



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:

Page
1/4

Enquiry No	Enquiry Date	Due Date for Quotation
2661600403 - 55	20.09.2016	15.10.2016
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	PINION SHAFT AS PER DRG. 3-M-08D05-1748. Common note for All items: (1) Mating components shall be awarded to single supplier for proper matching of components. (2) All items are to be neatly separately packed with Title, drawing no, Machine/Eqpt name identification tag on it. (3) Items (Wherever applicable) are to be individually packed with zip lock cover. 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 is liable for rejection) (3) Company profile details has to be provided along with offer. (4) BHEL may visit/check 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.	NO	1.000	1.00	15.12.16
20	PINION SHAFT AS PER DRG. 4-M-08D05-6890	NO	1.000	1.00	15.12.16
30	SPUR GEAR AS PER DRG. 4-M-08D05-4090	NO	1.000	1.00	15.12.16
40	DOUBLE GEAR AS PER DRG. 4-M-08D05-9102	NO	1.000	1.00	15.12.16
50	SPUR GEAR AS PER DRG. 4-M-08D05-9104	NO	1.000	1.00	15.12.16
60	SPUR GEAR AS PER DRG. 4-M-08D05-9105	NO	1.000	1.00	15.12.16
70		NO	1.000	1.00	15.12.16

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

V. CHELLIAN
MANAGER / PURCHASE
THIRUCHIRAPALLI
MM / RM / GRG, SP
BHEL, TRICHY - 620 014



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Page
2/4

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2661600403 / 20.09.2016

23505

80	SPUR GEAR AS PER DRG. 4-M-08D05-9106	NO	1.000	1.00	15.12.16
90	SPUR GEAR AS PER DRG. 4-M-08D05-9107	NO	1.000	1.00	15.12.16
100	SPUR GEAR AS PER DRG. 4-M-08D05-9108	NO	1.000	1.00	15.12.16
110	SPUR GEAR AS PER DRG. 4-M-08D05-9109	NO	1.000	1.00	15.12.16
120	SPUR GEAR AS PER DRG. 4-M-08D05-9110.	NO	1.000	1.00	15.12.16
130	SPUR GEAR AS PER DRG. 4-M-08D05-4113.	NO	1.000	1.00	15.12.16
140	SPUR GEAR AS PER DRG. 4-M-08D05-4114	NO	1.000	1.00	15.12.16
150	SPUR GEAR AS PER DRG. 4-M-08D05-8996	NO	1.000	1.00	15.12.16
160	WORM GEAR AS PER DRG. 4-M-08D05-6591 NOTE: ITEM 150 AND ITEM 160 ARE MATTING COMPONENTS.	NO	1.000	1.00	15.12.16
170	WORM AS PER DRG. 3-M-08D05-1739	NO	1.000	1.00	15.12.16
180	SPUR GEAR AS PER DRG. 4-M-08D05-08830-01	NO	1.000	1.00	15.12.16
190	SPUR GEAR AS PER DRG. 4-M-08D05-8995	NO	1.000	1.00	15.12.16
200	LEAD SCREW II AS PER DRG. 4-M-08B02-2443(LEAD II - L1 = 1981, L = 2074) NOTE: ITEM 190 AND ITEM 200 ARE MATTING COMPONENTS.	NO	1.000	1.00	15.12.16
210	LEAD SCREW NUT AS PER DRG. 3-M-08B02-1240	NO	1.000	1.00	15.12.16
220	LONGITUDINAL SCREW AS PER DRG. 3-M-08B02-1015. NOTE: ITEM 210 AND ITEM 220 ARE MATTING COMPONENTS.	NO	2.000	2.00	15.12.16
230	BOX NUT AS PER DRG. 4-M-08B02-09331	NO	1.000	1.00	15.12.16
240	CURVIC COUPLING AS PER DRG. 2-M-08F05-05518 NOTE: ITEM 230 AND ITEM 240 ARE MATTING COMPONENTS.	NO	1.000	1.00	15.12.16

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 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

MANAG. PURCHASE
 (FOSSIL BOILERS)
 Sr Manager / Purchase
 MM / RM / CP & SP

BHEL, TRICHY - 620 014



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Page
3/4

2661600403 / 20.09.2016

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CURVIC COUPLING AS PER DRG.
2-M-08F05-05519.

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 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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For BHARAT HEAVY ELECTRICALS LIMITED

V. CHELLIAH
Sr. Manager / Purchase
MMO P&M / BOILERS
BHEL, TIRUCHIRAPALLI



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Page
4/4

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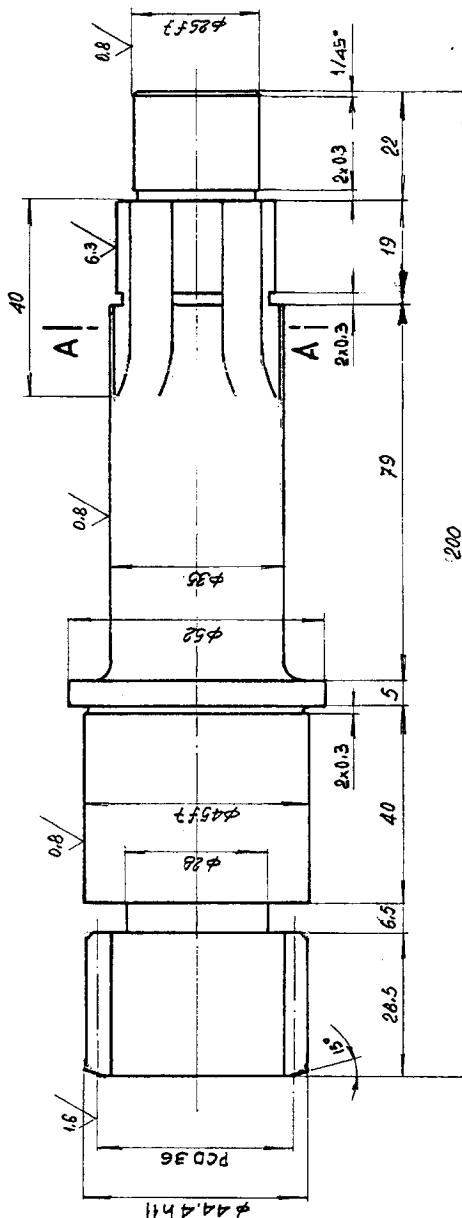
23505

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For BHARAT HEAVY ELECTRICALS LIMITED


V. CHELLIAH
Sr Manager / Purchase
MM / RM / CP & CO
Yours faithfully,

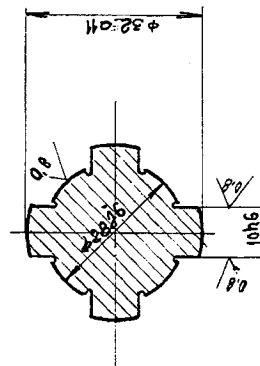
63 / 16 / 08



200

NO. OF TEETH	12
MODULE	3
PRESSURE ANGLE	20°
CORRECTION FACTOR	+0.4
WIDTH ACROSS 2 TEETH	14.608 ±0.033
QUALITY & TOL. ZONE	9E DIN 3967
MATING GEAR NO. OF TEETH	RACK
MATING GEAR DRG.	
CENTRE DISTANCE	

HEAT TREATED TO HRc 22 ±2

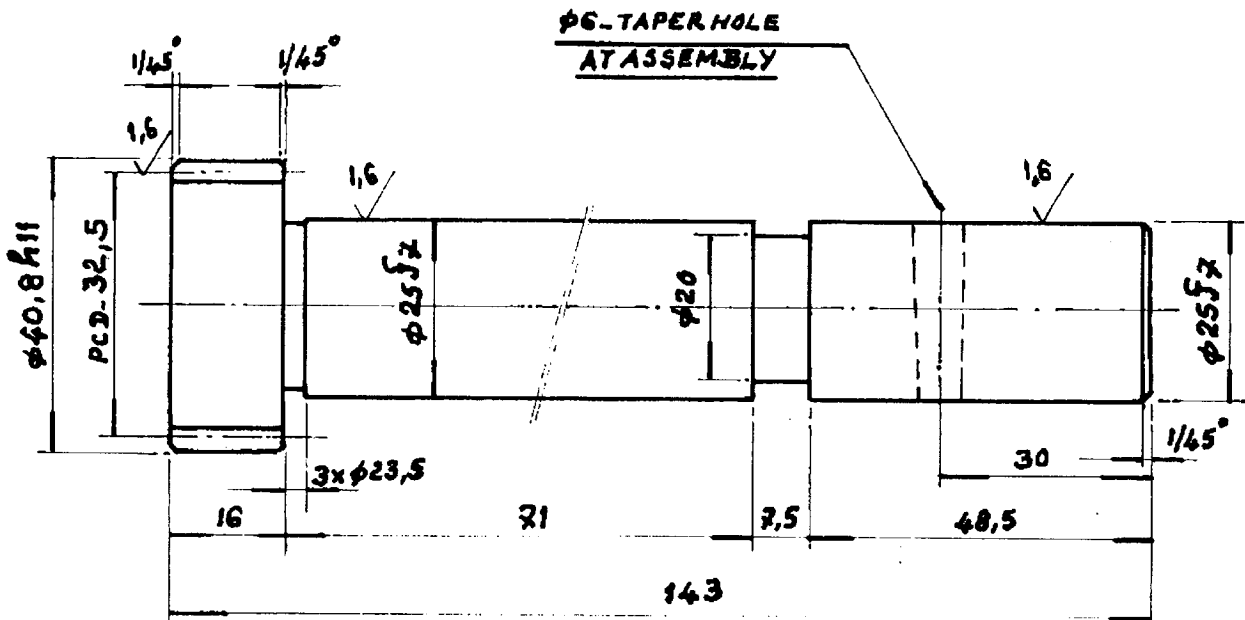


SECTION A-A

NO. OF PIECES		DESCRIPTION		SEMI PRODUCT	FINAL MATERIAL	45CB	15:7283	0.M.08d.0370	ITEM NO.
REMARKS		G. RAJU							
SCALE	DRAWN	CHECKED	APPROVED	STDS. OFFICER	DATE				
1:1									
REFERENCE		A865002							
ALTERATIONS		DATE		SIGNATURE		ALTERATION INDEX			
MACHINE: TURRET LATHE		TYPE: L 22 JP		INV. NO.		05			
TITLE:		DRAWING NO:		3-M-08d-1748					
PIONION SHAFT 12T/444									
(APRON) (SHAFT III)									
NO. OF SHEETS:									

