



BHARAT HEAVY ELECTRICALS LIMITED

(A Government of India Undertaking)
HIGH PRESSURE BOILER PLANT
PURCHASE DEPARTMENT - FOSSIL BOILERS
THIRUCHIRAPALLI - 620014
TAMILNADU (INDIA)

PHONE :0431-2577938
GRAMS : BHARATELEC
FAX NO: 0431-2520719
E-mail: tvenkat@bheltry.co.in
Web:

Page
1/4

Enquiry No	Enquiry Date	Due Date for Quotation
2661600483 - 55	08.11.2016	02.12.2016
Please quote Enquiry No, Date and due date in all correspondences. This is only a request for quotation and not an order. Bid should be submitted in two parts. 1.Techno-commercial bid (Part-I) and 2.Price bid(Part-II) in a separate sealed cover and both covers must be placed in a third cover and sealed. Our Enquiry No., Enq. date & Enq. Due date must be written on all three covers.		

Item	Description	Unit	Quantity	Delivery Quantity	Schedule Date
10	7504B1401400 ECCENTRIC SHAFT 3-M-04B14-02688 ECCENTRIC SHAFT AS PER DRG. NO. 3-M-04B14-02688 COMMON NOTE FOR ALL ITEMS: (1) Supplier shall suitably punch / tag / engrave the given drawing no. against each item during supply. (2) Mating components shall be awarded to single supplier for proper matching of components. (3) Items (Wherever applicable) are to be individually packed with zip lock cover. (4) Material test certificate for items as per drawing shall be provided along with the supply. (5) Delivery of the items should be within 60days from the date of release of PO. (6) Vendor may visit BHEL,Trichy before quoting for clarifications if any. VENDOR QUALIFYING CRITERIA: Only those vendors who satisfy the following conditions will get qualified to participate in the tender: (1) Company profile details has to be provided along with offer. (2) Vendor should have minimum 2 year experience in this field. (3) Previous PO details for supplying similar kind of items to BHEL and/or any-other Organization should be submitted along with offer. (Otherwise offer is liable for rejection).	NO	2.000	2.00	21.01.17
20	7512A2001800 SCREW ROD 3-M-12A20-15463 SCREW ROD Tr.30 x 6P X 1292 L AS PER DRG. NO. 3-M-12A20-15463 NOTE: ITEMS SL. NO. 20 AND 30 ARE MATING COMPONENTS. HENCE THESE ITEMS SHOULD BE PROCURED FROM SINGLE SOURCE ONLY.	NO	2.000	2.00	21.01.17
30	7512A2001900 BOX NUT 3-M-12A20-15464	NO	2.000	2.00	21.01.17

The offers should reach us 30 minutes before the time of opening of tenders.
The offers will be opened at 14.30 hrs on the due date of tender in the presence of tenderers who have submitted their offer and who may like to be present for the tender opening.Late and delayed offers are liable to be rejected.

VIGILANCE AWARENESS WEEK

31st OCT to 5th NOV 2016

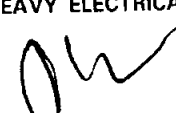
FOR VIGILANCE RELATED COMPLAINTS,

CONTACT DGM/VIGILANCE & SM/VIGILANCE

PHONE:0431-2577552,2577636,2577985

V. CHELLIAH
Sr Manager / Purchase
MM / RM / CP & SP
BHEL, TRICHY 620 014.

Yours faithfully,
For BHARAT HEAVY ELECTRICALS LIMITED


MANAGER / PURCHASE
(FOSSIL BOILERS)
Yours faithfully,

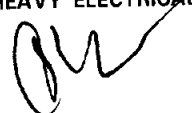


BHARAT HEAVY ELECTRICALS LIMITED

(A Government of India Undertaking)
HIGH PRESSURE BOILER PLANT
PURCHASE DEPARTMENT - FOSSIL BOILERS
THIRUCHIRAPALLI - 620014
TAMILNADU (INDIA)

Page
2/4

PHONE :0431-2577938
GRAMS : BHARATELEC
FAX NO: 0431-2520719
E-mail: tvenkat@bheltry.co.in
Web:

2661600483 / 08.11.2016				23505	
	BOX NUT Tr.30 x 6P x Ø100 x 50L AS PER DRG. NO. 3-M-12A20-15464				
40	7512B4200100	NO	2.000	2.00	21.01.17
	SCREW ROD 2-M-12B42-05093-01 SCREW ROD Tr. 44 x 7P AS PER DRG. NO. 2-M-12B42-05093 REV. 01				
50	7512A3000200	NO	1.000	1.00	21.01.17
	COLLET PAD 3-M-12A30-14997-01 COLLET PAD Ø182 x 127L AS PER DRG. NO. 3-M-12A30-14997 REV. 01				
60	7512B3003800	NO	1.000	1.00	21.01.17
	SPLINED SHAFT 3-M-12B30-9535 SPLINED SHAFT AS PER DRG. NO. 3-M-12B30-9535				
70	7512B4100300	NO	2.000	2.00	21.01.17
	BOX NUT HOUSING 3-M-12B41-15132 BOX NUT HOUSING 75 x 100 x 135 AS PER DRG. NO. 3-M-12B41-15132				
80	7512B4100400	NO	2.000	2.00	21.01.17
	BOX NUT HOUSING 3-M-12B41-15133 BOX NUT HOUSING 90 x 90 x 98L AS PER DRG. NO. 3-M-12B41-15133				
90	7512B4100500	NO	2.000	2.00	21.01.17
	BOX NUT HOUSING 3-M-12B41-15134 BOX NUT HOUSING 64 x 90 x 90 AS PER DRG. NO. 3-M-12B41-15134				
100	7512B4200200	NO	2.000	2.00	21.01.17
	SCREW ROD 3-M-12B42-15135 SCREW ROD Tr. 40 x 5P (R.H) AS PER DRG. NO. 3-M-12B42-15135				
110	7512B1700700	NO	50.000	50.00	21.01.17
	TRUNNION 4-M-12B17/18-10698-01 TRUNNION AS PER DRG.NO. 4-M-12B17/18-10698 REV. 01				
120	7512B1701000	NO	50.000	50.00	21.01.17
	TRUNNION PLATE 4-M-12B17-10701 TRUNNION PLATE AS PER DRG. NO. 4-M-12B17-10701				
130	7512B1700100	NO	10.000	10.00	21.01.17
	ADAPTER PLATE 4-M-12B-17/18-10704 ADAPTER PLATE AS PER DRG. NO. 4-M-12B-17/18-10704				
140	7512B2301100	NO	1.000	1.00	21.01.17
	BOX NUT 4-M-12B23-20102 BOX NUT Tr. 240 X 6 AS PER DRG. NO. 4-M-12B23-20102				
150	7512B4601900	NO	2.000	2.00	21.01.17
	SPIRAL BEVEL GEAR 4-M-12B46-29468-01 SPIRAL BEVEL GEAR 18 T / DIA. 48.32 AS				
The offers should reach us 30 minutes before the time of opening of tenders. The offers will be opened at 14.30 hrs on the due date of tender in the presence of tenderers who have submitted their offer and who may like to be present for the tender opening.Late and delayed offers are liable to be rejected. VIGILANCE AWARENESS WEEK 31st OCT to 5th NOV 2016 FOR VIGILANCE RELATED COMPLAINTS, CONTACT DGM/VIGILANCE & SM/VIGILANCE PHONE:0431-2577552,2577636,2577985					
				Yours faithfully, For BHARAT HEAVY ELECTRICALS LIMITED  MANAGER / PURCHASE (FOSSIL BOILERS) Yours faithfully,	



BHARAT HEAVY ELECTRICALS LIMITED

(A Government of India Undertaking)
HIGH PRESSURE BOILER PLANT
PURCHASE DEPARTMENT - FOSSIL BOILERS
THIRUCHIRAPALLI - 620014
TAMILNADU (INDIA)

PHONE :0431-2577938
GRAMS : BHARATELEC
FAX NO: 0431-2520719
E-mail: tvenkat@bheltry.co.in
Web:

Page
3/4

2661600483 / 08.11.2016

23505

PER DRG. NO. 4-M-12B46-29468 REV.
01

NOTE: ITEMS SL. NO. 150 AND 160 ARE
MATING COMPONENTS. HENCE THESE ITEMS
SHOULD BE PROCURED FROM SINGLE SOURCE
ONLY.

160	7512B4602000	NO	2.000	2.00	21.01.17
SPIRAL BEVEL GEAR					
4-M-12B46-29632					
SPIRAL BEVEL GEAR 16T / DIA. 44 AS PER					
DRG. NO. 4-M-12B46-29632					

General Note:

GENERAL NOTE:PLEASE SUBMIT YOUR OFFER IN "TWO PART BID SYSTEM" AS PER
THE ANNEXURES ENCLOSED.

ENCLOSURES:ANNEXURE II,III,IV,V,VI,VII.

