

BHARAT HEAVY ELECTRICALS LIMITED

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429-002/A

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

PHONE :2577629
GRAMS : BHARATELEC
FAX NO: 2520719
E-mail: srchandran@bheltry.co.in
Web:

Enquiry No	Enquiry Date	Due Date for Quotation
2661400639 - 55	11.09.2014	11.10.2014
Please quote Enquiry No, Date and due date in all correspondences. This is only a request for quotation and not an order		

Item	Description	Unit	Quantity	Delivery Quantity	Schedule Date
10	7508A0902000 DOUBLE GEAR AS PER DRG. NO. 3M-08A-09-8845 NOTE : FOR SL.NO. 10 TO 30 ARE MATING COMPONENTS. HENCE THESE ITEMS SHOULD BE PROCURED FROM SINGLE SOURCE ONLY. VENDOR QUALIFYING CRITERIA: ONLY THOSE VENDORS WHO SATISFY THE FOLLOWING CONDITIONS WILL GET QUALIFIED TO PARTICIPATE IN THE TENDER: (1) VENDOR SHOULD HAVE MINIMUM 3 YEAR EXPERIENCE IN THIS FIELD. (2) PREVIOUS PO DETAILS FOR SUPPLYING SIMILAR KIND OF ITEMS SHOULD BE SUBMITTED ALONG WITH OFFER. OTHERWISE OFFER WILL BE REJECTED. (3) COMPANY PROFILE DETAILS HAS TO BE PROVIDED ALONG WITH OFFER. (4) 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.	NO	2.000	2.00	31.10.14
20	7508A0902100 SPUR GEAR AS PER DRG. NO. 3M-08A-09-8846	NO	2.000	2.00	31.10.14
30	7508A0902200 SPUR GEAR AS PER DRG. NO. 3M-08A-09-8847	NO	2.000	2.00	31.10.14
40	7509B0900600 SPUR GEAR AS PER DRG. NO 4M 09B 09 28037 NOTE : FOR SL.NO. 40 AND 50 ARE MATING COMPONENTS. HENCE THESE ITEMS SHOULD BE PROCURED FROM SINGLE SOURCE ONLY.	NO	2.000	2.00	31.10.14
50	7509B0900700	NO	2.000	2.00	31.10.14

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
(FOSSIL BOILERS)
Yours faithfully,

BHARAT HEAVY ELECTRICALS LIMITED

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2661400639 / 11.09.2014

	SPUR GEAR AS PER DRG. NO 4M-09B-09-28039				
60	7509B0901000 SPUR GEAR AS PER DRG. NO. 4M-09B-09-29161-01	NO	2.000	2.00	31.10.14
70	7509B0900800 SPUR GEAR AS PER DRG. NO. 4M-09B-09-29163-01 NOTE : FOR SL.NO. 70 AND 80 ARE MATING COMPONENTS. HENCE THESE ITEMS SHOULD BE PROCURED FROM SINGLE SOURCE ONLY.	NO	2.000	2.00	31.10.14
80	7509B0901100 SPUR GEAR AS PER DRG. NO. 4M-09B-09-29162-01	NO	2.000	2.00	31.10.14
90	7509B0900400 SPUR GEAR AS PER DRG. NO. 4M 09B 09 28040	NO	2.000	2.00	31.10.14
100	7509B0900100 SPUR GEAR AS PER DRG.No. 4M-09B-09-27939 NOTE : FOR SL.NO. 100 AND 110 ARE MATING COMPONENTS. HENCE THESE ITEMS SHOULD BE PROCURED FROM SINGLE SOURCE ONLY.	NO	2.000	2.00	31.10.14
110	7509B0900200 PINION (DIA 73.5 X 27T) (SPEED GEAR BOX) AS PER DRG.No. 4M-09B-09- 27938 PINION AS PER DRG. No. 4M-09B-09-27938	NO	4.000	4.00	31.10.14
120	7509B0900900 SPUR GEAR AS PER DRG. NO. 4M-09B-09-29164-01 NOTE : FOR SL.NO. 120 AND 130 ARE MATING COMPONENTS. HENCE THESE ITEMS SHOULD BE PROCURED FROM SINGLE SOURCE ONLY.	NO	2.000	2.00	31.10.14
130	7509B0901200 SPUR GEAR AS PER DRG. NO. 4M-09B-09-29175-01 SPUR GEAR AS PER DRG. NO. 4M-09B-09-29175-01	NO	2.000	2.00	31.10.14
140	7520C6001700 HELICAL GEAR WHEEL AS PER DRG.NO. 3M-20C-60-12733-01	NO	6.000	6.00	31.10.14

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tenderers who have submitted their offer and who may like to be present for the tender
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Web:

2661400639 / 11.09.2014

HELICAL GEAR WHEEL AS PER DRG. NO.
3M-20C-60-12733-01
NOTE : FOR SL.NO. 140 AND 150 ARE
MATING COMPONENTS. HENCE THESE ITEMS
SHOULD BE PROCURED FROM SINGLE SOURCE
ONLY.

150	7520C6001800 HELICAL PINION AS PER DRG.NO. 4M-20C-60-27860-02 HELICAL PINION AS PER DRG.NO. 4M-20C-60-27860-02	NO	6.000	6.00	31.10.14
160	7508F0701100 SPUR GEAR AS PER DRG. NO. 4M-08F-07-29763 NOTE : FOR SL.NO. 160 AND 170 ARE MATING COMPONENTS. HENCE THESE ITEMS SHOULD BE PROCURED FROM SINGLE SOURCE ONLY.	NO	2.000	2.00	31.10.14
170	7508F0701200 SPUR GEAR AS PER DRG. NO. 4M-08F-07-29762	NO	2.000	2.00	31.10.14
180	7501B2003500 BEVEL GEAR AS PER DRG. NO. 4M-01B-20-26288 NOTE : FOR SL.NO. 180 AND 190 ARE MATING COMPONENTS. HENCE THESE ITEMS SHOULD BE PROCURED FROM SINGLE SOURCE ONLY.	NO	2.000	2.00	31.10.14
190	7501B2003600 BEVEL PINION AS PER DRG. NO. 4M-01B-20-26289	NO	2.000	2.00	31.10.14
200	7507B1000500 SPUR GEAR AS PER DRG. NO. 3M-07B-10-15209	NO	4.000	4.00	31.10.14

General Note:

GENERAL NOTE:

PLEASE SUBMIT YOUR OFFER IN 'TWO PART BID SYSTEM'
AS PER ANNEXURE ENCLOSED.

ENCLOSURES:

ANNEXURE II,III,IV,V,VI,VII & DRAWINGS

Enclosures:

"LD clause has to be confirmed without fail."

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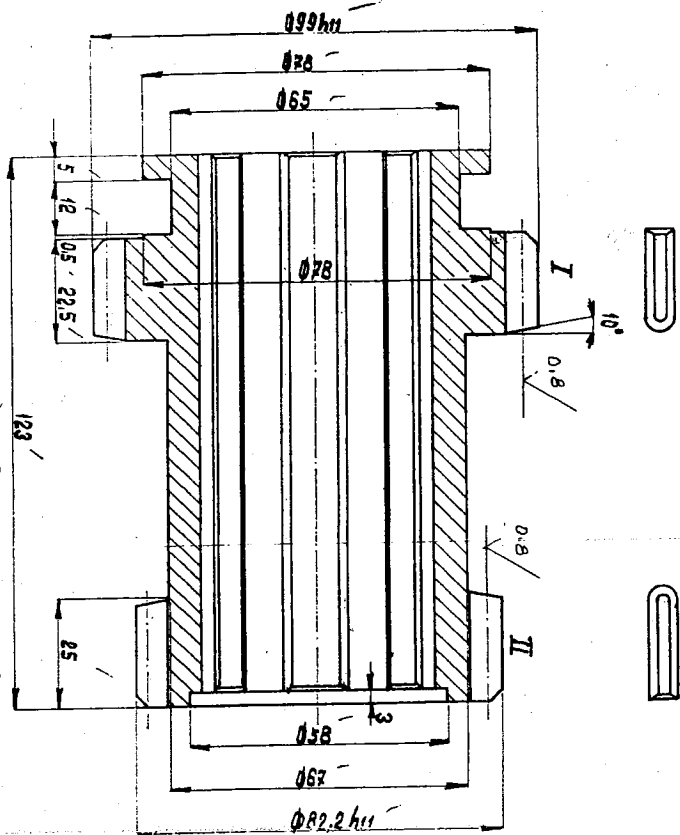
2661400639 / 11.09.2014

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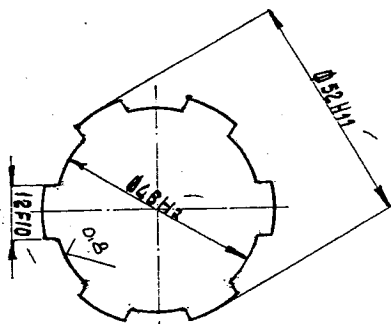
Yours faithfully,
For **BHARAT HEAVY ELECTRICALS LIMITED**

MANAGER / PURCHASE
(FOSSIL BOILERS)
Yours faithfully,

CAUTION
THIS DRAWING IS OUR SOLE PROPERTY AND SHOULD NOT BE USED IN ANY FORM FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN PERMISSION OF BURNHAM HEAVY ELECTRICALS LTD. TORONTO, CANADA.