3,2 / 1,6

$\phi 25 f7$	-0,020
	-0,041
$\phi 40,8$	-0,000
$h11$	-0,160

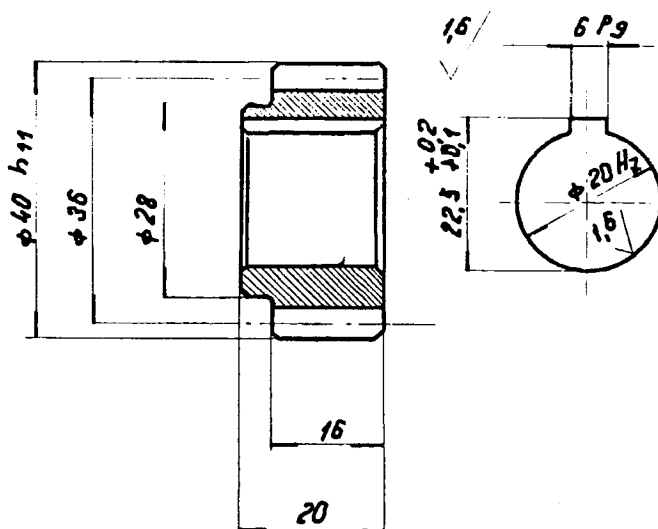


NO. OF TEETH 13
 MODULE 2,5
 PRESSURE ANGLE 20°
 WIDTH ACROSS 2 TEETH 12,655
 QUALITY & TOL. ZONE 9c DIN 3962
 MATING GEAR NO. OF TEETH 59
 MATING GEAR DRG. NO. 4.M.08d-8830
 CENTRE DISTANCE 91
 CORRECTION FACTOR +0,66

NO. OF PIECES		DESCRIPTION		SMI-PRODUCT	FINAL MATERIAL	INITIAL MATERIAL	SCRAP SORT	NET wt (kg)	GROSS wt (kg)	DRAWING NO.	ITEM NO.
					45 CB BM-C45	15:7283				D.M.-08d-0370	9
REMARKS						TOTAL NET wt (kg)					
SCALE	DRAWN BY	CHECKED BY			REFERENCE	ALTERATIONS		DATE	SIGNATURE	ALTERATION INDEX	
1:1											
	APPROVED BY	STDS. OFFICER									
	DATE	1-3-21									
MACHINE		TURRET LATHE				TYPE		L22/TP			
TITLE		PINION SHAFT				DRAWING NO.		4.M.-08d-6890			
TIRUCHY		13T/phi 40,8				NO. OF SHEETS		SHEET No 1			

32/ 16/

$\phi 20 H_7$	+0,021
	+0,000
$\phi 40 h_{11}$	-0,000
	-0,160
6 P ₉	-0,012
	-0,042



NO. OF TEETH	18
MODULE	2
PR. ANGLE	20°
WIDTH ACROSS 2 TEETH	15,285 -0,063
TOLERANCE ZONE	9e DIN 3367
MATING GEAR NO. OF TEETH	60
MATING GEAR DRG. NO.	4-M-08d-8995
CENTRE DISTANCE	78

CHAMFERS ARE 0,5/45°

45 CB 15: 7283

NO. OF PIECES		DESCRIPTION		SEMI PRODUCT	FINAL MATERIAL	INITIAL MATERIAL	SCRAP SORT	NET WT	GROSS WT	DRAWING NO.	ITEM NO.
					BM.C-45					0.M.08d-0370	26
REMARKS											
SCALE	DRAWN	REFERENCE			TOTAL NET wt (kg)						
1:1	CHECKED				ALTERATIONS						
	APPROVED				DATE						
	STDS. OFFICER				SIGNATURE						
	DATE	28.1.69			ALTERATION INDEX						
MACHINE :		TURRET LATHE				TYPE :		L 22 TP		INV. NO.	
TITLE :		SPUR GEAR $\phi 40 \times 18_T$				DRAWING NO. :		05		4-M-08d-4090	
		(SQ: TURRET SADDLE) D.124502				NO. OF SHEETS				SHEET NO :	

Technical drawing of a mechanical part, likely a bearing housing, showing a cross-section with dimensions and tolerances.

Top View Dimensions:

- Overall width: 45
- Distance from center to outer edge: 23
- Distance from center to inner edge: 10
- Inner radius: 10
- Inner diameter: $\phi 30$
- Outer diameter: $\phi 40h7$
- Inner hole diameter: $\phi 22H7$
- Inner hole tolerance: $+0.021$ to $+0.000$
- Inner hole tolerance: -0.000 to -0.160

Side View Dimensions:

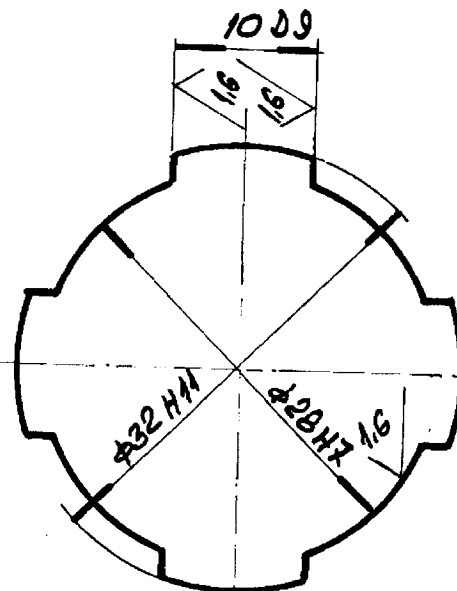
- Overall height: 40
- Distance from center to outer edge: 20
- Distance from center to inner edge: 10
- Inner radius: 10
- Inner diameter: $\phi 30$
- Outer diameter: $\phi 40h7$
- Inner hole diameter: $\phi 22H7$
- Inner hole tolerance: $+0.021$ to $+0.000$
- Inner hole tolerance: -0.000 to -0.160

Surface Finish:

- Surface finish symbol: $\sqrt{1.6}$
- Surface finish symbol: $\sqrt{0.8}$

CHAMFER SHARP CORNERS TO 1/45°

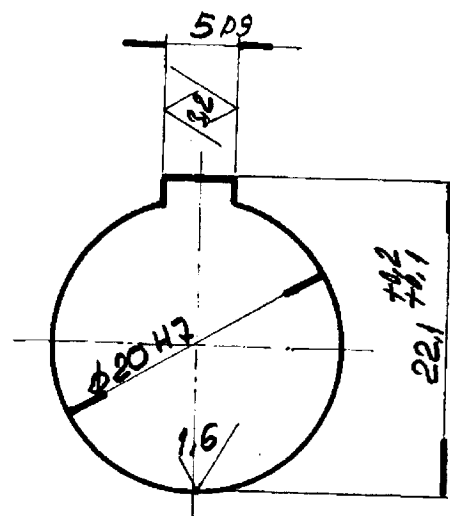
			BH-CQ55				D-M-DBd-0370	12	
NO. OF PIECES	NAME - DIMENSIONS	SEMI-PRODUCT	FINAL MATERIAL	INITIAL MATERIAL	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING NO.	ITEM NO.
REMARKS				TOTAL NET WT (kg)					
SCALE	DRAWN			ALTERATIONS		DATE	SIGNA- TURE	ALTERATION INDEX	
	CHECKED								
2:1	APPROVED								
	STDS. OFFICER	TRANS. COPY NO.							
	22.9.72								
MACHINE: TURRET LATHE				TYPE: L22TP		NEW DRG.			
TITLE:				DRAWING NO.					
18T/# 40									
DOUBLE GEAR									
18T/# 40									
(SNAPT II APRON ASSY)									
						05			
						4-M-DBd-9102			