All the tenders may be addressed to the following address:

The Tender Opening Cell / MM
Room No: 26, Building 24, Ground Floor
Bharat Heavy Electricals Limited
TIRUCHIRAPALLI 620014

In case personal delivery of the offer, it shall be dropped into the respective box kept in Room No: 26, after
duly entering the data in the system.

Offers will be accepted only up to 14.00 Hrs on the due date. Therefore, vendors shall ensure to submit
the offers well before this time. All due date extension requirements should be addressed to the respective
Purchase mail IDs. All the due date extension requests from vendors will be considered only up to 48 hours
before the due date and time.

Vendors are requested to avoid submission of offers through e mail / fax. In case of any unavoidable
situation, offers shall be sent through e mail to the following mail ID only
tender_cell@bheltry.co.in.

As tenders are being opened by Common Tender Opening Cell, offer covers should be sealed with
tenderer's distinctive seal and super scribed with correct Tender No. item of supply and due date of opening.

The offers will be opened at 14.30 hrs on the due date of the tender in the presence of tenderers who
have submitted their offer and who may like to be present for the tender opening. Late and delayed offers
are liable to be rejected.

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
<http://www.bhel.com> and shall immediately bring to the notice of BHEL management about any fraud or
suspected fraud as soon as it comes to their notice.

The offers should reach us 30 minutes before the time of opening of tenders.
The offers will be opened at 14.30 hrs on the due date of tender in the presence of
tenderers who have submitted their offer and who may like to be present for the tender
opening.Late and delayed offers are liable to be rejected.

VIGILANCE AWARENESS WEEK

31st OCT to 5th NOV 2016

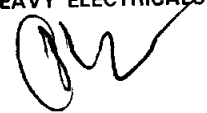
FOR VIGILANCE RELATED COMPLAINTS

CONTACT DGM/VIGILANCE & SM/VIGILANCE

PHONE:0431-2577552,2577636,2577985

V. CHELLIAH
Sr Manager / Purchase
MM / RM / CP & SP
BHEL, TRICHY - 620 014.

Yours faithfully,
For BHARAT HEAVY ELECTRICALS LIMITED


MANAGER / PURCHASE
(FOSSIL BOILERS)
Yours faithfully,



BHARAT HEAVY ELECTRICALS LIMITED

(A Government of India Undertaking)
HIGH PRESSURE BOILER PLANT
PURCHASE DEPARTMENT - FOSSIL BOILERS
THIRUCHIRAPALLI - 620014
TAMILNADU (INDIA)

PHONE :0431-2577938
GRAMS : BHARATELEC
FAX NO: 0431-2520719
E-mail: tvenkat@bheltry.co.in
Web:

Page
4/4

2661600483 / 08.11.2016

23505

The supplier shall submit EI/EII forms to BHEL time to time as indicated by the BHEL and in case of inordinate delay in issuing EI/EII forms, then BHEL reserves the right to deduct 5% of the value of the supplied items against which EI/EII forms pending to be issued

Enclosures:

"LD clause has to be confirmed without fail."

The offers should reach us 30 minutes before the time of opening of tenders.
The offers will be opened at 14.30 hrs on the due date of tender in the presence of tenderers who have submitted their offer and who may like to be present for the tender opening. Late and delayed offers are liable to be rejected.

VIGILANCE AWARENESS WEEK

31st OCT to 5th NOV 2016

FOR VIGILANCE RELATED COMPLAINTS,

CONTACT DGM/VIGILANCE & SM/VIGILANCE

PHONE:0431-2577552,2577636,2577985

Yours faithfully,
For BHARAT HEAVY ELECTRICALS LIMITED

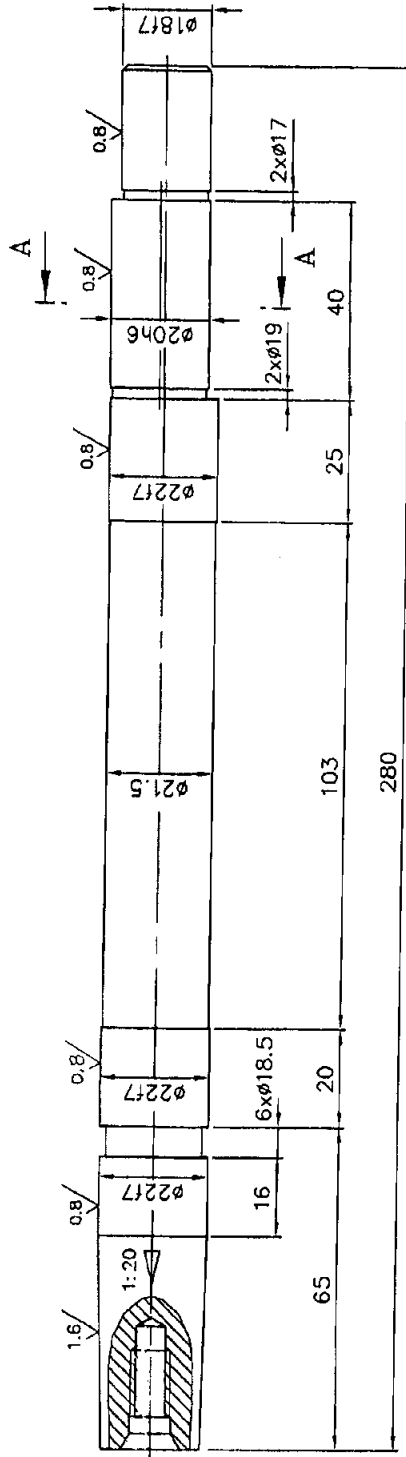
V. CHELLIAH
Sr Manager / Purchase
MM / RM / CP & SP
BHEL, TRICHY - 620 014.

MANAGER / PURCHASE
(FOSSIL BOILERS)
Yours faithfully,

ALL DIMENSIONS ARE IN MM

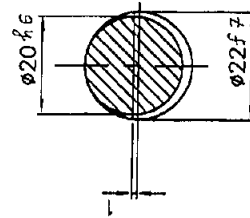
CAUTION: THIS DRAWING IS OUR SOLE PROPERTY AND SHOULD NOT BE USED IN ANY FORM FOR ANY PURPOSE WITHOUT THE WRITTEN PERMISSION OF BHARAT HEAVY ELECTRICALS LIMITED TRICHY/APPALLY - 680 014.

0187	-0.016	6.3/1.6/0.8/
0227	-0.034	
020h6	-0.020	
	-0.041	
	-0.000	
	-0.013	

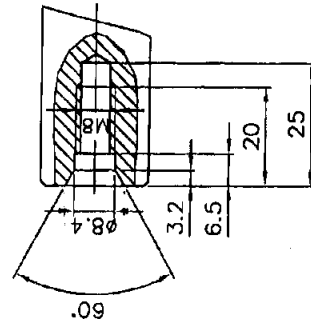


CHAMFER SHARP CORNERS TO 1/45°

HARDENED TO HRC 40± 2



SEC-AA



ITEM NO.	DRAWING NO.	ISSUE NO.	DATE	DATE	DATE
14	14	14	14	14	14
COMPONENT CODE: 01	EQUIPMENT CODE: 14	DCN REF	DATE	SIGN	INDEX
ALTERATIONS					
SCALE DRAWN/TCO: G.G.R./	CHECKED: R. Ramamurthy	APPROVED: S. S. S.	DATE: 3/11/70-7/1/02		
1:1					
MACHINE RADIAL DRILLING			TYPE RM 65		
TITLE: ECCENTRIC SHAFT (DRILL HEAD CLAMPING)			DRAWING No: 3-M-04B-02688		
REV. 14			REV. 14		

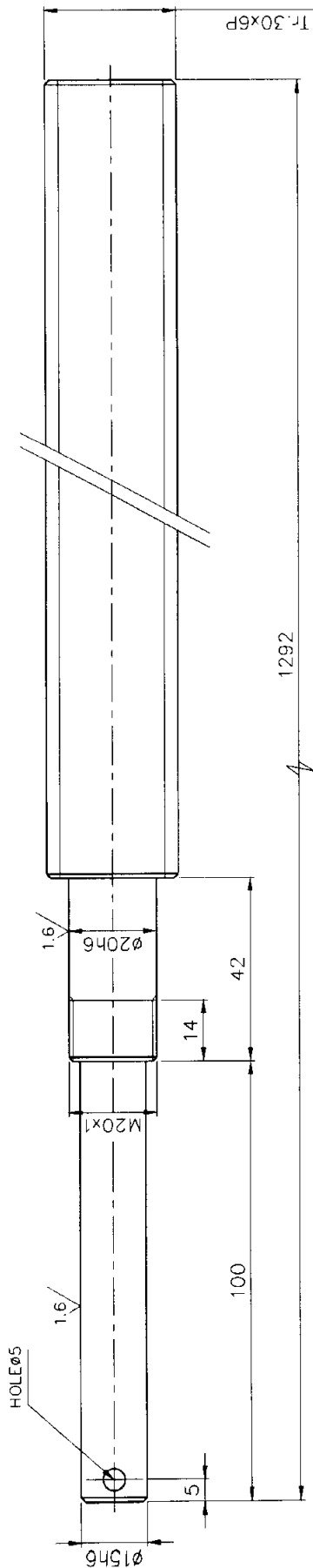
3-M-12A20-15463

DRAWING NO

ALL DIMENSIONS ARE IN MILLIMETRES

$\phi 15h6$	-0.000 -0.011	$\phi 20h6$	-0.000 -0.013
-------------	------------------	-------------	------------------

