



BHARAT HEAVY ELECTRICALS LIMITED

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

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

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Enquiry No	Enquiry Date	Due Date for Quotation
2661600375 - 55	30.08.2016	27.09.2016
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	7503A2500100	NO	20.000	20.00	29.11.16
SPUR GEAR (DIA.90 X 43T) AS PER DRG. NO. 3-M-03A25-15593 NOTE: ITEM NO. 10 and 20 ARE MATING COMPONENTS. HENCE THESE ITEMS SHOULD BE PROCURED FROM SINGLE SOURCE ONLY. COMMON NOTE FOR ALL THE ITEMS: (1) VENDOR SHOULD MAKE A VISIT TO BHEL/TRICHY WORKS FOR AN #ON THE SPOT# STUDY OF THE REQUIREMENTS OF BHEL PRIOR TO SUBMITTING THE TECHNICAL OFFER. THE OFFER SUBMITTED WITHOUT VISIT AND ASSESSMENT SHALL NOT BE CONSIDERED FOR EVALUATION. (2) AFTER PLACEMENT OF PURCHASE ORDER 1 NO OF SAMPLE SHALL BE SUPPLIED WITH MATERIAL CONFORMANCE TEST CERTIFICATE PREFERABLY WITHIN 5 WEEKS TO BHEL ACCEPTANCE. AFTER GETTING ACCEPTANCE FROM BHEL FULL QUANTITY MAY BE SUPPLIED. ACCEPTANCE FROM BHEL WILL BE GIVEN WITHIN 1 WEEK. THIS PERIOD (5+2 = 7 WEEKS) TAKEN INTO ACCOUNT WHILE QUOTING DELIVERY PERIOD BY THE SUPPLIER. VENDOR QUALIFYING CRITERIA: ONLY THOSE VENDORS WHO SATISFY THE FOLLOWING CONDITIONS WILL GET QUALIFIED TO PARTICIPATE IN THE TENDER: (1) VENDOR SHOULD HAVE MINIMUM 2 YEARS OF EXPERIENCE IN THIS FIELD. (2) PREVIOUS PO DETAILS FOR SUPPLYING SIMILAR KIND OF ITEMS TO BHEL AND / OR ANY-OTHER ORGANIZATION SHOULD BE SUBMITTED ALONG WITH OFFER. OTHERWISE OFFER WILL BE REJECTED. (3) VENDORS WHO HAVE NOT SUPPLIED THE ORDERED ITEMS BEYOND THE DELIVERY SCHEDULE AGAINST OUR PREVIOUS PO PLACED ON THEM FROM 01.04.2014 ARE LIABLE FOR REJECTION / MAY NOT BE CONSIDERED FOR EVALUATION. HENCE ONLY THOSE VENDORS WHO ARE ALL REGULARLY					

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.	Yours faithfully, For BHARAT HEAVY ELECTRICALS LIMITED  V. CHELLIAH Sr Manager, Purchase MM/PRM/OR&SP BHEL, TRICHY - 620 014.
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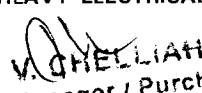


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TAMILNADU (INDIA)

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2661600375 / 30.08.2016				23505	
SUPPLYING TO OUR POS SHALL QUOTE FOR THESE ITEMS.					
(4) COMPANY PROFILE DETAILS HAS TO BE PROVIDED ALONG WITH OFFER.					
(5) BHEL RESERVES THE RIGHT TO VISIT THE VENDOR'S WORKS FOR VERIFYING THE MANUFACTURING FACILITIES AND ANY OTHER CREDENTIAL FURNISHED BY THE VENDOR. IN CASE THE INFORMATION FURNISHED WITH THE OFFERS FOUND TO BE FALSE / INCORRECT, THE OFFER SHALL BE REJECTED.					
20	7503A2500200	NO	10.000	10.00	29.11.16
PINION (DIA.20 X 8T) AS PER DRG. NO. 4-M-03A25-29883					
30	7518D1400700	NO	5.000	5.00	29.11.16
SPROCKET WHEEL 58T X 1" AS PER DRG. NO. 4-M-18D14-29874					
40	7518D1400800	NO	5.000	5.00	29.11.16
SPROCKET WHEEL 60T X 1" AS PER DRG. NO. 4-M-18D14-29875					
50	7512B3603300	NO	10.000	10.00	29.11.16
LEVER (SAW CUTTING) AS PER DRG. NO. 3-M-12B36-14199					
60	7510A6109400	NO	5.000	5.00	29.11.16
SPIRAL BEVEL GEAR (20T/DIA 130.48) AS PER DRG NO. 4-M-10A61-29527-01 NOTE: ITEM NO. 60 and 70 ARE MATING COMPONENTS. HENCE THESE ITEMS SHOULD BE PROCURED FROM SINGLE SOURCE ONLY.					
70	7510A6109500	NO	5.000	5.00	29.11.16
SPIRAL BEVEL GEAR (30T/DIA 180) AS PER DRG NO. 4-M-10A61-29543-01					
80	7510A6109200	NO	15.000	15.00	29.11.16
MEASURING UNIT ROLLER SHAFT DIA. 24 X 120 L AS PER DRG NO. 4-M-10A61-29643					
90	7510A6109300	NO	10.000	10.00	29.11.16
ROLLER ID 20 X OD 60 X 70 L AS PER DRG NO. 4-M-10A61-29644					
100	7512B3603200	NO	10.000	10.00	29.11.16
BRACKET (SAW CUTTING) AS PER DRG.NO. 3-M-12B36-14198					
110	7510A6110300	NO	40.000	40.00	29.11.16
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.			Yours faithfully, For BHARAT HEAVY ELECTRICALS LIMITED  Manager / Purchase PURCHASE DEPARTMENT (FOSSIL BOILERS) THIRUCHIRAPALLI - 620014. TAMILNADU (INDIA)		



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TAMILNADU (INDIA)

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2661600375 / 30.08.2016

23505

ADAPTOR 1/2" UNF-20TPI AS PER DRG. NO. 3-M-10A61-15554					
120	7527A1400100	NO	10.000	10.00	29.11.16
PINION SHAFT 16T X DIA. 45 AS PER DRG. NO. 3-M-27A14-15614					
130	7527A1400200	NO	10.000	10.00	29.11.16
THREADED BUSH Tr.32 X 3P X 40L AS PER DRG. NO. 4-M-27A14-29888					
140	7502F4200200	NO	10.000	10.00	29.11.16
PINCH ROLLER SHAFT AS PER DRG. NO. 3-M-02F42-15619					

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.

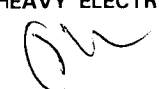
As tenders are being opened by Common Tender Opening Cell, offer covers should be sealed with tenderer's distinctive seal and super scribed with correct Tender No. item of supply and due date of opening.

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

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Yours faithfully,
For **BHARAT HEAVY ELECTRICALS LIMITED**


**MANAGER / PURCHASE
(FOSSIL BOILERS)**
Yours faithfully,



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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.