6,3 / 1,6

CHAMFER SHARP CORNERS TO $1/45^\circ$

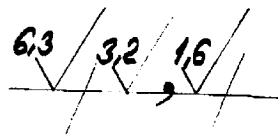
NO. OF PIECES		NAME - DIMENSIONS		SEMI-PRODUCT		FINAL MATERIAL		INITIAL MATERIAL		SCRAP SORT		NET WT(kg)		GROSS WT(kg)		DRAWING NO.		ITEM NO.	
REMARKS										TOTAL NET wt (kg)									
SCALE		DRAWN		CHECKED		APPROVED		STDS. OFFICER		TRANS. COPY NO.		ALTERATIONS		DATE		SIGNATURE		ALTERATION INDEX	
2:1		RAJN. S		<i>[Signature]</i>		<i>[Signature]</i>		22.9.72											
MACHINE: TURRET LATHE										TYPE: L227A									
TITLE:										NEW DRG.									
SPURGEAR 297/662 (SHAFT III - APRON ASSY.)										DRAWING NO. 4-M-08d-9104 ⁰⁵									

6,3 3,2 1,6



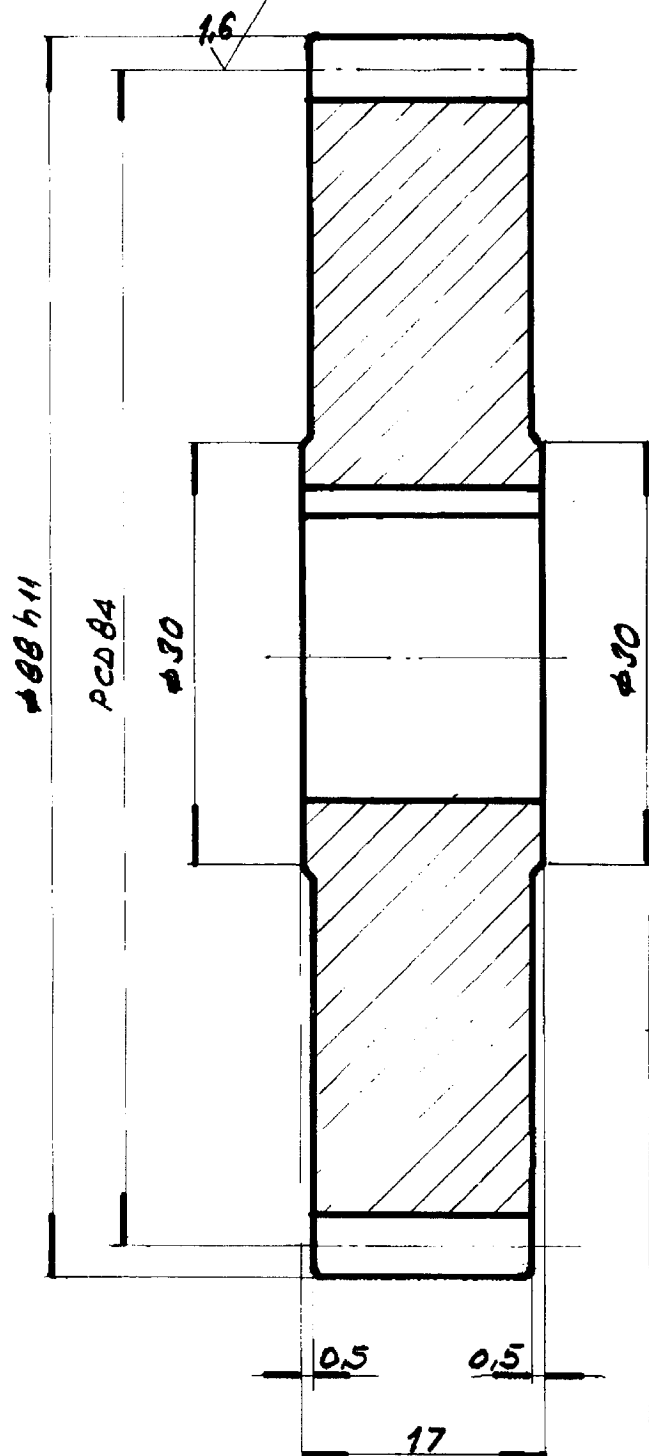
CHAMFER SHARP CORNERS TO 1/45°

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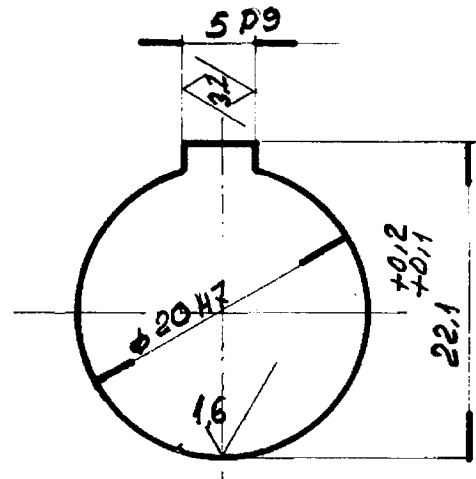
NO OF TEETH	40
MODULE	2
PRESSURE ANGLE	20°
CORRECTION FACTOR	—
WIDTH ACROSS 5 TEETH	27,689 ^{-0.171} _{-0.185}
QUALITY & TOL. ZONE	9C DIN 3967
MATING GEAR NO OF TEETH	30
MATING GEAR DRG. NO	4-M-08d-910B
CENTRE DISTANCE	70

				BM-CQ45						D.M-08d-Q370		15	
NO. OF PIECES		NAME - DIMENSIONS		SEMI-PRODUCT		FINAL MATERIAL		INITIAL MATERIAL		SCRAP SORT		NET Wt (kg)	GROSS wt(kg)
REMARKS										DRAWING NO.		ITEM NO.	
SCALE		DRAWN		RRTU.G.				TOTAL NET wt (kg)					
		CHECKED		<i>[Signature]</i>				ALTERATIONS		DATE		SIGNA- TURE	ALTERATION INDEX
2:1		APPROVED											
		STDS. OFFICER		22.9.72		TRANS. COPY NO.							
				MACHINE TURRET LATHE				TYPE: L22TP				NEW DRG.	
				TITLE:				DRAWING NO.					
 TIRUCHY				SPUR GEAR 407/84				4-M-08d-9106 ⁰⁵					
				(SHAFT III - APRON ASSY)									



$\phi 20H7$	$+0.021$ $+0.000$
$\phi 88h11$	-0.000 -0.220
5P9	-0.012 -0.042

6.3 / 3.2 / 1.6



NO OF TEETH	42
MODULE	2
PRESSURE ANGLE	20°
CORRECTION FACTOR	-
WIDTH ACROSS 5 TEETH	27.745 -0.121 -0.168
QUALITY & TOL. ZONE	9C DIN 3967
MATING GEAR NO. OF TEETH	27
MATING GEAR DRG. NO	4-M-20d-9110
CENTRE DISTANCE	69

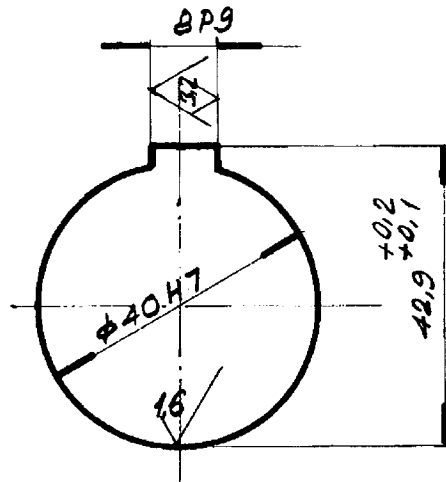
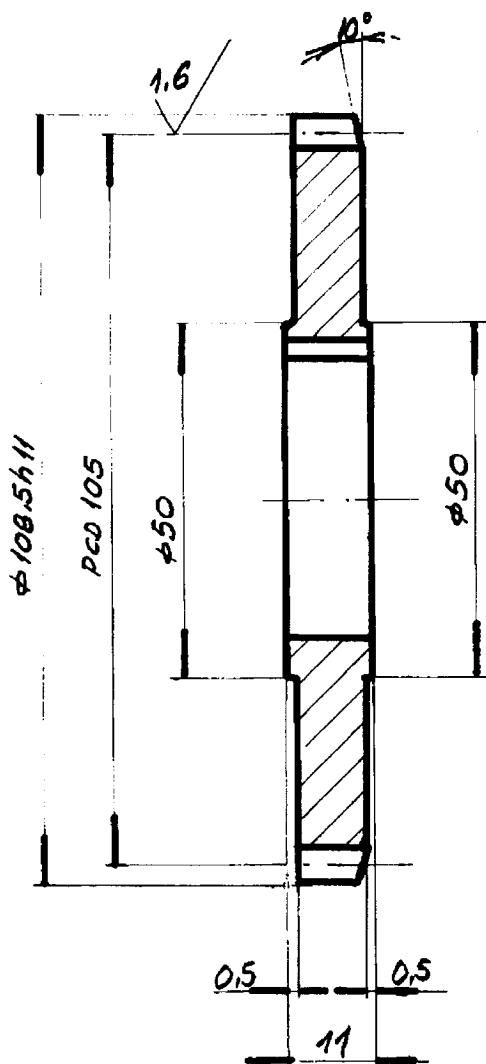
NO. OF PIECES		NAME - DIMENSIONS		SEMI-PRODUCT		FINAL MATERIAL		INITIAL MATERIAL		SCRAP SORT		NET WT (kg)		GROSS WT (kg)		DRAWING NO.		ITEM NO.			
						BM-CQ45										D-M-08d-0370		16			
REMARKS																					
SCALE		DRAWN		CHECKED		APPROVED		STDS. OFFICER		TRANS. COPY NO.		TOTAL NET WT (kg)		ALTERATIONS		DATE		SIGNATURE		ALTERATION INDEX	
2:1		RAJU. G		Handwritten signature																	
22.9.72																					
MACHINE: TURRET LATHE																					
TITLE:																					
SPUR GEAR 42T/φ88																					
(SHAFT 14 APRON ASSY)																					
TYPE: L88TP																					
DRAWING NO.																					
NEW DRG.																					
05																					
4-M-08d-9107																					