3.2 / 1.6 / 1.6

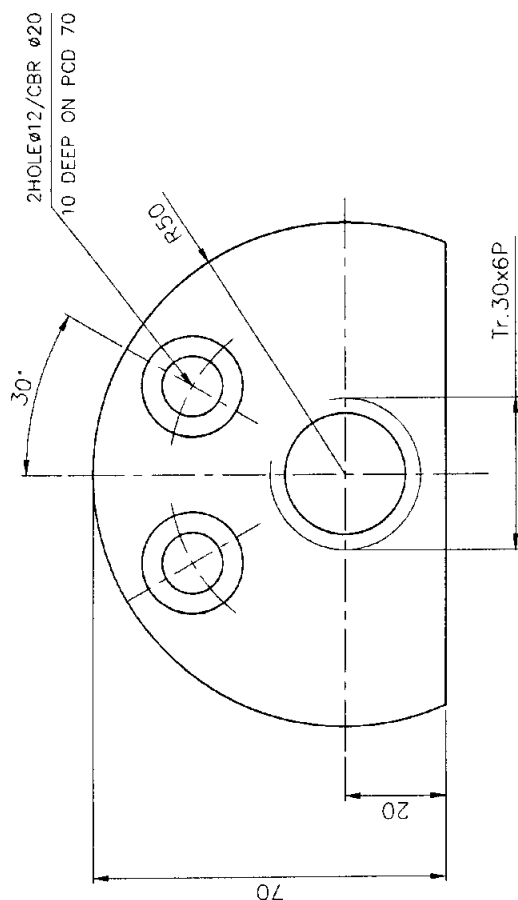


MATING BOX NUT DRG.No. : 3-M-12A20-15464

CAUTION: 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.		ITEM NO		DESCRIPTION		DRAWING NO		IS 5517		6.73	
EQUIP: CNC TUBE BENDING M/C / HERBER CNC 127		ITEM NO		DESCRIPTION		DRAWING NO		55C8		UNIT WT	
Bharat Heavy Electricals Ltd HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI - 620014		ITEM NO		DESCRIPTION		DRAWING NO		MATL SPEC		QTY	
DEPT		MKS		GRADE OF UNTO. DM		SCALE		WEIGHT (Kg)		ITEM	
CODE		2587		$\phi / M / f$ 15.202		1:1		6.73		REF TO ASSY DWG NO	
REV		DATE		ALTERED		CHECKED		APPROVED		ZONE	
TITLE		SCREW ROD Tr.30x6Px1292L		(CARRIAGE UNIT)		DRAWING NO :		3-M-12A20-15463		REV	
CARD CODE		U 01		REV		00		A3-SIZE			

3.2/1.6 ✓

3-M-12A20-15464



MATING SCREW ROD DRG.No. : 3-M-12A20-15463

CAUTION: 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.					
-	ø100 x 50L		-	IS 28	-
ITEM NO	DESCRIPTION	DRAWING NO	PcSn7	MATL CODE	UNIT WGT
EQPT:	CNC TUBE BENDING M/C. / HERBER CNC 127		MATL SPEC	QTY	
	Bharat Heavy Electricals Ltd HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI - 620014	DRN C.D APPD	SIGNATURE <i>G. Govindaraj</i> <i>R. Ramamoorthy</i> <i>G. Thiagarajan</i>	DATE 24/06/15 24/06/15 24/06/15	ITEM
DEPT	GRADE OF UNTOL DIM $\phi \sqrt{M}/\sqrt{t}$ IS 2102	SCALE 1 : 1	WEIGHT (Kg)	REF TO ASSY DWG NO	
MKS CODE	2597			REF TO OLD DWG NO	
TITLE	BOX NUT Tr.30x6PxØ100x50L (CARRIAGE UNIT)		DRAWING NO :	REV	00
			3-M-12A20-15464		
A3-SIZE					

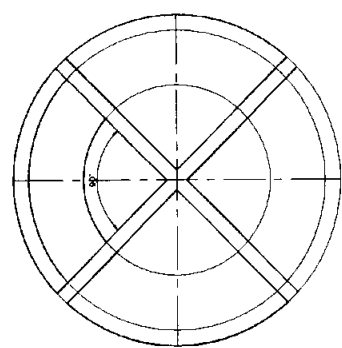
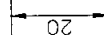
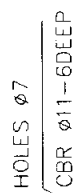
NOTE: -

01. REFER BOX NUT DRG.NO.- 3M12B4215193
+2

02. HARDENED TO HRC 35

03. SHARP CORNERS TO BE REMOVED

CAUTION: THIS DRAWING IS OUR SOLE PROPERTY AND SHOULD NOT BE USED IN ANY FORM FOR ANY PURPOSE WITHOUT THE WRITTEN PERMISSION OF BHARAT HEAVY ELECTRICALS LIMITED. [RECHAPPALL] - 620 014



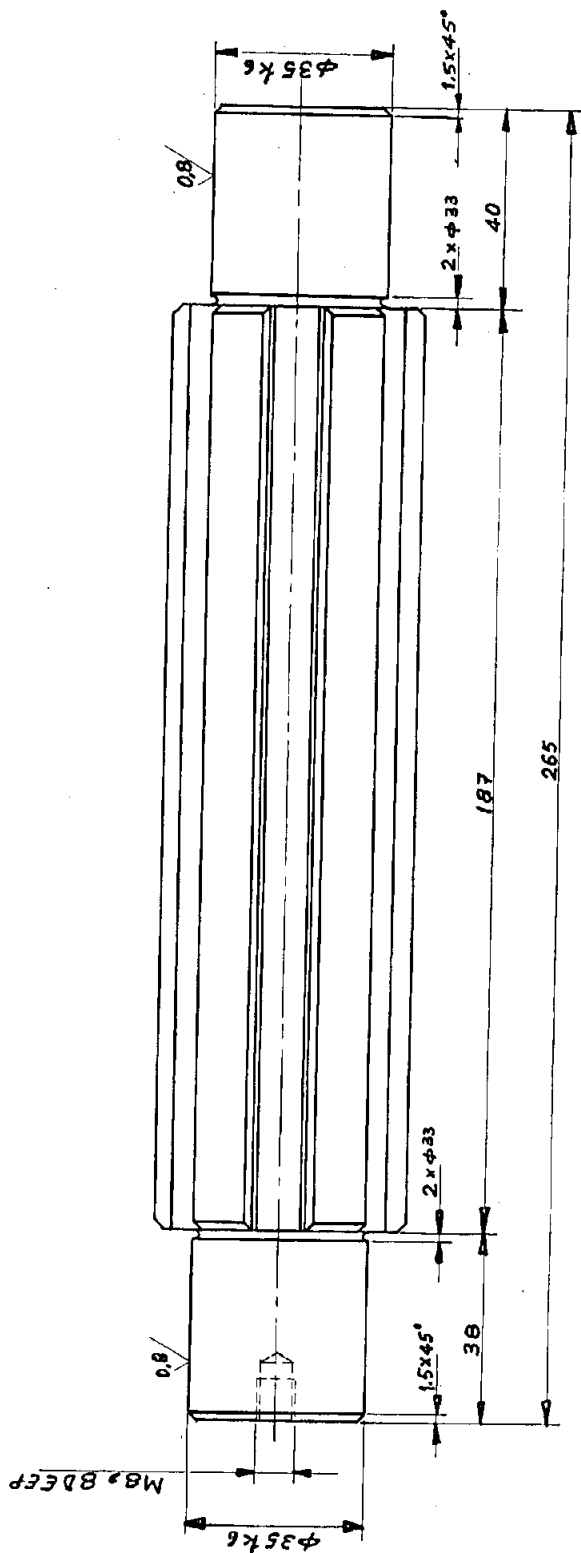
NOTE:
CHAMFER CORNERS FOR 1x45°

	ϕ 182x127L		EN48A		BS: 970	4.68		
NO OF PIECES	DESCRIPTION		MATERIAL	STANDARD	NET.WT.IN KGS.	DRAWING NO.	JERK NO.	
	REFERENCE: —			ALTERATIONS:	DCN REF	DATE	SIGN.	INDEX
SCALE		G.Govindaraj	M/C CODE	30 WAS 25		27.07.13	KR	O1
		CND R.Ramamoorthy						
		APPD K.Ramanan						
		DATE 05-11-12						
	1:1							
MACHINE: TUBE BENDING			TYPE: HERBER 127					
TITLE: COLLET PAD ϕ 182x127L (SPINDLE ASSY.)			DRAWING No:					
			3M12A301		4997		O1	No of Sheets

THIS DRAWING IS OUR SOLE PROPERTY AND
SHOULD NOT BE USED IN ANY FORM FOR ANY
OTHER PURPOSE WITHOUT THE WRITTEN PER-
MISSION OF BHARAT HEAVY ELECTRICALS LTD.,
TRICHY/IMPALLI - 620 014.