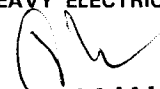
The supplier shall submit EI/EII forms to BHEL time to time as indicated by the BHEL and in case of inordinate delay in issuing EI/EII forms, then BHEL reserves the right to deduct 5% of the value of the supplied items against which EI/EII forms pending to be issued

Enclosures:

"LD clause has to be confirmed without fail."

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Yours faithfully,
For BHARAT HEAVY ELECTRICALS LIMITED


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

3-M-03A25-15593

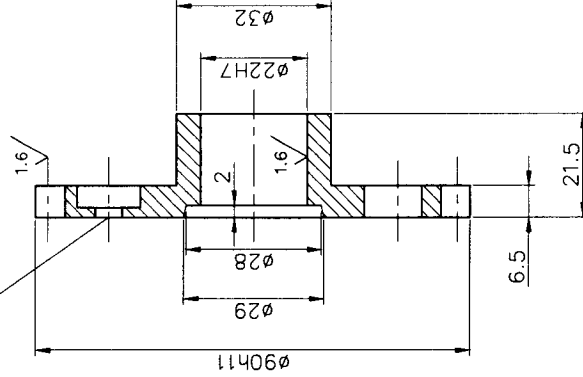
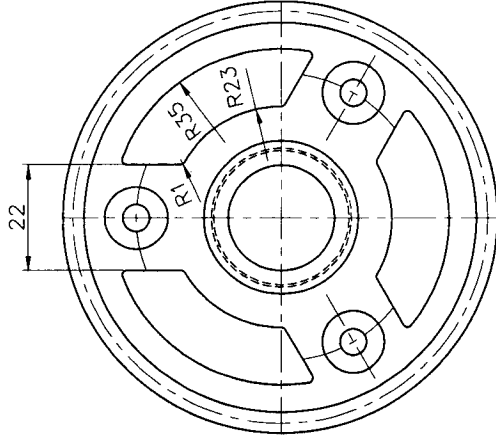
DRAWING NO.

ALL DIMENSIONS ARE IN MILLIMETRES

Ø22H7	+0.021	Ø90h11	-0.000
	+0.000		-0.220

3.2/1.6/
✓/✓

3 HOLES Ø5.5/CBRØ13/4DEPTH
ON PCD 60



NO. OF TEETH	43
MODULE	2
PRESSURE ANGLE	20°
WIDTH ACROSS 6 TEETH	33.677
CORRECTION FACTOR	NIL
Q.L.T.Y. & TOL. ZONE	9c DIN 3967
MATING GEAR NO. OF TEETH	8
MATING GEAR DRAWING NO.	4-M-03A25-29883
CENTRE DISTANCE	51

NOTE:
AVOID ALL SHARP CORNERS
HARDENED TO HRC 35±2

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	0.35
PL22t x Ø90			55c8	1
EQPT: PORTABLE BANDSAW / MAKITA-2107F		MATL SPEC	QTY	
Bharat Heavy Electricals Ltd HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI - 620014		NAME	SIGNATURE	DATE
		G. Govindaraj	S. Sundaraj	25.04.16
		CHD	K.V.K. Moorthy	26.04.16
		APPD	G. Thiagarajan	27.04.16
DEPT	GRADE OF UNTOOL DM	SCALE	WEIGHT (Kg)	ITEM
MAS	Ø/M/f	1:1	-	
CODE	IS:2102			
2597				
TITLE		DRAWING NO :		REV
SPUR GEAR Ø90x43T		3-M-03A25-15593		00
		CARD CODE	A3-SIZE	
		U 01		

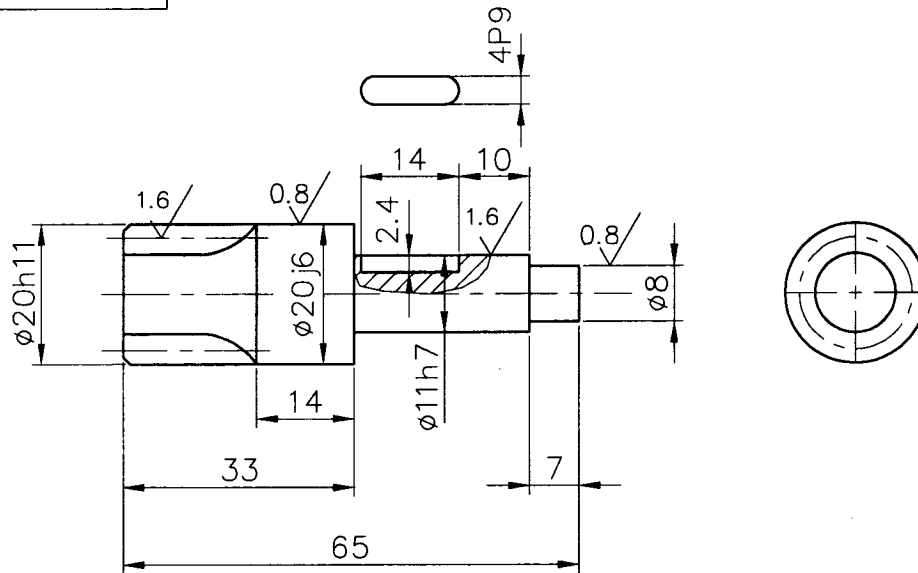
ALL DIMENSIONS ARE IN MM

REV	DATE	ALTERED
		CHECKED
		APPROVED
ZONE		

$\phi 20j6$	+0.009
	-0.004
$\phi 11h7$	-0.000
	-0.018

$\phi 20h11$	-0.000
	-0.130

3.2//1.6//0.8//



NOTE:

AVOID ALL SHARP CORNERS
HARDENED TO HRc 35±2

NO.OF TEETH	8
MODULE	2
PRESSURE ANGLE	20°
WIDTH ACROSS - TEETH	-
CORRECTION FACTOR	NIL
QLTY.&TOL.ZONE	9c DIN 3967
MATING GEAR NO.OF TEETH	43
MATING GEAR DRAWING NO:	3-M-03A25-15593
CENTRE DISTANCE	51

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	ø20 x 65L		IS 5517		0.10	
			55c8		1	
ITEM NO	DESCRIPTION	DRAWING NO	MATL CODE		UNIT WT	
			MATL SPEC		QTY	
EQPT: PORTABLE BANDSAW / MAKITA-2107F						
	Bharat Heavy Electricals Ltd HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI - 620014	DRN	NAME G.GOVINDARAJ	SIGNATURE <i>G. Govindaraj</i>	DATE 25.04.16	
		CHD	K.V.K.MOORTHY	<i>K. V. K. Moorthy</i>	26.04.16	
		APPD	G.THAGARAJAN	<i>G. Thiagarajan</i>	27.04.16	
DEPT M&S	GRADE OF UNTOL. DIM		SCALE 1:1	WEIGHT (Kg) 0.10	REF TO ASSY DWG NO	ITEM
CODE 2597	✓ ø/M/AF IS: 2102				—	
TITLE PINION ø20x8T			CARD CODE U 01	DRAWING NO : 4-M-03A25-29883		REV 00

A4-SIZE

ALL DIMENSIONS ARE IN MM

REV	DATE	ALTERED
		CHECKED
		APPROVED
ZONE		

ø65H7	+0.030
	0.000
18P9	-0.018
	-0.061

3.2//1.6

M8 AT ASSY.

