH SITUATION SHALL BE FINAL AND BINDING.	
14.	TERMS OF DELIVERY:  I. FOR INDIGENOUS SUPPLIERS: THE TERMS OF DELIVERY SHOULD BE QUOTED ON F.O.R. DESTINATION (BHEL HERP STORES VARANASI) BASIS ONLY (i.e. FREIGHT &	
	INSURANCE ON VENDOR'S ACCOUNT ONLY). IF ANY BIDDER STILL QUOTES OTHER DELIVERY TERM IN PLACE OF BHEL HERP STORES, THEIR OFFER MAY NOT BE CONSIDERED FOR FURTHER PROCESSING. IT MUST BE SPECIFICALLY NOTED.	
15.	IF ANY INDIAN SUPPLIERS ARRANGE SUPPLY FROM FOREIGN PRINCIPLES/WORKS, TERMS OF DELIVERY SHOULD BE QUOTED ON CIF JNPT MUMBAI (INDIA) SEA PORT BASIS ONLY (i.e. FREIGHT & INSURANCE ON VENDOR'S ACCOUNT UPTO JNPT MUMBAI (INDIA) SEA PORT) OR CFR MUMBAI AIRPORT. HOWEVER FREIGHT CHARGES AS PER BHEL TRANSPORT CONTRACT FROM JNPT MUMBAI SEAPORT/MUMBAI AIRPORT TO BHEL VARANASI FOR EACH ITEM WILL BE LOADED AT THE TIME OF TOTAL LANDED COST CALCULATION.	
16.	INSURANCE CHARGES SHALL BE TO VENDOR'S ACCOUNT ONLY IF PRICE QUOTED ON BHEL HERP STORES BASIS. IN CASE PRICE QUOTED IS ON CIF JNPT MUMBAI BASIS/CFR MUMBAI AIRPORT BASIS, INSURANCE UP TO CIF JNPT MUMBAI/MUMBAI AIRPORT SHALL BE IN VENDOR ACCOUNT.	
	PAYMENT TERMS:  I.FOR MSES VENDORS: 100% AGAINST SRV WITHIN 45 DAYS THROUGH EFT (ELECTRONIC FUND TRANSFER) FROM THE DATE OF RECEIPT OF MATERIAL (DATE OF SRV)	
	AT BHEL HERP VARANASI STORES AS PER PO.  II.FOR MEDIUM ENTERPRISES VENDORS: 100% AGAINST SRV WITHIN 60 DAYS THROUGH EFT (ELECTRONIC FUND TRANSFER) FROM THE DATE OF RECEIPT OF	
	MATERIAL (DATE OF SRV) AT BHEL HERP VARANASI STORES AS PER PO.  III. FOR NON- MSME: 100% AGAINST SRV WITHIN 90 DAYS THROUGH EFT (ELECTRONIC FUND TRANSFER) FROM THE DATE OF RECEIPT OF MATERIAL (DATE OF SRV) AT BHEL HERP VARANASI STORES AS PER PO.	
	IV.BHEL HERP WILL MAKE PAYMENTS IN TWO PARTS: -  PART-I: BASIC INVOICE VALUE AND ALL OTHER CHARGES (EXCEPT GST AMOUNT) WILL BE PAID AS PER P.O. PAYMENT TERMS.	
17.	PART-II: GST PORTION OF INVOICE VALUE WILL BE PAID ONLY AFTER FULFILLING FOLLOWING CONDITIONS:	
17.	(A) PAYMENT OF GST AMOUNT INTO GOVT. ACCOUNT BY SUPPLIER AGAINST INVOICE RAISED TO BHEL.  (B) FILING OF GST RETURN	
	(C) DISPLAY OF GST CREDIT AGAINST BHEL GSTIN NO.09AAACB4146P2ZC IN GSTR-2B ON GSTN PORTAL.	
	NOTE: 1. PAYMENT WILL BE MADE AFTER ACCEPTANCE OF MATERIAL. 2. ADVANCE PAYMENT IS NOT ACCEPTABLE BY BHEL HERP VARANASI IN ANY CASE.	
	3. IF ANY SUPPLIER FALLS UNDER "NON MSE" OR "NON MEDIUM" CATEGORY AT THE TIME OF PO PLACEMENT AND IF PARTY DOES NOT INFORM BHEL REGARDING CHANGE IN THEIR STATUS BEFORE PROCESSING OF THE PAYMENT, THEIR PAYMENT TERM WILL BE CONSIDERED AS NON MSME SUPPLIER WITHOUT ANY FURTHER INTIMATION. IF SUCH SUPPLIER INFORM BHEL OR BHEL GETS UPDATED ON THEIR OWN ABOUT PARTY'S STATUS CHANGE (WHEN PARTY BECOMES MSME FROM NON-MSME) BEFORE PROCESSING OF THE PAYMENT, PARTY'S PAYMENT TERM WILL BE CHANGED AS PER APPLICABLE STATUS. ACCORDINGLY, PURCHASING OFFICER WILL CHANGE PAYMENT TERMS IN THE APPLICABLE PO/S ALSO.	
18.	LOADING OF PAYMENT TERM: IN CASE OF DEVIATION, LOADING OF INTEREST RATE @SBI MCLR RATE + 6% (AS ON PART-1 OPENING DATE) SHALL BE LOADED WHILE ARRIVING AT LANDED COST TO BHEL.	
19.	LIQUIDATED DAMAGES/ LATE DELIVERY (LD) PENALTY CLAUSE: SUBJECT TO FORCE MAJEURE CONDITIONS, FAILURE TO SUPPLY WITHIN PURCHASE ORDER DELIVERY SCHEDULE WILL MAKE THE SUPPLIER LIABLE TO AN UNCONDITIONAL PENALTY OF 0.5 % PER WEEK OR PART THEREOF SUBJECT TO THE MAXIMUM OF 10%	
	OF THE UNDELIVERED PURCHASE ORDER VALUE EXCLUDING TAXES & DUTIES. NO GRACE PERIOD SHALL BE GIVEN.	