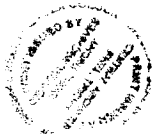
NO. OF TEETH	31	25
MODULE	3	3
PRESSURE ANGLE	20°	20°
WIDTH ACROSS 4 TEETH	32.299 - 0.141	38.458 - 0.141
COARCTION FACTOR	-0.188	0.188
QUALITY & TOL. EDGE	9C DIV 3967	10.2
MATING GEAR NO. OF TEETH	42	48
MATING GEAR DRG. NO.	3-M-085-8846	3-M-085-8847
CENTRE DISTANCE	109.5	109.5



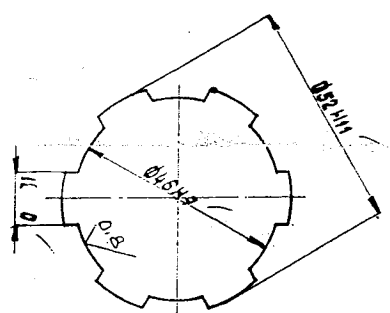
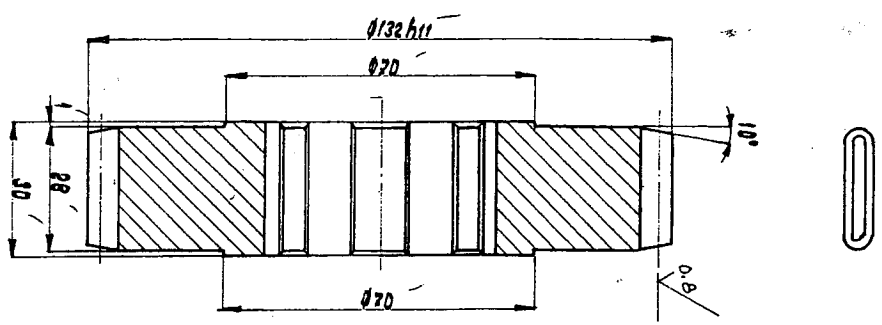
NOTE:-
CHAMFER CORNERS FOR 10°
CASE HARDENED TO HRC 60 ± 2
CASE CARBURISED TO 0.8mm DEPTH.

0.52 H11	+0.198
0.68 H7	+0.025
12F10	+0.000
0.99 H11	+0.018
	+0.085
	-0.000
	-0.220
	-0.000
0.82.2 H11	-0.220

NO. OF REVISIONS	1	DATE	02.08.83
SCALE	1:1	APPROVED	[Signature]
BY	[Signature]	CHECKED	[Signature]
DATE	02.08.83	BY	[Signature]
MACHINE: CENTRE LATHE			
TYPE: DOUBLE GEAR 317/257			
HEAD STOCK ASSY. SHAFT IV			
DRAWING NO. 09		3-M-085-8845	
NO. OF SHEETS 1		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 THE COMPANY. (MAY'S PATENT RIGHTS RESERVED)

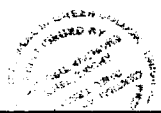


NOTE:-
CHAMFER CORNERS FOR 1/45°
CASE HARDENED TO HRC. 60 ± 2
CASE CARBURISED TO 0.6MM DEPTH.

NO. OF TEETH	42
MODULE	3
PRESSURE ANGLE	20°
WIDTH ACROSS 5 TEETH	41.618 ± 0.158
CORRECTION FACTOR	-
QUALITY & TOL. ZONE	9e DIV 3963
MATING GEAR NO. OF TEETH	31
MATING GEAR DRG. NO.	J.M. 086. 8845
CENTRE DISTANCE	109.5

Ø 52 H11	+0.250
Ø 64 H7	+0.025
12 F10	+0.000
Ø 132 h11	-0.000
	-0.250

NO. OF SHEETS	1
NO. OF MEMBERS	1
SCALE	1:1
CHECKED	APPROVED
DATE	08.08.93
MACHINE	CENTRE LATHE
TITLE	SPUR GEAR 42T/Ø132 (HEAD STOCK ASSY. SHAFTHD)
DRAWING NO.	3.M. 086. 8846
SHEET NO.	09

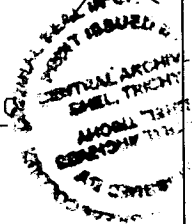
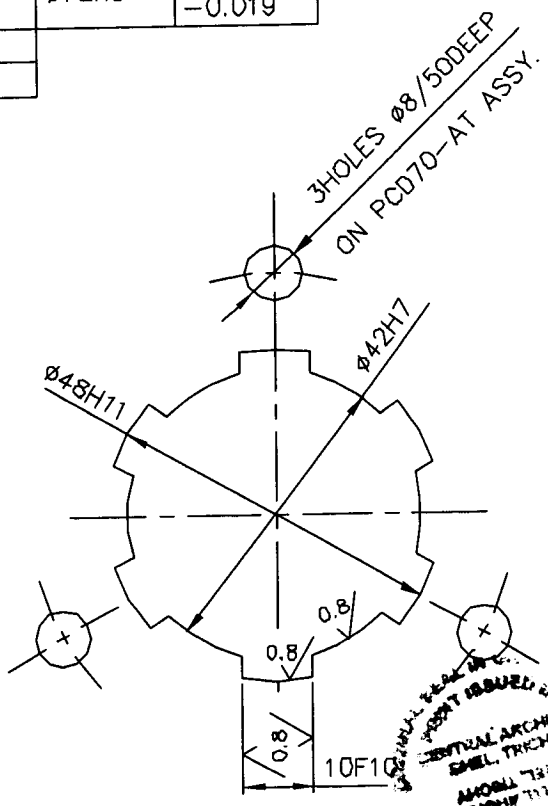
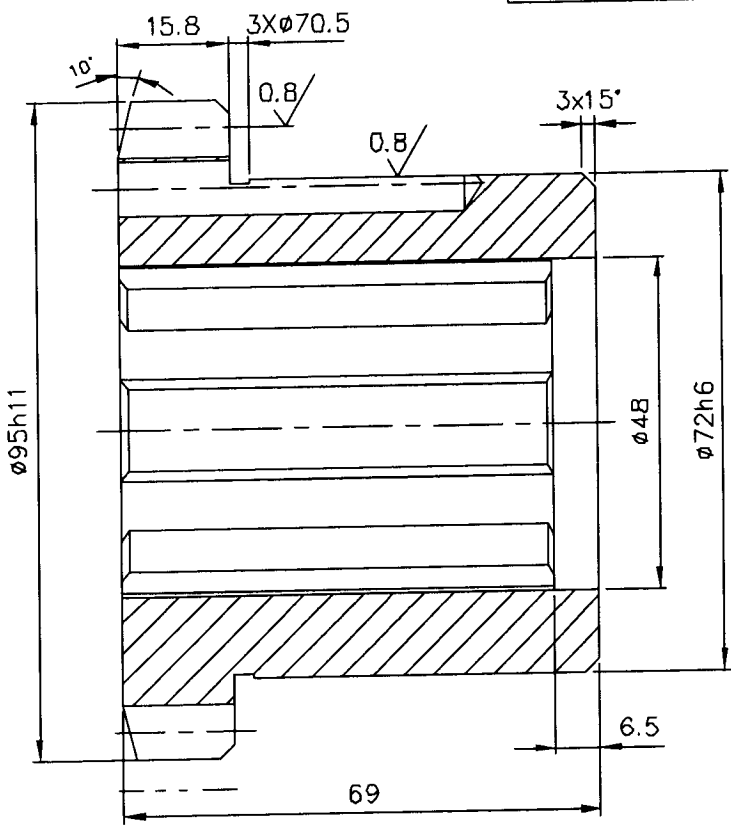


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ALL DIMENSIONS ARE IN MM

∅48H11	+0.160 +0.000	∅95h11	-0.000 -0.220
∅42H7	+0.025 +0.000	∅72h6	-0.000 -0.019
10F10	+0.013 +0.071		

1.6/0.8/✓



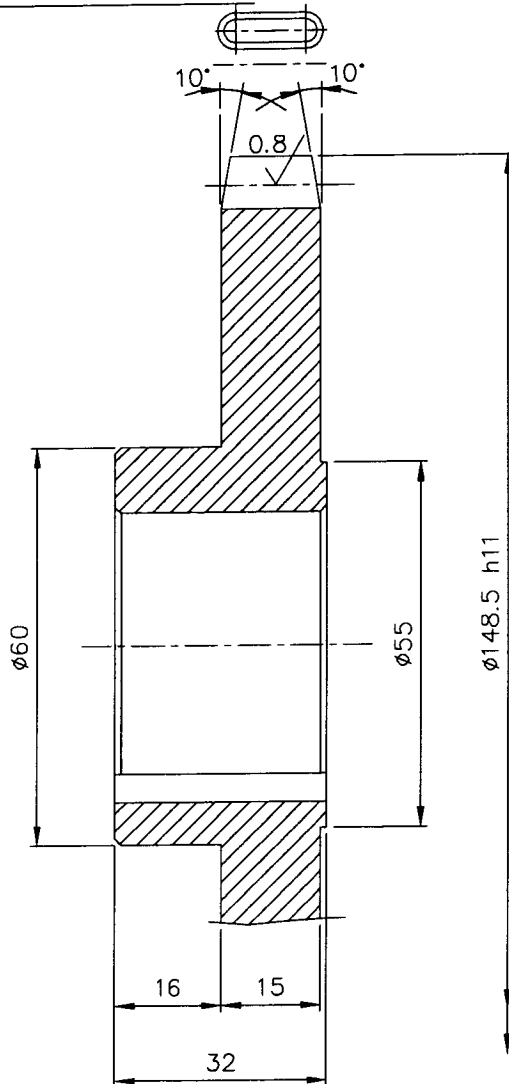
NOTE:
 --- CASE HARDENED TO HRc 58 ±2
 CASE DEPTH 0.8MM
 CHAMFER CORNERS FOR 1/45°