ø478

ø100

ø454

7.5

1.6

18P9

1.6

ø65H7

+0.2

73

1.6

NO.OF TEETH 58

ROLLER DIA. 15.70

PITCH 1"

SHARP CORNERS TO BE REMOVED

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.

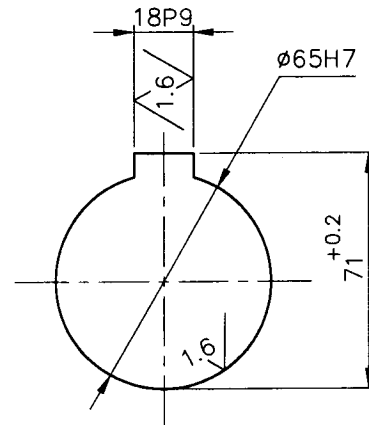
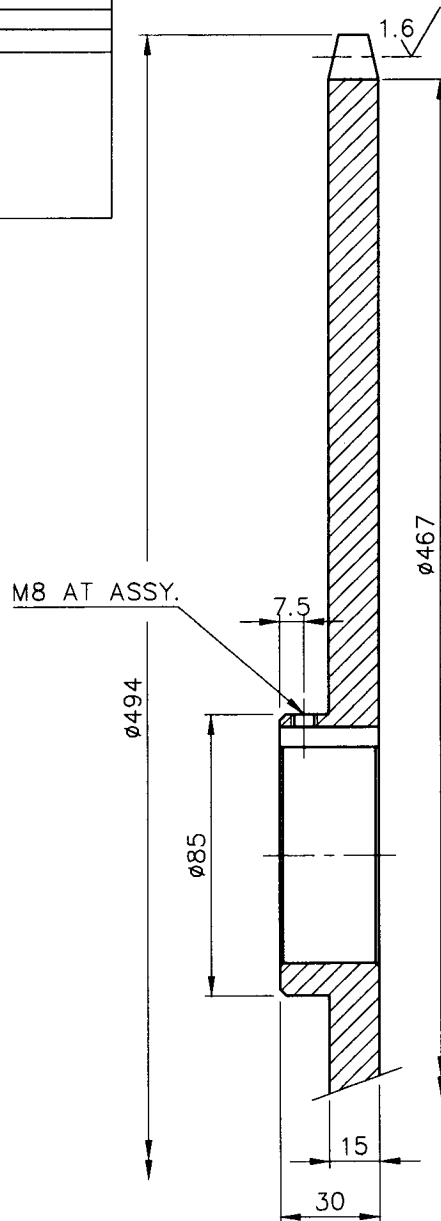
ø478x30 L		IS: 2004		21.25
ITEM NO		DESCRIPTION		DRAWING NO
DEPT		GRADE OF UNTOOL. DIM		SCALE
M&S		ø/M/F		1:2
CODE		IS: 2102		WEIGHT (Kg)
2597				21.25
EQPT: HIGH TEMPERATURE FURNACE CDF MODE/8 TON-HT CDF 2010				
Bharat Heavy Electricals Ltd		NAME		SIGNATURE
HIGH PRESSURE BOILER PLANT		S.SELVAMANICKAM		S. Selvamannickam
TIRUCHIRAPALLI - 620014		G.GOVINDARAJ		G. Govindaraj
		G.THIAAGARAJAN		G. Thiagarajan
DEPT		NAME		DATE
M&S		S.SELVAMANICKAM		12.03.16
CODE		G.GOVINDARAJ		14.03.16
2597		G.THIAAGARAJAN		15.03.16
TITLE		REF TO ASSY DWG NO		ITEM
SPROCKET WHEEL 58Tx1"		REF TO OLD DWG NO		
(IN FEED ROLLER CONVEYOR DRIVE ASSY.)		DRAWING NO :		REV
		4-M-18D14-29874		00
CARD CODE		U 01		