# GENERAL COMMERCIAL TERMS & CONDITIONS OF ENQUIRY (FOR INDIAN VENDORS)

Amendment- 26

ANNEXURE-A

DELINEARY PERIOD VEHICLE STATE AND THE PRESENT OF THE DELIVERY PERIOD AS MANIFOLD ON THE PRESENT OF THE STATE DELIVERY OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE PRESENT OF THE		ANNEXURE-A	
DELIVERY PERIOD VIRIOR SHOULD STRICTLY QUIDT THE BELIVIAY PERIOD AS MINTONED IN INT.  2. BELIVARY PERIOD VIRIOR SHOULD STRICTLY QUIDT THE BELIVIAY PERIOD AS MINTONED IN INT.  3. BANK VIRIABACTER: THE COST OF SHEET HER ISSUE MATERIALS APPRIATELY AS ASSISTED.  3. BANK VIRIABACTER: THE COST OF SHEET HER ISSUE MATERIALS AND STRICTLY AS ASSISTED.  3. IN THIS SHEARCH.  3. IN CASE OF A REPORT OF TOTAL JANCAUTY OF SECURITY COSTOL (IN THE FORM OF 10% 86/17/07/07/05/04/04/04/04/04/04/04/04/04/04/04/04/04/	20.	CLAUSE) OR PART THEREOF (IN CASE OF PART ACCEPTANCE OF LD) SHALL BE LOADED WHILE ARRIVING LANDED COST TO BHEL.  LOADING OF DELIVERY TERM: FURTHER IF DEVIATION IS FOUND IN THE ACCEPTED DELIVERY TERM AS WELL AS ACCEPTED PENALTY TERM, SUITABLE LOADING BASED	
THE PROPERTY OF THE SUPERY AT ITS SOLD SECRETION.  AND COLORS AND SERVED THE WHITEN THE PROPERTY COURSE DEED THE PROPERTY AT ITS SOLD SECRETION.  AND COLORS AND SERVED THE COST OF BRIEF PRESSUR MATERIALS PRESSTYPE ASSISTED AND THE PROPERTY AT ITS SOLD SECRETION.  A REAL PORTY WILL HAVE TO SUMMIT EXCLAR ACCOUNT OF SECRETION COUNTY.  BERN AND THE PROPERTY OF THE COST OF BRIEF AND THE SOLD AND ACCOUNTY OF SECRETION OF THE PROPERTY AND THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPER			
SAM CHARDON DOLS NOT DUPLY THE LEAD WITHIN THE PROCESS CHIEF CHARDON STATE COLOR THE SUPPLY AT ITS SOLD EXCELLENCE.  IN THIS REAGAST.  14 PARTY WILL HAVE TO SUBMIT COLOR AMOUNT OF SECURITY REPORT IN THE FORM OF 10% BIG/PDN/DD/CHECUL/BANK TRANSFER AND 50% NOCEMBER 11 14 PARTY WILL HAVE TO SUBMIT COLOR AND THE COLOR OF 10% BIG/PDN/DD/CHECUL/BANK TRANSFER AND 50% NOCEMBER 11 14 PARTY WILL HAVE TO SUBMIT COLOR AND THE COLOR OF 10% BIG/PDN/DD/CHECUL/BANK TRANSFER AND 50% NOCEMBER 11 14 PARTY WILL HAVE TO SUBMIT SOLD HE BENEFIT WILL HAVE TO SUBMIT SOLD HE BENEFIT WILL HAVE TO SUBMIT SOLD HE BENEFIT WILL HAVE TO SUBMIT SOLD HE BENEFIT WILL HAVE TO SUBMIT SOLD HE BENEFIT WILL HAVE TO SUBMIT SOLD HE BENEFIT WILL HAVE TO SUBMIT SOLD HE BENEFIT WILL HAVE TO SUBMIT SOLD HE BENEFIT WILL HAVE TO SUBMIT SOLD HE BENEFIT WILL HAVE TO SUBMIT SOLD HE BENEFIT WILL HAVE TO SUBMIT SOLD HE BENEFIT WILL HAVE TO SUBMIT SOLD HE BENEFIT WILL HAVE TO SUBMIT SOLD HE BENEFIT WILL HAVE TO SUBMIT SOLD HE BENEFIT WILL HAVE TO SUBMIT SOLD HE BENEFIT WILL HAVE TO SUBMIT SOLD HE BENEFIT WILL HAVE TO SUBMIT SOLD HE BENEFIT WILL HAVE TO SUBMIT SOLD HE BENEFIT WILL HAVE TO SUBMIT SOLD HE BENEFIT WILL HAVE TO SUBMIT SOLD HE BENEFIT WILL HAVE TO SUBMIT SOLD HE BENEFIT WILL HAVE TO SUBMIT SOLD HE BENEFIT WILL HAVE TO SUBMIT SOLD HE BENEFIT WILL HAVE TO SUBMIT SOLD HE BENEFIT WILL HAVE TO SUBMIT SOLD HE BENEFIT WILL HAVE TO SUBMIT SOLD HE BENEFIT WILL HAVE TO SUBMIT SOLD HE BENEFIT WILL HAVE TO SUBMIT SOLD HE BENEFIT WILL HAVE TO SUBMIT SOLD HE BENEFIT WILL HAVE TO SUBMIT SOLD HE BENEFIT WILL HAVE TO SUBMIT SOLD HE BENEFIT WILL HAVE TO SUBMIT SOLD HE BENEFIT HAVE TO SUBMIT SOLD HE BENEFIT HAVE TO SUBMIT SOLD HE BENEFIT HAVE TO SUBMIT SOLD HE BENEFIT HAVE TO SUBMIT SOLD HE BENEFIT HAVE TO SUBMIT SOLD HE BENEFIT HAVE TO SUBMIT SOLD HE BENEFIT HAVE TO SUBMIT SOLD HE BENEFIT HAVE TO SUBMIT SOLD HE BENEFIT HAVE TO SUBMIT SOLD HE BENEFIT HAVE TO SUBMIT SOLD HE BENEFIT HAVE TO SUBMIT SOLD HE BENEFIT HAVE TO SUBMIT SOLD HE BENEFIT HAVE TO SUBMIT SOLD HE BENEFIT	21.	DELIVERY PERIOD: VENDOR SHOULD STRICTLY QUOTE THE DELIVERY PERIOD AS MENTIONED IN NIT.	
IN THE STEARTS.  1. LICE PARTY WILL HAVE TO SUBMIT EGIAL ANDONE OF SECURITY DEPOSIT (IN THE PORM OF 10% 80/Fb/7/bb/7/bb/7/bb/7/bb/7/bb/7/bb/7/bb/	22.	IF ANY VENDOR DOES NOT SUPPLY THE ITEM WITHIN THE PURCHASE ORDER DELIVERY PERIOD, BHEL MAY/MAY NOT ACCEPT THE SUPPLY AT ITS SOLE DISCRETION.	
B) IN CASE OF TRIALIPORAL CONCERNATION ALL ORDER PARTY WILL AND YES DIBMINED ON OF THE COST OF DEBT. SHEET AND ALL ORDER PARTY OF THE ESSUE MATERIALS AT 20 MILE, MAY ARE THE SUPPLEAR FOR SUBMISSION OF FULL SECRET ORDER TO A DATE OF MATERIALS AT 20 MILE, MAY ARE THE SUPPLEAR FOR SUBMISSION OF FULL SECRET ORDER TO A DATE OF MATERIALS AT 20 MILE, MAY ARE THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF THE SUBMISSION OF		IN THIS REGARD:  1 (a). PARTY WILL HAVE TO SUBMIT EQUAL AMOUNT OF SECURITY DEPOSIT (IN THE FORM OF 10% BG/FDR/DD/CHEQUE/BANK TRANSFER AND 90% INDEMNITY BOND) TOWARDS THE COST OF BHEL MATERIALS TO BE ISSUED TO THEM BEFORE THE ISSUE OF BHEL MATERIALS TO THEM. AT ANY POINT OF TIME, PROPORTIONATE	
23. OUR RIO.  3. PARTY MUST IAWS TO SUBMITTHE SAME WITHINGO WERK TIME FROM THE DATE OF WRITTEN INTIMATION BY BHEL WITHOUT FALL OTHERWISE IT WOULD TREATED AS FAULURE OF HONDURING POT TREAS, AND ACCOUNTS AND ACCOUNTS OF THE PURPLES OF THE SAME ACCOUNTS.  1. BELL MAY FOUND THE PERDING PAYMENTS OF SUPPLIES WALLAGE LAT BELL ON THEIR CORREST.  1. BELL MAY FOUND THE PERDING PAYMENTS OF SUPPLIES WALLAGE LAT BELL ON THEIR CORREST.  1. BELL MAY FOUND THE PERDING PAYMENTS OF SUPPLIES WALLAGE LAT BELL ON THEIR CORREST.  1. BE NO PAYMENT SPRONGE OF SUPPLIES WALLAGE LAT BELL ON THEIR CORREST.  1. BE NO PAYMENT SPRONGE OF SUPPLIES WALLAGE LAT BELL ON THEIR CORREST.  1. BE NO PAYMENT SPRONGE OF SUPPLIES WALLAGE LAT BELL ON THEIR CORREST.  2. BARTS YSHALL HAVE TO ARRAME THE RESIDE ON ACCOUNTS AND BELL AND BE THE THE SUPPLIES WAS ACCOUNT THE THE BELL ON THE THE SAME OF THE SAME AND BELL ON THE THE SAME OF THE SAME AND BELL ON THE THE SAME OF THE SAME AND BELL ON THE THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND BELL ON THE SAME AND		(b) IN CASE OF TRIAL/DEVELOPMENTAL ORDER, PARTY WILL HAVE TO SUBMIT 30% BG/FDR/DD/CHEQUE/BANK TRANSFER AND 70% INDEMNITY BOND TOWARDS	
AS TAULINE OF HONOLURING PO TEMAS AMA ACCORDINGUE BILL MAY CANCEL THE PURICHASE GROBE AND INITIATE ALTERNATE PROCUREMENT ACTION AT SUPPLIER RISK & COCT.  4. IN CASE OF ASSENCE OF DESIRED SECURITY OPPOSIT AT DELE END AND ALSO NON RESPONSE OF POINT NO. 03 AS ABOVE,  1. IN HIS MAN HOLD THE PRINDING PAYMENTS OF SUPPLIER AVAILABLE AT HIS LOW THEIR CONSIST.  1. IN HIS OWN AND THE PRINDING PAYMENTS OF SUPPLIER AVAILABLE AT HIS LOW THEIR CONSIST.  1. IN HIS OWN AND THE PRINDING PAYMENTS OF SUPPLIER AVAILABLE AT HIS LOW THEIR CONSIST.  2. IN HIS OWN AND THE SHALL BE PREATTHAND AND ARRANGES AND AND THE RESPECTIVE YEAR OF THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE PRINCIPLE AND THE P	23.		
LIFE MAY HOLD THE PENDING PAYMENTS OF SUPPLIER AVAILABLE AT DIEL ON THEIR CONSENT.  ILLIF NO PAYMENT IS PERDING AT DIEL END, ACTION FOR ALTERNATE PROVIDE WITH HE BY.  5. THE FORMAT OF BG AND IS SHALL BE PER ATTACHED ANNEXURE #6/FM AND IB-FM RESPECTIVELY.  5. PHART YEARLY HAVE TO ASSANGE PRINCHINGHING OF THE SHAS COPE ALONG WITH HE BG.  2. THE AMERICAN HAVE TO ASSANGE PRINCHINGHING OF THE SHAS COPE ALONG WITH HE BG.  5. SHARD YEARLY HAVE TO ASSANGE PRINCHINGHING OF THE SHAS COPE ALONG WITH HE BG.  5. SHARD YEARLY HAVE TO ASSANGE PRINCHINGHING OF THE SHAD COPE ALONG AND HE THE PARTY WORKS WILL BE BORNE BY BHELD DILY. THE FREIGHT CHARGES FOR SHADOW THE PARTY WORKS WILL BE BORNE BY BHELD DILY. THE TIME OF TOTAL LANDED COST ACCULATION. HOWEVER, VARANASHING CAR BASED VENDORS WILL LIFT THE FIRM FROM BHELS TORKS AND BORNE ITS TRANSPORTATION CHARGES.  5. FIRBHLE ISSESS FREE SCIEN HATE TO COMPATY THE GOT BULLS IT ANY VENDOR DOES NOT RETURN THE STORES AND BORNE ITS TRANSPORTATION CHARGES.  5. FIRBHLE ISSESS BE STEED TO COMPATY THE GOT BULLS IT ANY VENDOR DOES NOT RETURN THE STREAM BE THE TO ANY OF THE TITLE OF THE THE DATE OF THE STREAM BE THE TO ANY OF THE TITLE OF THE TITLE AND THE THE THE THE THE TIME THE PARTY WORK THE TITLE AND THE THE THE TIME THE THE TIME THE PARTY WORK THE THE THE TIME THE TIME THE TIME THE TIME THE TIME THE THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME THE TIME		AS FAILURE OF HONOURING PO TERMS AND ACCORDINGLY BHEL MAY CANCEL THE PURCHASE ORDER AND INITIATE ALTERNATE PROCUREMENT ACTION AT SUPPLIER RISK & COST.	
5. THE FORMAT OF BIG AND IS SHALL BE PER ATTACHED AND EARLY SHOT THE SHIP CODE ALONG WITH THE BIG.  24. TRANSPORTATION CHARGES FOR SENDING BIBL FREE ISSUE MITERIALS (FINI) TO THE PARTY WORKS WILL BE BORNE BY BHELONLY. THE FREIGHT CHARGES FOR SENDING BIBL. FREE ISSUE MITERIALS (FINI) TO THE PARTY WORKS WILL BE BORNE BY BHELONLY. THE FREIGHT CHARGES FOR SENDING SHELD FREE PORT OF THE SHIP CONTINUES AND ADDRESS AND SONG TO THE CONTINUES OF THE SHIP CONTINUES AND SONG FOR EACH THE TIME OF TOTAL LANDED CONTINUES AND SONG FOR EACH THE TIME OF TOTAL LANDED CONTINUES AND SONG FOR EACH THE TIME OF TOTAL LANDED CONTINUES AND SONG FOR EACH THE TIME OF TOTAL LANDED CONTINUES AND SONG FOR EACH THE TIME OF TOTAL LANDED CONTINUES AND SONG FOR THE CONTINUES AND SONG FOR FOR THE SHIP CONTINUES AND SONG FOR THE CONTINUES AND SONG FOR THE SHIP CONTINUES AND SONG FOR THE CONTINUES AND SONG FOR THE SHIP CONTINUES AND SONG FOR THE SHIP CONTINUES AND SONG FOR THE SHIP CONTINUES AND SONG FOR THE SHIP CONTINUES AND SONG FOR THE SHIP CONTINUES AND SONG FOR THE SHIP CONTINUES AND SONG FOR THE SHIP CONTINUES AND SONG FOR THE SHIP CONTINUES AND SONG FOR THE SHIP CONTINUES AND SONG FOR THE SHIP CONTINUES AND SONG FOR THE SHIP CONTINUES AND SONG FOR THE SHIP CONTINUES AND SONG FOR THE SHIP CONTINUES AND SONG FOR THE SHIP CONTINUES AND SONG FOR THE SHIP CONTINUES AND SONG FOR THE SHIP CONTINUES AND SONG FOR THE SHIP CONTINUES AND SONG FOR THE SHIP CONTINUES AND SONG FOR THE SHIP CONTINUES AND SONG FOR THE SHIP CONTINUES AND SONG FOR THE SHIP CONTINUES AND SONG FOR THE SHIP CONTINUES AND SONG FOR THE SHIP CONTINUES AND SONG FOR THE SHIP CONTINUES AND SONG FOR THE SHIP CONTINUES AND SONG FOR THE SHIP CONTINUES AND SONG FOR THE SHIP CONTINUES AND SONG FOR THE SHIP CONTINUES AND SONG FOR THE SHIP CONTINUES AND SONG FOR THE SHIP CONTINUES AND SONG FOR THE SHIP CONTINUES AND SONG FOR THE SHIP CONTINUES AND SONG FOR THE SHIP CONTINUES AND SONG FOR THE SHIP CONTINUES AND SONG FOR THE SHIP CONTINUES AND SONG FOR THE SHIP CONTINUES AND SONG FOR THE SHI		I. BHEL MAY HOLD THE PENDING PAYMENTS OF SUPPLIER AVAILABLE AT BHEL <b>ON THEIR CONSENT.</b>	
24. THARKPORTATION CHARGES FOR SYNDING BHE FREE SISTE MATERIALS (TIM) TO THE PORTY WORKS WILL BE BORNE OF MIRL ONLY. THE PREJOY CHARGES FOR SYNDING BHE PORTY WORK OF A CHARMEN WILL BE LOUD A FER HELL TRANSPORT COTTACT LAND CHARGES.  25. THE BHELL SISTE BHE SIDE MATERIALS TO THE SUPPORT, THIS STEE RETURNS OF THIS HARD AND THE MATERIALS TO THE SUPPORT THE STEEL THAT SHEE FREE FIRST HARD STEEL THAT SHEE FREE FIRST HARD STEEL OF THE STEEL STEEL AND THE DATE OF FREE SISSUE DATE; TO COMPLY THE GST FULLS. IS ANY VERIDOR BOOS NOT RETURN THE BHEL FREE SISSUE MATERIALS AS MINTIONED ABOVE, THE FRANKACH AMPLICATION AND COUNT OF THIS, IF ANY PARK PARK PARK PARK PARK PARK PARK PARK		5. THE FORMAT OF BG AND IB SHALL BE PER ATTACHED ANNEXURE-BG/FIM AND IB-FIM RESPECTIVELY	