TIRUCHY

$\phi 108h11$	-0,000
	-0,220
$\phi 40H7$	+0,025
	+0,000
B P 9	-0,015
	-0,051

6,3 3,2 1,6



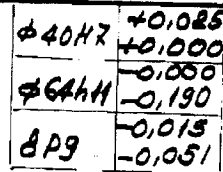
NO OF TEETH	60
MODULE	1,75
PRESSURE ANGLE	20°
CORRECTION FACTOR	—
WIDTH ACROSS TEETH	35,051 ^{-8,158} _{-8,210}
QUALITY & TOL. ZONE	9C DIN 3967
MATING GEAR NO OF TEETH	20
MATING GEAR DRG. NO.	4-M-08d-9105
CENTRE DISTANCE	70

CHAMFER SHARP CORNERS TO 1/45°

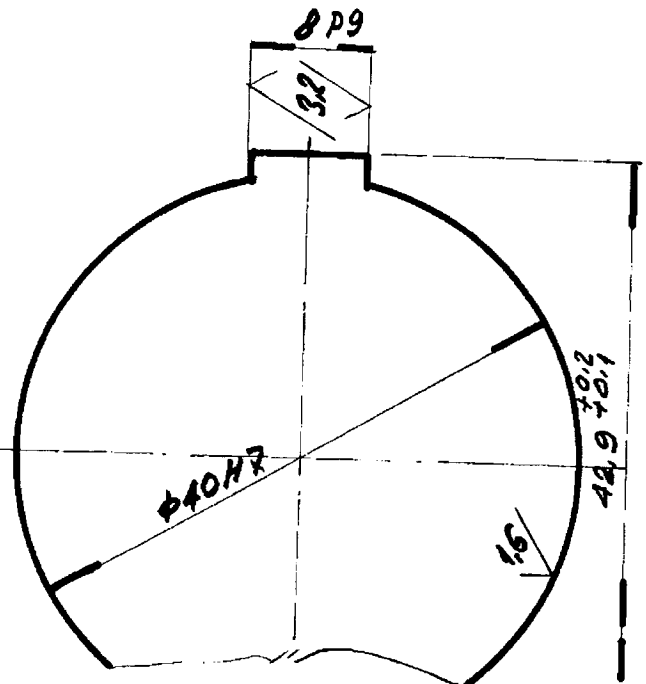
NO. OF PIECES		NAME - DIMENSIONS		SEMI-PRODUCT	FINAL MATERIAL	INITIAL MATERIAL	SCRAP SORT	NET wt (kg)	GROSS wt (kg)	DRAWING NO.	ITEM NO.
					BM.CQ 45					0-M-08d-0370	17
REMARKS						TOTAL NET wt (kg)					
SCALE	DRAWN	RAJU.G.				ALTERATIONS		DATE	SIGNATURE	ALTERATION INDEX	
	CHECKED	K. S. S. S.									
1:1	APPROVED										
	STDS. OFFICER	22.9.72									
MACHINE: TURRET LATHE.						TYPE: L 22 TP		NEW DRG.			
TITLE:						DRAWING NO.					
SPUR GEAR 60T/108,5								4-M-08d-9108 ⁰⁵			
(SHAFT IV APRON ASSY)											



TIRUCHY



6.3 3.2 1.6

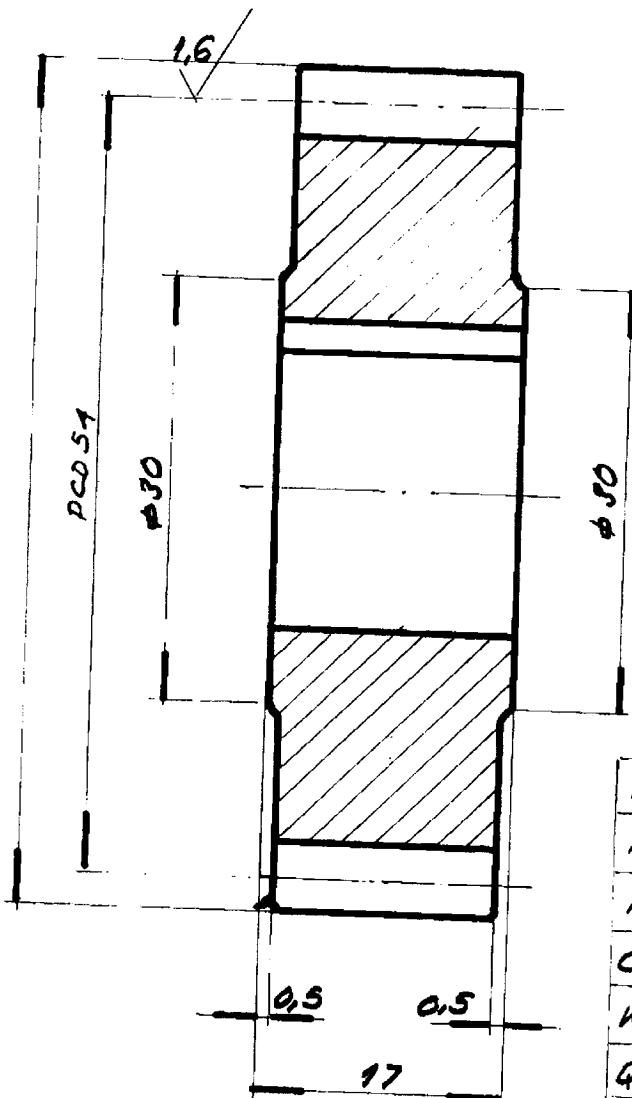


CHAMFER SHARP CORNERS TO 1/45°

			B.M.-C955			O-M-08d-0370	18		
NO. OF PIECES	NAME - DIMENSIONS	SEMI-PRODUCT	FINAL MATERIAL	INITIAL MATERIAL	SCRAP SORT	NET Wt.(kg)	GROSS wt(kg)	DRAWING NO.	ITEM NO.
						TOTAL NET WT (KG)			
REMARKS						ALTERATIONS	DATE	SIGNATURE	ALTERNATION INDEX
SCALE DRAWN RAYU.G									
CHECKED [Signature]									
APPROVED 2:1 [Signature]									
STDS. OFFICER									
22.9.72									
MACHINE: TURRET LATHE						TYPE: L22 TP			
TITLE:						DRAWING NO.			
TIRUCHY						NEW DRG.			
SPUR GEAR 307/464 (SHAFT IV AARON ASSY)						4-M-08d- ⁰⁵ -9109			

$\phi 20H7$	$+0.021$ $+0.000$
5P9	-0.012 -0.042
$\phi 58H11$	-0.000 -0.190

6.3 / 3.2 / 1.6

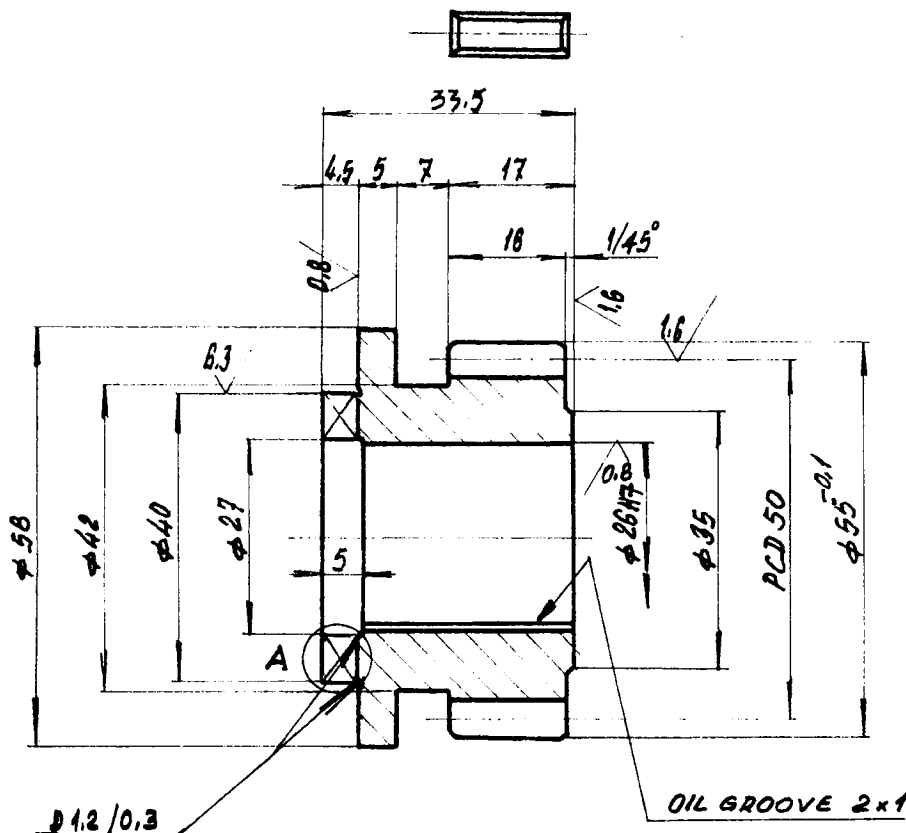


NO OF TEETH	27
MODULE	2
PRESSURE ANGLE	20°
CORRECTION FACTOR	-
WIDTH ACROSS 4 TEETH	21.421 -0.141 -0.188
QUALITY & TOL ZONE	9c DIN 3967
MATING GEAR NO OF TEETH	42
MATING GEAR DRG NO	4-M-08d-9107
CENTRE DISTANCE	69