3,2 1,6 0,8

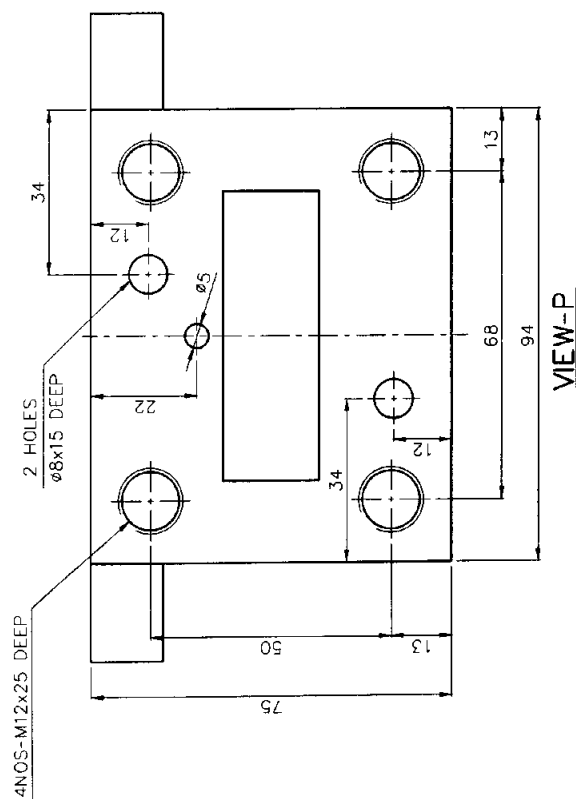
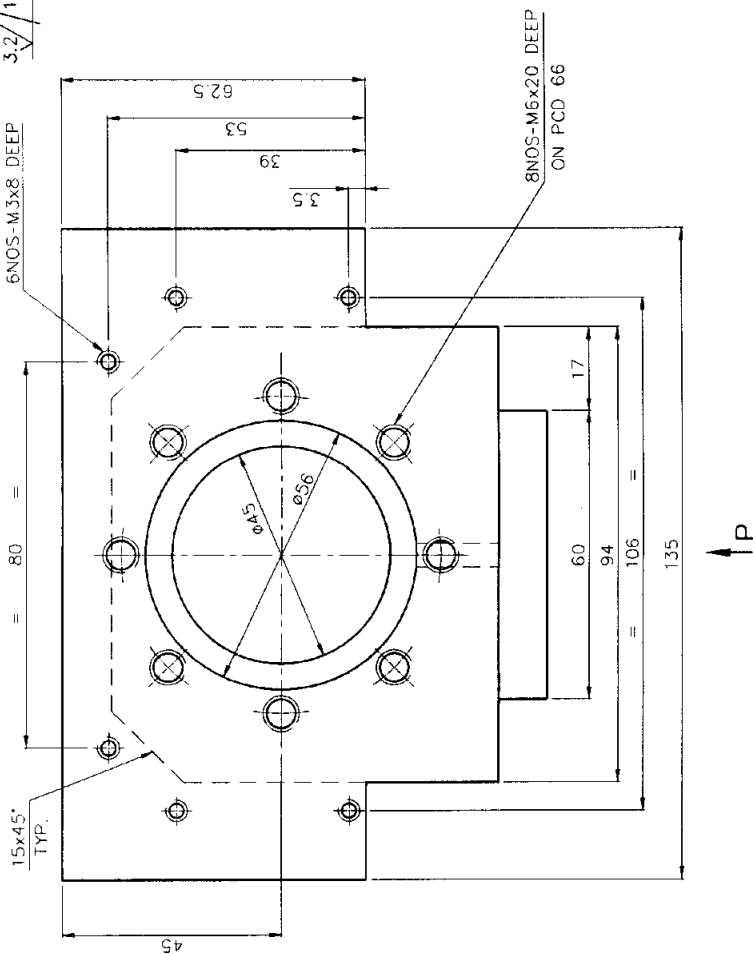
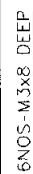
45 j6	+0,011	35k6	+0,018
	-0,005	50 a 11	+0,002
			-0,320
			-0,480
		12k6	-0,000
			-0,011



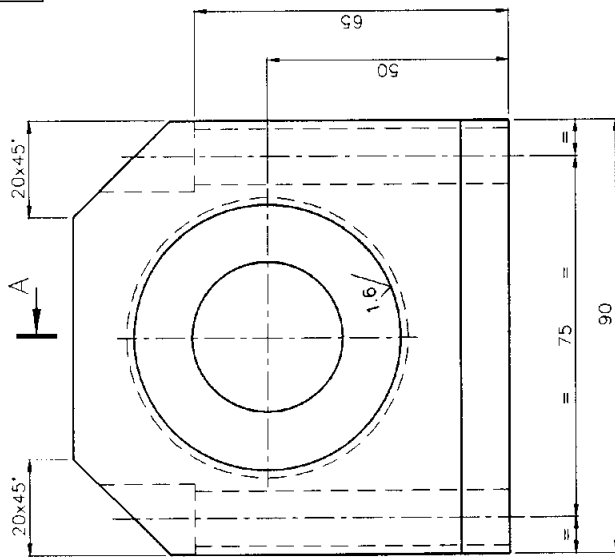
CASE HARDENED TO HRC 60±2
CASE DEPTH 0,8 MM

[illegible]

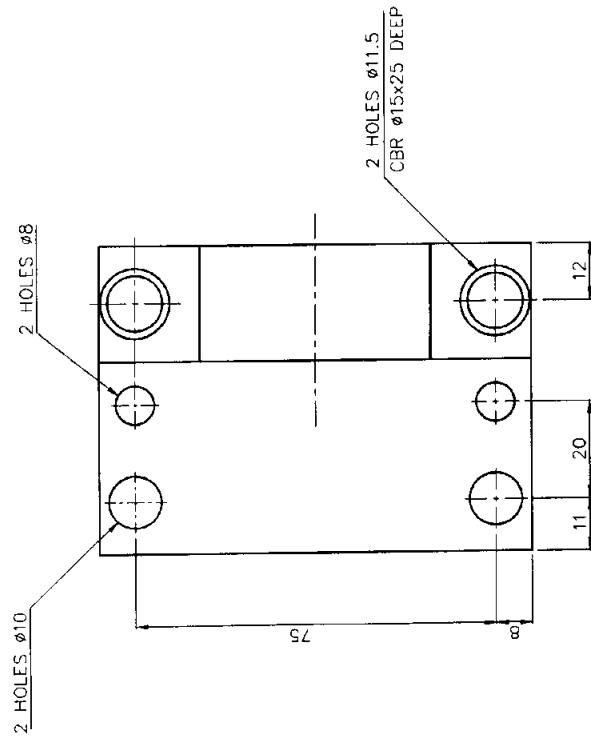
CAUTION: THIS DRAWING IS OUR SOLE PROPERTY AND SHOULD NOT BE USED IN ANY FORM FOR ANY PURPOSE WITHOUT THE WRITTEN PERMISSION OF BHARAT HEAVY ELECTRICALS LIMITED

[illegible]

ALL DIMENSIONS ARE IN mm

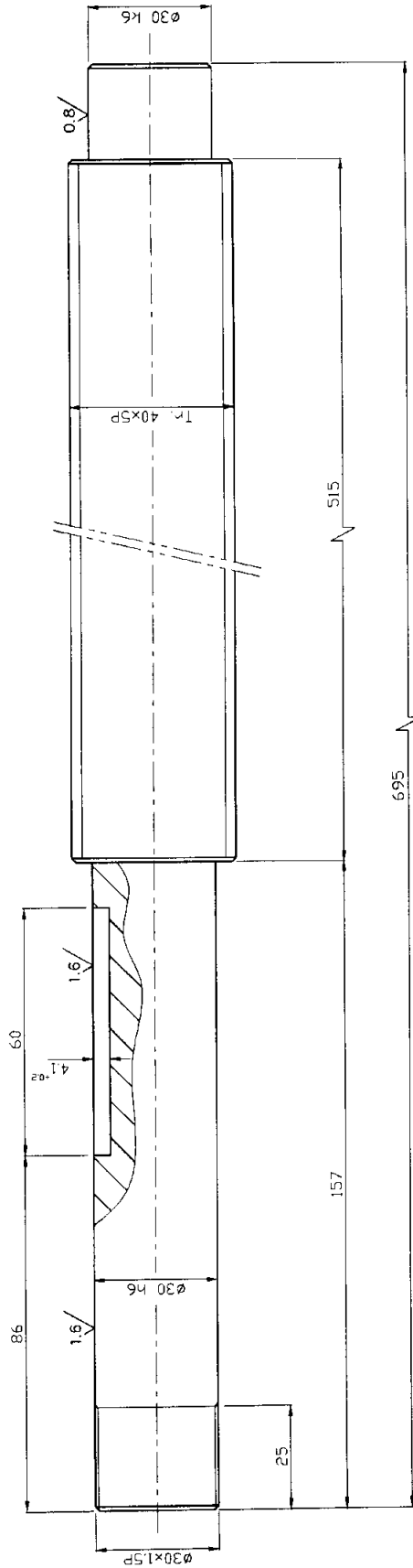


Ø55 H7	+0.030
	+0.000

$$\frac{3.2}{1.6} = 0.8$$
[illegible]