FINANCIAL MINICIATION ON ACCOUNT OF THIS, IF ANY, SHALL BE RECOVERED FROM THE PARTY BILLS.  REVERSE AUCTION: BHEL SHALL BE RESORTING TO REVERSE AUCTION (RA) (GUIDELINES AS AVAILABLE ON WWW.BHELLCOM) FOR THIS TENDER. RA SHALL BE CONDUCTED AMONG ALL THE TECHNOCOMMERCIALLY QUALIFIED BIDDERS.  PRICE BIDS OF ALL TECHNO-COMMERCIALLY QUALIFIED BIDDERS.  PRICE BIDS OF ALL TECHNO-COMMERCIALLY QUALIFIED BIDDERS SHALL BE CONSIDERED AS INITIAL BIDS OF BIDDERS IN AS, IN CASE ANY BIDDERS OF ALL TECHNO-COMMERCIALLY QUALIFIED BIDDERS.  PRICE BIDS OF ALL TECHNO-COMMERCIALLY QUALIFIED BIDDERS SHALL BE CONSIDERED AS INITIAL BIDS OF BIDDERS IN AS, IN CASE ANY BIDDERS OF ALL TECHNO-COMMERCIALLY QUALIFIED BIDDERS.  PRICE BIDS OF ALL TECHNO-COMMERCIALLY QUALIFIED BIDDERS SHALL BE CONSIDERED AS INITIAL BIDS OF BIDDERS IN AS, IN CASE ANY BIDDERS OF ALL TECHNO-COMMERCIAL TO ANY BIDDERS.  PRICE BID ALONG WITH A PRUCABLE LOADING, IF ANY, SHALL BE CONSIDERED AS INITIAL BIDS OF BIDDERS IN AS, IN CASE ANY BIDDERS, IN ANY, SHALL BE CONSIDERED AS INITIAL BIDS OF BIDDERS IN AS, IN CASE ANY BIDDERS, IN ANY, SHALL BE CONSIDERED AS INITIAL BIDS OF BIDDERS IN AS, IN CASE ANY BIDDERS, IN ANY, SHALL BE CONSIDERED AS INITIAL BIDS OF BIDDERS IN AS, IN ANY, SHALL BE CONSIDERED AS IN ANY SHALL BE CONSIDERED AS IN ANY SHALL BE CONSIDERED AS IN ANY SHALL BE CONSIDERED AS IN ANY SHALL BE CONSIDERED AS IN ANY SHALL BE CONSIDERED AS IN ANY SHALL BE CONSIDERED AS IN ANY SHALL BE CONSIDERED AS IN ANY SHALL BE CONSIDERED AS IN ANY SHALL BE CONSIDERED AS IN ANY SHALL BE CONSIDERED AS IN ANY SHALL BE CONSIDERED AS IN ANY SHALL BE CONSIDERED AS IN ANY SHALL BE CONSIDERED AS IN ANY SHALL BE CONSIDERED AS IN ANY SHALL BE CONSIDERED AS IN ANY SHALL BE CONSIDERED AS IN ANY SHALL BE CONSIDERED AS IN ANY SHALL BE CONSIDERED AS IN ANY SHALL BE CONSIDERED AS IN ANY SHALL BE CONSIDERED AS IN ANY SHALL BE CONSIDERED AS IN ANY SHALL BE CONSIDERED AS IN ANY SHALL BE CONSIDERED AS IN ANY SHALL BE CONSIDERED AS IN ANY SHALL BE CONSIDERED AS IN ANY SHALL BE CONSIDERED AS IN ANY S	24.	TRANSPORTATION CHARGES FOR SENDING BHEL FREE ISSUE MATERIALS (FIM) TO THE PARTY WORKS WILL BE BORNE BY BHEL ONLY. THE FREIGHT CHARGES FOR SENDING THE BHEL FIM FROM HERP STORES TO PARTY'S WORK FOR EACH ITEM WILL BE LOADED AS PER BHEL TRANSPORT CONTRACT AT THE TIME OF TOTAL LANDED	
CONDUCTED AMONG ALL THE TECHNO-COMMERCIALLY QUALIFIED BIDDERS. PRICE BIDS OF ALL TECHNO-COMMERCIALLY QUALIFIED BIDDERS AND ALL BE OPENED AND SAME SHALL BE CONSIDERED AS INITIAL BIDS OF BIDDERS IN RA. IN CASE ANY BIDDERS JOD (ES) NOT PARTICIPATE IN ONLINE REVERSE AUCTION, THEIR SEALED ENVELOPE PRICE BID ALONG WITH APPLICABLE LOADING, IF ANY, SHALL BE CONSIDERED FOR RANKING.  7.7  IF ANY OF THE VENDORS DO NOT ACCEPT THE ABOVE POINT MENTIONED AT SL. NO. 26, THEIR OFFER MAY BE LIABLE FOR REJECTION WITHOUT INTIMATION.  8. BHEL MAY SHORT LOSS/CANCEL AN ORDER AT ANY TIME DURING THE CURBENCY OF THE CONTRACT/PO IRRESPECTIVE OF THE PO DELIVERY DATE, IF  (I) THE POLIVERY REQUIREMENT OF THE TENN IS VERY CRITICAL & NOT BEING MET BY THE VENDOR ON WHICH ORDER HAS BEEN PLACED, OR  (II) THERE IS NO RESPONSE FOR IMPROVEMENT IN DELIVERY AS PER BHEL REQUIREMENTY.  7. THE OFFERS OF THE BIDDERS WHO ARE ON THE BINNESS PER BHEL REQUIREMENTY.  8. THE RIGHT TO INCREASE OR DESPONSE FOR IMPROVEMENT IN DELIVERY AS PER BHEL REQUIREMENTY.  9. THE RIGHT TO INCREASE OR DESPONSE FOR IMPROVEMENT THE GITH TO RESPONSE THE RIGHT OR RECEIT ANY OR ALL QUIOTATIONS WITHOUT ASSIGNING ANY REASONS THEREOF, BHEL ALSO RESERVES THE RIGHT OR RECEIT ANY OR ALL QUIOTATIONS WITHOUT ASSIGNING ANY REASONS THEREOF, BHEL ALSO RESERVES THE RIGHT OR RECEIT ANY OR ALL QUIOTATIONS WITHOUT ASSIGNING ANY REASONS THEREOF, BHEL ALSO RESERVES THE RIGHT OR RECEIT ANY OR ALL QUIOTATIONS WITHOUT ASSIGNING ANY WAY DETRIMENTAL TO THE INTEREST OF THE RIGHT OF INCREASE IN QUIOTATION ANY WAY DETRIMENTAL TO THE INTEREST OF THE RIGHT OF INCREASE OR OF INCREASE IN QUIANTITY.  13. NON-DISCUSSURE AGREEMENT. ALL DAMINGS AND STANDARDS ARE PROPRIETARY OF BHEL IT MUST NOT BE LESD IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE PURPOSE IT HAS SEEN PURPOSED SHALL ARISE BETTEMENT OF BRICK ORDINATIVE. OF THE CONTRACT FOR THE PURPOSE IT HAS SEEN PURPOSED SHALL ARISE BETTEMENT OF DESPLOYS AND ALL ARISE BETTEMENT OF DESPLOYS.  13. SETTLEMENT OF DESPLOYS AND AND AND AND AND AND AND AND AND AND	25.	THE DATE OF FREE ISSUE DATE) TO COMPLY THE GST RULES. IF ANY VENDOR DOES NOT RETURN THE BHEL FREE ISSUE MATERIALS AS MENTIONED ABOVE, THE	
CONSIDERED FOR RANKING.  27. IF ANY OF THE VENDORS DO NOT ACCEPT THE ABOVE POINT MENTIONED AT SL. NO. 26, THEIR OFFER MAY BE LIABLE FOR REJECTION WITHOUT INITIMATION.  28. (I) THE VENDOR SCO THE VENDOR IS POOR, OR  (II) THE DELIVERY REQUIREMENT OF THE ITEM IS YERY CRITICAL & NOT BEING MET BY THE VENDOR ON WHICH ORDER HAS BEEN PLACED, OR  (III) THE DELIVERY REQUIREMENT OF THE ITEM IS YERY CRITICAL & NOT BEING MET BY THE VENDOR ON WHICH ORDER HAS BEEN PLACED, OR  (III) THE DELIVERY REQUIREMENT OF THE ITEM IS YERY CRITICAL & NOT BEING MET BY THE VENDOR ON WHICH ORDER HAS BEEN PLACED, OR  (III) THE SET IS NO RESPONSE FOR IMPROVEMENT IN DELIVERY AS PER BRIEL REQUIREMENT.)  29. THE OFFERS OF THE BIDDERS WHO ARE ON THE BANNED JUST AND ALSO THE OFFER OF THE BIDDERS, WHO ENGAGE THE SERVICES OF THE BANNED FIRMS, SHALL BE REJECTED. THE UST OR BANNED FIRMS IS ANALIABLE ON BRIEF WEST SET WWW.Mbell.com  30. THE NIGHT TO INCREASE OR DECREASE THE TRADERED QUANTITIES. YERDOODS SHOULD BE PREPARED TO ACCEPT ORDER FOR REDUCED QUANTITIES WITHOUT ANY EXTRA CHARGAS. VENDOR SHOULD ALSO DESTREAMED FOR SHOULD AS DO SET PREPARED TO ACCEPT ORDER FOR REDUCED QUANTITIES WITHOUT ANY EXTRA CHARGAS. VENDORS SHOULD ALSO DESTREAMED FOR SHOULD AS DO SET PREPARED TO A CEPT ORDER FOR REDUCED QUANTITIES WITHOUT ANY EXTRA CHARGAS. VENDORS SHOULD ALSO DESTREAMED FOR SHOULD AS DO SET PREPARED TO ACCEPT ORDER FOR REDUCED QUANTITIES WITHOUT ANY EXTRA CHARGAS. VENDORS SHOULD ASD OR SHEPARED TO ACCEPT ORDER FOR REDUCED QUANTITIES WITHOUT ANY EXTRA CHARGAS. VENDORS SHOULD ASD ORDER SHEPARED TO ACCEPT ORDER FOR REDUCED QUANTITIES WITHOUT ANY EXTRA CHARGAS. VENDORS SHOULD ASD ORDER SHEPARED TO ACCEPT ORDER FOR REDUCED QUANTITIES WITHOUT ANY DETRIBUTION AND THE PROPERTY OF THE PROPORMAN. ALL SUPPLIERS SHALL DATE HEADERS OR CONTRACT TRANSPORT OR SHEPARED TO ACCEPT THE PROPORMAN. ALL SUPPLIERS SHALL DEVELOPMENT OR THE PROPORT OF THE PROPORMAN. ALL SUPPLIERS SHALL INTEREST OF THE PROPORT OF THE PROPORT OF THE PROPORT OF THE PROPORT OF THE PROPORT OF THE PROPORT O	26.	CONDUCTED AMONG ALL THE TECHNO-COMMERCIALLY QUALIFIED BIDDERS.	
BHE MAY SHORT CLOSE/CANCEL AN ORDER AT ANY TIME DURING THE CURRENCY OF THE CONTRACT/PO IRRESPECTIVE OF THE PO DELIVERY DATE, IF  28. (I) THE WORK PROGRESS OF THE VENDOR IS POOR, OR  (II) THE DELIVERY REQUIREMENT OF THE ITEM IS VERY CRITICAL & NOT BEING MET BY THE VENDOR ON WHICH ORDER HAS BEEN PLACED, OR  (III) THE DELIVERY REQUIREMENT OF THE ITEM IS VERY CRITICAL & NOT BEING MET BY THE VENDOR ON WHICH ORDER HAS BEEN PLACED, OR  (III) THE DELIVERY REQUIREMENT OF THE ITEM IS VERY CRITICAL & NOT BEING MET BY THE VENDOR ON WHICH ORDER HAS BEEN PLACED, OR  (III) THE SET IS NO RESPONSE FOR IMPROVEMENT IN DELIVERY AS PER BHEL REQUIREMENT,  29. THE OFFERS OF THE BIDDERS WHO ARE ON THE BANNED JUST AND ALSO THE OFFER OF THE BIDDERS, WHO ENCAGE THE SERVICES OF THE BANNED FIRMS, SHALL BE REJECTED. THE LIST OF BANNED FIRMS IS AVAILABLE ON BHEL WEST ITEM WAS AND ALSO THE SET WAY. SHOULD BE PREADED TO ACCEPT ORDER FOR REDUCED QUANTITIES WITHOUT ANY  THE RIGHT TO INCREASE OR DECREASE THE TENDERED QUANTITIES VENDORS SHOULD BE PREADED TO ACCEPT ORDER FOR REDUCED QUANTITIES WITHOUT ANY  ENTRY OF THE COMPANY. ALL SUPPLIERS SHALL PRINCED CHANTEN SENDORS SHOULD BE PREADED TO ACCEPT ORDER FOR REDUCED QUANTITIES WITHOUT ANY  ANTHORIZED USE EXCEPT FOR THE PURPOSE IT HAS BEEN FURNISHED.  31. ON ON-DISCLOSURE AGREEMENT. ALL DRAWINGS AND STANDARDS ARE PROPRIETARY OF BHEL IT MUST NOT BUSED IN ANY WAY DETRIMENTAL TO THE INTEREST  OF THE COMPANY. ALL SUPPLIERS SHALL PRINCES FURNISHED.  32. SETTLEMENT OF DISPUTE:  IF ANY DISPUTE OR DIFFERENCE OF ANY KIND WHATSOEVER SHALL ARISE BETWEEN BHEL AND THE SUPPLIER/VENDOR. ARISING OUT OF THE CONTRACT, TISHALL IN THE FIRST  PLACE REFERRED TO DESIGNATED ENGINEER FOR AMICABLE RESOLUTION BY THE PRATIES, DESIGNATED ENGINEER TO BE NOMINATED BY BHEL FOR THE HIRST  PLACE REFERRED TO DESIGNATED ENGINEER FOR AMICABLE RESOLUTION BY THE PRATIES, DESIGNATED ENGINEER TO BE THE CONTRACT, TISHALL IN THE FIRST  PLACE REFERRED TO DESIGNATED ENGINEER FOR AMICABLE RESOLUTION BY THE PRATIES, DESIGNATED ENGINEER FOR FOR T			
18. (I) THE WORK PROGRESS OF THE VENDOR IS POOR, OR  (II) THE DELIVERY REQUIREMENT OF THE TERM & YERY CRITICAL & NOT BEING MET BY THE VENDOR ON WHICH ORDER HAS BEEN PLACED, OR  (III) THERE IS NO RESPONSE FOR IMPROVEMENT IN DELIVERY AS PER BHEL REQUIREMENT,  19. THE OFFERS OF THE BIDDERS WHO ARE ON THE BANNED UIST AND ALSO THE OFFER OF THE BIDDERS, WHO ENGAGE THE SERVICES OF THE BANNED FIRMS, SHALL BE  REJECTED. THE UIST OF BANNED FIRMS IS AVAILABLE ON BHELL WEB SITE www. MHOLE ONE  10. THE OFFERS OF THE BIDDERS WHO ARE ON THE BANNED UIST AND ALSO THE OFFER OF THE BIDDERS, WHO ENGAGE THE SERVICES OF THE BANNED FIRMS, SHALL BE  REJECTED. THE UIST OF BANNED FIRMS IS AVAILABLE ON BHELL WEB SITE WAY. BHELLOWS  11. THE CHIEF THE UIST OF BANNED FIRMS IS AVAILABLE ON BHELL WEB SITE WAY. BHELLOWS  12. THE RIGHT TO INCREASE OR DECREASE THE ITENDERED QUANTITIES. VENDORS SHOULD BE PREPARED TO ACCEPT ORDER FOR REDUCED QUANTITIES WITHOUT ANY  13. DISCONSIDER, AGREEMENT, ALL DEAWINGS AND ISANDADOS ARE PROPRIETE AND OF BHELL THAT MUST NOT BE USED IN ANY WAY DETRIMENTAL. TO THE INTEREST  15. THE COMPANY. ALL SUPPLIES SHALL FURNISH HOAS (NON-DISCLOSURE AGREEMENT) AGAINST USE OF DOCUMENTS FURNISHED BY BHEL TOWARDS UN-  16. THE OWNER OF THE PURPOSE IT HAS BEEN FURNISHED.  17. AND HOUSE OUT OF THE PURPOSE IT HAS BEEN FURNISHED.  18. SETTLEMENT OF DISPUTE:  18. FANY DISPUTE ON DIFFERENCE OF ANY KIND WHATSDEVER SHALL ARDS BETWEEN BHEL AND THE SUPPLIER/VENDOR, ARISING OUT OF THE CONTRACT FOR THE  18. PREVENTION OF THE CONTRACT HOW OWN THIS HOUSE THE PARTIES, DESIGNATED ENGINEER (TO BE NOOMINATED BY THE FOR THE FORT OF THE PURPOSE THAT AND A SHALL PROVIDED ON TO THE CONTRACT, IT SHALLIN THE RIST PACE REFERED SHALL FOR THE WORK WHETHER DURING THE PROGRESS OF CONTRACT TERMINATION, ABANDOMMENT OR BREACH OF THE CONTRACT, IT SHALLIN THE RIST PACE AND THE PROVIDED ON THE CONTRACT, IT SHALLIN THE RIST PACE AND THE PROVIDED ON THE CONTRACT OF THE CONTRACT OF THE PROVIDED ON THE CONTRACT OF THE CONTRACT OF THE PROVIDED ON THE CONTRACT OF THE CO	27.	IF ANY OF THE VENDORS DO NOT ACCEPT THE ABOVE POINT MENTIONED AT SL. NO. 26, THEIR OFFER MAY BE LIABLE FOR REJECTION WITHOUT INTIMATION.	