A4-SIZE

REV	DATE	ALTERED
		CHECKED
		APPROVED
ZONE		

ø65H7	+0.030
	0.000
18P9	-0.018
	-0.061

3.2 1.6



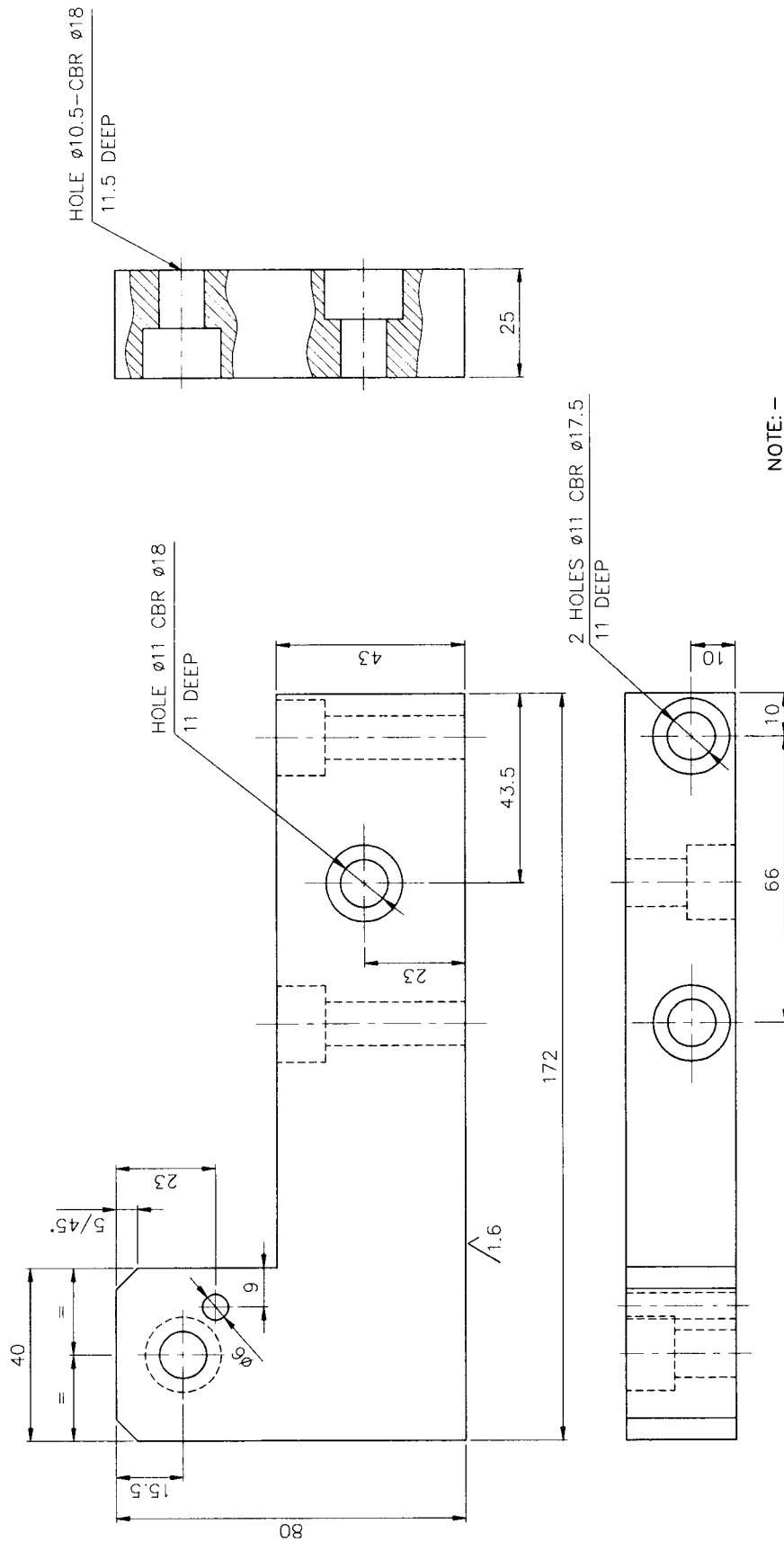
SHARP CORNERS TO BE REMOVED

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.

				IS: 2004		21.96	
ø494x30 L				45C8		1	
ITEM NO	DESCRIPTION	DRAWING NO	MATL CODE			UNIT WT	
			MATL SPEC			QTY	
EQPT: HIGH TEMPERATURE FURNACE CDF MODE/8 TON-HT CDF 2010							
 Bharat Heavy Electricals Ltd HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI – 620014		DRN	NAME S.SELVAMANICKAM	SIGNATURE <i>S. Selvamanickam</i>	DATE 12.03.16		
		CHD	G.GOVINDARAJ	<i>G. Govindaraj</i>	14.03.16		
		APPD	G.THAGARAJAN	<i>S. Thiagarajan</i>	15.03.16		
DEPT M&S	GRADE OF UNTOOL. DIM		SCALE 1:2	WEIGHT (Kg) 21.96	REF TO ASSY DWG NO		ITEM
CODE 2597	✓ Ø / M / F IS: 2102				REF TO OLD DWG NO		
TITLE SPROCKET WHEEL 60Tx1" (CABIN ROLLER CONVEYOR DRIVE ASSY.)				CARD CODE U 01	DRAWING NO : 4-M-18D14-29875		REV 00

A4-SIZE

ALL DIMENSIONS ARE IN MM

~~3.2/1.6~~

NOTE: -

SHARP CORNERS TO BE REMOVED

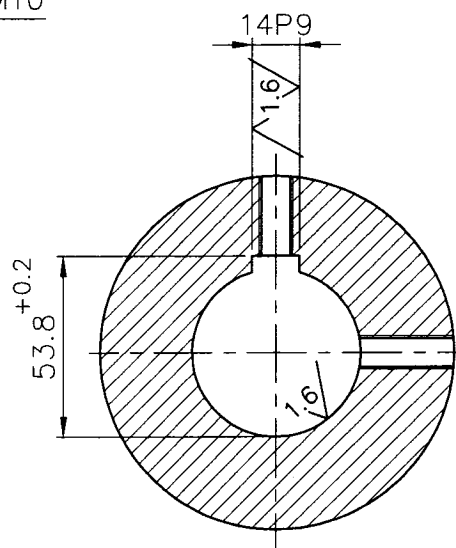
				PI. 25tx80x172	Fe410WB	IS: 2062	1.62				
				DESCRIPTION REFERENCE:	MATERIAL	STANDARD ALTERATIONS:	NET WT IN KGS.	DRAWING NO.	DRAWING NO.	ITEM No.	
				S. Selvamannickam 1: 1 DATE	S. Selvamannickam 1: 1 DATE	S. Selvamannickam 1: 1 DATE	S. Selvamannickam 1: 1 DATE	S. Selvamannickam 1: 1 DATE	S. Selvamannickam 1: 1 DATE	S. Selvamannickam 1: 1 DATE	
SCALED DRAWN											
CHECKED											
APPROVED				APPROVED				APPROVED			
DATE				DATE				DATE			
MACHINE: AUTO TUBE END CUTTING & PREPARATION				TYPE: ATCP PEMA - PHASE - II				TYPE: ATCP PEMA - PHASE - II			
TITLE:				LEVER (SAW CUTTING)				DRAWING No:			
				3M1 2B3614199				No. of Sheets:			
REV.				REV.				REV.			

CAUTION:

Ø50 H7

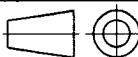
14 P9

3.2 // 1.6



CASE DEPTH 0.8 MM

NO.OF TEETH	20
MODULE	6
PRESSURE ANGLE	20°
HAND OF HELIX	LH
SPIRAL ANGLE	35°
TOOTH FORM	GLEASON
QUALITY & TOL.ZONE	9c.DIN 3967
MATING GEAR No.OF TEETH	30
MATING GEAR DRG.No.	4M10A6129543