ALL DIMENSIONS ARE IN MM

CAUTION: THIS DRAWING IS OUR SOLE PROPERTY AND SHOULD NOT BE USED IN ANY FORM FOR ANY PURPOSE WITHOUT THE WRITTEN PERMISSION OF BHARAT HEAVY ELECTRICALS LIMITED
TRENCHIRAPPALLI - 620 014



NOTE:

1. HARDENED TO HRC 35 ± 0.2
2. AVOID SHARP CORNERS

$\phi 30$ h6	-0.000 -0.013	$\phi 30$ k6	+0.015 +0.002	B P9	-0.015 -0.051
--------------	------------------	--------------	------------------	------	------------------

3.2/1.6/0.8/

QTY.	$\phi 40 \times 695L$	IS: 5517	SS C8	6.85	NET WT. IN KGS.	DRAWING NO.	ITEM NO.
REFERENCE:	DESCRIPTION	MATERIAL	ALTERATIONS:	CON REF	DATE	SIGN	INDEX
SCALE	DRN	C. Ponnusamy					
1:1	CHD.	G. Govindaraj					
	APPD.	K. Ramanathan					
	DATE	08/06/2013					
MACHINE: PIPE CHAMFERING M/C				TYPE: TUBMATIC 800 CNC - SAFOP			
TITLE:				DRAWING NO.			
SCREW ROD Tr 40xSP (RH)				3M12B4215135			
(TOOL POST STUDER ASSY.)				Sheet No.			
				No. of Sheets			
				REV. V.			

THIS DRAWING IS OUR SOLE PROPERTY AND SHOULD NOT BE USED IN ANY FORM FOR ANY PURPOSE WITHOUT THE WRITTEN PERMISSION OF BHARAT HEAVY ELECTRICALS LIMITED TRICHIRAPPALLI - 620 014.

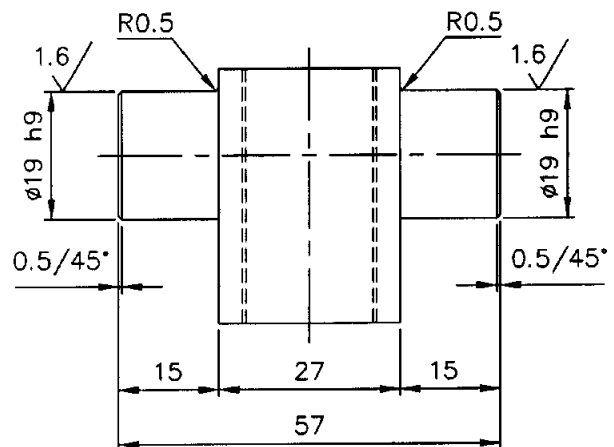
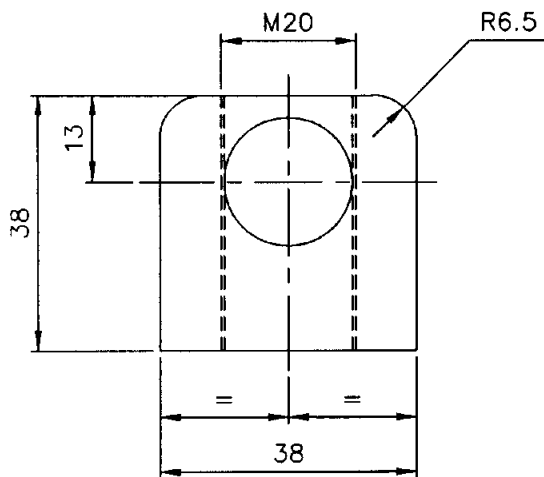
CAUTION:

ALL DIMENSIONS ARE IN MM

Ø19 h9

-0.000
-0.052

3.2/1.6/



NOTE: -

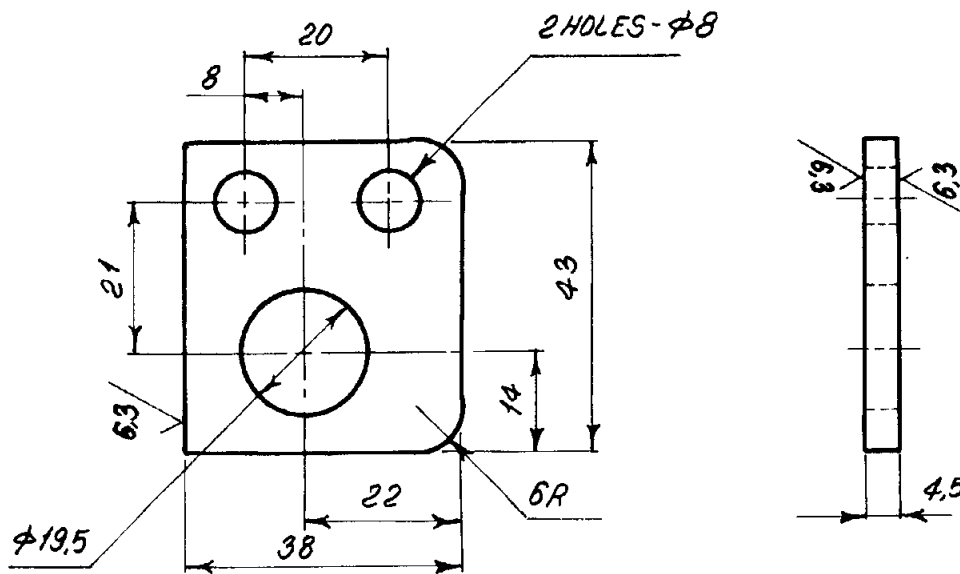
01. HARDENED TO HRc 58^{±2}
02. CASE DEPTH 0.8mm

		13Ni13Cr3 ^①	IS: 4432	0.35	1M12B1801695	08
					1M12B1700671	16
No. of Pieces	DESCRIPTION	MATERIAL	STANDARD	NET.WT.IN KGS.	DRAWING No.	ITEM No.
1	REFERENCE: DRG. No. SC-8000-004 ITEM. No.01		ALTERATIONS:	DCN REF	DATE	SIGN.
SCALE	DRAWN/TC'D	13Ni13Cr3 WAS BM-C30			01.04.13	K.R
1:2	CHECKED	G.GOVINDARAJ				
	APPROVED	K.RAMANAN				
	DATE	29.11.73/01.04.13				
MACHINE: PORTABLE END CUT SCARFING		TYPE: FBE 38/76				
TITLE: TRUNNION		DRAWING No: 17		REV.		
		4M12B181069801				
		No. of Sheets:		Sheet No:		

CAUTION

THIS DRAWING IS OUR SOLE PROPERTY
AND SHOULD NOT BE USED IN ANY FORM
FOR ANY OTHER PURPOSE WITHOUT THE
WRITTEN PERMISSION OF
BHARAT HEAVY ELECTRICALS LTD.,
TIRUCHIRAPALLI-14.

2/6.3



								1-M-126-1695 11	
		BM-C20		FE 410WA IS: 2062		Q.01		1-M-126-0671 17	
NO. OF PIECES	DESCRIPTION	SEMI-PRODUCT	FINAL MATERIAL	INITIAL MATERIAL	SCRAP SORT	NET Wt(kg)	GROSS Wt(kg)	DRAWING NO.	ITEM NO.
REMARKS				TOTAL NET Wt (kg) 22.00 EC: 17					
SCALE	DRAWN BY	REFERENCE		ALTERATIONS		DATE		SIGNA- TURE	INDEX
1:1	CHECKED BY	DRG. NO							
	APPROVED BY	SC-8000- 004							
	DATE	ITEM NO. 4							
		MACHINE PORTABLE END CUT SCARFING			TYPE: FBE 38/96				
		TITLE:			DRAWING NO.				
		TRUNNION PLATE			4-M-12B-10701 ¹⁷				
					NO. OF SHEETS:				
					SHEET NO:				