NO.OF TEETH	36
MODULE	2.5
PRESSURE ANGLE	20°
WIDTH ACROSS 5 TEETH	34.4717 -0.063 -0.105
CORRECTION FACTOR	NIL
QLTY.&TOL.ZONE	9e DIN 3967
MATING GEAR NO.OF TEETH	58
MATING GEAR DRAWING NO:	4-M-09B09-28039
CENTRE DISTANCE	116.9

OD 95x69t.	13Ni13Cr3	IS: 4432	1.5				
No of Pieces	DESCRIPTION	MATERIAL	STANDARD	NET.WT.IN KGS.	DRAWING No.	ITEM No.	
	REFERENCE:		ALTERATIONS:	DCN REF	DATE	SIGN.	INDEX
SCALE	DRAWN	G.GOVINDARAJ					
1:1	CHECKED	R.RAMAMOORTHY					
	APPROVED	C.S.JAYASHEELAN					
	DATE	28/08/07					
	MACHINE:	HORIZONTAL MILLING	TYPE:	FGS 50T PLUS			
	TITLE:	SPUR GEAR ∅95x36T. (SPEED GEAR BOX)		DRAWING No:	4M09B0928037		REV.
				Sheet No:		No.of Sheets:	

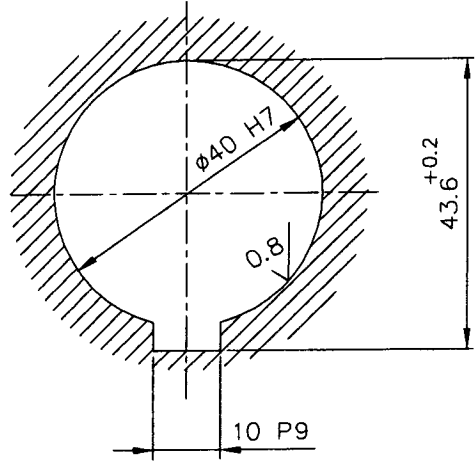
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ALL DIMENSIONS ARE IN MM



ø148.5 h11	-0.000
	-0.250
ø40 H7	+0.025
	+0.000
10 P9	-0.015
	-0.051

1.6/0.8/✓



NOTE: -
 CHAMFER ALL SHARP CORNERS TO 1/45°
 ----- CASE HARDENED TO HRC.50⁺²
 CASE DEPTH 0.8 mm.

NO. OF TEETH	58
MODULE	2.5
PRESSURE ANGLE	20°
WIDTH A/C 7 TEETH	49.49 -0.079 -0.132
QUAL. & TOL ZONE	9e DIN 3967
CORRECTION FACTOR	-0.3
MATING GEAR NO. OF TEETH	36
MATING DRAWING NO:	4-M-09B09-28037
CENTRE DISTANCE	116.9

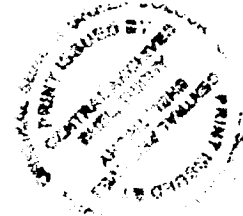
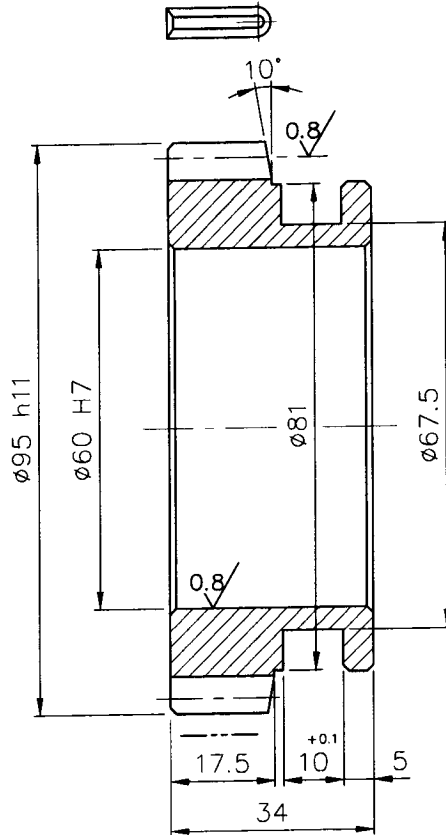
ø149x32t	13Ni 13Cr.3	IS: 4432	2.00				
No. of Pieces	DESCRIPTION	MATERIAL	STANDARD	NET.WT. IN KGS.	DRAWING No.	ITEM No.	
REFERENCE:			ALTERATIONS:	DCN REF	DATE	SIGN.	INDEX
SCALE	DRAWN	P. ALBERT ROSS					
	CHECKED	R. RAMAMOORTHY					
1:1	APPROVED	C.S. JAYASHEELAN					
	DATE	29-08-07					
MACHINE: HORIZONTAL MILLING	TITLE: SPUR GEAR		TYPE: FGS 50T PLUS				
	58T/ø148.5 (SPEED GEAR BOX ASSY.)		DRAWING No: 4M09B0928039				
			Sheet No:		No. of Sheets:		

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ALL DIMENSIONS ARE IN MM

ø95 h11	-0.000 -0.022	ø60 H7	+0.030 0.000
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1.6//0.8/



NOTE: -
 ----- CASE HARDENED TO HRC 50 ±2
 CASE DEPTH 0.8mm
 CHAMFER CORNERS FOR 1/45°

NO. OF TEETH	36
MODULE	2.5
PRESSURE ANGLE	20°
WITH ACROSS 5 TEETH	34.471 ^{-0.158} _{-0.210}
CORRECTION FACTOR	NIL
Q.LTY. & TOL. ZONE	9e DIN 3967
MATING GEAR NO. OF TEETH	58
MATING GEAR DRAWING NO:	4M09B0928039
CENTRE DISTANCE	116.9

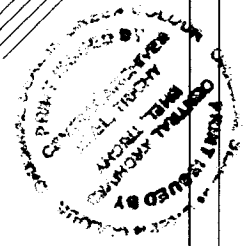
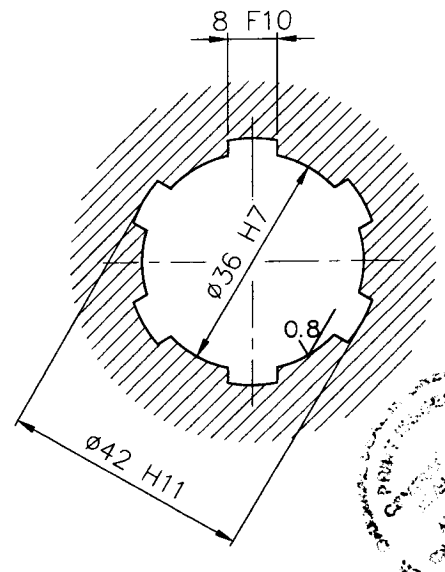
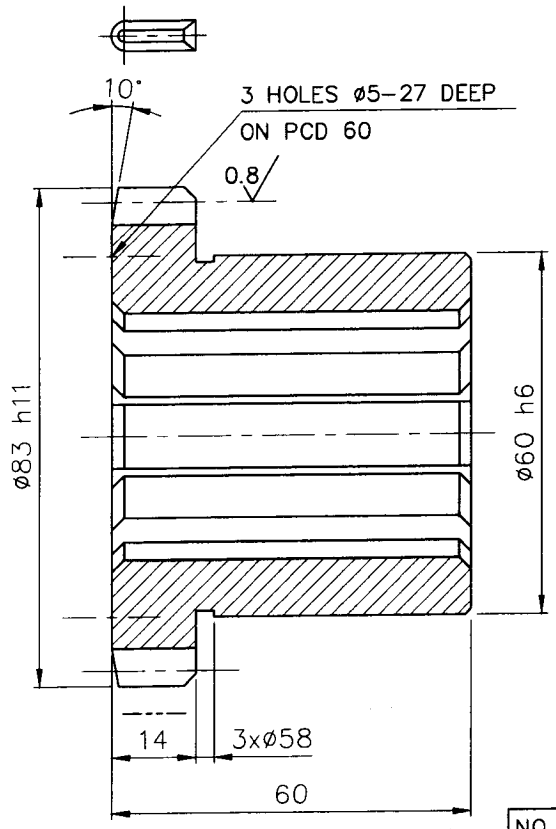
No. of Pieces	ROD ø95x34t		13Ni13Cr3	IS: 4432	0.58	DRAWING No.		ITEM No.
	DESCRIPTION		MATERIAL	STANDARD	NET.WT.IN KGS.	DCN REF	DATE	SIGN.
REFERENCE:		ALTERATIONS:		DCN REF	DATE	SIGN.	INDEX	
SCALE	DRN.	S.Seivamanickam	DRG. MODIFIED TO DATE			15.03.12	CSJ	01
1:1	CHED.	R.Ramamoorthy						
	APPD.	C.S.Jayasheelan						
	DATE	21.12.11'						
MACHINE: HORIZONTAL MILLING				TYPE: FGS-50TPLUS				REV.
TITLE: SPUR GEAR 36Txø95				DRAWING No:				
(SPEED GEAR BOX ASSY.)				4M09B092916101				
				Sheet No:		No. of Sheets:		