19. THE OFFERS OF THE BIDDERS WHO ARE ON THE BANNED LIST AND ALSO THE OFFERS OF THE BIDDERS, WHO ENDAGE THE SERVICES OF THE BANNED FIRMS, SHALL BE REJECTED. THE UIST OF BANNED FIRMS IS AVAILABLE ON BHEL WEB SITE www.bhel.com  10. RESERVATION RIGHTS OF BHEL.—BHEL RESERVES THE RIGHT TO REJECT ANY OR ALL QUIDATIONS WITHOUT ASSIGNING ANY REASONS THEREOF, BHEL ALSO RESERVES THE RIGHT TO INCREASE OR DECREASE THE TENDERED QUANTITIES. VENDORS SHOULD BE PREPARED TO A CEPTOR PORCE FOR REDUCED QUANTITIES WITHOUT ANY EXTRA CHARGES. VENDOR SHOULD ALSO BE PREPARED FOR GIVING DISCOUNT IN CASE OF INCREASE IN QUANTITY.  11. NON-DISCLOSURE AGREEMENT: ALL DRAWINGS AND STANDARDS ARE PROPRIETARY OF BHEL IT MUST NOT BE USED IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY. ALL SUPPLIERS SHALL FUNNISH NOS. (NON-DISCLOSURE AGREEMENT) AGAINST USE OF DOCUMENTS FURNISHED BY BHEL TOWARDS UN-AUTHORIZED USE EXCEPT FOR THE PURPOSE IT HAS BEEN PURNISHED.  12. SETTLEMENT OF DISPUTE:  15. ANY DISPUTE OR DIFFERENCE OF ANY KIND WHATSOEVER SHALL ARISE BETWEEN BHEL AND THE SUPPLIER/VENDOR, ARISING OUT 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, IT SHALL IN THE FIRST PLACE REFERRED TO DESIGNATED ENGINEER FOR AMICABLE RESOLUTION BY THE PARTIES. DESIGNATED ENGINEER (TO BE YIGHTED AND ANY ACT AND ANY ACT AND ANY ACT AND ANY ACT AND ANY ACT AND ANY ACT AND ANY ACT AND ANY ACT AND ANY ACT AND ANY ACT AND ANY ACT AND ANY ACT AND ANY ACT AND ANY ACT AND ANY ACT AND ANY ACT AND ANY ACT AND ANY ACT AND ANY ACT AND ANY ACT AND ANY ACT AND ANY ACT AND ANY ACT AND ANY ACT AND ANY ACT AND ANY ACT AND ANY ACT AND ANY ACT AND ANY ACT AND ANY ACT AND ANY ACT AND ANY ACT AND ANY ACT AND ANY ACT AND ANY ACT AND ANY ACT AND ANY ACT AND ANY ACT AND ANY ACT AND ANY ACT AND ANY ACT AND ANY ACT AND ANY ACT AND ANY ACT AND ANY ACT AND ANY ACT AND ANY ACT AND ANY ACT AND ANY ACT AND ANY ACT AND ANY	28.	(I) THE WORK PROGRESS OF THE VENDOR IS POOR, OR	
30. RESERVATION RIGHTS OF BANNED FIRMS IS AVAILABLE ON BHEL WEB SITE www.bbelc.com  31. RESERVATION RIGHTS OF BHEL: – BHEL RESERVES THE RIGHT TO REJECT ANY OR ALL QUOTATIONS WITHOUT ASSIGNING ANY REASONS THEREOF. BHELALSO RESERVES THE RIGHT TO INCREASE OR DECREASE THE TENDERED QUANTITIES. VENDORS SHOULD BE PREPARED TO ACCEPT ORDER FOR REDUCED QUANTITIES WITHOUT ANY EXTRA CHARGES. VENDOR SHOULD ALSO BE PREPARED FOR GIVING DISCOUNT IN CASE OF INCREASE IN QUANTITY.  31. NON-DISCOUSURE AGREEMENT: ALL DRAWINGS AND STANDARDS ARE PROPRIETARY OF BHEL IT MUST NOT BE USED IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY. ALL SUPPLIERS SHALL FURNISH NOAS (NON-DISCLOSURE AGREEMENT) AGAINST USE OF DOCUMENTS FURNISHED BY BHEL TOWARDS UNAUTHORIZED USE EXCEPT FOR THE PURPOSE IT HAS BEEN FURNISHED.  SETTLEMENT OF DISPUTE:  IF ANY DISPUTE OR DIFFERENCE OF ANY KIND WHATSOEVER SHALL ARISE BETWEEN BHEL AND THE SUPPLIER/VENDOR, ARISING OUT OF THE CONTRACT FOR THE PREFORMANCE OF THE WORK WHETHER DURING THE PROGRESS OF CONTRACT TERMINATION, ABANDOMMENT OR BREACH OF THE CONTRACT, THAT PLACE REFERRED TO DESIGNATED ENGINEER FOR A MICROSLE RESOLUTION BY THE PARTIES. DESIGNANT OF BREACH OF THE CONTRACT OR DAYS AFTER BEING REQUISEDED SHALL GIVE WHITE NOTICE OF THIS DECISION TO THE PREFORMANCE OF THE WORK WHETHER DURING THE PROVIDED, SUCH DECISION IN RESPECT OF EVERY MATTERS SO REFERRED SHALL FORTHWITH BE GIVEN EFFECT TO BY THE SUPPLIER/VENDOR.  322. WHO SHALL PROCEED WITH THE WORK WITH ALL DUE DILIGENCE, WHETHER HE OR BHELD ESSIES TO RESCUED ENGINEER FOR THE DISPUTE AS BEEN COMMUNICATED TO HIM BY THE AFFECTED PARTY WITHIN AD DAYS FROM THE RECEIPT OF SUCH NOTICE, THE SAID DECISION SHALL BECOME FINAL AND BINDING ON THE PARTIES. IN THE EVERTUAL TEACH OF THE ADDITION OF THE PARTY AND NO INTENTION TO THIS AGREEMENT (INCLUDING ITS INTERPRETATION) BETWEEN THE PARTIES, AND SO NOTIFIED IN WEITING BY ETHER PARTY TO THE OTHER PARTY TO		(III) THERE IS NO RESPONSE FOR IMPROVEMENT IN DELIVERY AS PER BHEL REQUIREMENT,	
### PITER INCREASE OR DECREASE THE TENDERED QUANTITIES. VENDORS SHOULD BE PREPARED TO ACCEPT DADER FOR REDUCED QUANTITIES WITHOUT ANY EXTRA CHARGES. VENDOR SHOULD ALSO BE PREPARED FOR GIVING DISCOUNT IN CASE OF INCREASE IN QUANTITY.  **NON-DISCLOSURE AGREEMENT: ALL DRAWINGS AND STANDARDS AAR PROPRIETARY OF BHEL. IT MUST NOT BE USED IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY. ALL SUPPLIERS SHALL FURNISH NDAS (NON-DISCLOSURE AGREEMENT) AGAINST USE OF DOCUMENTS FURNISHED BY BHEL TOWARDS UNAUTHORIZED USE EXCEPT FOR THE PURPOSE IT HAS BEEN FURNISHED.  **SETTLEMENT OF DISPUTE:**  IF ANY DISPUTE OR DIFFERENCE OF ANY KIND WHATSOEVER SHALL ARISE BETWEEN BHEL AND THE SUPPLIER/VENDOR, ARISING OUT OF THE CONTRACT, IT SHALL IN THE FIRST PLACE REFERRED TO DESIGNATED ENGINEER FOR AMICABLE RESOLUTION BY THE PARTIES. DESIGNATED ENGINEER (TO BE MOMINATED BY BHEL FOR SETTLEMENT OF DISPUTES ASHING GOUT OF THE CONTRACT, WHO WITHIN 60 DAYS AFTER BEING REQUESTED SHALL GIVE PHIS DESIGNATED ENGINEER FOR AMICABLE RESOLUTION BY THE PARTIES. DESIGNATED ENGINEER (TO BE MOMINATED BY BHEL FOR SETTLEMENT OF DISPUTES ASHING GOUT OF THE CONTRACT, WHO WITHIN 60 DAYS AFTER BEING REQUESTED SHALL GIVE PHIS HIS DESIGNATED BY BHEL FOR SETTLEMENT OF DISPUTES ASHING GOUT OF THE CONTRACT, WHO WITHIN 50 DAYS AFROM THE BEING REQUESTED SHALL GIVE PHIS DESIGNATED BY BIS DECISION TO THE CONTRACT OF SAVE AS HEREINAFTER PROVIDED, SUCH DECISION IN RESPECT OF EVERY MATTER SO REFERRED SHALL FOR THIS NET HIS DEVELOR. TO BY THE SUPPLIER/VENDOR OWN SHALL PROCEED WITH THE WORK WITH ALL DUE DILIGENCE, WHETHER EOR 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 DISASTISFIED WITH ANY SUCH DECISION OR IF AMICABLE	29.		
OF THE COMPANY, ALL SUPPLIERS SHALL FURNISH NDAS (NON-DISCLOSURE AGREEMENT) AGAINST USE OF DOCUMENTS FURNISHED BY BHEL TOWARDS UN- AUTHORIZED USE EXCEPT FOR THE PURPOSE IT HAS BEEN FURNISHED.  SETTLEMENT OF DISPUTE:  IF ANY DISPUTE OR DIFFERENCE OF ANY KIND WHATSOEVER SHALL ARISE BETWEEN BHEL AND THE SUPPLIER/VENDOR, ARISING OUT 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 CONTRACT OR SAVE AS HEREINAFTER PROVIDED, SUCH DECISION IN RESPECT OF EVERY MATTER SO REFERRED SHALL FORTHWITH BE GIVEN EFFORT 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 PARTYES. IN THE EVENT THE SUPPLIER/VENDOR BEING DISSASTIFIED 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 AS PER CLAUSE 14.1  CONCILIATION (Clause 14.1):  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 AMICABLE SHOP AND AS PROVIDED IN "PROCEDURE FOR CONDICILATION PROCEDURES FOR CANDISTANCE, BE ATTEMPTED TO BE RESOLVED AMICABLE SHOP AND AS PROVIDED IN "PROCEDURE FOR CONDICILATION PROCEDURES FOR AND STATUTORY MODIFICATION THEREF	30.	THE RIGHT TO INCREASE OR DECREASE THE TENDERED QUANTITIES. VENDORS SHOULD BE PREPARED TO ACCEPT ORDER FOR REDUCED QUANTITIES WITHOUT ANY	
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 MATTERS OR REFERRED SHALL GIVE WRITTEN NOTICE OF HIS DECISION TO THE CONTRACTOR. SAVE AS HEREINAFTER PROVIDED, SUCH DECISION IN RESPECT OF EVERY MATTERS OR REFERRED SHALL GIVE WRITTEN NOTICE OF HIS DECISION TO THE CONTRACTOR. SAVE AS HEREINAFTER PROVIDED 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 AS PER CLAUSE 14.1  CONCILIATION (Clause 14.1):  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 BE AVAILABLE IN WRITING BY EITHER PARTY TO THE OTHER PARTY (THE "DISPUTE") SHALL, IN THE FIRST INSTANCE, BE ATTEMPTED TO BE RESOLVED AMICABLY BE AVAILABLE IN WRITING B	31.	OF THE COMPANY. ALL SUPPLIERS SHALL FURNISH NDAS (NON-DISCLOSURE AGREEMENT) AGAINST USE OF DOCUMENTS FURNISHED BY BHEL TOWARDS UN-	
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 AS PER CLAUSE 14.1  CONCILIATION (Clause 14.1):  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)).  Note:  MINISTRY OF FINANCE HAS ISSUED OM REFERENCE NO. 1/2/24 DATED 03.06.2024 REGARDING "GUIDELINES FOR ARBITRATION AND MEDIATION IN CONTRACTS OF DOMESTIC PUBLIC PROCUREMENT. IN THE SAID OM IT HAS BEEN RECOMMENDED THAT GOVERNMENT DEPARTMENTS/ ENTITIES/AGENCIES ARE TO ENCOURAGE MEDIATION UNDER THE MEDIATION ACT 2023. THE SAID ACT HAS NOT YET BEEN NOTIFIED BY THE GOVERNMENT. THEREFORE, THE CLAUSE "SETTLEMENT OF DISPUTES" SHALL BE MODIFIED ACCORDINGLY AS AND WHEN THE MEDIATION ACT 2023 GETS NOTIFIED.  ARBITRATION (14.2):  34. 14.2.1 EXCEPT AS PROVIDED ELSEWHERE IN THIS CONTRACT, IN CASE PARTIES ARE UNABLE TO REACH AMICABLE SETTLEMENT (WHETHER BY CONCILIATION TO BE	32.	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	
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)).  Note:  MINISTRY OF FINANCE HAS ISSUED OM REFERENCE NO. 1/2/24 DATED 03.06.2024 REGARDING "GUIDELINES FOR ARBITRATION AND MEDIATION IN CONTRACTS OF DOMESTIC PUBLIC PROCUREMENT. IN THE SAID OM IT HAS BEEN RECOMMENDED THAT GOVERNMENT DEPARTMENTS/ ENTITIES/AGENCIES ARE TO ENCOURAGE MEDIATION UNDER THE MEDIATION ACT. 2023. THE SAID ACT HAS NOT YET BEEN NOTIFIED BY THE GOVERNMENT. THEREFORE, THE CLAUSE "SETTLEMENT OF DISPUTES" SHALL BE MODIFIED ACCORDINGLY AS AND WHEN THE MEDIATION ACT 2023 GETS NOTIFIED.  ARBITRATION (14.2):  14.2.1 EXCEPT AS PROVIDED ELSEWHERE IN THIS CONTRACT, IN CASE PARTIES ARE UNABLE TO REACH AMICABLE SETTLEMENT (WHETHER BY CONCILIATION TO BE		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	
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)).  Note:  MINISTRY OF FINANCE HAS ISSUED OM REFERENCE NO. 1/2/24 DATED 03.06.2024 REGARDING "GUIDELINES FOR ARBITRATION AND MEDIATION IN CONTRACTS OF DOMESTIC PUBLIC PROCUREMENT. IN THE SAID OM IT HAS BEEN RECOMMENDED THAT GOVERNMENT DEPARTMENTS/ ENTITIES/AGENCIES ARE TO ENCOURAGE MEDIATION UNDER THE MEDIATION ACT. 2023. THE SAID ACT HAS NOT YET BEEN NOTIFIED BY THE GOVERNMENT. THEREFORE, THE CLAUSE "SETTLEMENT OF DISPUTES" SHALL BE MODIFIED ACCORDINGLY AS AND WHEN THE MEDIATION ACT 2023 GETS NOTIFIED.  ARBITRATION (14.2):  14.2.1 EXCEPT AS PROVIDED ELSEWHERE IN THIS CONTRACT, IN CASE PARTIES ARE UNABLE TO REACH AMICABLE SETTLEMENT (WHETHER BY CONCILIATION TO BE		CONCILIATION (Clause 14.1):	
MINISTRY OF FINANCE HAS ISSUED OM REFERENCE NO. 1/2/24 DATED 03.06.2024 REGARDING "GUIDELINES FOR ARBITRATION AND MEDIATION IN CONTRACTS OF DOMESTIC PUBLIC PROCUREMENT. IN THE SAID OM IT HAS BEEN RECOMMENDED THAT GOVERNMENT DEPARTMENTS/ ENTITIES/AGENCIES ARE TO ENCOURAGE MEDIATION UNDER THE MEDIATION ACT. 2023. THE SAID ACT HAS NOT YET BEEN NOTIFIED BY THE GOVERNMENT. THEREFORE, THE CLAUSE "SETTLEMENT OF DISPUTES" SHALL BE MODIFIED ACCORDINGLY AS AND WHEN THE MEDIATION ACT 2023 GETS NOTIFIED.  34. 14.2.1 EXCEPT AS PROVIDED ELSEWHERE IN THIS CONTRACT, IN CASE PARTIES ARE UNABLE TO REACH AMICABLE SETTLEMENT (WHETHER BY CONCILIATION TO BE	33.	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)).	
34. 14.2.1 EXCEPT AS PROVIDED ELSEWHERE IN THIS CONTRACT, IN CASE PARTIES ARE UNABLE TO REACH AMICABLE SETTLEMENT (WHETHER BY CONCILIATION TO BE		MINISTRY OF FINANCE HAS ISSUED OM REFERENCE NO. 1/2/24 DATED 03.06.2024 REGARDING "GUIDELINES FOR ARBITRATION AND MEDIATION IN CONTRACTS OF DOMESTIC PUBLIC PROCUREMENT. IN THE SAID OM IT HAS BEEN RECOMMENDED THAT GOVERNMENT DEPARTMENTS/ ENTITIES/AGENCIES ARE TO ENCOURAGE MEDIATION UNDER THE MEDIATION ACT. 2023. THE SAID ACT HAS NOT YET BEEN NOTIFIED BY THE GOVERNMENT. THEREFORE, THE CLAUSE "SETTLEMENT OF	
14.2.1 EXCEPT AS PROVIDED ELSEWHERE IN THIS CONTRACT, IN CASE PARTIES ARE UNABLE TO REACH AMICABLE SETTLEMENT (WHETHER BY CONCILIATION TO BE	24	ARBITRATION (14.2):	
CONDUCTED AS PROVIDED IN CLAUSE 14.1 HEREIN ABOVE OR OTHERWISE) IN RESPECT OF ANY DISPUTE OR DIFFERENCE; ARISING OUT OF THE FORMATION, BREACH,	34.	14.2.1 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 14.1 HEREIN ABOVE OR OTHERWISE) IN RESPECT OF ANY DISPUTE OR DIFFERENCE; ARISING OUT OF THE FORMATION, BREACH,	