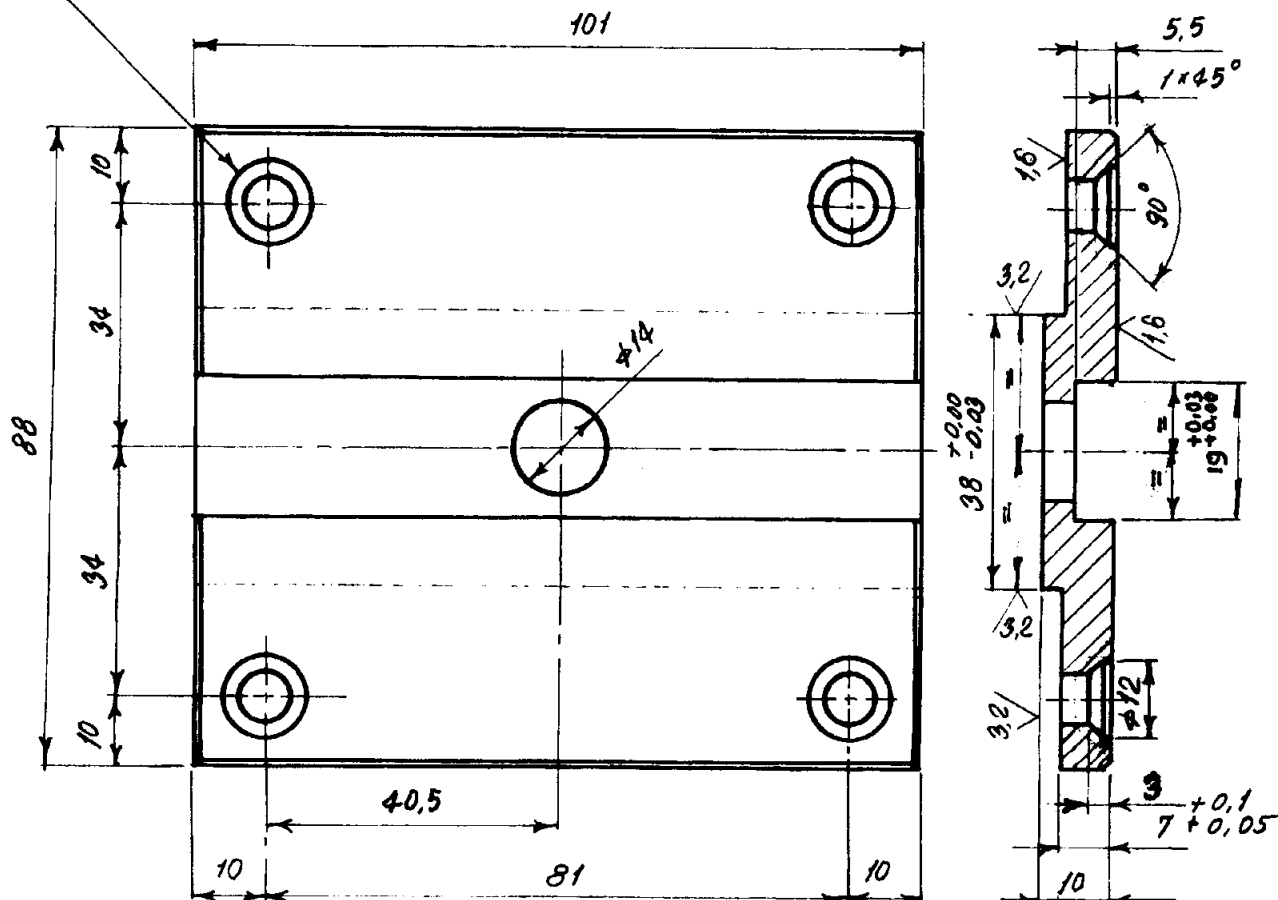
TIRUCHY

CAUTION

THIS DRAWING IS OUR SOLE PROPERTY
AND SHOULD NOT BE USED IN ANY FORM
FOR ANYOTHER PURPOSE WITHOUT THE
WRITTEN PERMISSION OF
BHARAT HEAVY ELECTRICALS LTD.,
TIRUCHIRAPALLI-14.

6.3/ 3.2, 1.6/

4 DRILL ϕ 6.8 - CSK ϕ 12



HARDEN TO HRC. 50 ± 2

NO OF PIECES		DESCRIPTION		SEMI-PRODUCT	FINAL MATERIAL	INITIAL MATERIAL	SCRAP SORT	NET Wt(kg)	GROSS Wt(kg)	DRAWING NO.	ITEM NO.
					BM-CQ55	55 CB IS: 5514		Q48		1-M-12b-0671	21
REMARKS						TOTAL NET Wt (kg)					
SCALE	DRAWN BY	K. Nataraj		REFERENCE	EC:17						
1:1	CHECKED BY	K. Ramesh		DRG. NO							
	APPROVED BY			SC-8000-							
	STDS. OFFICER			006							
	DATE	29-11-73		ITEM NO.2							
MACHINE PORTABLE END CUT SCARFING						TYPE: FBE 38/76					
TITLE:						DRAWING NO.					
ADAPTER PLATE						17&18 4-M-12B-10704					
NO. OF SHEETS:						SHEET NO:					



TIRUCHY

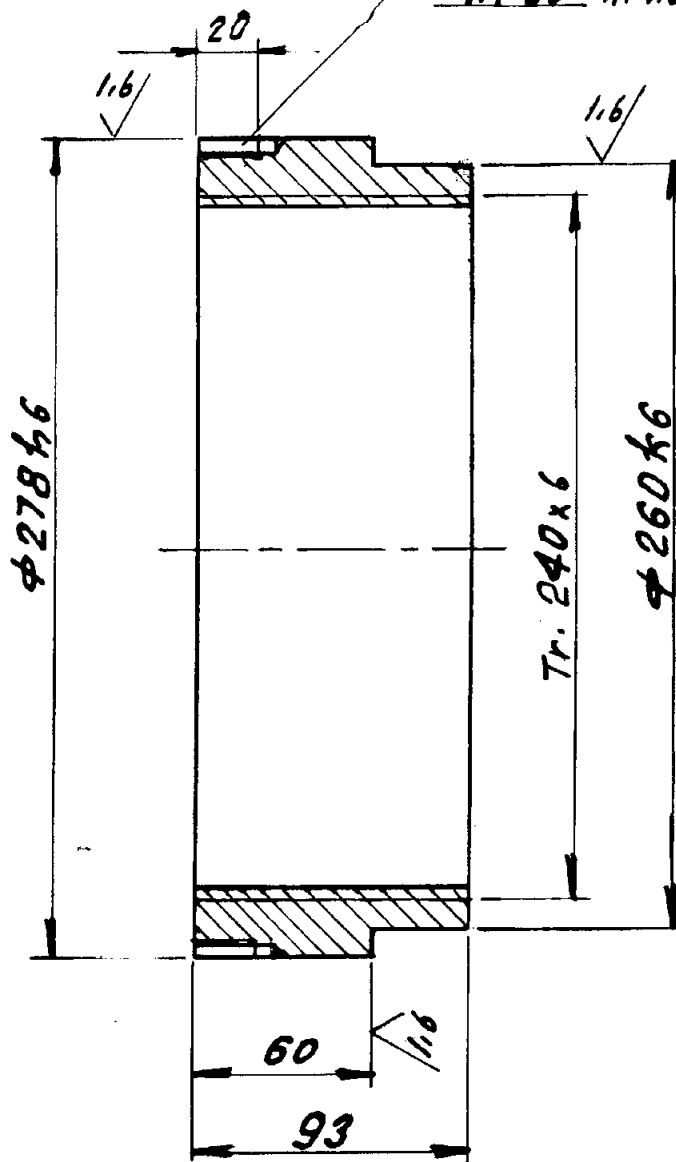
CAUTION

THIS DRAWING IS OUR SOLE PROPERTY AND SHOULD NOT BE USED IN ANY FORM FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN PERMISSION OF
BHARAT HEAVY ELECTRICALS LTD.,
TIRUCHIRAPALLI-14

3.2 / 1.6 /

6- M12 HOLES
AT 60° AT ASSY.

$\phi 260 \pm 0.035$	$+0.004$
$\phi 278 \pm 0.000$	-0.032



NO. OF PIECES		DESCRIPTION		SEMI-PRODUCT	FINAL MATERIAL	INITIAL MATERIAL	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING NO.	ITEM NO.
					PCUSN7 IS:28			13.3			
REMARKS											
SCALE	DRAWN	CHECKED		APPROVED		STDS. OFFICER		DATE		TOTAL NET WT (kg) CC: 24 EC: 23	
1:5		K. U. B. Sanyal		S. Shanmuganathan		Handwritten		22-11-80			
MACHINE		PIPE CHAMFERING		TYPE: TUB MATIC 800		INV. NO.		DRAWING NO.		23	
TITLE:		BOX NUT		TY. 240x6		4-M-12B-20102		NO. OF SHEETS		SHEET NO.	
(STEADY REST UNIT)											

CAUTION: THIS DRAWING IS OUR SOLE PROPERTY AND SHOULD NOT BE USED IN ANY FORM FOR ANY PURPOSE WITHOUT THE WRITTEN PERMISSION OF BHARAT HEAVY ELECTRICALS LIMITED TRICHIRAPPALLI - 620 014.