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ALL DIMENSIONS ARE IN MM

ø83 h11	-0.000	ø36 H7	+0.025
	-0.220		0.000
ø60 h6	-0.000	ø42 H11	+0.160
	-0.019		0.000
		8 F10	+0.013
			+0.071

1.6/0.8



NOTE: -
 ----- CASE HARDENED TO HRC 58 ±2
 CASE DEPTH 0.8mm
 CHAMFER CORNERS FOR 2/45°

NO. OF TEETH	31
MODULE	2.5
PRESSURE ANGLE	20°
WITH ACROSS 4 TEETH	27.25 ^{-0.070} / _{-0.117}
CORRECTION FACTOR	+0.1
QLTY. & TOL. ZONE	9e DIN 3967
MATING GEAR NO. OF TEETH	63
MATING GEAR DRAWING NO:	4M09B0929162
CENTRE DISTANCE	117

No. of Pieces	ROD ø83x60t	13Ni13Cr3	IS: 4432	0.90			
	DESCRIPTION		MATERIAL	STANDARD	NET.WT. IN KGS.	DRAWING No.	
SCALE	DRN.	S.Selvamanickam	DRG. MODIFIED TO DATE		15.03.12	CSJ	01
	CHE.D.	R.Ramamoorthy					
1:1	APP.D.	C.S.Jayasheelan					
	DATE	21.12.11'					
MACHINE: HORIZONTAL MILLING			TYPE: FGS-50TPLUS				
TITLE: SPUR GEAR 31Txø83 (SPEED GEAR BOX ASSY.)			DRAWING No:		REV.		
			4M09B092916301				
			Sheet No:		No. of Sheets:		

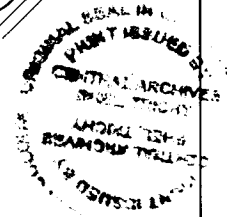
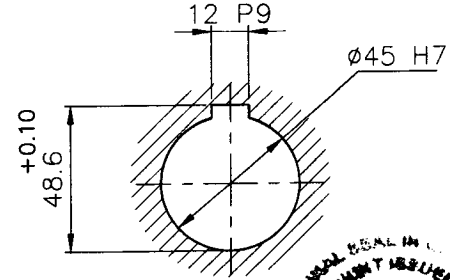
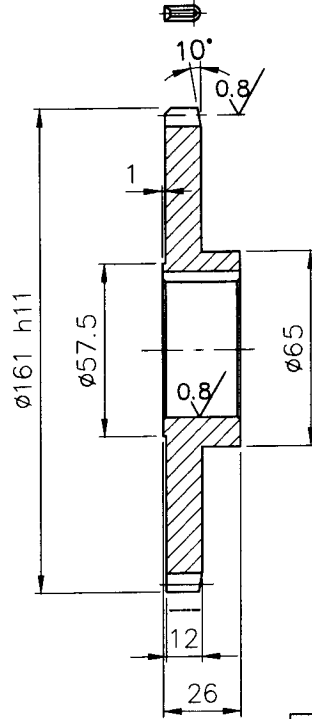
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CAUTION:

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ø161 h11	-0.000	12 P9	-0.018
	-0.250		-0.061
ø45 H7	+0.025		
	0.000		

1.6/0.8



NOTE: -

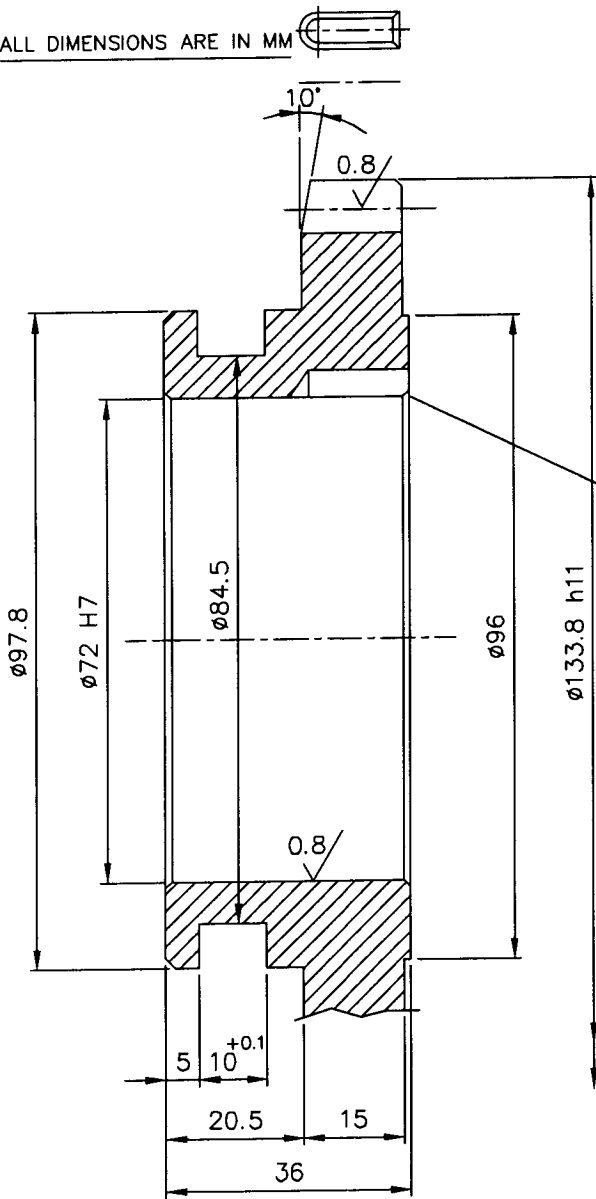
- CASE HARDENED TO HRC 58 ±2
- CASE DEPTH 0.8mm
- CHAMFER CORNERS FOR 1/45°

NO.OF TEETH	63
MODULE	2.5
PRESSURE ANGLE	20°
WITH ACROSS 8 TEETH	57.05 -0.079 -0.132
CORRECTION FACTOR	-0.3
QLTY.&TOL.ZONE	9e DIN 3967
MATING GEAR NO.OF TEETH	31
MATING GEAR DRAWING NO:	4M09B0929163
CENTRE DISTANCE	117

X		ROD ø161x26t	13Ni13Cr3	IS: 4432	2.00		
No. of Pieces		DESCRIPTION	MATERIAL	STANDARD	NET.WT.IN KGS.	DRAWING No.	ITEM No.
		REFERENCE:		ALTERATIONS:	DCN REF	DATE	SIGN.
SCALE	DRN.	S.Selvamanickam	DRG. MODIFIED TO DATE			15.03.12	CSJ
1:2	CHED.	R.Ramamoorthy					
	APPD.	C.S.Jayasheelan					
	DATE	21.12.11					
MACHINE: HORIZONTAL MILLING				TYPE: FGS-50TPLUS			
TITLE:		SPUR GEAR 63T/ø161		DRAWING No:		REV.	
		(SPEED GEAR BOX ASSY.)		4M09B092916201			
				Sheet No:		No. of Sheets:	

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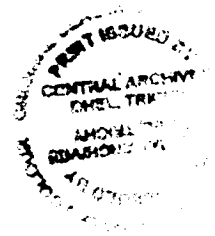
ALL DIMENSIONS ARE IN MM



ø133.8 h11	-0.000
	-0.250
ø72 H7	+0.030
	+0.000

1.6/0.8/√

3 HOLES ø8-15 DEEP ON PCD72 AT ASSY



NOTE: -
 CHAMFER ALL SHARP CORNERS TO 1/45°
 ----- CASE HARDENED TO HRc.50⁺²
 CASE DEPTH 0.8 mm.

NO.OF TEETH	52
MODULE	2.5
PRESSURE ANGLE	20°
WIDTH A/C 7 TEETH	49.40 -0.079 -0.132
QUAL.& TOL ZONE	9e DIN 3967
CORRECTION FACTOR	-0.24
MATING GEAR NO.OF TEETH	42
MATING DRAWING NO:	4-M-09B09-28038
CENTRE DISTANCE	116.9

ø134x36t	13Ni 13Cr.3	IS: 4432	1.66			
No. of Pieces	DESCRIPTION	MATERIAL	STANDARD	NET.WT.IN KGS.	DRAWING No.	ITEM No.
	REFERENCE:		ALTERATIONS:	DCN REF	DATE	SIGN. INDEX
SCALE	DRAWN	P.ALBERT ROSS				
	CHECKED	R.RAMAMOORTHY				
1:1	APPROVED	C.S.JAYASHEELAN				
	DATE	29-08-07				
	MACHINE: HORIZONTAL MILLING		TYPE: FGS 50T PLUS			
	TITLE:	SPUR GEAR		DRAWING No:		
		(SPEED GEAR BOX ASSY.)		4M09B0928040		
				Sheet No:		No. of Sheets:

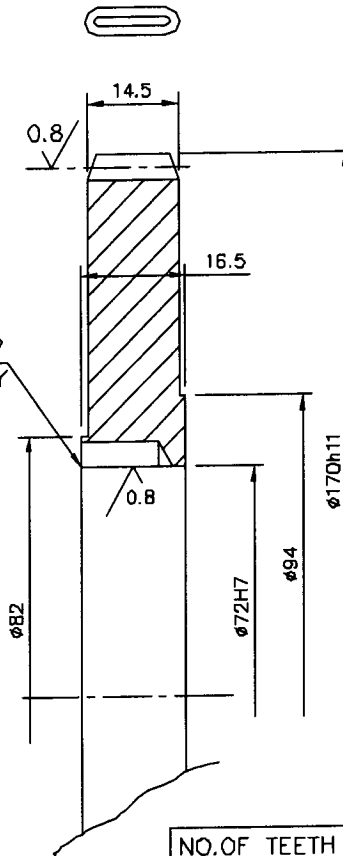
CAUTION: THIS DRAWING IS OUR SOLE PROPERTY AND SHOULD NOT BE USED IN ANY FORM FOR ANY PURPOSE WITHOUT THE WRITTEN PERMISSION OF BHARAT HEAVY ELECTRICALS LIMITED

ALL DIMENSIONS ARE IN MM

ø170h11	-0.000	ø72H7	+0.030
	-0.250		+0.000

1.6 / 0.8 /
✓ / ✓

3 HOLES ø8-12 DEEP
ON PCD72 AT ASSY



NO. OF TEETH	67
MODULE	2.5
PRESSURE ANGLE	20°
WIDTH ACROSS 8 TEETH	56.85 -0.089 -0.148
CORRECTION FACTOR	-0.5
QLTY. & TOL. ZONE	9e DIN 3967
MATING GEAR NO. OF TEETH	27
MATING GEAR DRAWING NO.	4M.09B09.27938
CENTRE DISTANCE	116.90

NOTE: -

CASE HARDNED TO HRC 58 ±2
CASE DEPTH 0.8MM
SHARP CORNERS TO BE REMOVED.

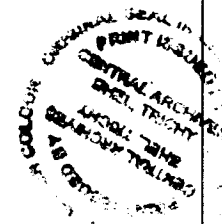
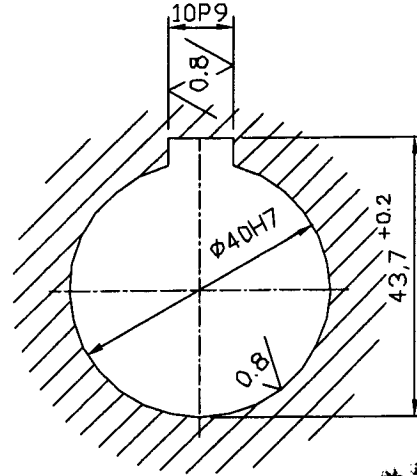
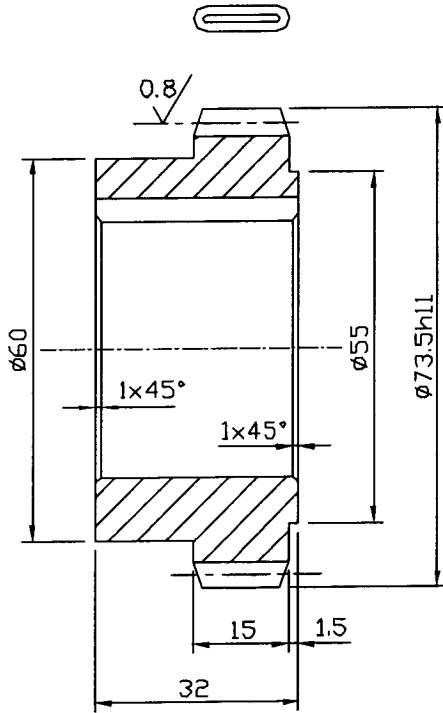
No of Pieces	ø170x16.5t	13Ni13Cr3	IS: 4432	2.53	DRAWING No.		ITEM No.
	DESCRIPTION		MATERIAL	STANDARD	NET.WT.IN KGS.	DATE	SIGN.
REFERENCE:		ALTERATIONS:		DCN REF	DATE	SIGN.	INDEX
SCALE 1:1	DRAWN	T.T.BALAKRISHNAN					
	CHECKED	R.RAMAMOORTHY					
	APPROVED	C.S.JAYASHEELAN					
	DATE	20.11.06					
MACHINE: HORIZONTAL MILLING			TYPE: FGS 50T PLUS			REV.	
TITLE: SPUR GEAR ø170x67T (SPEED GEAR BOX)			DRAWING No:		4M09B0927939		
Sheet No:			No. of Sheets:				

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

ALL DIMENSIONS ARE IN MM

ø73.5h11	-0.000	ø40H7	+0.025
	-0.190		+0.000
10p9	-0.015		-0.051

1.6/ 0.8/



NOTE: -

CASE HARDENED TO HRC 62 ±2
CASE DEPTH 0.8MM
SHARP CORNERS TO BE REMOVED

NO.OF TEETH	27
MODULE	2.5
PRESSURE ANGLE	20°
WIDTH ACROSS 4 TEETH	27.11
CORRECTION FACTOR	+0.22
QLTY.&TOL.ZONE	9e DIN 3967
MATING GEAR NO.OF TEETH	67
MATING GEAR DRAWING NO:	4M.09B09.27939
CENTRE DISTANCE	116.90

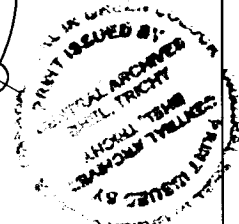
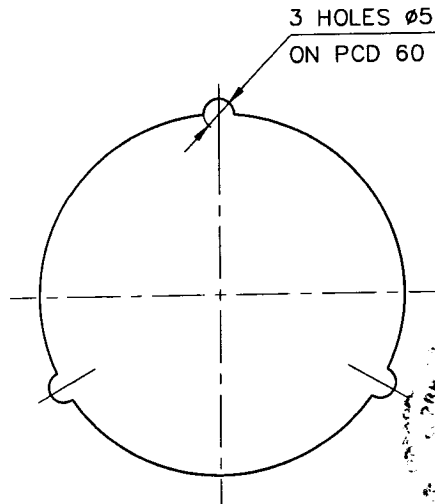
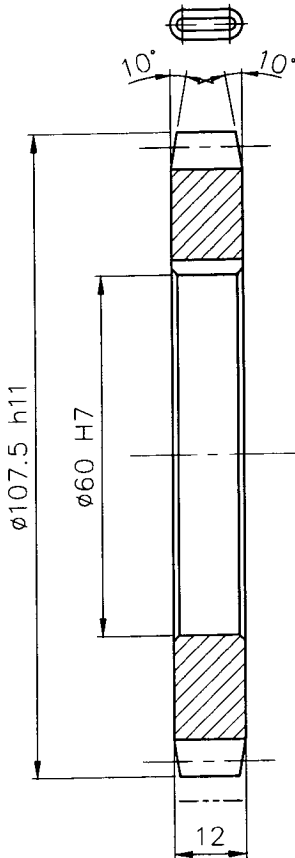
No of Pieces	ø74x32t	13Ni13Cr3	IS: 4432	0.80				
	DESCRIPTION		MATERIAL	STANDARD	NET.WT.IN KGS.	DRAWING No.		ITEM No.
SCALE	DRAWN	T.T.BALAKRISHNAN	T.T. Balakrishnan	ALTERATIONS:	DCN REF	DATE	SIGN.	INDEX
		CHECKED						
1:1	APPROVED	C.S.JAYASHEELAN						
	DATE	20.11.06						
MACHINE:	HORIZONTAL MILLING			TYPE: FGS 50T PLUS				
	TITLE:			DRAWING No:				
	PINION ø73.5x27T (SPEED GEAR BOX)			4M09B0927938				
	Sheet No:			No. of Sheets:				

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ALL DIMENSIONS ARE IN MM

ø107.5h11	-0.000
	-0.220
ø60 H7	+0.030
	0.000

3.2/



NOTE: -
 ----- CASE HARDENED TO HRC 58 ±2
 CASE DEPTH 0.8mm
 CHAMFER CORNERS FOR 1/45'

NO. OF TEETH	41
MODULE	2.5
PRESSURE ANGLE	20°
WITH ACROSS 5 TEETH	34.64 ^{-0.079} _{-0.132}
CORRECTION FACTOR	-
QLTY. & TOL. ZONE	9e DIN 3967
MATING GEAR NO. OF TEETH	53
MATING GEAR DRAWING NO.	4M09B0929175
CENTRE DISTANCE	117