# GENERAL COMMERCIAL TERMS & CONDITIONS OF ENQUIRY (FOR INDIAN VENDORS)

Amendment- 26 ANNEXURE-A 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 ARBITRAL INSTITUTION (TO BE IDENTIFIED BY BHEL VARANASI) AND SUCH DISPUTE TO BE ADJUDICATED BY SOLE ARBITRATOR APPOINTED IN ACCORDANCE WITH THE RULES OF SAID ARBITRAL INSTITUTION. 14.2.2 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 LINIT. BHELL 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. 14.2.3 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 INSTITUTIONS ( TO BE IDENTIFIED BY BHEL VARANASI ) 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 ARRITRATION FOR REFERENCE OF DISPLIFE 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. 14.2.4 THE FEE AND EXPENSES SHALL BE BORNE BY THE PARTIES AS PER THE ARBITRAL INSTITUTIONAL RULES. 14.2.5 THE ARBITRATION PROCEEDINGS SHALL BE IN ENGLISH LANGUAGE AND THE SEAT AND VENUE OF ARBITRATION SHALL BE AT Varanasi (U.P.). 14.2.6 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 14.2.7 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. 14.2.8 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 14.2.9 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. 14.2.10 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 CLAUSE 14.2.9. 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. 14.2.11 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. JURISDICTION: THIS CONTRACT SHALL BE GOVERNED BY THE LAW FOR THE TIME BEING IN FORCE IN THE REPUBLIC OF INDIA. THE CIVIL COURT HAVING ORIGINAL CIVIL JURISDICTION AT VARANASI-UP, SHALL ALONE HAVE EXCLUSIVE JURISDICTION IN REGARD TO ALL MATTERS IN RESPECT OF THE CONTRACT I. FOLLOWING DOCUMENTS SHOULD BE ENCLOSED AND ADDRESSED TO DGM (FINANCE) AND SAME SHALL BE DISPATCHED TO MM DEPTT. BHEL, HERP, TARNA, SHIVPUR VARANASI-221003 FOR PAYMENT PURPOSE. 05 (FIVE) COPIES OF GST INVOICES a) b) COPY OF GR/RR. TEST CERTIFICATE AND GUARANTEE/WARRANTEE CERTIFICATE AND PDI REPORT, IF APPLICABLE, (ONE COPY). II. FURTHER TO ABOVE, 02 (TWO) COMPLETE SETS OF DOCUMENTS (COPIES OF ABOVE MENTIONED DOCUMENTS AT SL. NO. I FOR INDIAN SUPPLIERS (UNDER THIS CLAUSE) SHALL BE SENT FOR PURCHASE AND QUALITY DEPARTMENTS. ORIGINAL COPIES OF TC, GC, PDI REPORTS & OTHER QUALITY PAPERS SHALL BE ATTACHED IN THE SET OF DOCUMENTS FOR QUALITY DEPARTMENTS. III. THE VENDOR SHOULD PROVIDE BILLS & OTHER DOCUMENTS COMPLETE IN ALL RESPECT AS PER PURCHASE ORDER ALONGWITH DESPATCH OF MATERIALS. RHFI SHALL SEEK CLARIFICATION(S) (IF ANY) RELATED TO PAYMENT DOCUMENTS IN ONE GO. THE VENDOR SHOULD PROVIDE ALL SUCH CLARIFICATION(S) IMMEDIETLY. ANY DELAY IN PROCESSING OF PAYMENT, DUE TO NON RECEIPT OF CLARIFICATION(S) SOUGHT BY BHEL, SHALL BE ATTRIBUTABLE COMPLETELY TO VENDOR. IV. DIGITALLY SIGNED INVOICE IS ALSO ACCEPTABLE FOR PROCESSING OF PAYMENT. THE VENDOR SHALL ENSURE THAT THEIR BANK DETAILS ARE UPDATED WITH US FOR TIMELY PAYMENT THROUGH EFT (ELECTRONICS FUND TRANSFER). GUIDELINES FOR SUSPENSION OF BUSINESS DEALINGS WITH SUPPLIERS/ CONTRACTORS: THE REVISED GUIDELINES FOR SUSPENSION OF BUSINESS DEALINGS ARE AVAILABLE ON BHEL WEBSITE AT "www.bhel.com" on "SUPPLIER REGISTRATION PAGE". RESPECTIVE BIDDERS / SUPPLIERS MAY REFER THIS BEFORE QUOTING AS PER THEIR REQUIREMENT, ACTION AGAINST THE DEFAULTED SUPPLIERS/ CONTRACTORS' SHALL BE TAKEN AS PER THESE GUIDELINES ONLY. VENDOR MUST FOLLOW THE SEQUENTIAL DELIVERY SCHEDULE i.e. ITEMS TO BE SUPPLIED IN SUCH A MANNER THAT THE PURCHASE ORDER HAVING OLDER DELIVERY SCHEDULE SHOULD BE SUPPLIED EARLIER AND PURCHASE ORDER HAVING LATTER DELIVERY SCHEDULE TO BE SUPPLIED LATTER. IF ANY VENDOR DOES NOT FOLLOW THE SEQUENTIAL DELIVERY SCHEDULE ESPECIALLY FOR SAME ITEM. BHEL MAY ACCOUNT FOR THE ITEM IN SEQUENTIAL MANNER OR MAY RECOVER THE FINANCIAL

ALL ABOVE ACCEPTED TERMS & CONDITIONS SHALL BE PART OF PURCHASE ORDER WITH OR WITHOUT MENTIONING IN THE PO/CONTRACT BASED ON YOUR

35.

38.

39

40

41.

ACCEPTANCE AND OFFER SUBMITTED.

IMPORTANT INSTRUCTION:

# GENERAL COMMERCIAL TERMS & CONDITIONS OF ENQUIRY (FOR INDIAN VENDORS)

I.VENDORS ARE REQUESTED TO QUOTE THEIR RATE WITH DESCRIPTION MENTIONED IN THE ENQUIRY CONSIDERING ALL TECHNICAL TERMS & CONDITIONS OF THE

Amendment- 26

ANNEXURE-A

ENOUIRY, ALSO RATES QUOTED SHOULD BE EXACLTY AS PER SL. NO. OF HARD COPY OF THE ENOUIRY (IF ENOUIRY HAS BEEN FLOATED THROUGH CONVENTIONAL MODE) OR AS PER SL. NO. APPEARING IN THE e-Procurement PORTAL (IF ENQUIRY HAS BEEN FLOATED THROUGH e-Procurement) ONLY. IT MUST BE FOLLOWED UP TO AVOID CONFUSION AT LATER STAGES, ALSO RATES TO BE SUBMITTED BOTH IN NUMERICS AS WELL AS IN WORD, IN CASE OF DISCREPENCY, RATES SUBMITTED IN WORDS SHALL BE CONSIDERED FOR FURTHER PROCESSING. II.DOCUMENTS SUBMITTED WITH THE OFFER SHOULD BE SIGNED AND STAMPED IN EACH PAGE BY AUTHORIZED REPRESENTATIVE OF THE BIDDER. II.IN CASE OF PDI, VENDOR SHALL RAISE ONLINE INSPECTION CALL IN ONLINE INSPECTION PORTAL/INTIMATE BHEL IN WRITTIING (WHERE INSPECTION IS IN BHEL HERP SCOPE) AT LEAST 01 WEEK IN ADVANCE OR AS MUTUALLY AGREED PERIOD ABOUT THE DATE AND PLACE AT WHICH GOODS WILL BE READY FOR INSPECTION. IV.PURCHASER OR HIS AUTHORIZED REPRESENTATIVE SHALL BE ENTITLED TO CARRY OUT SURVEILLANCE INSPECTION OF MATERIAL AND WORKMANSHIP AT SELLER'S PREMISES OR AT HIS SUB-CONTRACTOR'S PREMISES AT ALL REASONABLE TIMES DURING EXECUTION OF THE CONTRACT. SUCH INSPECTION, EXAMINATION AND TESTING, IF MADE, SHALL NOT ABSOLVE THE SELLER FROM HIS OBLIGATIONS UNDER THE CONTRACT. V.SUCH PRE-DISPATCH INSPECTION, EXAMINATION AND TESTING, IF MADE, AT VENDOR'S WORKS SHALL NOT ABSOLVE THE SELLER FROM HIS OBLIGATIONS TO MANUFACTURE/MACHINING THE GOODS UNDER THE CONTRACT. IF DEFCETS ARE FOUND AT LATER STAGE. IT IS THE SOLE RESPONSIBILITY OF THE VENDOR TO REPLACE/RECTIFY THE SAME. IMPORTANT CLAUSE FOR GST: INPUT TAX CREDIT OF GST CAN BE AVAILED BY BHEL ONLY WHEN THE MATERIAL HAS BEEN PHYSICALLY RECEIVED AND GST INVOICE IS IN POSSESSION OF BHEL. THEREFORE, SUPPLIERS SHOULD ENSURE THE FOLLOWING IN RESPECT OF POS ISSUED BY BHEL: I. GST INVOICE SHOULD CONTAIN ADDRESS, GST NO. AND PAN NO. OF BHEL AS WELL AS OF SUPPLIER. APPLICABLE HSN CODE OF THE MATERIAL SHOULD BE INDICATED IN THE GST INVOICE. II. FIVE COPIES OF GST INVOICE AND LORRY RECEIPT MAY BE DESPATCHED ALONGWITH SHIPMENT OF THE GOODS IN ORDER TO AVOID ANY DELAY IN AVAILING INPUT CREDIT BY BHEL. III. DECLARE SUCH INVOICE IN HIS GSTR-1 RETURN FOR THE MONTH OF DESPATCH OF MATERIAL. IV. PAYMENT OF GST TO STATUTORY AUTHORITIES WITHIN PRESCRIBED TIME. V. IN CASE OF DISCREPANCY IN THE DATA UPLOADED BY THE BIDDER IN THE GSTN PORTAL VIS-A-VIS THE TAX INVOICE OR IN CASE OF ANY SHORTAGES OR REJECTION IN THE SUPPLY THEN BHEL WILL NOT BE ABLE TO AVAIL THE TAX CREDIT. BIDDER HAS TO RECTIFY THE DATA DISCREPANCY IN THE GSTN PORTAL OR ISSUE CREDIT NOTE OR DEBIT NOTE (DETAILS ALSO TO BE UPLOADED IN GSTN PORTAL) FOR THE SHORTAGES OR REJECTIONS IN THE SUPPLIES OR ADDITIONAL CLAIMS FOR PROCESSING OF SLICH INVOICES VI. GST TDS DEDUCTED AS PER GST ACT. IS UPLOADED IN GSTN PORTAL ALONG GSTR7. BIDDERS CAN DIRECTLY DOWNLOAD THE GST TDS CERTIFICATE FROM THE GSTN IN CASE GST CREDIT IS DELAYED /DENIED TO BHEL DUE TO NON OR DELAYED RECEIPT OF GOODS AND OR TAX INVOICE OR EXPIRY OF TIMELINE PRESCRIBED IN GST LAW FOR AVAILING SUCH ITC OR ANY OTHER REASON NOT ATTRIBUTABLE TO BHEL, GST AMOUNT SHALL BE RECOVERABLE FROM VENDOR ALONG WITH INTEREST /PENALTY LEVIABLE ON BHEL. IN CASE SUPPLIERS DELAYS DECLARING SUCH INVOICE IN HIS RETURN AND GST CREDIT AVAILED BY BHEL IS DENIED OR REVERSED SUBSEQUENTLY AS PER GST LAW, GST AMOUNT PAID BY BHEL TOWARDS SUCH ITC REVERSAL SHALL BE RECOVERABLE FROM SUPPLIER ALONGWITH INTEREST LEVIED/LEVIABLE ON BHEL. IN CASE OF RAISING ANY SUPPLEMENTARY TAX INVOICE (DEBIT/ CREDIT NOTE), THE SUPPLIER SHALL ISSUE THE SAME CONTAINING ALL THE DETAILS AS REFERRED TO IN SECTION 34 READ WITH SECTION 31 OF GST ACT & RULES REFERRED THERE UNDER . STATUTORY VARIATION CLAUSE: ANY INCREASE IN THE RATE OF GST SHALL BE PAYABLE ONLY FOR DELIVERIES COMPLETED WITHIN THE SCHEDULED DELIVERY PERIOD, IN OTHER WORDS INCREASE IN THE RATE OF GST SHALL NOT BE PAYABLE FOR VALUE OF CONSIGNMENT DELIVERED AFTER THE SCHEDULED PURCHASE ORDER DELIVERY PERIOD. 2. NEW TAXES AND DUTIES, IF IMPOSED SUBSEQUENT TO DUE DATE OF OFFER SUBMISSION, BY STATUTORY AUTHORITY DURING CONTRACT PERIOD (INCLUDING EXTENSION IF THE SAME IS NOT ATTRIBUTABLE TO BIDDER) SHALL BE REIMBURSED BY BHELON PRODUCTION OF RELEVANT SUPPORTING DOCUMENTS TO THE SATISFACTION OF BHEL. HOWEVER, BIDDER SHALL TAKE PRIOR APPROVAL OF BHEL BEFORE DEPOSITING NEW TAXES AND DUTIES. IMPORTANT INSTRUCTION FOR MSEs SUPPLIERS: I. "MSE SUPPLIERS CAN AVAIL THE INTENDED BENEFITS ONLY IF THEY SUBMIT ALONG WITH OFFER, ATTESTED COPIES OF EITHER EM-II CERTIFICATE HAVING DEEMED VALIDITY (FIVE YEARS FROM THE DATE OF ISSUE OF ACKNOWLEDGEMENT IN EM-II) OR VALID NSIC CERTIFICATE OR EM-II CERTIFICATE ALONG WITH CA CERTIFICATE (FORMAT FNCLOSED AS PER ANNEXLIRE-1 WHERE DEFMED VALIDITY OF FM-II CERTIFICATE OF FIVE YEARS HAS EXPIRED) APPLICABLE FOR THE RELEVANT F/Y (LATEST AUDITED), DATE TO BE RECKONED FOR DETERMINING THE DEEMED VALIDITY WILL BE THE DATE OF BID OPENING (PART -1 IN CASE OF TWO PART BID). NON SUBMISSION OF SUCH DOCUMENTS WILL LEAD TO CONSIDERATION OF THEIR BID AT PAR WITH OTHER BIDDERS. NO BENEFIT SHALL BE APPLICABLE FOR THIS ENQUIRY IF ANY DEFICIENCY IN THE ABOVE REQUIRED DOCUMENTS ARE NOT SUBMITTED BEFORE PRICE BID OPENING. IF THE TENDER IS TO BE SUBMITTED THROUGH eprocurement PORTAL, THEN THE ABOVE REQUIRED DOCUMENTS ARE TO BE UPLOADED ON THE PORTAL, DOCUMENTS SHOULD BE NOTARIZED OR ATTESTED BY A GAZETTED OFFICE. II.IN CASE OF ANY CHANGE IN THE MSE STATUS OF THE BIDDER, IT SHALL BE RESPONSIBILITY OF THE BIDDER TO NOTIFY THE CHANGE AS A PART OF THE BID DOCUMENT. IF AT A LATER DATE IT COMES TO NOTICE OF BHEL, THAT THE CHANGE IN THE STATUS HAS NOT BEEN INTIMATED BY THE BIDDER AND THE ORDER IS OBTAINED UNDER THE PREMISE OF AN MSE, THEN BHEL WOULD CANCEL THE PENDING ORDER AGAINST THIS TENDER AND TAKE NECESSARY ACTION SUSPENSION OF THE BUSSINESS DEALING WITH THE BIDDER AS PER PROCUREMENT POLICY OF BHEL. III.25 % OF THE TENDERED QUANTITY IS EARMARKED FOR MSE SUPPLIERS IN THIS TENDER. IV.OUT OF THIS 25% TENDERED QUANTITY RESERVED FOR MSE SUPPLIERS, 4 % SHALL BE EARMARKED FOR PROCUREMENT FROM MSES OWNED BY SC/ST V.OUT OF THIS 25% TENDERED QUANTITY RESERVED FOR MSE SUPPLIERS. 3% SHALL BE EARMARKED FOR PROCUREMENT FROM MSES OWNED BY WOMEN. VI.IN CASE MSE VENDOR PARTICIPATING IN THE TENDER QUOTES WITHIN THE PRICE BAND OF "L1+15%", THEY WILL BE ALLOWED TO SUPPLY THE 25% PORTION OF THE REQUIREMENT SUBJECT TO ACCEPTANCE OF L1 PRICE (ON LANDED COST BASIS) BY MSE VENDOR. IN CASE OF MORE THAN ONE SUCH MSE VENDOR WITHIN THE "L1+15% PRICE BAND" THE SUPPLY SHALL BE SHARED PROPORTIONATELY (TO 25% TENDERED QUANTITY). VII.IF THE L1 VENDOR HAPPENS TO BE A MSE VENDOR AGAINST ANY ITEM CODE, THEN 100% OF THE TENDERED QTY (FOR RESPECITVE ITEM CODE) SHALL BE PROPOSED TO ORDER ON THE L1 (MSE) VENDOR, EVEN THOUGH THERE MAY BE OTHER MSE VENDORS WITHIN THE "L1+15% PRICE BAND". VIII.IN CASE AFTER OPENING OF PRICE BID. IT IS SEEN THAT NO MSE HAS BECOME L1. THEN DEPENDING ON THE NATURE OF THE ITEM. IF IT IS NOT POSSIBLE TO SPLIT THE TENDERED ITEMS/QUANTITIES ON ACCOUNT OF REASONS LIKE CUSTOMER CONTRACT REQUIREMENTS OF SUPPLYING ONE MAKE FOR A GIVEN PROJECT OR TECHNICAL REASONS LIKE TENDERED ITEMS BEING A SYSTEM etc. THEN BHEL WOULD NOT COUNTER OFFER THE L1 PRICES EVEN THOUGH THERE MAY BE MSE BIDDERS WITHIN THE "L1+15% PRICE BAND" OF L1. THE STARTUPS AS DEFINED IN THE GAZETTE OF INDIA NOTIFICATION NO.: G.S.R. 127 (E) DATED 19/02/2019 WILL BE EXEMPTED FROM FULFILLING THE CRITERIA, IF MENTIONED. IN THE POR (PRE-QUALIFYING REQUIREMENT) REGARDING PRIOR TURNOVER AND PRIOR EXPERIENCE. HOWEVER, THERE MAY BE CIRCUMSTANCES (LIKE PROCUREMENTS OF ITEMS RELATED TO PUBLIC SAFETY, HEALTH, CRITICAL SECURITY OPERATIONS AND EQUIPMENTS ETC.) WHERE BHEL MAY PREFER THE VENDORS TO HAVE PRIOR EXPERIENCE RATHER THAN GIVING ORDER TO NEW ENTITIES. FOR SUCH PROCUREMENTS, BHEL MAY NOT RELAX THE CRITERIA OF PRIOR EXPERIENCE/TURNOVER FOR THE STARTUPS. PURCHASE PREFERENCE FOR INDIAN VENDORS: 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 (PREFERNCE 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 THE 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 46 MODEL CLAUSE FOR TENDER. 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.