CHAMFER SHARP CORNERS TO $1/45^\circ$

NO. OF PIECES		NAME - DIMENSIONS		SEMI-PRODUCT		FINAL MATERIAL		INITIAL MATERIAL		SCRAP SORT		NET WT (kg)		GROSS WT (kg)		DRAWING NO.		ITEM NO.			
						8M-CR55										0-M-08d-0370		19			
REMARKS																					
SCALE		DRAWN		CHECKED		APPROVED		STDS. OFFICER		TRANS. COPY NO.		TOTAL NET WT (kg)		ALTERATIONS		DATE		SIGNATURE		ALTERATION INDEX	
2:1		RAJUS		Handesany																	
22-9-72 MACHINE: TURRET LATHE TITLE: SPUR GEAR 27T/2 (SWIFT V APRON ASSY) TYPE: L 22 TP DRAWING NO. 4-M-08d-9110 NEW DRG. 05																					
TIRUCHY																					

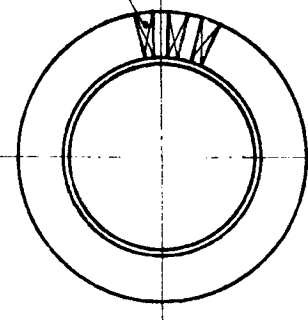




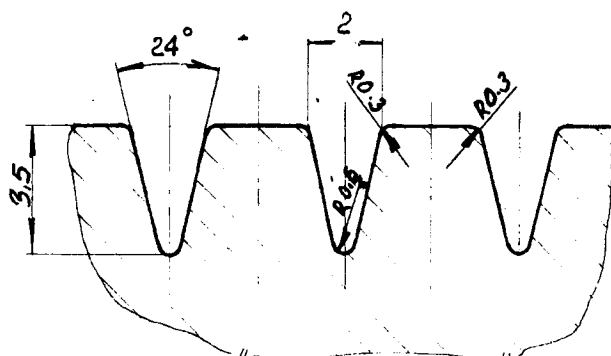
6.3 1.6 0.8

φ26 H7 +0.021
+0.000

27 TEETH



DETAIL A



NO. OF TEETH	20
MODULE	2.5
PRESSURE ANGLE	20°
CORRECTION FACTOR	—
WIDTH ACROSS 3 TEETH	19.151 ^{-0.063} _{-0.103}
QUALITY & TOL. ZONE	9e DIN 3967
MATING GEAR NO. OF TEETH	59
MATING GEAR DRG. NO.	4-M-08d-8830
CENTRE DISTANCE	98.75

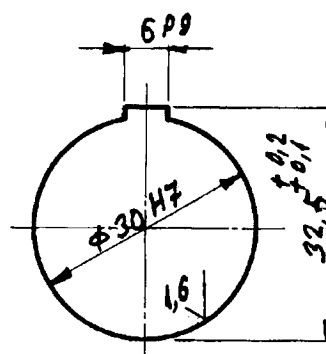
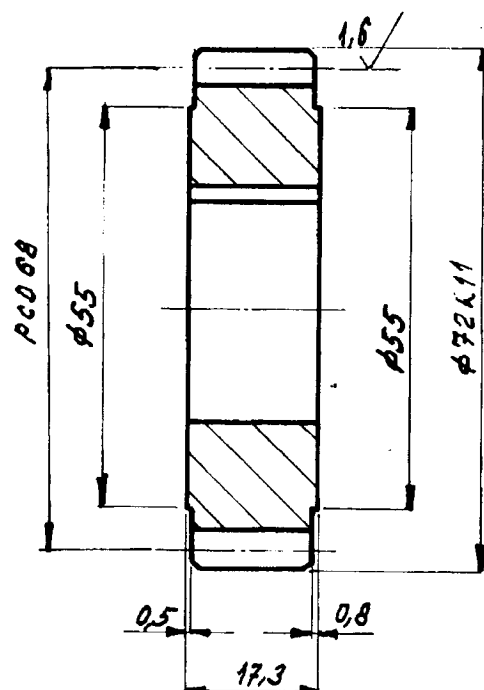
SHARP CORNERS TO BE CHAMFERED 1/45°

NO. OF PIECES		DESCRIPTION		SEMI PRODUCT	FINAL MATERIAL	INITIAL MATERIAL	SCRAP SORT	NET WT	GROSS WT	DRAWING NO.	ITEM NO.
					BM-CQ55					D.M-08d-0370	22
REMARKS				TOTAL NET wt (kg)							
SCALE	DRAWN	CHECKED		REFERENCE	ALTERATIONS		DATE		SIGNATURE	ALTERATION INDEX	
1:1		F. Raju		DB05600							
5:1		APPROVED									
		STDS. OFFICER									
		DATE		30.1.69							
MACHINE: TURRET LATHE				TYPE: L 22 TP		INV. NO.					
TITLE:				DRAWING NO:		05					
CLUTCH GEAR 20T/55				4-M-08d-4114							
(APRON) (SHAFT II)											
NO. OF SHEETS				SHEET NO:							



32/16

$\phi 72H11$	-0.120
	-0.000
$\phi 30H7$	+0.021
	+0.000
6P9	-0.012
	-0.042

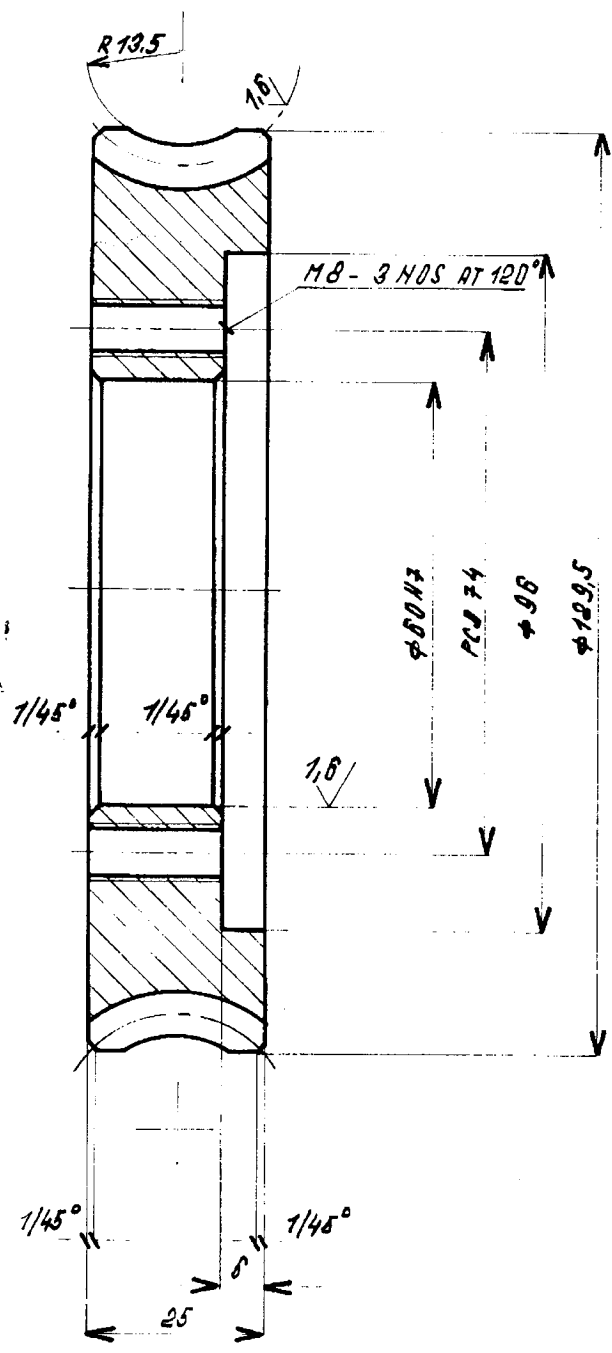


NO OF TEETH	34
MODULE	2
PRESSURE ANGLE	20°
CORRECTION FACTOR	-
WIDTH ACROSS 5 TEETH	27.521
QUALITY & TOL. ZONE	9c DIN 3967
MATING GEAR	NO OF TEETH 60 DRG NO. 4-M-08d-4113
CENTRE DISTANCE	94