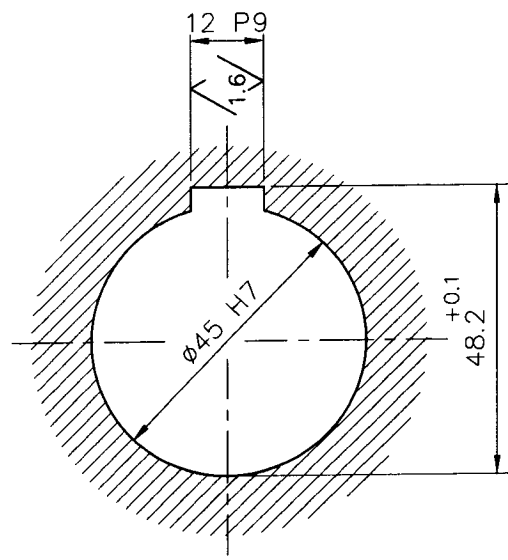
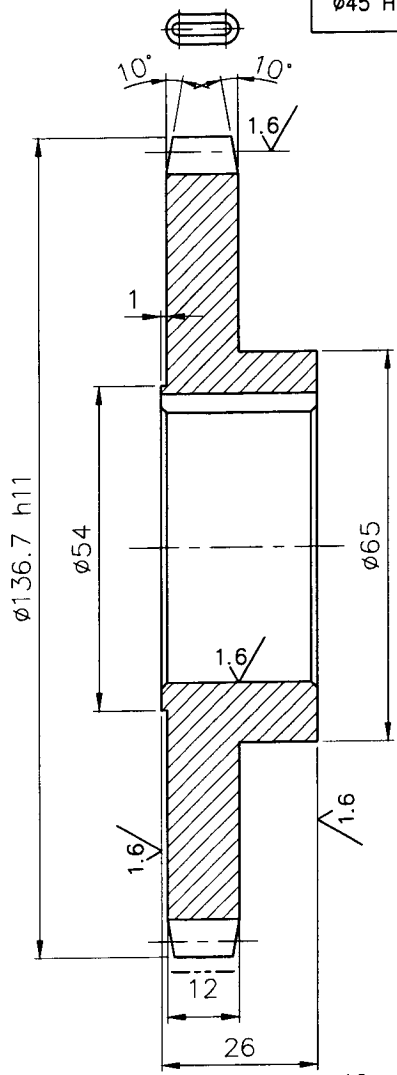
		ROD ø107.5x12t	13Ni13Cr3	IS: 4432	0.56			
No. of Pieces	DESCRIPTION		MATERIAL	STANDARD	NET.WT. IN KGS.	DRAWING No.		ITEM No.
		REFERENCE:	ALTERATIONS:		DCN REF	DATE	SIGN.	INDEX
SCALE	DRN.	S.Selvamanickam	DRG. MODIFIED TO DATE			15.03.12	CSJ	01
1:1	CHE.D.	R.Ramamoorthy						
	APPD.	C.S.Jayasheelan						
	DATE	21.12.11'						
MACHINE: HORIZONTAL MILLING				TYPE: FGS-50PLUS				
		TITLE: SPUR GEAR 41Txø107.5 (SPEED GEAR BOX ASSY.)			DRAWING No:		REV.	
				4M09B092916401				
				Sheet No:		No. of Sheets:		

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ALL DIMENSIONS ARE IN MM

$\phi 136.7h11$	-0.000 -0.250	12 P9	-0.018 -0.061
$\phi 45 H7$	+0.025 0.000		

3.2//1.6/



NOTE: -
 ----- CASE HARDENED TO HRC 58 ± 2
 CASE DEPTH 0.8mm
 CHAMFER CORNERS FOR 1/45'

NO.OF TEETH	53
MODULE	2.5
PRESSURE ANGLE	20°
WITH ACROSS 7 TEETH	49.54 $\begin{matrix} -0.079 \\ -0.132 \end{matrix}$
CORRECTION FACTOR	-0.16
QLTY.&TOL.ZONE	9C DIN 3967
MATING GEAR NO.OF TEETH	41
MATING GEAR DRAWING NO:	4M09B0929164
CENTRE DISTANCE	117

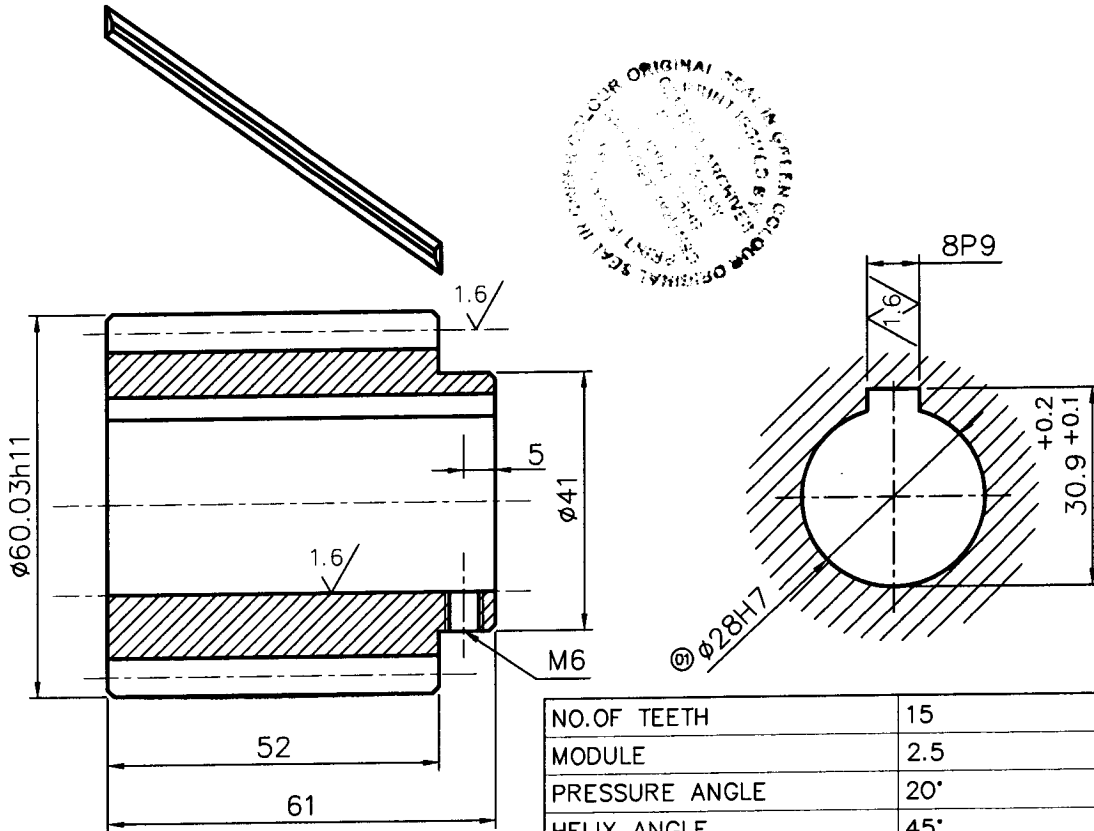
X		ROD $\phi 136.7 \times 26t$	13Ni13Cr3	IS: 4432	1.28		
No. of Pieces	DESCRIPTION		MATERIAL	STANDARD	NET.WT.IN KGS.	DRAWING No.	
	REFERENCE:		ALTERATIONS:		DCN REF	DATE	SIGN.
SCALE	DRN.	S.Selvamanickam	DRG. MODIFIED TO DATE			15.03.12	CSJ
1:1	CHE.D.	R.Ramamoorthy					01
	APPD.	C.S.Jayasheelan					
	DATE	21.12.11'					
MACHINE: HORIZONTAL MILLING				TYPE: FGS-50TPLUS			
TITLE: SPUR GEAR 53T \times $\phi 136.7$				DRAWING No:		REV.	
(SPEED GEAR BOX ASSY.)				4M09B092917501			
				Sheet No:		No. of Sheets:	

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ALL DIMENSIONS ARE IN MM

ø60.03 h11	-0.000	8 P9	-0.015
	-0.190		-0.051
ø28H7	+0.021		
	+0.000		

3.2//1.6/0.8/



NO. OF TEETH	15
MODULE	2.5
PRESSURE ANGLE	20°
HELIX ANGLE	45°
HAND OF HELIX	RH
WITH ACROSS 5 TEETH	35.27 -0.141 -0.188
CORRECTION FACTOR	+0.4
QUTY. & TOL. ZONE	9c DIN 3967
MATING GEAR NO. OF TEETH	56
MATING GEAR DRAWING NO:	3M20C6012733
CENTRE DISTANCE	127

NOTE: -

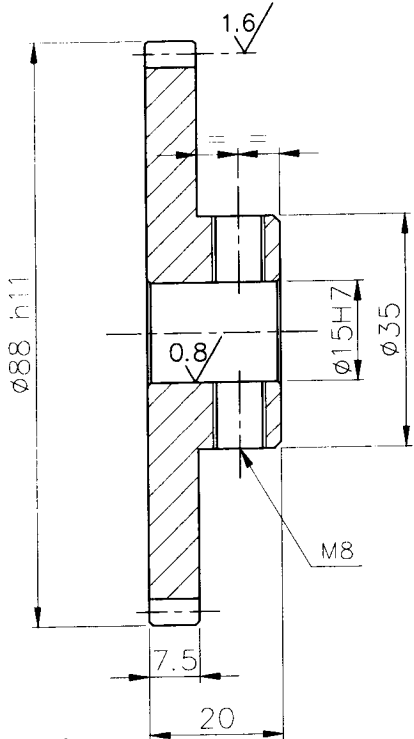
CHAMFER CORNERS FOR 1/45°
HARDENED TO HRC 35 ±2

Ø61x61 L	55C8	IS: 5517	1.05	2M20C6005025	05		
No. of Pieces	DESCRIPTION	MATERIAL	STANDARD	NET.WT. IN KGS.	DRAWING No.	ITEM No.	
	REFERENCE:	ALTERATIONS:		DCN REF	DATE	SIGN.	INDEX
		ø28 WAS ø26			17.04.13	K.RAMANAN	01
		MATERIAL WAS CHANGED			02.06.14	RRM	02
SCALE	DRN. P.A. ROSS						
1:1	CHD. R.RAMAMOORTHY						
	APPD. K.RAMANAN						
	DATE 06.06.2006						
	MACHINE: CANTEEN EQUIPMENT		TYPE: CANTEEN				
	TITLE: HELICAL PINION OD60.30x15T (WET GRINDER)		DRAWING No:		4M20C602786002		
			Sheet No:		No. of Sheets:		