(FOR INDIAN VENDORS)	
Amendment- 26	
ANNEXURE-A	_
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	
d) AN ENTITY SUBSTANTIALITY 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	
17. THE BENEFICIAL OWNER FOR THE PURPOSE OF (III) ABOVE WILL BE AS UNDER:  1. IN CASE OF A COMPANY OR LIMITED LIBILITY PARTNERSHIP, THE BENEFICIAL OWNER IS THE NATURAL PERSON (S) WHO, WHETHER ACTING ALONE OR TOGETHER,	
OR THROUGH ONE OR MORE JURIDICAL PERSON, HAS A CONTROLLING OWNERSHIP INTEREST OR WHO EXERCISES CONTROL THROUGH OTHER MEANS.  EXPLANATION –  a. "CONTROLLING OWNERSHIP INTEREST" MEANS OWNERSHIP OF OR ENTITLEMENT TO MORE THAN TWENTY-FIVE PER CENT. OF SHARES OR CAPITAL OR PROFITS OF	
THE COMPANY  b. "CONTROL" SHALL INCLUDE THE RIGHT TO APPOINT MAJORITY OF THE DIRECTORS OR TO CONTROL THE MANAGEMENT OR POLICY DECISIONS INCLUDING BY VIRTUE	
OF THEIR SHAREHOLDING OR MANAGEMENT RIGHTS OR 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.  CERTIFICATE: IN ORDER TO AVAIL THE BENEFITS, VENDORS TO SUBMIT (ALONG WITH OFFER) THE SELF-CERTIFICATION THAT THE ITEM OFFERED MEETS THE CONTENT REQUIREMENT FOR CLASS-I/ CLASS-I/ CLASS-I/ LOCAL SUPPLIER AS THE CASE MAY BE, INDICATING THE PERCENTAGE OF LOCAL CONTENT. AND SHALL GIVE DETAILS OF LOCATION AT WHICH THE LOCAL VALUE ADDITION IS MADE (refer attached Make in India (Model Certificate no I).	
13.1 "FORCE MAJEURE" SHALL MEAN CIRCUMSTANCE WHICH IS:  A) BEYOND CONTROL OF EITHER OF THE PARTIES TO CONTRACT,	
B) EITHER OF THE PARTIES COULD NOT REASONABLY HAVE PROVIDED AGAINST THE EVENT BEFORE ENTERING INTO THE CONTRACT,  C) HAVING ARISEN, EITHER OF THE PARTIES COULD NOT REASONABLY HAVE AVOIDED OR OVERCOME, AND  D) IS NOT SUBSTANTIALLY ATTRIBUTABLE TO EITHER OF THE PARTIES	
PREVENTS THE PERFORMANCE OF THE CONTRACT	
SUCH CIRCUMSTANCES INCLUDE BUT SHALL NOT BE LIMITED TO:  I) WAR, HOSTILITIES, INVASION, ACT OF FOREIGN ENEMIES.	
II) REBELLION, TERRORISM, REVOLUTION, INSURRECTION, MILITARY OR USURPED POWER, OR CIVIL WAR.	
III) RIOT, COMMOTION OR DISORDER BY PERSONS OTHER THAN THE CONTRACTOR'S PERSONNEL AND OTHER EMPLOYEES OF THE CONTRACTOR AND SUB-CONTRACTORS.	
IV) STRIKE OR LOCKOUT NOT SOLELY INVOLVING THE CONTRACTOR'S PERSONNEL AND OTHER EMPLOYEES OF THE CONTRACTOR AND SUB-CONTRACTORS.  V) ENCOUNTERING MUNITIONS OF WAR, EXPLOSIVE MATERIALS, IONIZING RADIATION OR CONTAMINATION BY RADIO-ACTIVITY, EXCEPT AS MAY BE ATTRIBUTABLE	
TO THE CONTRACTOR'S USE OF SUCH MUNITIONS, EXPLOSIVES, RADIATION OR RADIO- ACTIVITY.	
VI) NATURAL CATASTROPHES SUCH AS EARTHQUAKE, TSUNAMI, VOLCANIC ACTIVITY, HURRICANE OR TYPHOON, FLOOD, FIRE, CYCLONES ETC.  VII) EPIDEMIC, PANDEMIC ETC	
13.2 THE FOLLOWING EVENTS ARE EXPLICITLY EXCLUDED FROM FORCE MAJEURE AND ARE SOLELY THE RESPONSIBILITIES OF THE NON-PERFORMING PARTY: A) ANY STRIKE, WORK-TO-RULE ACTION, GO-SLOW OR SIMILAR LABOUR DIFFICULTY (B) LATE DELIVERY OF EQUIPMENT OR MATERIAL (UNLESS CAUSED BY FORCE MAJEURE EVENT) AND (C) ECONOMIC HARDSHIP.	
13.3 IF EITHER PARTY IS PREVENTED, HINDERED OR DELAYED FROM OR IN PERFORMING ANY OF ITS OBLIGATIONS UNDER THE CONTRACT BY AN EVENT OF FORCE MAJEURE, THEN IT SHALL NOTIFY THE OTHER IN WRITING OF THE OCCURRENCE OF SUCH EVENT AND THE CIRCUMSTANCES THEREOF WITHIN 15 (FIFTEEN) DAYS AFTER THE OCCURRENCE OF SUCH EVENT.	
13.4 THE PARTY WHO HAS GIVEN SUCH NOTICE SHALL BE EXCUSED FROM THE PERFORMANCE OR PUNCTUAL PERFORMANCE OF ITS OBLIGATIONS UNDER THE CONTRACT FOR SO LONG AS THE RELEVANT EVENT OF FORCE MAJEURE CONTINUES AND TO THE EXTENT THAT SUCH PARTY'S PERFORMANCE IS PREVENTED, HINDERED OR DELAYED. THE TIME FOR COMPLETION SHALL BE EXTENDED BY A PERIOD OF TIME EQUAL TO PERIOD OF DELAY CAUSED DUE TO SUCH FORCE MAJEURE EVENT.	
13.5 DELAY OR NON-PERFORMANCE BY EITHER PARTY HERETO CAUSED BY THE OCCURRENCE OF ANY EVENT OF FORCE MAJEURE SHALL NOT	
I) CONSTITUTE A DEFAULT OR BREACH OF THE CONTRACT.	
II) GIVE RISE TO ANY CLAIM FOR DAMAGES OR ADDITIONAL COST EXPENSE OCCASIONED THEREBY, IF AND TO THE EXTENT THAT SUCH DELAY OR NON-PERFORMANCE IS CAUSED BY THE OCCURRENCE OF AN EVENT OF FORCE MAJEURE.	
12 C DUEL AT ITS DISCRETION MAY CONSIDER SUORT CLOSURE OF CONTRACT AFTER 1 YEAR OF IMPOSITION OF FORCE MAJELIRE IN LINE WITH EVTANT CHIRELINES	

IN ANY CASE, SUPPLIER/VENDOR CANNOT CONSIDER DEEMED SHORT-CLOSURE AFTER 1 YEAR OF IMPOSITION OF FORCE MAJEURE.

BHEL MANAGEMENT ABOUT ANY FRAUD OR SUSPECTED FRAUD AS SOON AS IT COMES TO THEIR NOTICE.

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

SHORT SHIPMENTS/ WARRANTY/GUARANTEE REPLACEMENTS: IN CASE OF ANY SHORT SHIPMENT DURING INITIAL SUPPLY WHICH IS SUBSEQUENTLY DISPATCHED

BY THE VENDOR OR ANY GUARANTEE / WARRANTY REPLACEMENTS SHALL BE DISPATCHED ON "FOR-BHEL STORES/DESIGNATED DESTINATION" BASIS FOR INDIGENOUS