CHAMFER SHARP CORNERS TO 1/45°

NO. OF PIECES		NAME - DIMENSIONS		SEMI-PRODUCT	FINAL MATERIAL	INITIAL MATERIAL	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING NO.	ITEM NO.
					BM-CQ45					0-M-08d-0370	25
REMARKS						TOTAL NET WT (kg)					
SCALE	DRAWN	 28/8/72				ALTERATIONS		DATE	SIGNATURE	ALTERATION INDEX	
1:1	CHECKED										
	APPROVED										
	STDS. OFFICER										
DATE		28/8/72				TRANS. COPY NO.					
MACHINE: TURRETLATHE		TITLE:				TYPE: L22 TP		INV NO.			
TIRUCHY		SPURGEAR 34T/72				DRAWING NO.		4-M-08d-8996 ⁰⁵			
		[SHAFT VIII] - APRON ASSY									

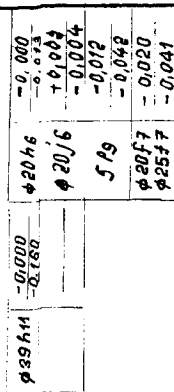
32 / 18



± 0.017	$+0.030$
	$+0.000$

NO OF TEETH	40
MODULE	3
PRESSURE ANGLE	20°
HELIX ANGLE	5°12'
HAND OF HELIX	L.H.
ADDENDUM	6.50
MATING WORM NO OF STARTS	SINGLE
MATING GEAR Dwg NO.	S. M. Dgd. 1739
CENTRE DISTANCE	78.5

NO. OF PIECES		DESCRIPTION		SEMI-PRODUCT	FINAL MATERIAL	INITIAL MATERIAL	SCRAP SORT	NET wt(kg)	GROSS wt(kg)	DRAWING NO.	ITEM NO.
					BN-CA3					0-M-08d-0970 21	
REMARKS											
SCALE	DRAWN BY	CHECKED BY		APPROVED BY		STDS. OFFICER		DATE		REFERENCE	
1:1								19-12-1970		05	
MACHINE						TYPE					
TURRET LATHE						L 22 TP					
TITLE						DRAWING NO.					
WORM GEAR 40T/129.5						05					
(APRON)						4-M-08d-6591					
F 659280						NO. OF SHEETS					
TIRUCHY						SHEET NO 1					

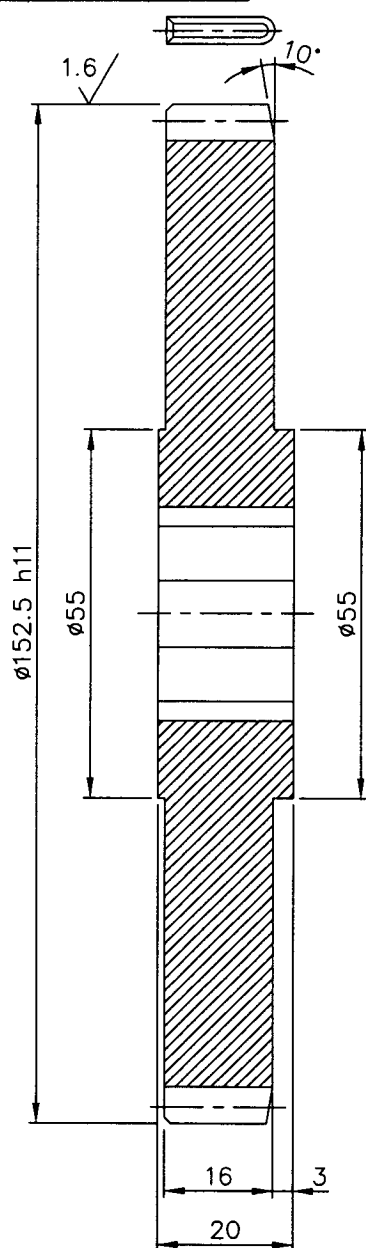


NO. OF STAIRS	SINGLE
MODULE	3
PR. HOLE	20°
LEAD ANGLE	5° 12'
HAND OF HELIX	L.H.
TOLERANCE ZONE	—
MATING GEAR NO. OF TEETH	40 T
" " DRG. NO.	4-N-084-6581
CENTRE DISTANCE	16.5

		MACHINE: TURBIT LATHE TITLE:		TYPE: L 22 TP DRAWING NO.:		INV. NO.:	
NO. OF PIECES		DESCRIPTION		SEMI PRODUCT		INITIAL MATERIAL	
REMARKS		SCALE		REFERENCE		TOTAL NET WT (Lb)	
1:1		CHECKED <i>Handwritten signature</i>		APPROVED		ALTERATIONS	
STDS. OFFICER		DATE: 28.1.59		DATE		GATE	
SIGNATURE		YURE		INDEX		SIGNA- TURE	
NET WT		GROSS WT		DRAWING NO.		ITEM NO.	
45CB IS:7283		BM-CH-1		Q.M. 08d-0370		5	

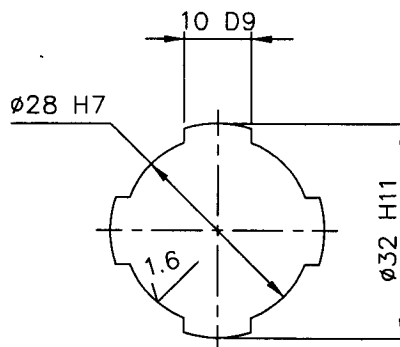
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ALL DIMENSIONS ARE IN MM



ø28 H7	+0.021 +0.000	ø152.5h11	-0.000 -0.250
ø32 H11	+0.250 +0.000	10 D9	+0.076 +0.040

3.2/1.6/



NOTE: -

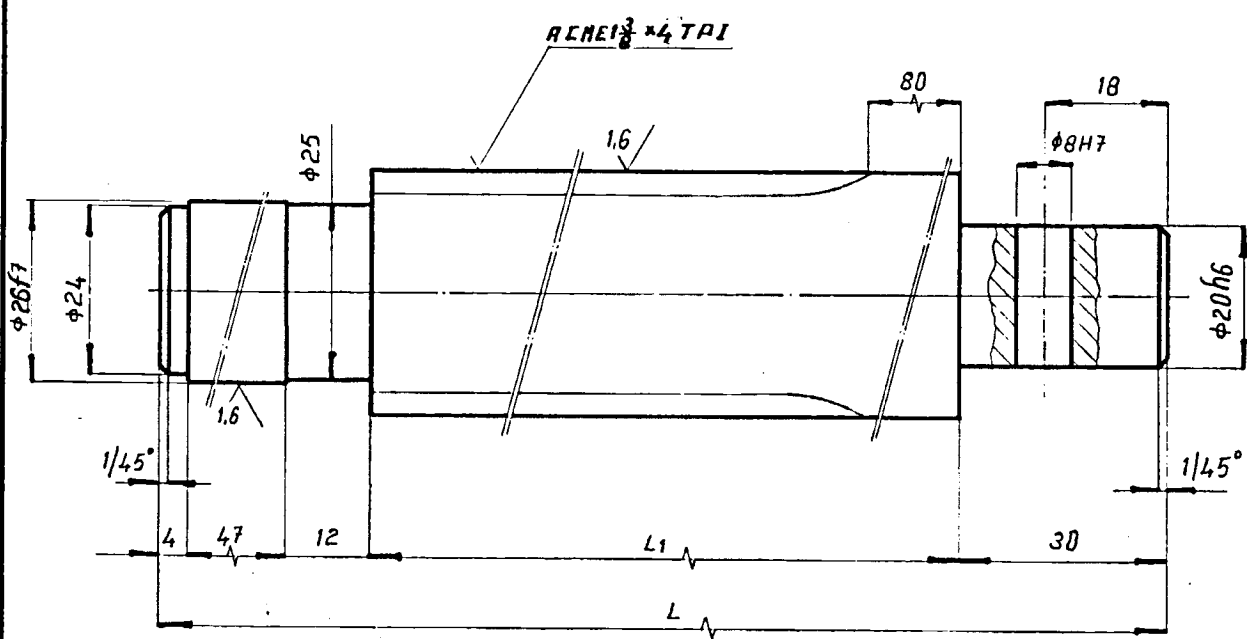
CHAMFER CORNERS FOR 1/45°

No. OF TEETH	59
MODULE	2.5
PRESSURE ANGLE	20°
WIDTH ACROSS 7 TEETH	50.0377 -0.075 -0.132
CORRECTION FACTOR	-
QLTY.&TOL.ZONE	9c DIN 3967
MATING GEAR NO.OF TEETH	20/13
MATING GEAR DRAWING NO:	4.M.08D05.04114 4.M.08D05.05800
CENTRE DISTANCE	98.75/91

ø152.5x20t		45C8	IS: 7283	2.10	O.M.08D5.00370	23
No. of Pieces	DESCRIPTION	MATERIAL	STANDARD	NET.WT.IN KGS.	DRAWING No.	ITEM No.
1	REFERENCE:	ALTERATIONS:	DCN REF	DATE	SIGN.	INDEX
SCALE	DRN	DRG. MODIFIED TO DATE		15.03.12	CSJ	①
1:1	CHD.	R.RAMAMOORTHY				
	APPD.	C.S.JAYASHEELAN				
	DATE	06.06.72/01.08.12				
MACHINE: TURRET LATHE			TYPE: L22TP			
TITLE:			DRAWING No:			REV.
SPUR GEAR ø152.5x59T			4M08D050883001			
(SHAFT VII) (APRON ASSY.)			Sheet No:			No. of Sheets:

3.2 / 1.6

φ 26f7	-0,020
	-0,041
φ 20h6	+0,000
	-0,013
φ 8H7	+0,000
	+0,015



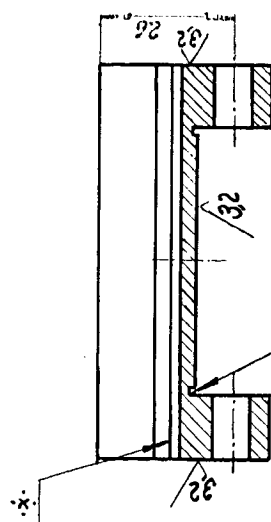
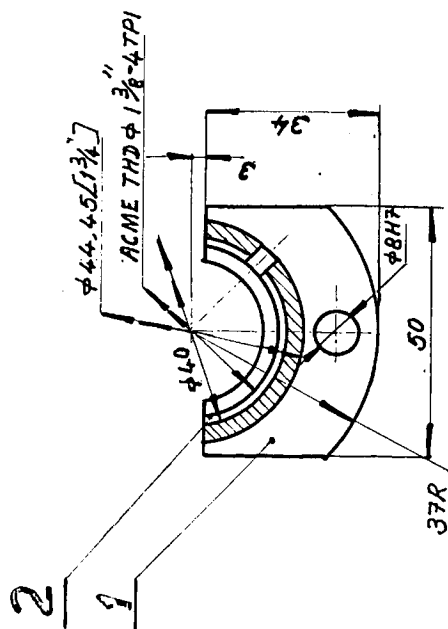
	L ₁	L
LEAD SCREW I	1475	1568
LEAD SCREW II	1981	2074

MATING NUT DRG. NO: 3-M-08b-1240
45 CB 15:7283

NO. OF PIECES		DESCRIPTION		SEMI PRODUCT		FINAL MATERIAL		INITIAL MATERIAL		SCRAP SORT		NET WT		GROSS WT		DRAWING NO.		ITEM NO.					
						BM-C45																	
REMARKS																							
SCALE		DRAWN		CHECKED		APPROVED		STDS. OFFICER		DATE		REFERENCE		TOTAL NET WT (kg)		ALTERATIONS		DATE		SIGNATURE		ALTERATION INDEX	
1:1										12-1-1968													
MACHINE :		CENTRE LATHE		TYPE :		SV18R		INV. NO.				DRAWING NO :		4-M-08b-2443		NO. OF SHEETS		SHEET NO :					
TITLE :		LEAD SCREW																					

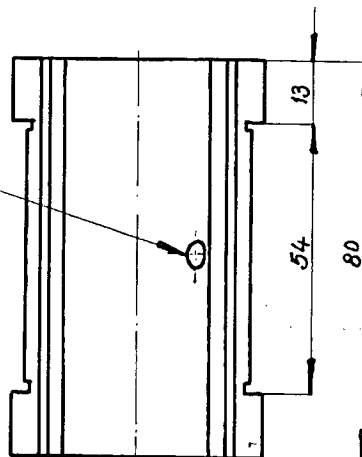


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BHARAT HEAVY ELECTRICALS LIMITED
TIRUCHIRAPPALLI-620 014

~~53/32~~

RELIEF GROOVE A1x0.2
BPS 410560

OIL HOLE 41 TO BE
DRILLED AT ASSY.



NOTE: MATING SCREW DRG. NO: 4-M-086-2443

SCA-111

BRONZE LINING TO BE CAST ON THE SHELL

[illegible]

TITLE : LEAD SCREW NUT 3-M-085-1240⁰²
DRAWING NO.

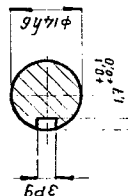
No. OF SHEETS.

3.2 / 1.6



REFERENCE ONLY
NOT FOR MANUFACTURE

Sing: _____ Date: _____



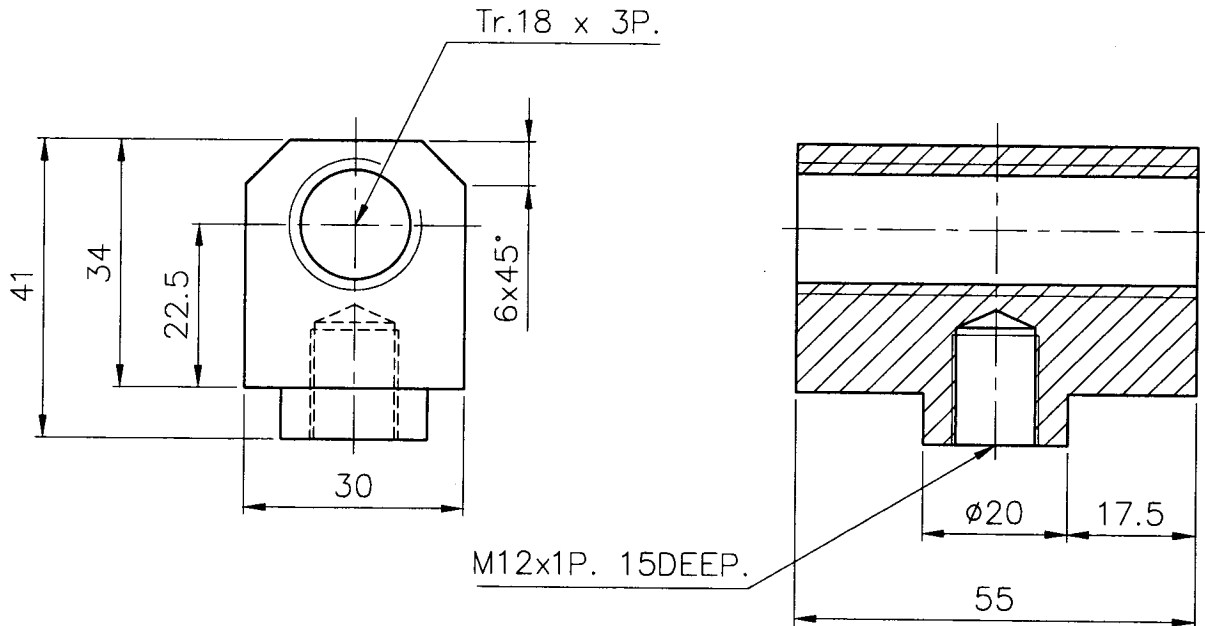
GEAR DATA	
NO. OF TEETH	12
MODULE	2
PITCH CIRCLE DIAMETER	24
PRESSURE ANGLE	20°
CORRECTION FACTOR	
TOLERANCE ZONE	
WIDTH ACROSS TEETH	
NO. OF TEETH ON MATING GEAR	
MATING GEAR DRG NO.	
CENTRE DISTANCE	

NO. OF PIECES	REMARKS	DESCRIPTION	SEMI PRODUCT	FINAL MATERIAL	BM-L45						
					INITIAL MATERIAL	SCRAP	SORT	NET GROSS WT. WT.	DRAWING NO.	ITEM NO.	
					TOTAL NET WT (KG)						
					ALTERATIONS	DATE	SIGNA- TURE	ALTE- RATION			
1:1	CHECKED	<i>P. S. S.</i>	REFERENCE								
	APPROVED	<i>M. S. S.</i>									
	SIGD. OFFICER										
	DATE	12-1-1968									
MACHINE: CENTRE LATHE				TYPE: SV 18 R		INV. NO.					
TITLE:				DRAWING NO:							
				3-M-08 B-1015 ⁰²					NO. OF SHEETS : 1		
LONGITUDINAL SCREW									SHEET NO :		