ALL DIMENSIONS ARE IN MM

REV	DATE	ALTERED
		CHECKED
		APPROVED
ZONE		

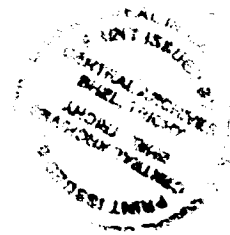
ø15 H7	+0.018	ø88 h11	-0.000	3.2// 1.6// 0.8//
	+0.000		-0.220	



NO OF TEETH	42
MODULE	2
PRESSURE ANGLE	20°
WITH ACROSS 5 TEETH	-0.141 27.74 -0.188
CORRECTION FACTOR	NIL
QLTY. & TOL. ZONE	9c DIN3967
MATING GEAR NO. OF TEETH	30
MATING GEAR DRG. NO.	4M08F0729762
CENTRE DISTANCE	-

NOTE:

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



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01	ø88 x 20L		IS: 5517	0.8
ITEM NO	DESCRIPTION	DRAWING NO	MATL CODE	UNIT WT
			MATL SPEC	QTY

EQPT: CNC LATHE / A24 CNC



Bharat Heavy Electricals Ltd
HIGH PRESSURE BOILER PLANT
TIRUCHIRAPALLI - 620014

DRN	NAME	SIGNATURE	DATE
	C.PONNUSAMY	<i>S. Ponnusamy</i>	15/12/13
CHD	G.GOVINDARAJ	<i>S. Govindaraj</i>	17/12/13
APPD	K.RAMANAN	<i>K. Ramanan</i>	17/12/13

DEPT M&S	GRADE OF UNTOL. DIM ø/M/F IS: 2102	SCALE 1:1	WEIGHT (Kg) 0.8	REF TO ASSY DWG NO 4M08F0729762	ITEM
CODE 2597				REF TO OLD DWG NO	

TITLE SPUR GEAR (ø88 x 42T) (HEAD STOCK ASSY.)	CARD CODE U 01	DRAWING NO : 4M08F0729763	REV 00
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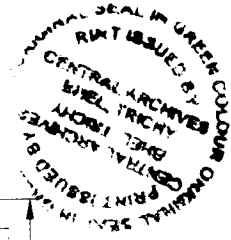
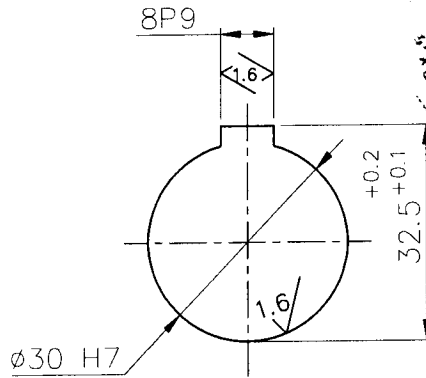
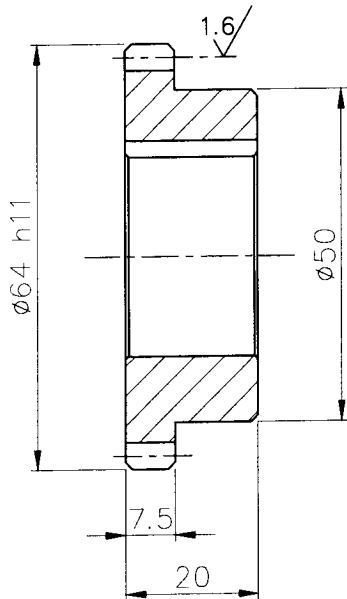
A4-SIZE

ALL DIMENSIONS ARE IN MM

REV	DATE	ALTERED
		CHECKED
		APPROVED
ZONE		

8 P9	-0.015	ø64 h11	-0.000
	-0.051		-0.190
ø30 H7			+0.021
			+0.000

3.2/1.6



NO OF TEETH	30
MODULE	2
PRESSURE ANGLE	20°
WITH ACROSS 4 TEETH	-0.141 21.50 -0.188
CORRECTION FACTOR	NIL
QLTY. & TOL. ZONE	9c DIN3967
MATING GEAR NO. OF TEETH	42
MATING GEAR DRG. NO.	4M08F0729763
CENTRE DISTANCE	-

NOTE:

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

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ITEM NO	DESCRIPTION	DRAWING NO	IS 2004		0.37		
			55 C8	1			
EQPT:	CNC LATHE / A24 CNC		MATL CODE		UNIT WT		
			MATL SPEC		QTY		
DEPT M&S	GRADE OF UNTOL. DIM φ/M/F IS: 2102	SCALE 1:1	WEIGHT (Kg) 0.37	NAME	SIGNATURE	DATE	
				DRN	C.PONNUSAMY	<i>S. Ponnusamy</i>	15/12/13
				CHD	G.GOVINDARAJ	<i>S. Govindaraj</i>	17/12/13
CODE	2597	APPD	S.P.INKERSAL	<i>S.P. Inkersal</i>	13/06/14	REF TO ASSY DWG NO 4M08F0729763	ITEM
TITLE			DRAWING NO :		REV		
SPUR GEAR (ø64 x 30T) (HEAD STOCK ASSY.)			4M08F0729762		00		
			CARD CODE U 01				

A4-SIZE

6025101B10M3

DRAWING NO.

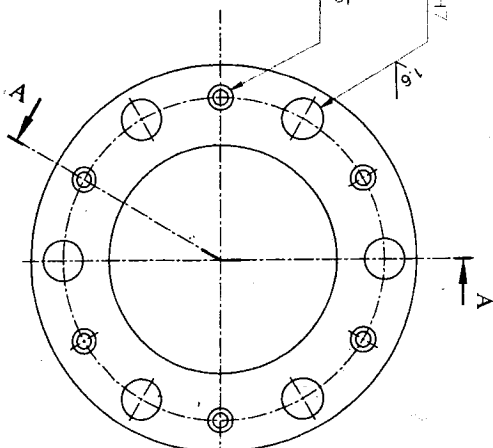
ALL DIMENSIONS ARE IN MILLIMETRES

$\phi 236.22 \text{ h11}$
-0.000
-0.290

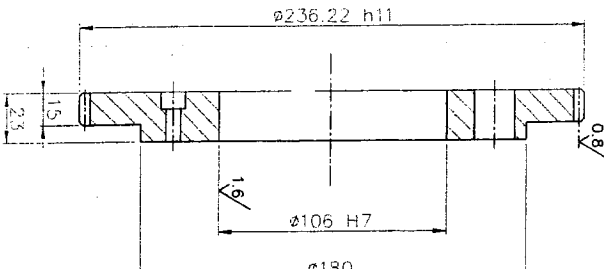
$\phi 106 \text{ H7}$ +0.035
+0.000
 $\phi 119 \text{ H7}$ +0.021
+0.000

32/16/08

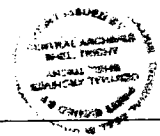
6 HOLES $\phi 19 \text{ H7}$
ON PCD 150
6 HOLES $\phi 7$
C9R $\phi 11.5/8$ DEEP
ON PCD 150



NO. OF TEETH	91
MODULE	10 D.P. (2.54M)
PRESSURE ANGLE	14° 30'
WIDTH ACROSS 8 TEETH	59.18 -0.088
CORRECTION FACTOR	NIL
Q.LTY. & TOL. ZONE	9c DIN3967
MATING GEAR NO. OF TEETH	209
MATING GEAR DRG. NO.	-
CENTRE DISTANCE	-



NOTE:
1. CHAMFER SHARP CORNERS TO 1/45.



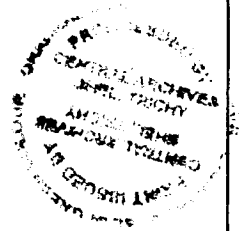
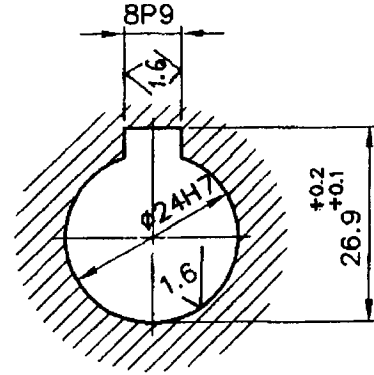
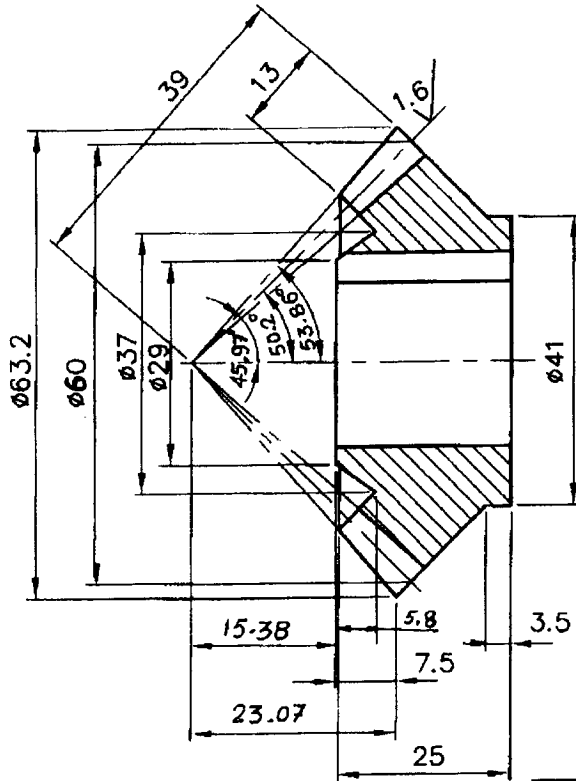
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REV	DATE	ALTERED	APPROVED
ZONE			
DEPT	MAS	GRADE OF INTOL. DIM	SCALE
2397	$\phi/M/f$	IS:2102	1:2
TITLE	WEIGHT (Kg)	CARD CODE	DRAWING NO.
SPUR GEAR $\phi 237 \times 91T$	6.00	U 01	3M07B1015209
(TABLE DRIVE)			
ITEM NO	DESCRIPTION	DRAWING NO	MATL SPEC
01	$\phi 237 \times 23L$ IS 1762	45 C8	IS 2004
EQUIP	LAPPING MACHINE / SPEED FAN	MATL SPEC	QTY
			1
NAME	DATE	SIGNATURE	DATE
C.PONNUSAMY	03/01/14		
G.DONOVAN	03/01/14		
K.RAMANI	04/01/14		