# GENERAL COMMERCIAL TERMS & CONDITIONS OF ENQUIRY (FOR INDIAN VENDORS)

Amendment- 26

ANNEXURE-A

	ITEMS. TAXES, IF ANY PAID BY INDIGENOUS VENDOR FOR GUARANTEE /WARRANTEE REPLACEMENT, REPAIR ACTIVITY EXCLUDING SHORT SUPPLY SHALL BE TO	
	VENDOR'S ACCOUNT ONLY. THE VENDOR HAS TO RAISE A CREDIT NOTE FOR SHORT SUPPLIED QUANTITY AS PER GST PROVISIONS.  E WAY BILL: THE SUPPLIER HAS TO ARRANGE FOR E WAY BILL AS APPLICABLE FOR ANY MOVEMENT OF GOODS ALONG WITH OTHER PRESCRIBED DOCUMENTS AS PER	
50.	GST LAW. THE SUPPLIER HAS ALSO TO COMPLY WITH ANY AMENDMENT AS PRESCRIBED FROM TIME TO TIME UNDER E WAY BILL RULE. ANY FINANCIAL IMPLICATION	
	ARISES ON BHEL DUE TO NONCOMPLIANCE OF E WAY BILL RULE WILL BE PASSED ON TO THE SUPPLIER.	
	THE BIDDER DECLARES THAT THEY WILL NOT ENTER INTO ANY ILLEGAL OR UNDICLOSED AGREEMENT OR UNDERSTANDING, WHETHER FORMAL OR INFORMAL WITH	
51.	OTHER BIDDER (S). THIS APPLIES IN PARTICULAR TO PRICES, SPECIFICATIONS, CERTIFICATIONS, SUBSIDIARY CONTRACTS, SUBMISSION OR NON- SUBMISSION OF BIDS	
51.	OR ANY OTHER ACTIONS TO RESTRICT COMPETITIVENES OR TO INTRODUE 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.	
52.	THE BIDDER SHALL REGISTER THEMSELVES ON GEM PORTAL AND SHALL QUOTE THEIR GEM SELLER ID IN THEIR OFFER. GEM SELLER ID IS MANDATORY FOR PLACEMENT	
32.	OF PURCHASE ORDER EXCEPT IN CASES WHERE FREE ISSUE MATERIAL IS TO BE ISSUED BY BHEL.	
	REJECTION/REPLACEMENT:	
53.	THE SELLER SHALL ARRANGE REPLACEMENT / REPAIR UNDER ITS OBLIGATION UNDER THE CONTRACT. SELLER SHALL BE GIVEN GROUND RENT FREE PERIOD OF 90	
55.	DAYS FROM THE DATE OF REJECTION TO LIFT REJECTED MATERIAL. BEYOND 90 DAYS, A GROUND RENT OF 0.25% OF VALUE OF REJECTED MATERIAL PER WEEK WILL	
	BE LEVIED FOR A MAXIMUM PERIOD OF 4 WEEKS, BEYOND THIS PERIOD SUPPLIER FORFEITS THEIR RIGHT TO THE MATERIALS.	
	TREATMENT OF CASES REGARDING CONFLICT OF INTEREST:	
	THE BIDDER NOTES THAT A CONFLICT OF INTEREST WOULD SAID TO HAVE OCCURRED IN THE TENDER PROCESS AND EXECUTION OF THE RESULTANT CONTRACT, IN	
	CASE OF ANY OF THE FOLLOWING SITUATIONS:	
	I) IF ITS PERSONNEL HAVE A CLOSE PERSONAL, FINANCIAL, OR BUSINESS RELATIONSHIP WITH ANY PERSONNEL OF BHEL WHO ARE DIRECTLY OR INDIRECTLY RELATED	
	TO THE PROCUREMENT OR EXECUTION PROCESS OF THE CONTRACT, WHICH CAN AFFECT THE DECISION OF BHEL DIRECTLY OR INDIRECTLY;	
	II) THE BIDDER (OR HIS ALLIED FIRM) PROVIDED SERVICES FOR THE NEED ASSESSMENT/ PROCUREMENT PLANNING OF THE TENDER PROCESS IN WHICH IT IS	
	PARTICIPATING;	
	III) PROCUREMENT OF GOODS DIRECTLY FROM THE MANUFACTURERS/ SUPPLIERS SHALL BE PREFERRED. HOWEVER, IF THE OEM/ PRINCIPAL INSISTS ON ENGAGING	
	THE SERVICES OF AN AGENT, SUCH AGENT SHALL NOT BE ALLOWED TO REPRESENT MORE THAN ONE MANUFACTURER'S (SUPPLIER IN THE SAME TENDER.)	
54.	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. 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.	
55.	VENDOR MUST VISIT OUR WEBSITE https://herp.bhel.com regularily for enquiry/po/clarifications/for any latest updates.	
56.	MSME VENDORS CAN AVAIL BENEFITS OF PAYMENT THROUGH TREDS.	
	"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 WEBSITE WWW.BHEL.COM.	
	1.0 INTEGRITY COMMITMENT, PERFORMANCE OF THE CONTRACT AND PUNITIVE ACTION THEREOF:	
	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	
	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.	
	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.	
	1.0 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:	
	1.0 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	
-	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	
57.	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.	
57.	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	
57.	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	
57.	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.	
57.	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	
57.	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/8 HEL.  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.	
57.	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/B 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	
57.	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	
57.	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/8 HEL.  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	
57.	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	
57.	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/8 HEL.  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 BIDDERS 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 AND/OR UNDER APPLICABLE LEGAL PROVISIONS".	
57.	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 AND/OR UNDER APPLICABLE LEGAL PROVISIONS".  BID SECURITY OR EARNEST MONEY DEPOSIT (EMD): TO SAFE GUARD AGAINST A BIDDER'S WITHDRAWING OR ALTERI	
57.	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 INDILIES 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 AND/OR UNDER APPLICABLE LEGAL PROVISIONS".  BID SECURITY OR EARNEST MONEY DEPOSIT (EMD): TO SAFE GUARD AGAINST A BIDDER/S WITHDRAWING OR ALTER	
57.	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 AND/OR UNDER APPLICABLE LEGAL PROVISIONS".  BID SECURITY OR EARNEST MONEY DEPOSIT (EMD): TO SAFE GUARD AGAINST A BIDDER'S WITHDRAWING OR ALTERI	
57.	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 SPER EXTANT GUIDELINES OF THE COMPANY AVAILABLE ON WWW. BHEL COM AND/OR UNDER APPLICABLE LEGAL PROVISIONS".  BID SECURITY OR EARNEST MONEY DEPOSIT (EMD): TO SAFE GUARD AGAINST A BIDDER'S WITHDRAWING OR ALTERING	
57.	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 SHALLADHERE 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 AND/OR UNDER APPLICABLE LEGAL PROVISIONS".  BID SECURITY OR EARNEST MONEY DEPOSIT (EMD): TO SAFE GUARD AGAINST A BIDDER'S WITHDRAWING OR ALTERIN	
57.	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 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. BHELCOM AND/OR UNDER APPLICABLE LEGAL PROVISIONS".  BID SECURITY OR EARNEST MONEY DEPOSIT (EMD): TO SAFE GUARD AGAINST A BIDDER'S WITHDRAWING OR ALTERING ITS/ HIS BID DURING THE BID VALIDITY PERIOD, BID SECURITY (ALSO KNOWN AS EARNEST MONEY	
57.	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 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.  1.4.3. THE BIDDER/ SUPPLIER/ CONTRACTOR DURING PRE-TENDERING/ TENDERING/ POST TENDERING/ AWARD/ EXECUTION/ POST-EXECUTION STAGE INDULGES IN MALPRACTICES, CHEATING, BRIBBERY, 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 PUNISHBALE UNDER ANY PROVISION OF THE INDIAN PENAL CODE, 1860 OR ANY OTHER INSURED FROM THE INDIAN PENAL CODE, 1860 OR ANY OTHER INSURANCE IN INDIA, THEN, ACTION MAY BE TAKEN AGAINST S	
	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.  1.2.1. 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.  1.2.3. THE 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 AND/OR UNDER APPLICABLE LEGAL PROVISIONS*.  BID SECURITY OR EARNEST MONEY DEPOSIT (EMD): TO SAFE GUARD AGAINST A BIDDER'S WITHDRAWING OR A	
	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 INTERNOS ISSUED FROM TIME TO TIME BY GOVT. OF INDIA/S BHEL.  1.2.3. THE BIDDER/ SUPPLIER/ CONTRACTOR WILL, PHEN PRESENTING HIS BID, DISCLOSE ANY AND ALL PAYMENTS HE HAS MADE, AND IS COMMITTED TO OR INTERNOS ISSUED FROM TIME TO TIME BY GOVT. OF INDIA/S BHEL.  1.2.3. THE BIDDER/ SUPPLIER/ CONTRACTOR WILL PREFORM/ 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 CARTELS OAS TO INFLUENCE THE BIDDING PROCESS OR INFLUENCE THE PRICE OR ACTS OR OMITS IN ANY MANNER WHICH TANTAMOUNT TO AN OFFENCE PUNISHBABLE 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 WAW. BHEL. COM AND/OR UNDER APPLICABLE LEGAL PROVISIONS*.  BID SECURITY OF EARNEST MONEY DEPOSIT	
	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. I. 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. THE BIDDER/ SUPPLIER/ CONTRACTOR WILL, WHEN PRESENTING HIS BID, DISCLOSE ANY AND ALL PAYMENTS HE HAS MADE, AND IS COMMITTED TO OR INTERDS TO MAKE TO AGENTS, BROKERS OR ANY OTHER INTERMEDIARIES IN CONNECTION WITH THE AWARD OF THE CONTRACT AND SHALLADHERE TO RELEVANT GUIDELINES ISSUED FROM TIME TO TIME BY GOVT. OF INDIA/5 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.  1F ANY BIDDER/ SUPPLIER/ CONTRACTOR WILL PERFORM/ EXECUTE THE CONTRACT TENDERING/ AWARD/ EXECUTION/ POST-EXECUTION STAGE INDULGES IN MALPRACTICES, CHEATING, BRIBERY, FRAULD OR AND OTHER MISCONDUCT OR FORMATION OF CHEETE 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'S WITHDRAWING OR ALTERING ITS/ HIS BID DURING THE BID VALIDITY PERIOD, BID SECURITY OR EARNEST MONEY DEPOSIT (EMD): TO SAFE GUARD AGAINST A BIDDER'S WITHDRAWING OR ALTERING ITS/ HIS BID DURING THE BID VALIDITY PERIOD, BID SECURITY (A	
	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.  1.2.1. 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 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 WILL PERFORM/ EXECUTE THE CONTRACT AS PER THE CONTRACT TERMS & CONDITIONS AND WILL NOT DEFAULT WITHOUT AND PROVISIONS.  IF ANY BIDDER/ SUPPLIER/ CONTRACTOR WILL PERFORM/ EXECUTE THE CONTRACT AS PER EXTANT GUIDELINES OF THE COMPANY AVAILABLE ON THE MILD OF A SUPPLIER/ CONTRACTOR AS PER EXTANT GUIDELINES OF THE COMPANY AVAILABLE ON WOW. BHELL COM AND OTHER MISCONDUCTOR PROMATION OF CARBELS ON AS TO INFLUENCE THE BIDDING PROCESS OR INFULIENCE THE BIDDING PROCESS	
	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. COMMITMENT BY 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. THE BIDDER/ SUPPLIER/ CONTRACTOR WILL, WHEN PRESENTING HIS BIDD, DISCLOSE ANY AND ALL PAYMENTS HE HAS MADE, AND IS COMMITTED TO OR INTERNS 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/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST	
	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.  1.2.1. 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 GOAT. OF INDIA/J BHEL.  1.2.3. THE BIDDER/ SUPPLIER/ CONTRACTOR WILL PERFORM/ EXECUTE THE CONTRACT AS PER THE CONTRACT TAND SHALL ADHERE TO RELEVANT GUIDELINES IS USED FROM TIME TO TIME BY GOAT. OF INDIA/J 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  1.2.3. THE BIDDER/ SUPPLIER/ CONTRACTOR DURING PRE-TENDERING/ TENDERING/ TENDERING/ EXECUTION / POST-EXECUTION STAGE INDILGES IN MALPRACTICES, CHEATING, BRIBERY, FRAUD OR AND OTHER MISCONDUCT OR FORMATION OF CARRIELS OA S TO INFLUENCE THE BIDDING PROAL COSO.  1. FANY BIDDER/ SUPPLIER/ CONTRACTOR DURING PRE-ENDERING/ TENDERING/ EVER PURINGHABLE WINDOWS OF THE INDIAN PENAL COOD.  1. FANY BIDDER/ SUPPLIER/ CONTRACTOR DURING PRE-ENDERING/ TENDERING/ TENDERING/ TENDERING/ TENDERING/ TENDERING/ TENDERING/ TENDERING/ TENDERING/ TENDERI	
	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. COMMITMENT BY 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. THE BIDDER/ SUPPLIER/ CONTRACTOR WILL, WHEN PRESENTING HIS BIDD, DISCLOSE ANY AND ALL PAYMENTS HE HAS MADE, AND IS COMMITTED TO OR INTERNS 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/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST TENDERING/ POST	

Amendment- 26

ANNEXURE-A

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

(II) EMD BY THE TENDERER SHALL 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.

#### 3 RETURN OF EMD

(I) BID SECURITIES OF THE UNSUCCESSFUL BIDDERS SHALL BE RETURNED TO BIDDER 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.

(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).

(III) EMD SHALL NOT CARRY ANY INTEREST.

PERFORMANCE SECURITY (PS): TO ENSURE DUE PERFORMANCE OF THE CONTRACT, PERFORMANCE BANK GUARANTEE (PBG) OR SECURITY DEPOSIT (SD), HEREAFTER REFERRED AS PERFORMANCE SECURITY SHALL BE OBTAINED FROM THE SUCCESSFUL BIDDER AWARDED THE CONTRACT. THE PERFORMANCE SECURITY OF REQUIRED AMOUT IS TO BE SUBMITTED BY THE DATE SPECIFIED IN THE PO/CONTRACT.

#### 1. MODES OF DEPOSIT:

A) PERFORMANCE SECURITY MAY BE FURNISHED IN THE FOLLOWING FORMS:

(I) LOCAL CHEQUES OF SCHEDULED BANKS (SUBJECT TO REALIZATION)/ PAY ORDER/ DEMAND DRAFT/ ELECTRONIC FUND TRANSFER IN FAVOUR OF BHEL.

(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.

(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).

(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 BHELD.

(V) INSURANCE SURETY BOND.

(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)

B) IN CASE OF GTE TENDERS, THE PERFORMANCE SECURITY SHALL 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.

(C) PERFORMANCE SECURITY IS TO BE FURNISHED WITHIN 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

"BIDDER AGREES TO SUBMIT PERFORMANCE SECURITY REQUIRED FOR EXECUTION OF THE CONTRACT WITHIN THE TIME PERIOD MENTIONED. IN CASE OF DELAY IN SUBMISSION OF PERFORMANCE SECURITY, ENHANCED PERFORMANCE SECURITY WHICH WOULD INCLUDE INTEREST (SBI/ RATE + 6%) FOR THE DELAYED PERIOD, SHALL BE SUBMITTED BY THE BIDDER. FURTHER, IF PERFORMANCE SECURITY IS NOT SUBMITTED TILL SUCH TIME THE FIRST BILL BECOMES DUE, THE AMOUNT OF PERFORMANCE SECURITY DUE SHALL BE RECOVERED AS PER TERMS DEFINED IN NIT CONTRACT, FROM THE BILLS ALONG WITH DUE INTEREST"

- 2. FORFEITURE OF PERFORMANCE SECURITY: THE PERFORMANCE SECURITY WILL BE FORFEITED AND CREDITED TO BHEL'S ACCOUNT IN THE EVENT OF A BREACH OF CONTRACT BY THE SUPPLIER.
- 3. **RETURN OF PERFORMANCE SECURITY (PS):** PS SHALL BE REFUNDED TO THE BIDDER 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.

  4. THE PERFORMANCE SECURITY SHALL NOT CARRY ANY INTEREST.

#### BREACH OF CONTRACT, REMEDIES AND TERMINATION:

#### 16.1 BREACH OF CONTRCAT:

THE FOLLOWING SHALL AMOUNT TO BREACH OF CONTRACT:

I. NON-SUPPLY OF MATERIAL/ NON-COMPLETION OF WORK BY THE SUPPLIER/VENDOR WITHIN SCHEDULED DELIVERY/ COMPLETION PERIOD AS PER CONTRACT OR AS EXTENDED FROM TIME TO TIME.

II. THE SUPPLIER/VENDOR FAILS TO PERFORM AS PER THE ACTIVITY SCHEDULE AND THERE ARE SUFFICIENT REASONS EVEN BEFORE EXPIRY OF THE DELIVERY/COMPLETION PERIOD TO JUSTIFY THAT SUPPLIES SHALL BE INORDINATELY DELAYED BEYOND CONTRACTUAL DELIVERY/COMPLETION PERIOD.

III. THE SUPPLIER/VENDOR DELIVERS EQUIPMENT/ MATERIAL NOT OF THE CONTRACTED QUALITY.

IV. THE SUPPLIER/VENDOR FAILS TO REPLACE THE DEFECTIVE EQUIPMENT/ MATERIAL/ COMPONENT AS PER GUARANTEE CLAUSE.

V. WITHDRAWAL FROM OR ABANDONMENT OF THE WORK BY THE SUPPLIER/VENDOR BEFORE COMPLETION AS PER CONTRACT.

VI. ASSIGNMENT, TRANSFER, SUBLETTING OF CONTRACT BY THE SUPPLIER/VENDOR WITHOUT BHEL'S WRITTEN PERMISSION RESULTING IN TERMINATION OF CONTRACT OR PART THEREOF BY BHEL.