ALL DIMENSIONS ARE IN MM

REV	DATE	ALTERED
		CHECKED
		APPROVED
ZONE		

3.2/

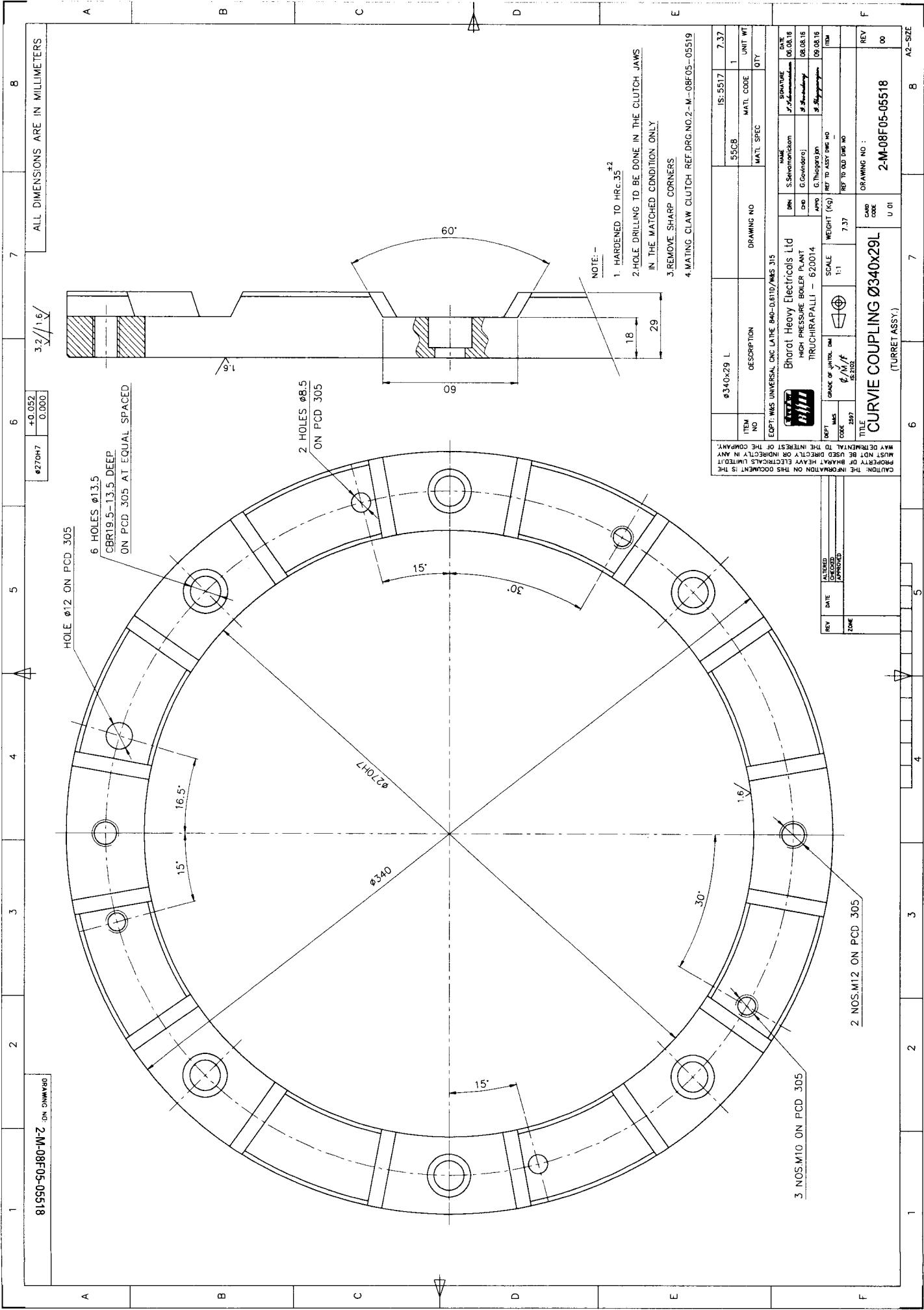


CORNERS TO BE CHAMFER TO 1/45°

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SQ.45 x 55L		IS 28		-	
ITEM NO	DESCRIPTION	DRAWING NO	PCUSn7		1
		MATL CODE		UNIT WT	
		MATL SPEC		QTY	
EQPT: CENTRE LATHE / SV 18 R					
 Bharat Heavy Electricals Ltd HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI - 620014					
DEPT M&S	GRADE OF UNTOL. DIM	SCALE	WEIGHT (Kg)	REF TO ASSY DWG NO	ITEM
CODE 2597	 C/M/F IS: 2102	1:1	-	REF TO OLD DWG NO	
TITLE			CARD CODE	DRAWING NO :	REV
BOX NUT Tr.18x3P			U 01	4M08B0209331	00
(CROSS SLIDE ASSY)					

A4-SIZE



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.

REV	DATE	ALTERED	CREATED	APPROVED	ZONE

ITEM NO	DESCRIPTION	DRAWING NO	IS: 5517	7.37
Ø340x29 L			5508	1
NO			MATL CODE	UNIT WT
			MATL SPEC	QTY

DEPT	M/S	SCALE	WEIGHT (Kg)	DATE
		1:1	7.37	08.08.18
				08.08.18
				08.08.18

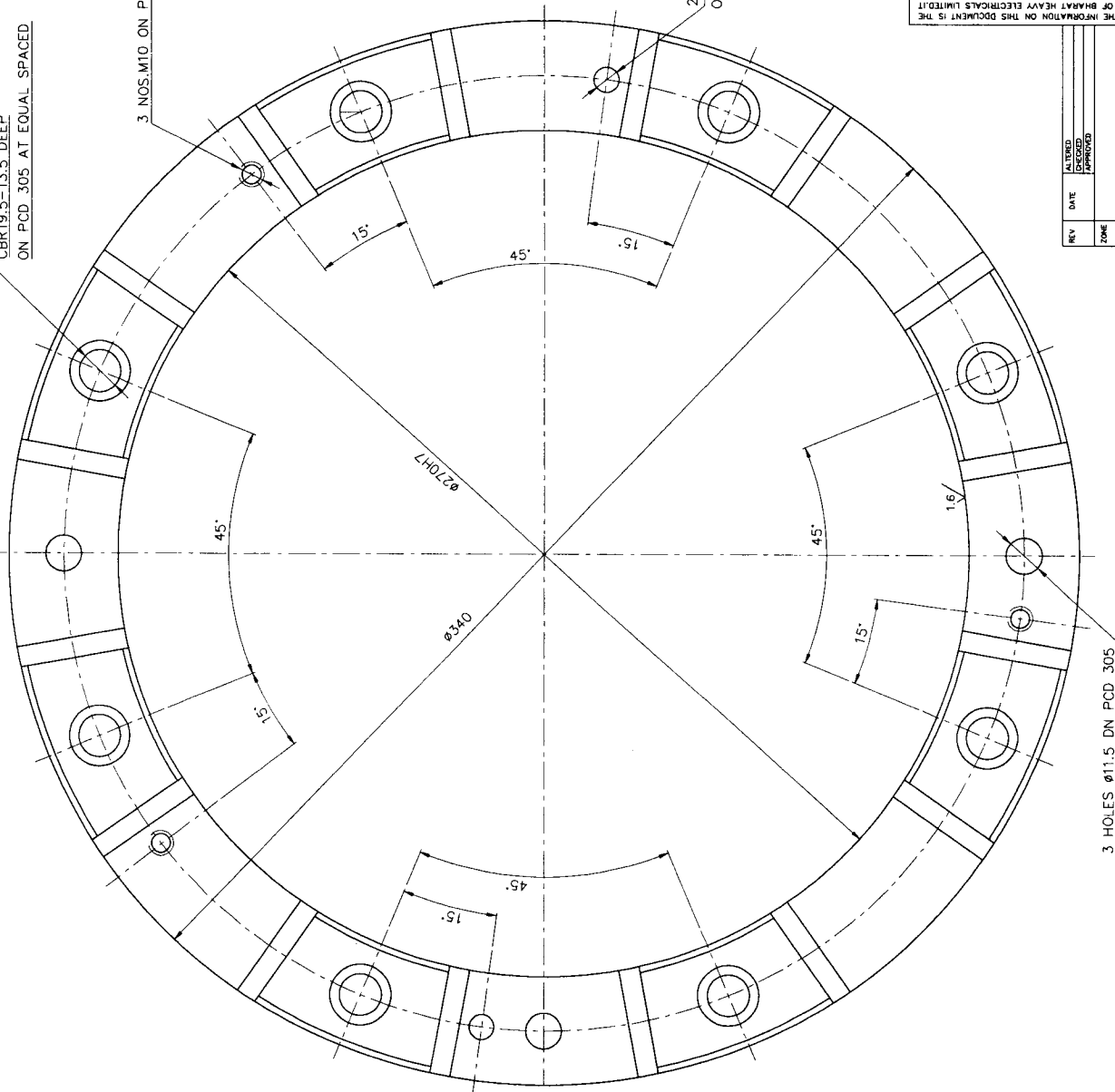
NAME	SIGNATURE	DATE
S. Senthilnathan		08.08.18
G. Gounderaj		08.08.18
G. Thiruganjan		08.08.18

ITEM	REF TO ASSY DRG NO	REF TO OLD DRG NO

TITLE	CAD CODE	U 01
CURVIE COUPLING Ø340x29L (TURRET ASSY)		
DRAWING NO :	2-M-08F05-05518	REV 00

81550-50-F80-W-2 ON DRAWING

ALL DIMENSIONS



4.MATING CLAW CLUTCH REF.DRG.NO.2-M-08F05-05518

8340x28 L ITEM NO.		7.37 UNIT WT	
55CB MATL CODE		1 QTY	
DRAWING NO.		MATL SPEC.	
ECP: M&S UNIVERSAL C&L L&H 840-0.810/M&S 315			
		Bharat Heavy Electricals Ltd HIGH PRESSURE BOILER PLANT THIRUCHIRAPPALLI - 620014	
DPT M&S CODE 2897		DRN S.S. Seawater/Seawater C. Cooling G. Thiragangam REF TO ASST DESK NO. 11 REF TO OLD DWG NO. 11	
SCALE 1:1		WEIGHT (kg) 7.37	
		REV 00	
TITLE CURVIE COUPLING Ø340x28L		DRAWING NO. : 2-M-08F05-05519	
MAY BE USED FOR THE INTEREST OF THE COMPANY MUST NOT BE USED FOR THE INTEREST OF THE COMPANY MUST NOT BE USED FOR THE INTEREST OF THE COMPANY		(TUBEFIT ASSY) U 01	

REV	DATE	ALTERED
		CHECKED
		APPROVED

3 HOLES Ø11.5 DN PCD 305

TILE

CURVIE COUPLING Ø340x28L

Q/M/F

IS. 2102

2597

CODE

DRAWING NO :

2-M-08F05-05519

REV

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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 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, <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