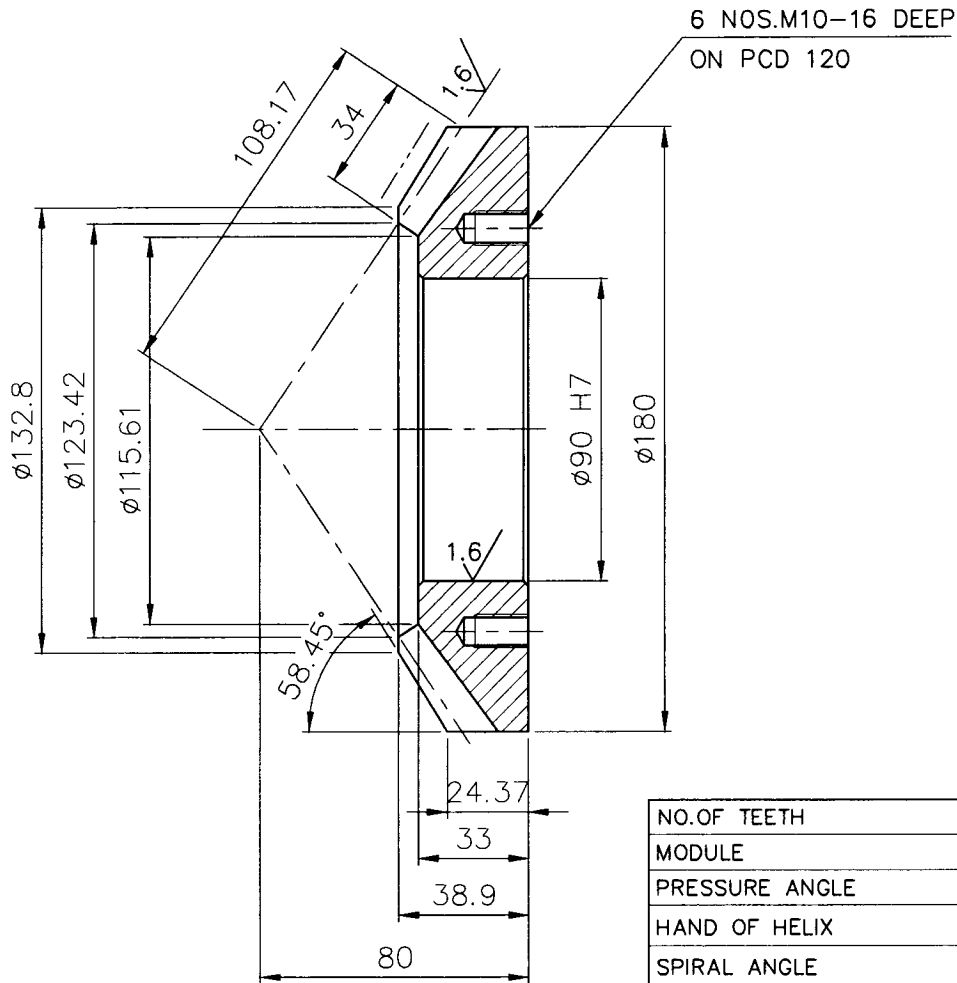
	ø130.48x65.57t		13Ni13Cr3	IS: 4432	5.82			
	No. of Pieces	DESCRIPTION	MATERIAL	STANDARD	NET.WT.IN KGS.	DRAWING No.		ITEM No.
	REFERENCE: REF.DRG.NO.KHK MBSB6-2030L			ALTERATIONS:		DCN REF	DATE	SIGN.
				CASE HARDENING NOTE ADDED		26.03.13	K.R	①
SCALE 1:2	DRN/TCO	s.selvamanickam						
	CHED.	R.Ramamoorthy						
	APPD.	K.Ramanan						
	DATE	25.09.12						
	MACHINE: 20 TORCH PANEL PROCESSING WELDING				TYPE: KKK			
	TITLE:				DRAWING No:			REV.
	SPIRAL BEVEL GEAR (20T/ø130.48)				4M10A61		29527	01
	(FIN CALIBRATION UNIT)				Sheet No:		No. of Sheets:	

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ALL DIMENSIONS ARE IN MM

Ø90 H7 +0.035
0.000

3.2/1.6/



NOTE: -

SHARP CORNERS TO BE REMOVED

CASE HARDENED TO HRC 58

①

CASE DEPTH 0.8 MM

X		Ø180x38.9t	13Ni13Cr3	IS: 4432	5.80			
No. of Pieces	DESCRIPTION		MATERIAL	STANDARD	NET.WT. IN KGS.	DRAWING No.		ITEM No.
	REFERENCE: REF.ORG.NO.KHK MBSA6-3020R			ALTERATIONS:	DCN REF	DATE	SIGN.	INDEX
	SCALE DRN/TCO s.selvamanickam			CASE HARDENING NOTE ADDED		26.03.13	K.R	①
	CHED. R.Ramamoorthy							
	APPD. K.Ramanan							
1:2	DATE 25.09.12'							
	MACHINE: 20 TORCH PANEL PROCESSING WELDING			TYPE: KKK				
	TITLE: SPIRAL BEVEL GEAR (30T/Ø180)			DRAWING No:		REV.		
	(FIN CALIBRATION UNIT)			4M10A612954301				
			Sheet No:		No. of Sheets:			

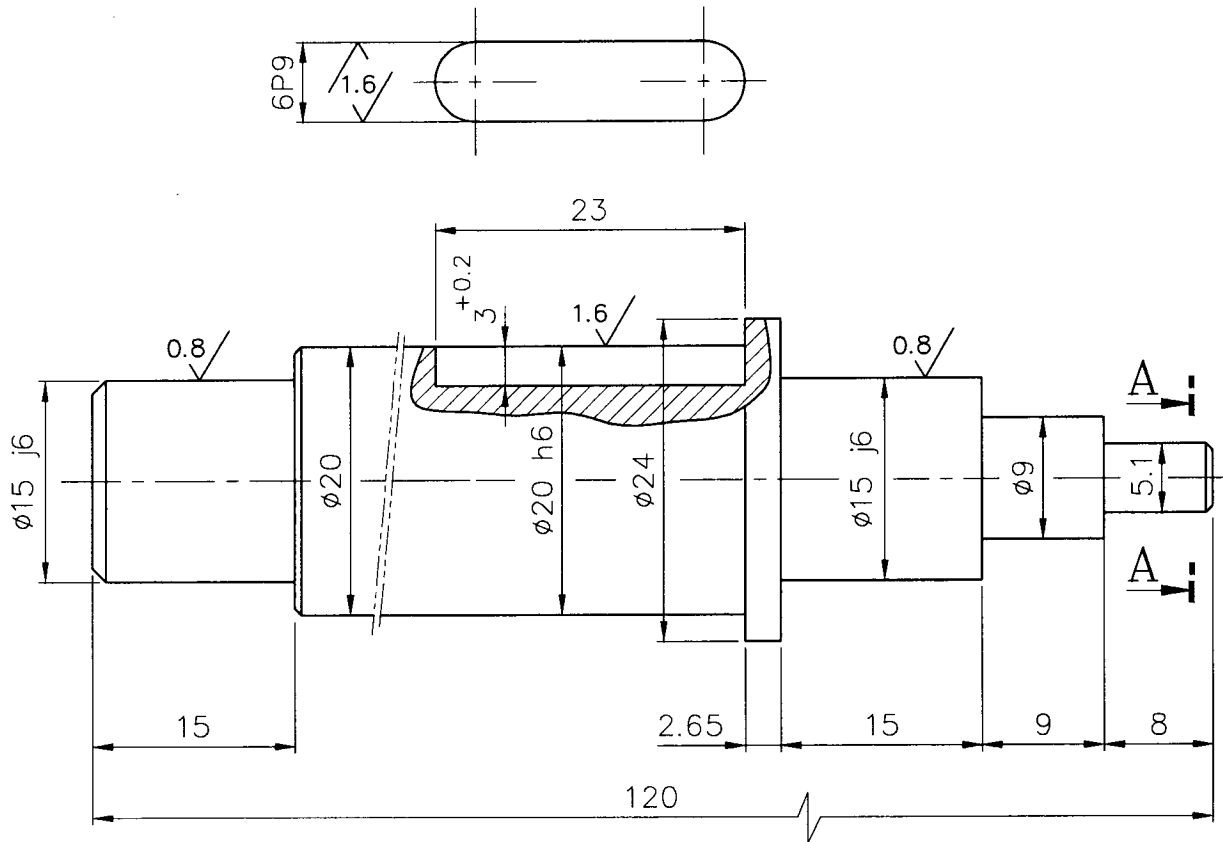
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CAUTION:

ALL DIMENSIONS ARE IN MM

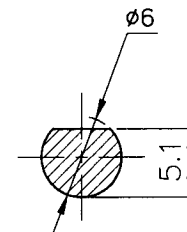
6 P9	-0.012	$\phi 15 j6$	+0.008
	-0.042		-0.003
$\phi 20 h6$	-0.000		
	-0.013		

3.2//1.6//0.8//



NOTE: -

SHARP CORNERS TO BE REMOVED



SECTION-AA

X		$\phi 24 \times 120$ L		45C8	IS: 7283	0.30		
No. of Pieces	DESCRIPTION		MATERIAL	STANDARD	NET.WT. IN KGS.	DRAWING No.		ITEM No.
 SCALE 2:1	REFERENCE:			ALTERATIONS:	DCN REF	DATE	SIGN.	INDEX
	DRN.	S.Selvamanickam						
	CHD.	R.Ramamoorthy						
	APPD.	R.Ramanan						
	DATE	18.03.13'						
	MACHINE: 20 TORCH WELDING PROCESSING WELDING				TYPE: KKK			
	TITLE:				DRAWING No:			
	MEASURING UNIT ROLLER SHAFT $\phi 24 \times 120$ L (FIN CALIBRATION)				4M10A6129643			
				Sheet No:		No. of Sheets:		REV.

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

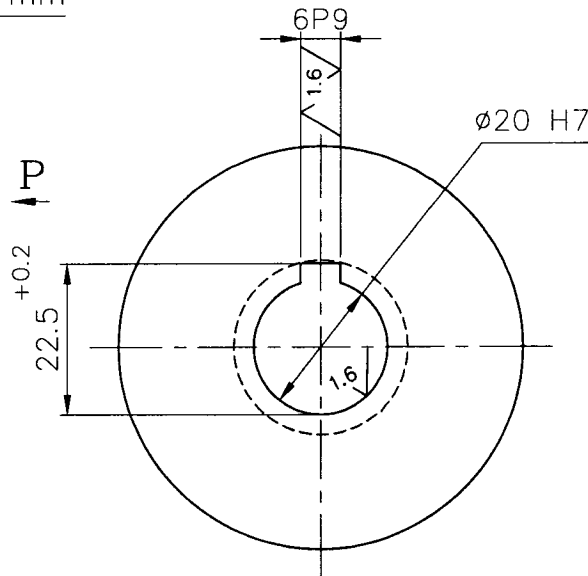
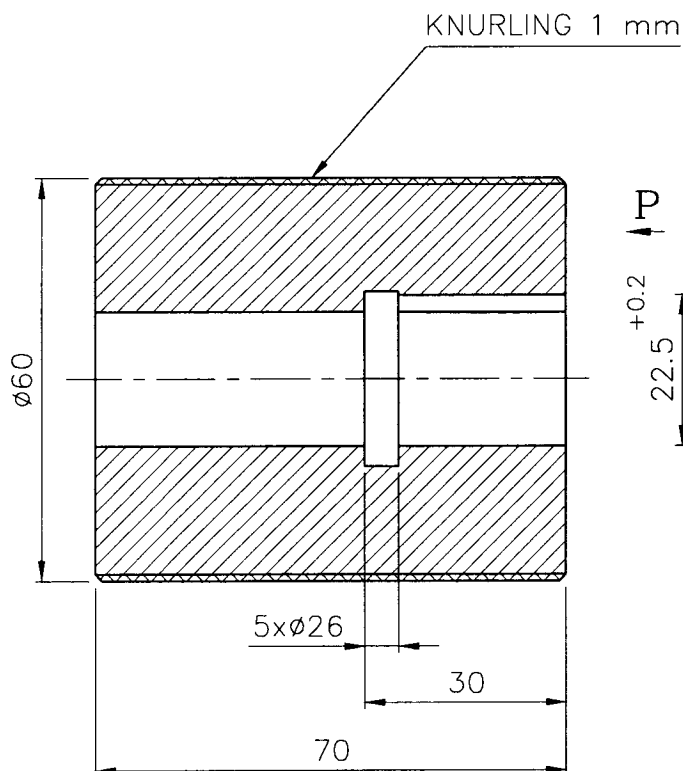
6 P9