VII. NON-COMPLIANCE TO ANY CONTRACTUAL CONDITION OR ANY OTHER DEFAULT ATTRIBUTABLE TO SUPPLIER/VENDOR.

VIII. ANY OTHER REASON(S) ATTRIBUTABLE TO VENDOR TOWARDS FAILURE OF PERFORMANCE OF CONTRACT. IN CASE OF BREACH OF CONTRACT, BHEL SHALL HAVE THE RIGHT TO TERMINATE THE PURCHASE ORDER/CONTRACT EITHER IN WHOLE OR IN PART THEREOF WITHOUT ANY COMPENSATION TO THE SUPPLIER/VENDOR.

IX. ANY OF THE DECLARATIONS FURNISHED BY THE CONTRACTOR AT THE TIME OF BIDDING AND/ OR ENTERING INTO THE CONTRACT FOR SUPPLY ARE FOUND UNTRUTHFUL AND SUCH DECLARATIONS WERE OF A NATURE THAT COULD HAVE RESULTED IN NON-AWARD OF CONTRACT TO THE CONTRACTOR OR COULD EXPOSE BHEL AND/ OR OWNER TO ADVERSE CONSEQUENCES. FINANCIAL OR OTHERWISE.

X. SUPPLIER/VENDOR IS CONVICTED OF ANY OFFENCE INVOLVING CORRUPT BUSINESS PRACTICES, ANTINATIONAL ACTIVITIES OR ANY SUCH OFFENCE THAT COMPROMISES THE BUSINESS ETHICS OF BHEL, IN VIOLATION OF THE INTEGRITY PACT ENTERED INTO WITH BHEL HAS THE POTENTIAL TO HARM THE OVERALL BUSINESS OF BHEL/ OWNER

NOTE- ONCE BHEL CONSIDERS THAT A BREACH OF CONTRACT HAS OCCURRED ON THE PART OF SUPPLIER/VENDOR, BHEL SHALL NOTIFY THE SUPPLIER/VENDOR BY WAY OF NOTICE IN THIS REGARD. CONTRACT WITHIN A PERIOD OF 14 PART.

IN CASE THE CONTRACTOR FAILS TO REMEDY THE BREACH, AS MENTIONED IN THE NOTICE, TO THE SATISFACTION OF BHEL, BHEL SHALL HAVE THE RIGHT TO TAKE RECOURSE TO ANY OF THE REMEDIAL ACTIONS AVAILABLE TO IT UNDER THE RELEVANT PROVISIONS OF CONTRACT

#### 16.2 REMEDIES IN CASE OF BREACH OF CONTRACT.

I.WHEREIN THE PERIOD AS STIPULATED IN THE NOTICE ISSUED UNDER CLAUSE 14.1 HAS EXPIRED AND SUPPLIER/VENDOR HAS FAILED TO REMEDY THE BREACH, BHEL WILL HAVE THE RIGHT TO TERMINATE THE CONTRACT ON THE GROUND OF "BREACH OF CONTRACT" WITHOUT ANY FURTHER NOTICE TO CONTRACTOR.

II. UPON TERMINATION OF CONTRACT, BHEL SHALL BE ENTITLED TO RECOVER AN AMOUNT EQUIVALENT TO 10% OF THE CONTRACT VALUE FOR THE DAMAGES ON ACCOUNT OF BREACH OF CONTRACT COMMITTED BY THE SUPPLIER/VENDOR. THIS AMOUNT SHALL BE RECOVERED BY WAY OF ENCASHING THE SECURITY INSTRUMENTS LIKE PERFORMANCE BANK GUARANTEE ETC AVAILABLE WITH BHEL AGAINST THE SAID CONTRACT. IN CASE THE VALUE OF THE SECURITY INSTRUMENTS AVAILABLE IS LESS THAN 10% OF THE CONTRACT VALUE, THE BALANCE AMOUNT SHALL BE RECOVERED FROM OTHER FINANCIAL REMEDIES (I.E. AVAILABLE BILLS OF THE SUPPLIER/VENDOR, RETENTION AMOUNT, FROM THE MONEY DUE TO THE SUPPLIER/VENDOR ETC. WITH BHEL) OR THE OTHER LEGAL REMEDIES SHALL BE PURSUED

#### GENERAL COMMERCIAL TERMS & CONDITIONS OF ENQUIRY (FOR INDIAN VENDORS)

Amendment- 26

ANNEXURE-A III. WHEREVER THE VALUE OF SECURITY INSTRUMENTS LIKE PERFORMANCE RANK GUARANTEE AVAILABLE WITH RHEL AGAINST THE SAID CONTRACT IS 10% OF THE CONTRACT VALUE OR MORE. SUCH SECURITY INSTRUMENTS TO THE EXTENT OF 10% CONTRACT VALUE WILL BE ENCASHED. IN CASE NO SECURITY INSTRUMENTS ARE AVAILABLE OR THE VALUE OF THE SECURITY INSTRUMENTS AVAILABLE IS LESS THAN 10% OF THE CONTRACT VALUE. THE 10% OF THE CONTRACT VALUE OR THE BALANCE AMOUNT, AS THE CASE MAY BE, WILL BE RECOVERED IN ALL OR ANY OF THE FOLLOWING MANNERS: IV. IN CASE THE AMOUNT RECOVERED UNDER SUB CLAUSE (A) ABOVE IS NOT SUFFICIENT TO FULFIL THE AMOUNT RECOVERABLE THEN; A DEMAND NOTICE TO DEPOSIT THE BALANCE AMOUNT WITHIN 30 DAYS SHALL BE ISSUED TO SUPPLIER/VENDOR. V. IF SUPPLIER/VENDOR FAILS TO DEPOSIT THE BALANCE AMOUNT WITHIN THE PERIOD AS PRESCRIBED IN DEMAND NOTICE, FOLLOWING ACTION SHALL BE TAKEN FOR RECOVERY OF THE BALANCE AMOUNT: A. FROM DUES AVAILABLE IN THE FORM OF BILLS PAYABLE TO DEFAULTED SUPPLIER/VENDOR AGAINST THE SAME CONTRACT. B. IF IT IS NOT POSSIBLE TO RECOVER THE DUES AVAILABLE FROM THE SAME CONTRACT OR DUES ARE INSUFFICIENT TO MEET THE RECOVERABLE AMOUNT. BALANCE AMOUNT SHALL BE RECOVERED FROM ANY MONEY(S) PAYABLE TO SUPPLIER/VENDOR UNDER ANY CONTRACT WITH OTHER UNITS OF BHEL INCLUDING RECOVERY FROM SECURITY DEPOSITS OR ANY OTHER DEPOSIT AVAILABLE IN THE FORM OF SECURITY INSTRUMENTS OF ANY KIND AGAINST SECURITY DEPOSIT OR EMD. C IN-CASE RECOVERIES ARE NOT POSSIBLE WITH ANY OF THE AROVE AVAILABLE OPTIONS, LEGAL ACTION SHALL BE INITIATED FOR RECOVERY AGAINST DEFAULTED. SLIPPLIER/VENDOR VI. IT IS AN AGREED TERM OF CONTRACT THAT THIS AMOUNT SHALL BE A GENUINE PRE-ESTIMATE OF DAMAGES THAT BHEL WOULD INCUR IN COMPLETION OF BALANCE CONTRACTUAL OBLIGATION OF THE CONTRACT THROUGH ANY OTHER AGENCY AND BHEL WILL NOT BE REQUIRED TO FURNISH ANY OTHER EVIDENCE TO THE SUPPLIER/VENDOR FOR THE PURPOSE OF ESTIMATION OF DAMAGES. VII. IN ADDITION TO THE ABOVE, IMPOSITION OF LIQUIDATED DAMAGES, DEBARMENT, TERMINATION, DE-SCOPING, SHORT-CLOSURE, ETC., SHALL BE APPLIED AS PER PROVISIONS OF THE CONTRACT. NOTE: 1) THE DEFAULTING SUPPLIER/VENDOR SHALL NOT BE ELIGIBLE FOR PARTICIPATION IN ANY OF THE FUTURE ENQUIRIES FLOATED BY BHEL TO COMPLETE THE BALANCE WORK. THE DEFAULTING CONTRACTOR SHALL MEAN AND INCLUDE: (A) IN CASE DEFAULTED SUPPLIER/VENDOR IS THE SOLE PROPRIETORSHIP FIRM, ANY SOLE PROPRIETORSHIP FIRM OWNED BY SAME SOLE PROPRIETOR (B) IN CASE DEFAULTED SUPPLIER/VENDOR IS THE PARTNERSHIP FIRM, ANY FIRM COMPRISING OF SAME PARTNERS/ SOME OF THE SAME PARTNERS; OR SOLE PROPRIETORSHIP FIRM OWNED BY ANY PARTNER(S) AS A SOLE PROPRIETOR. NO INTEREST PAYABLE TO CONTRACTOR: NOTWITHSTANDING ANYTHING TO THE CONTRARY CONTAINED IN ANY OTHER DOCUMENT COMPRISING IN THE CONTRACT. NO INTEREST SHALL BE PAYABLE BY BHEL TO CONTRACTOR ON ANY MONEYS OR BALANCES INCLUDING BUT NOT LIMITED TO THE SECURITY DEPOSIT, EMD, RETENTION MONEY, RA BILLS OR THE FINAL BILL, OR ANY AMOUNT WITHHELD AND/OR APPROPRIATED BY BHELETC.. WHICH BECOMES OR AS THE CASE MAY BE, IS ADJUDGED TO BE DUE FROM BHEL TO CONTRACTOR WHETHER UNDER THE CONTRACT OR OTHERWISE **OVER RUN CHARGES:** NO OVERRUN CHARGES ARE APPLICABLE 62. ORDER OF PRECEDENCE: THE PURCHASE ORDER ALONG WITH ITS ANNEXURES THE NIT. ITS AMENDMENTS /CORRIGENDUM'S SHALL ALL TOGETHER CONSTITUTE THE ENTIRE CONTRACT BETWEEN THE PARTIES AND SHALL BE COMPLEMENTARY TO ONE ANOTHER. IN CASE OF ANY CONTRADICTION, THE ORDER OF PRECEDENCE SHALL BE AS BELOW: a. PURCHASE ORDER ALONG WITH ITS ANNEXURES b. AMENDMENTS/CLARIFICATIONS/CORRIGENDA/ERRATA ETC. ISSUED IN RESPECT OF THE TENDER DOCUMENTS BY BHEL. c. NIT OTHER POINTS: YOU SHALL HAVE TO OBSERVE ALL WORK QUALITY. SAFETY REGULATIONS, GENERAL TECHNICAL GUIDE LINES AS STIPULATED IN RELEVANT CLAUSES TENDER SPECIFICATION. YOU SHALL SUBMIT PROGRESS REPORTS TO BHEL AS PER TENDER CONDITIONS, REVIEW THE PROGRAMME FROM TIME TO TIME AND TAKE SUITABLE STEPS TO MEET OVERALL PROJECT SCHEDULE, IN CONSULTATION WITH BHEL/ BIFCL ENGINEER VENDOR SHOULD FOLLOW THE AGREED TENDER TERM (CL. NO. 29.0 OF GTC) STRICTLY: -- "THE OFFERS OF THE BIDDERS WHO ARE ON THE BANNED LIST AS ALSO THE OFFER OF THE BIDDERS, WHO ENGAGE THE SERVICES OF THE BANNED FIRMS, SHALL BE REJECTED. THE LIST OF BANNED FIRMS IS AVAILABLE ON BHEL WEB SITE WWW.BHEL.COM)" ALL OTHER TERMS & CONDITIONS NOT COVERED HERE SHALL BE AS PER THOSE SPECIFIED IN THE TENDER DOCUMENT (NIT) ALONG WITH TCNS INCLUDING TECHNICAL SPECIFICATION, SPECIFIC CONDITIONS OF CONTRACT & GENERAL CONDITIONS OF CONTRACT. YOU ARE REQUESTED TO SEND US THE ACKNOWLEDGEMENT AS PER SPECIFIED FORMAT AND CONVEY YOUR UNQUALIFIED ACCEPTANCE TO THIS PURCHASE ORDER AS PER ENCLOSED ANNEXURE-X WITHIN 7 (SEVEN) DAYS ELSE IT WILL BE DEEMED ACCEPTED. 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 UPTO RS FIVE LAKHS, IN CASE THEY WERE NOT

THE MATERIAL WILL NOT BE ACCEPTED INSIDE BHEL IN ABSENCE OF THE ABOVE

DIGITALLY SIGNED AND LIPLOADED ON THE PORTAL

63.

64

# GENERAL COMMERCIAL TERMS & CONDITIONS OF ENQUIRY (FOR INDIAN VENDORS)

Amendment- 26

ANNEXURE-A

#### GRIEVANCE REDRESSAL MECHANISM:

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.

66

SUPPLIERS/CONTRACTORS ARE REQUESTED TO FOLLOW THE BELOW ESCALATION PROCESS FOR GRIEVANCE RESOLUTION:

I. 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.

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

#### NOTE:

1. PLEASE FILL IN THIS FORMAT AND SEND COMPULSORILY ALONG WITH QUOTATION WITH VENDOR'S SEAL, SIGNATURE AND DATE.

SIGNATURE ALONG WITH SEAL AND DATE:

Umesh Kumar Gupta DGM(Pur.)

Ashok Kr. Srivastava DGM(Fin)

#### Annexure - MSEs 2012 Rev 01

# OWNERSHIP STATUS (SC/ ST OR WOMEN-OWNED OR OTHERS) UNDER MSE (Mandatory for all Non-GeM tenders and custom bids on GeM)

In order to avail benefits of MSE under various categories, all Bidders falling under MSE category shall furnish the following details & submit documentary evidence/ Govt. Certificate 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			

(Bidder details with Sign and date)

<u>Note:</u> In case party is falling under any of the above category, they shall mention  $\underline{YES}$  in the against the box.

#### On Bidder's office letter pad

### Make in India (Model Certificate) Annexure-I

#### **Self-Declaration**

Enquiry No.	
Enquiry Date	

In line with Government public procurement order Number P-45021/2/2017-B.E-II dated 15.06.2017, and further modified order dt. 28.05.2018, 29.05-2019, 04.06.2020 and 19.07.2024.

I / We hereby declare that I / We are a "Local Supplier" meeting the requirement of minimum local content (......%) defined in the above government notification for the goods against above mentioned enquiry Number.

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

Door No.	
Street / Address 1	
Street / Address 2	
District	
State	
Country	
PIN Code	

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

For Company I	Name:
Seal:	
	Signature:
<mark>Date:</mark>	
Place :	
	(Please fill all Yellow color field )