ALL DIMENSIONS ARE IN MM

6 P9

-0.012

-0.042

Ø18 H7

+0.021

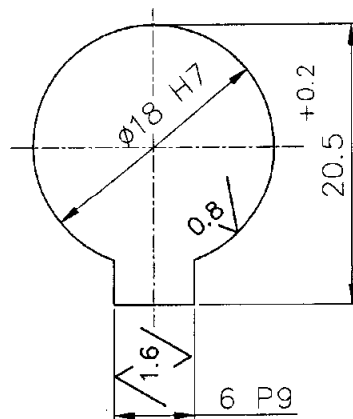
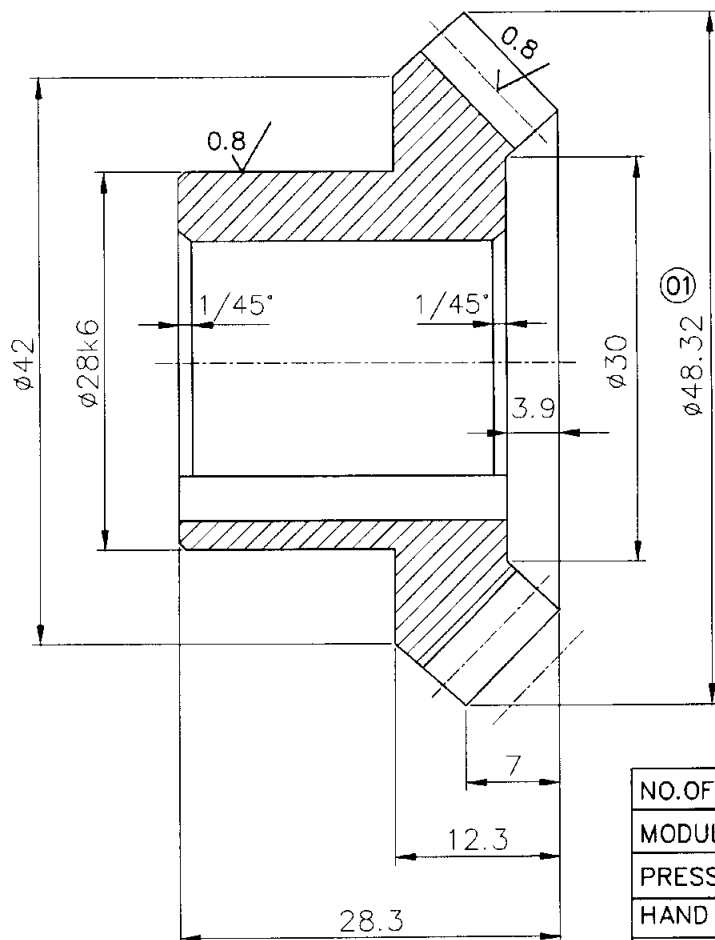
+0.000

Ø28 k6

+0.011

+0.002

3.2/1.6/0.8/



NOTE: -

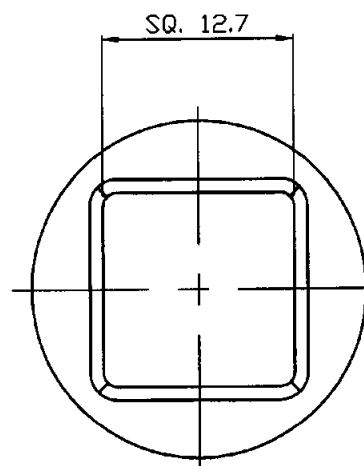
1. CASE HARDENED TO HRc 55 ± 2 ①
2. CASE DEPTH 0.8mm ①
3. AVOID SHARP CORNERS

NO.OF TEETH	18
MODULE	2.5
PRESSURE ANGLE	20°
HAND OF SPIRAL ANGLE	R.H
SPIRAL ANGLE	35°
MATING GEAR NO.OF TEETH	16 ①
MATING DRAWING NO:	4M12B4629632
SHAFT ANGLE	90
SPIRAL BEVEL GEAR TYPE	KLINKELNBERG (CONSTANT) TOOTH DEPTH

Ø49x29L.		EN 353	0.2			
No. of Pieces	DESCRIPTION		MATERIAL	STANDARD	NET.WT.IN KGS.	DRAWING No.
REFERENCE:			ALTERATIONS:		DCN REF	DATE
SCALE			P. ALBET ROSS		23.02.13	
2:1			CHD. R. RAMAMOORTHY		K.R	
APP. C.S. JAYASHEELAN			DATE 27-07-12			
MACHINE: PNEUMATICALLY OPERATED TUBE CHAMFERING			TYPE: E-BUKER/BFMI			
TITLE: SPIRAL BEVEL GEAR 18T/Ø48.32 (MASTER BEVELLER ASSY.)			DRAWING No:		REV.	
			4M12B4629632		01	
			Sheet No:		No. of Sheets:	

CAUTION:

6.3/ 0.8/



NOTE:

1. ALL DIMENSIONS ARE IN mm
2. CASE HARDENED TO HRc 55 ± 2
3. CASE DEPTH 0.8mm -----
4. AVOID SHARP CORNERS

		ø44x42L		EN 353		-		0.2			
No. of Pieces		DESCRIPTION		MATERIAL		STANDARD		NET.WT.IN KGS.		DRAWING No.	
		REFERENCE:				ALTERATIONS:		DCN REF		DATE	
SCALE		DRN.		C.PONNUSAMY							
		CHD.		G.GOVINDARAJ							
2:1		APP.		K.RAMANAN							
		DATE		23.02.13							
		MACHINE: PNEUMATICALLY OPERATED TUBE CHAMFERING				TYPE: E-BUKER/BFMI					
		TITLE:				DRAWING No:				REV.	
		SPIRAL BEVEL GEAR 16T/ø44 (MASTER BEVELLER ASSY.)				4 M 1 2 B 4 6 2 9 6 3 2					
						Sheet No:				No. of Sheets:	

CAPITAL PURCHASE
COMMERCIAL TERMS AND CONDITIONS

1.0 QUOTATIONS

The Bidders shall submit the offer in **TWO INNER ENVELOPES** as indicated below which shall be sealed in one outer envelope.

Envelope I This sealed envelope should contain all the copies of technical bid together with un-priced commercial bid & annexure III. This envelope should be clearly marked **'Part I - Technical and commercial bid'**,

Indicating Enquiry No., Due Date and Address & Reference of the Bidder.

Envelope II This sealed envelope should contain **price as per Annexure-IV format**. This envelope should be clearly marked **"Part II - Price bid"**, indicating **Enquiry No., Due Date and Address & Reference of the Bidder**.

Both the envelopes (Part I & II) shall be put in one cover (**Envelope III**), duly sealed, superscribing as Part I and Part II of Enquiry No., due date of opening and the address and reference of the Bidder

The above offer should reach this office on or before the due date by 14.00 hours (IST). Late offers will not be considered.

Tender should not be addressed to any individual's name

The Tender Opening Cell/MM
Room No-26 , Building – 24 , Ground Floor
Bharat Heavy Electrical Limited
Tiruchirapalli- 620014 .

Tenders should be free from **CORRECTION AND ERASURES**, Corrections if any, must be attested. All Amounts shall be indicated both in words as well as in figures. Where there is difference between amount quoted in words and figures, amount quoted in words shall prevail.

Offers should be in **ENGLISH** and accompanied by detailed technical literature, catalogue and detailed dimensional drawings in **ENGLISH** or otherwise, the offers will not be considered.

2.0 OPENING OF TENDERS

The Part I - Technical & commercial bid alone would be opened on the Tender opening date.

The Part II - Price bid of technically suitable Bidders alone would be opened. The Technically Suitable Bidders would be informed about the tender opening date through e-mail.