-0.012
-0.042

Ø20 H7

+0.021
+0.000

3.2//1.6/



VIEW-P

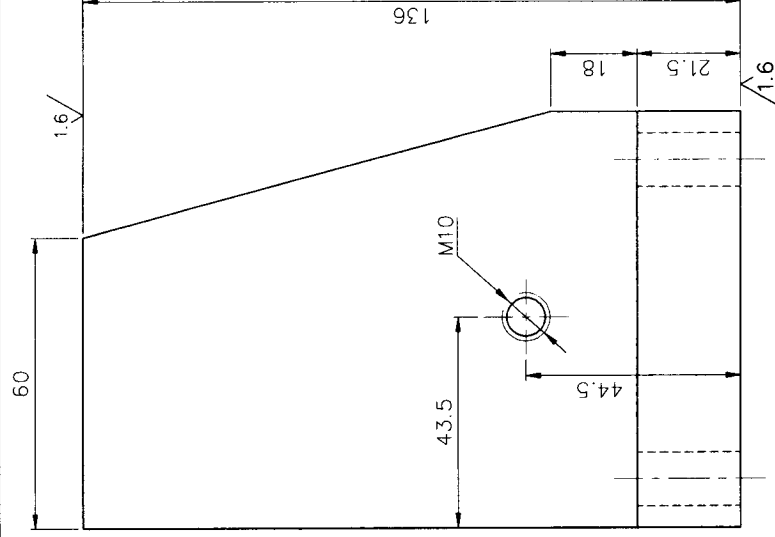
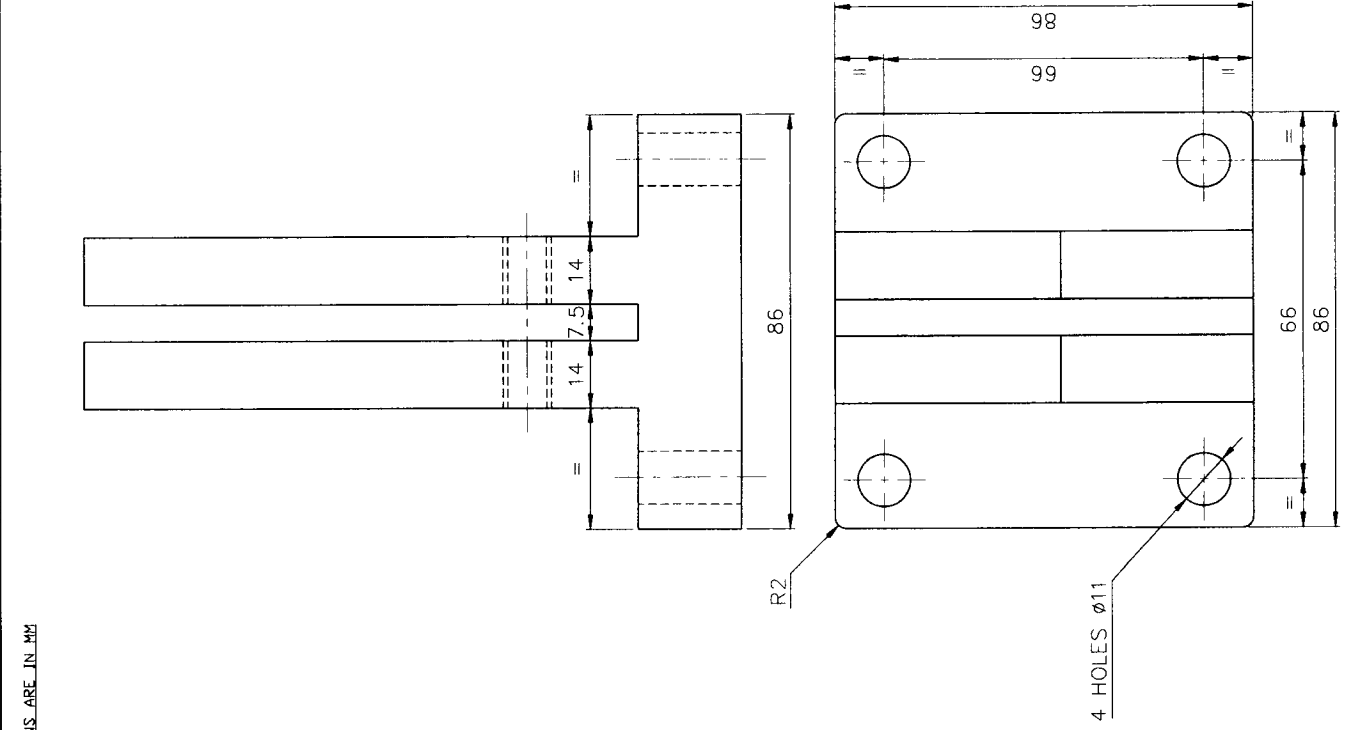
NOTE: -

SHARP CORNERS TO BE REMOVED

X		Ø60X70 L		45C8	IS: 7283	1.31			
No. of Pieces	DESCRIPTION			MATERIAL	STANDARD	NET.WT.IN KGS.	DRAWING No.		ITEM No.
	REFERENCE:				ALTERATIONS:	DCN REF	DATE	SIGN.	INDEX
	DRN.	S.Selvamanickam							
	CHD.	R.Ramamoorthy							
	APPD.	R.Ramanan							
1:1	DATE	18.03.13'							
MACHINE: 20 TORCH WELDING PROCESSING WELDING		TYPE: KKK							
TITLE: ROLLER ID20xØD60x70 L (FIN CALIBRATION)		DRAWING No:			REV.				
		4M10A6129644							
		Sheet No:			No. of Sheets:				

ALL DIMENSIONS ARE IN MM

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OF BHARAT HEAVY ELECTRICALS LIMITED



NOTE: -

SHARP CORNERS TO BE REMOVED

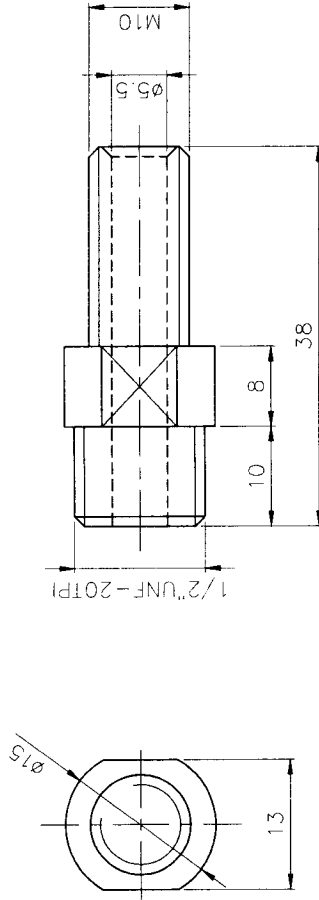
No. of Pieces	DESCRIPTION	SA299	ASME	2.78	DRAWING No.	SIGN.	DATE	DCN REF	SIGN.	DATE	ITEM No.	INDEX			
													ALTERATIONS:	ALTERATIONS:	ALTERATIONS:
SCALE	DRAWN	S. Selvamani	CHECKED	1:1	DATE	06.07.10	MACHINE: AUTO TUBE END CUTTING & PREPARATION						TYPE: ATCP-PEMA PHASE-II		
TITLE: BRACKET (SAW CUTTING)												DRAWING No:		REV.	
3M12B3614198												Sheet No:		No. of Sheets:	

ALL DIMENSIONS ARE IN MILLIMETRES

DRAWING NO:

3-M-10A61-15554

1.6/



NOTE :

CORNERS TO BE CHAMFER TO 1/45°

EQPT: 20 TORCH PANNEL WELDING M/C. / KKK 50 BLDG		ITEM NO		DESCRIPTION		DRAWING NO		IS: 28		PCuSn7		UNIT WT		1	
DEPT		GRADE OF UNTOL DIM		SCALE		WEIGHT (Kg)		REF TO ASSY DWG NO		NAME		SIGNATURE		DATE	
M&S		φ / M / f		2:1		-		-		G. Govindaraj		S. Srinivasan		20.07.15	
CODE		IS: 2102		2587		-		-		G. Govindaraj		S. Srinivasan		20.07.15	
TITLE		ADAPTOR 1/2" UNF-20TPI		(TORCH ASSY.)		DRAWING NO :		3-M-10A61-15554		REV		00		A3-SIZE	
REV		DATE		ALTERED		CHECKED		APPROVED		ZONE					

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Bharat Heavy Electricals Ltd
HIGH PRESSURE BOILER PLANT
TIRUCHIRAPALLI - 620014

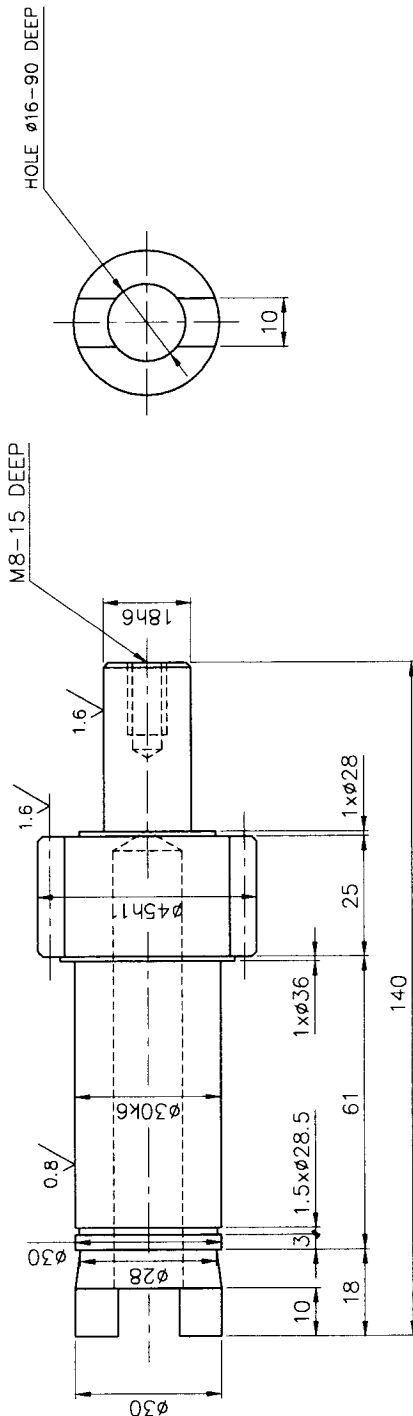
3-M-27A14-15614

DRAWING NO.

ALL DIMENSIONS ARE IN MILLIMETRES

$\phi 30k6$	$+0.015$ $+0.002$	$\phi 45h11$	-0.000 -0.160
$\phi 18h6$	-0.000 -0.011		

3.2/1.6/0.8/



NOTE: -

1. HARDENED TO HRC35 ± 2

2. SHARP CORNERS TO BE REMOVED

NO. OF TEETH	16
MODULE	2.5
PRESSURE ANGLE	20°
WITH ACROSS 3 TEETH	19.0110 -0.160 -0.127
CORRECTION FACTOR	NIL
Q.LTY. & TOL. ZONE	9C DIN 3967
MATING GEAR NO. OF TEETH	16
MATING GEAR DRAWING NO.	NIL
CENTRE DISTANCE	40

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ITEM NO	DESCRIPTION	DRAWING NO	IS: 5517	0.66
EOP: TUBE END BEVELING M/C/DWT				
Bharat Heavy Electricals Ltd HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI - 620014				
DEPT	MAS	CODE	2597	
GRADE OF UNTOL DIM	$\phi/M/f$	SCALE	1:1	
WEIGHT (kg)	0.66	REF TO ASSY DWG NO		
REF TO OLD DWG NO				
DRN	S.SELVAMANICKAM	SIGNATURE		DATE
CHK	G.GOVINDARAJ			13.07.16
APPD	G.THAGARAJAN			13.07.16
REV				
DRAWING NO : 3-M-27A14-15614				
REV 00				

PINION SHAFT 16T $\times$ ϕ 45
(SPINDLE ASSY.)

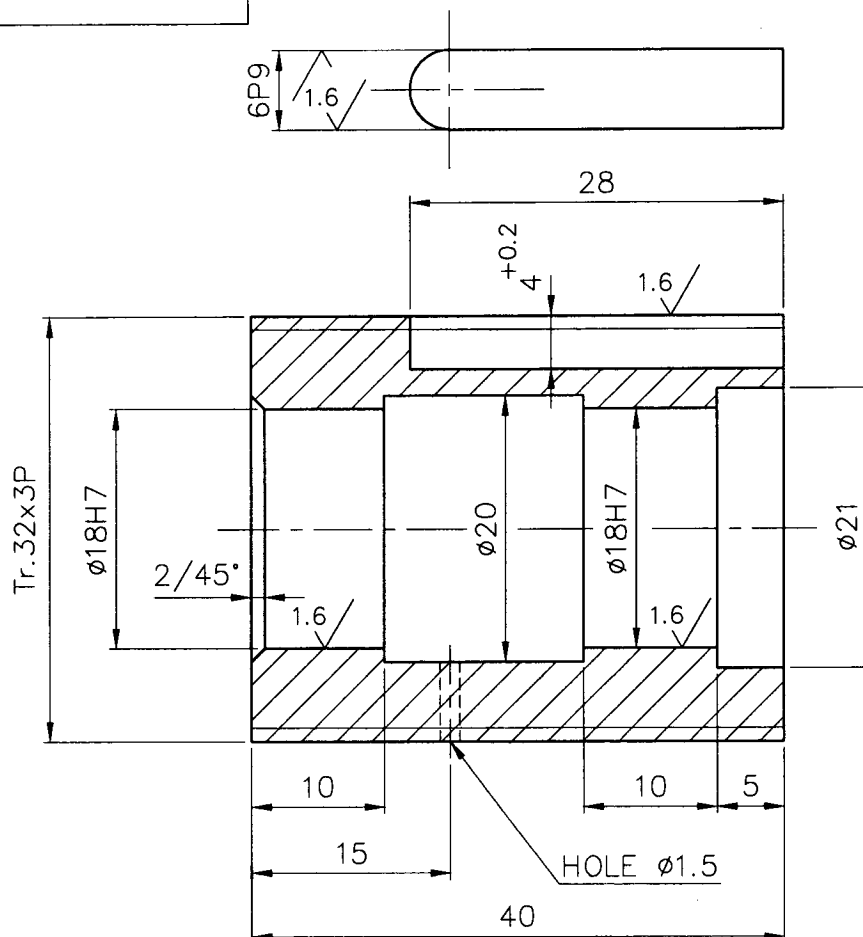
A3-SIZE

ALL DIMENSIONS ARE IN MM

REV	DATE	ALTERED
		CHECKED
		APPROVED
ZONE		

ø18H7	+0.018	6P9	-0.012
	0.000		-0.042

3.2//1.6/



NOTE: -

SHARP CORNERS TO BE REMOVED

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ITEM NO		DESCRIPTION	DRAWING NO	IS: 2004	0.16
45C8				MATL CODE	UNIT WT
MATL SPEC					QTY
EQPT: TUBE END BEVELING M/C/DWT					
DEPT M&S		GRADE OF UNTOL. DIM	SCALE	WEIGHT (Kg)	REF TO ASSY DWG NO
CODE 2597		ø/M/F IS: 2102	2:1	0.16	REF TO OLD DWG NO
TITLE		CARD CODE		DRAWING NO :	REV
THREADED BUSH Tr.32x3Px40L (SPINDLE ASSY.)		U 01		4-M-27A14-29888	00



Bharat Heavy Electricals Ltd
HIGH PRESSURE BOILER PLANT
TIRUCHIRAPALLI - 620014



A4-SIZE

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>

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 TIRUCHIRAPPALLI CAPITAL PURCHASE
MODEL PRICE BID FORMAT FOR INDIAN BIDDERS **Annex**

Annexure-IV

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

Sl 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 without 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 with 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.

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, bills have to be clubbed till final despatch and forwarded for processing of payment as a single bunch. 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