Clarifications if any required by BHEL for Technical evaluation **would be** sought from Bidders before opening of Part II - price bid

For any queries clarifications the bidders may contact us through our FAX NO. +91 431 2520719 or through e-mail <arunachal@bheltry.co.in >&< chells@bheltry.co.in>

MM: CP & SP

Annexure For Techno Commercial Bid

Check List - to be filled and submitted along with Technical Bid

BHEL Commercial Terms and Conditions for Indigenous Supplies	Vendor's Confirmation / Comments
Technical confirmation to BHEL's Specification as called for in BHEL Format shall be furnished. If needed additional sheets shall be used.	
Prices shall be quoted item wise only as per the model format enclosed	
Prices shall be quoted on " FIRM PRICE " basis only The prices should be only on F.O.R / Despatching station basis with Packing & Forwarding charges if any. Applicable % of ED & Sales Tax, Freight & Insurance, Installation & Commissioning Charges should be clearly Indicated	
Validity of offer shall be for a minimum period of 120 days from the date of Tender opening	
Delivery period from the date of Letter of Intent / Purchase order shall be clearly mentioned in the offer	
Liquidated damages @ '0.5% per week subject to a maximum of 10% of the order value shall be applicable for delay in deliveries For Details Refer Annexure- v	
Following Risk Purchase clause shall be applicable The purchaser at his option will be entitled to terminate the contract and to purchase elsewhere at the risk and cost of the seller either the whole of the goods or any part which the supplier has failed to deliver or dispatch within the time stipulated or if the same were not available, the best and the nearest available substitute therefore The supplier shall be liable for any loss which the Purchaser may sustain by reason of such risk purchases	
Payment term for supply portion: Payment term is 100% direct payment after 45 days from the date of receipt and acceptance of materials For details Refer Annexure- v	
Erection / commissioning: (if applicable only) Erection / commissioning charges if any has been mentioned in the offer or else confirmation that Erection /commissioning shall be done at free of cost is available in the offer,	
The equipment shall be guaranteed for a period of 12 months from the date of commissioning	
Final inspection and acceptance of equipment will be after installation at BHEL, Trichy	
The vendor shall provide necessary drawings, Test Certificates and Operating Maintenance Manuals etc., as called for in the Technical Specification, in the required number of copies at no extra cost	
Any warranty replacement during warranty period shall be supplied free of charge on FOR BHEL, Trichy basis.	
Offers should be submitted only in sealed cover super-scribing clearly the Enquiry reference and due date.	
Confirm MSE vendor or not (Incase of MSE vendor necessary documentary proof shall be furnished as per Annexure VI)	
% of Excise Duty with cess	
% of TAX (CST/VAT)-(INGST with FORM-17 or CST with C-FORM)	
Packing & Forwarding Charges (if any in % only)	
Percentage of Freight& transit insurance charges, if any Freight charges from Dispatching station to BHEL, Tiruchirappalli • Supplier should quote for F.O.R-BHEL Trichy Stores.	
As per Commercial terms and conditions, acceptance for participation in Reverse auction (RA). Yes/No to be indicated	
Name of the person for participating reverse auction	
Land Line Number	
Fax Number	
Mobile Number	
E-mail ID	

NOTE:-

- It is confirmed that all the terms and conditions stipulated in the Enquiry have been fully understood by us and all clarifications & details have been obtained.
- Your offer should be indicating applicable if any P&F Charges, % of ED, Sales Tax -CST or VAT, Service Tax, Freight, Insurance and Installation and Commissioning Charges etc., as per our Price Format
- Your specific acceptance to our Payment terms, LD & Risk Purchase Clause are essential for consideration of your offer. Other wise your offer is liable for rejection.
- No row shall be left blank. Please indicate NA, in case the item is "not applicable"

Annexure For Price Bid

**Bharat Heavy Electricals Limited TIRUCHIRAPPUR
MODEL PRICE BID FORMAT FOR INDIAN BIDDERS**

Annexure-IV

Enquiry No. & Date:
Bidder's Offer No. & Date:

SI No	Description of item	Unit	Quantity	Rate in Rs.	Value in Rs.
	TOTAL VALUE IN RS.				
	Packing & Forwarding charges in % if any				
	Freight& Insurance Charges In % if freight charges are not mentioned it will be considered as FOR-BHEL TRICHY.				
	Excise Duty (indicate in %)				
	A) TNGST — VAT (%)				
	B) CST with C-FORM — (%)				
	C) CST without C-Form — (%)				
	Approximate Net weight of the total consignment				
	Approximate Gross weight of the total consignment				
	Approximate Dimensions of the Consignment				
	The price indicated shall be inclusive of all accessories, spares etc. as given in the scope of supply. Individual item-wise break-up price shall be attached as an annexure to this price bid format.				

Signature & Seal of Vendor

NOTE:

1. The price bid should be submitted only as per the above format. No row shall be left blank. Please indicate NA, in case the item is "not applicable".
2. Prices shall be quoted item-wise only as per the above format.
3. If Price quoted is Inclusive of ED, the included ED Value and Base Value shall be indicated item-wise.

Payment Term (Indigenous)	
If materials are receivable at Stores/Trichy <u>without</u> PBG	Payment term is 100% direct payment after 45 days from the date of receipt and acceptance of materials.
If materials are receivable at Stores/Trichy <u>with</u> PBG	Payment term is 100% direct payment after 45 days from the date of receipt and acceptance of materials and against 10% PBG valid for the warranty period.
Any deviation in the above payment term will attract loading as mentioned below. “Base rate of SBI (as applicable on the date of bid opening. Techno-commercial bid opening in case of two part bids) + 6% shall be considered for loading for the period of relaxation sought by bidders.	

Offers of indigenous Suppliers with any other Payment terms will be rejected.
If offer is received from both OEM/Manufacturer and authorized dealers or agent, then OEM/Manufacturer offer will only be considered and dealers or agent offer will be ignored.

Liquidated Damages / Penalty -
The delivery of the goods specified in the purchase order should be made within the time prescribed. LD for delay in 'Supply' and/or 'E&C' will be applicable to the delays attributed to vendor. LD will be considered separately for 'Delivery' and 'E&C'. Where the seller supplies or dispatches the goods, beyond the delivery period Liquidated damages shall be applicable 0.5% of the total order value per week or part thereof subject to a maximum of 10% of the total order value. Material Despatched after Due date: Once the delivery due date is crossed, <u>bills have to be clubbed till final despatch and forwarded for processing of payment as a single bunch</u>. LD percentage will be calculated from Delivery due date to final despatch date. The rate of LD for delayed E&C shall be @ 0.5% per week of delay of total PO value (Supply + E&C) in E&C subject to a maximum of 10% of total PO value (Supply + E&C). For staggered delivery schedule, LD shall be 0.5% of the undelivered portion per week of the delay or part thereof subject to a maximum of 10% of the total order value. Any deviation from the above LD clause, loading will be applied to the extent to which it is not agreed by the bidder (at offered value). For the purpose of Imposing LD, the FOB delivery (B/L date) shall be considered.

Guarantee / Warranty Period – (if applicable)
Normally No deviation permitted and the deviated offers are liable for rejection.

Ranking-
BHEL will consider the ranking after the loading is applied as referred above wherever deviations are observed.

Performance Bank Guarantee – (if applicable)
Normally No deviation permitted and the deviated offers are liable for rejection.

Fraud prevention clause: The bidder along with its associate/collaborator/sub-contractor/sub-vendor/consultants/service providers shall strictly adhere to BHEL fraud prevention policy displayed on BHEL website <http://www.bhel.com> and shall immediately bring to the notice of BHEL management about any fraud or suspected fraud as soon as it comes to their notice.

NOTE:-

1. If the due date of tender opening happens to be a holiday, the tenders will be opened on the next working day.
2. BHEL reserves the right to go for a reverse auction (RA) instead of opening the submitted sealed bid which will be decided after technical evaluation. Information and general terms and conditions covering RA are given in commercial terms and conditions.
3. Corrigendum if any, with respect to this tender will be hosted only in the website <http://www.bhel.com> or <http://tenders.gov.in>. You are requested to visit the website regularly for updates.

Special Provisions for Micro and Small Enterprises (MSE)

1. 20% of the tendered quantity is earmarked for MSE suppliers in this tender.
2. Out of the 20% tendered quantity reserved for MSE suppliers, 4% shall be earmarked for procurement from MSE owned by SC/ST entrepreneurs.
Such Micro/Small Enterprises registered vendors must state the sub-category to which they belong and submit documentary proof for the same. The sub-categories are:
 - (a) Enterprises owned by Scheduled Castes.
 - (b) Enterprises owned by Scheduled Tribes.
 - (c) Enterprises owned by other than above two categories

The enterprises under (a) & (b) means the proprietor in case of single owned firm and all partners in case of partnership firm and all directors in case of private/public limited must belong to SC/ST category.
3. In case MSE vendor participating in the tender quotes within the price band of L1+15%, they will be allowed to supply the portion of the requirement subject to acceptance of L1 price by MSE vendor. In case of more than one such MSE, the supply shall be shared proportionately.
4. "MSE suppliers can avail the intended benefits only if they submit along with the offer, attested copies of either EM II certificate having deemed validity (five years from the date of issue of acknowledgement in EM-II) or valid NSIC certificate or EM II certificate along with attested copy of a CA certificate (Format enclosed at Annexure -VII where deemed validity of EM II certificate of five Years has expired) applicable for the relevant financial year (latest audited). Date to be reckoned for determining the deemed validity will be the date of bid opening (Part 1 in case of two part bid). Non submission of such documents will lead to consideration of their 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 e-procurement portal, then the above required documents are to be uploaded on the portal. Documents should be notarized or attested by a Gazetted officer."

Certificate by Chartered Accountant

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

Further verified from the Books of Accounts that the investment of the
company as on date as per MSMED Act 2006 is as follows:

1. For Manufacturing Enterprises: Investment in plant and machinery (i.e.
original cost excluding land and building and the items specified by the
Ministry of Small Scale Industries vide its notification No.5.0.1722(E)
dated October 5, 2006:

Rs.....Lacs

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

Rs.....Lacs

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

Date:

(Signature)

Name -

Membership Number -

Seal of Chartered Accountant