A3-SIZE

ALL DIMENSIONS ARE IN MM

		ø24H7	+0.021	3.2/1.6/✓
			+0.000	
		8P9	-0.015	✓/✓/✓
			-0.051	



NO.OF TEETH	24
MODULE	2.5
PRESSURE ANGLE	20°
MATING GEAR NO.OF TEETH	20
MATING GEAR DRAWIN NO:	4-M-01B-26289
SHAFT ANGLE	90°

NOTE: -
CHAMFER THE SHARP EDGES TO 1/45°

		TEFLON															
Noof Pieces		DESCRIPTION		MATERIAL		STANDARD		NET.WT.IN KGS.		DRAWING No.		ITEM No.					
REFERENCE:				COMPONENT CODE: 10		EQUIPMENT CODE: 20		ALTERATIONS:		DCN REF		DATE		SIGN.		INDEX	
SCALE		DRAWN		CHECKED		APPROVED		DATE									
1:1		R. Suresh Babu		[Signature]		[Signature]		30-10-98									
MACHINE		HORIZONTAL BORING M/C		TYPE		SACEM / MSMG-125		DRAWING No:		20		REV.					
		TITLE:		BEVEL GEAR 24Txø62.9		(FACE PLATE \bar{Y} -AXIS FOR LIMIT SWITCH)		4-M-01B-26288		Noof Sheets:		Sheet No:					

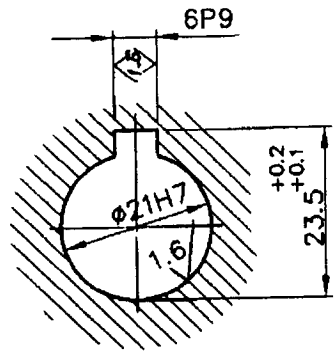
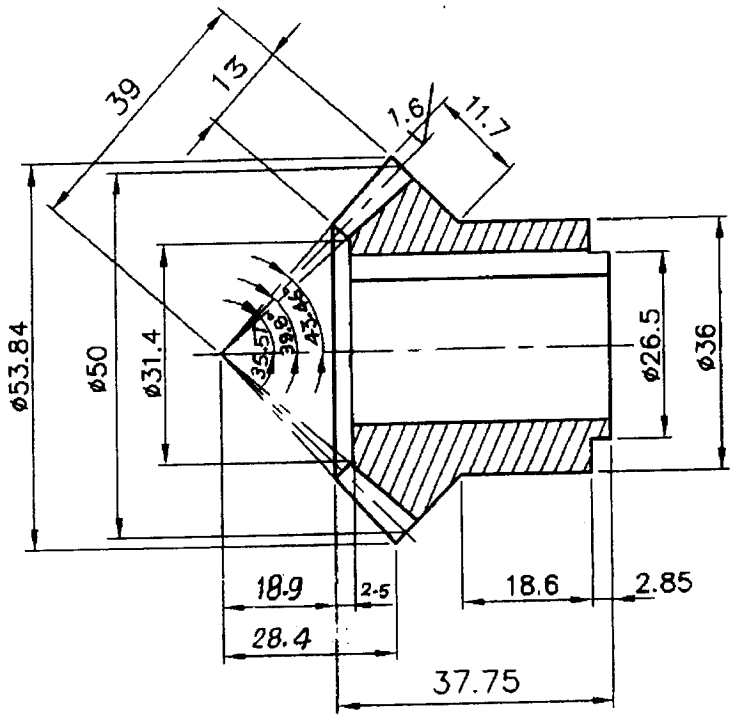
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THIS DRAWING IS OUR SOLE PROPERTY AND SHOULD NOT BE USED IN ANY FORM FOR ANY PURPOSE WITHOUT THE WRITTEN PERMISSION OF BHARAT HEAVY ELECTRICALS LIMITED TRICHIRAPPALLI - 620 014.

CAUTION:

ALL DIMENSIONS ARE IN MM

		Ø21H7	+0.021	3.2//1.6//✓
			+0.000	
		6P9	-0.012	
			-0.042	



NO. OF TEETH	20
MODULE	2.5
PRESSURE ANGLE	20°
MATING GEAR NO. OF TEETH	24
MATING GEAR DRAWN NO:	4-M-01B-26288
SHAFT ANGLE	90°

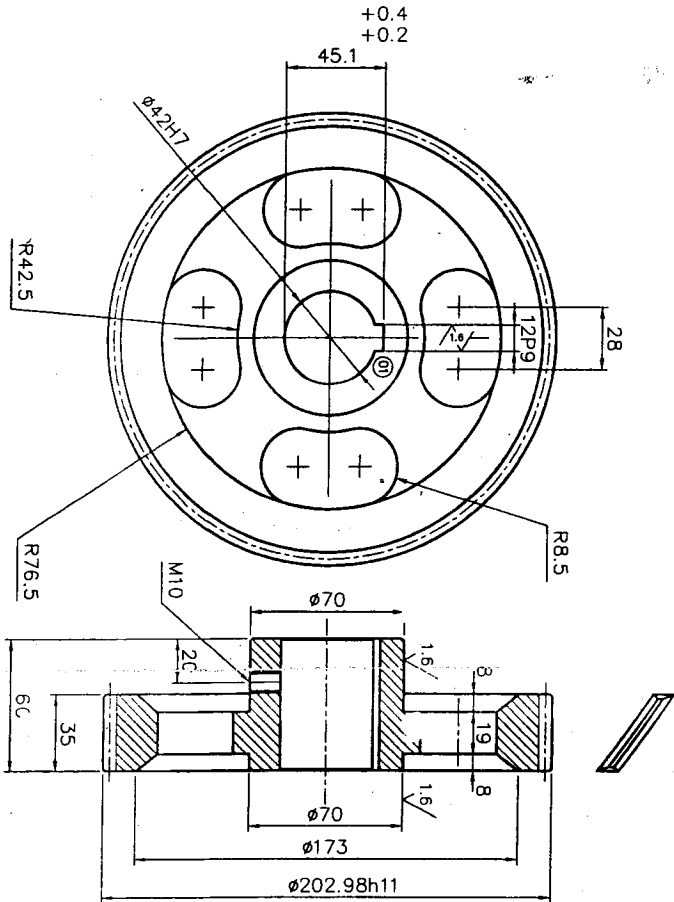
NOTE: -
CHAMFER THE SHARP EDGES TO 1/45°



		TEFLON			
X					
No. of Pieces	DESCRIPTION	MATERIAL	STANDARD	NET.WT. IN KGS.	DRAWING No.
REFERENCE:			COMPONENT CODE: 10	EQUIPMENT CODE: 20	
			ALTERATIONS:	DCN REF	DATE
SCALE	DRAWN	<i>R. Suresh Babu</i>			
	CHECKED	<i>[Signature]</i>			
1:1	APPROVED	<i>[Signature]</i>			
	DATE	30-10-98			
MACHINE: HORIZONTAL BORING M/C			TYPE: SACEM / MSMG-125		
TITLE: BEVEL PINION _{20TxØ54.35} (FACE PLATE V-AXIS FOR LIMIT SWITCH)			DRAWING No: 20		REV.
			4-M-01B-26289		
			No. of Sheets:	Sheet No:	

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

ALL DIMENSIONS ARE IN MM



NO. OF TEETH	56
MODULE	2.5
PRESSURE ANGLE	20°
HELIX ANGLE	45°
HAND OF HELIX	RH
WITH ACROSS S TEETH	119.57 -0.158 -0.210
CORRECTION FACTOR	NULL
QUITY & TOL. ZONE	9c DIN 3967
MATING GEAR NO. OF TEETH	15
MATING GEAR DRAWING NO.	AM20C6027860
CENTRE DISTANCE	127



12P9	-0.018	42H7	+0.025	φ202.98h11	-0.000	3.2/1.6/√
	-0.061		+0.002		-0.290	

NOTE:-
CHAMFER CORNERS FOR 2/45°

DESCRIPTION	FG 220	IS: 210	5.6	2M20C6005025	04
MATERIAL		STANDARD	NET WT IN KGS.	DRAWING NO.	
ALTERATIONS:		KEY WAY ADDED	DATE	SIGN.	INDEX
SCALE	1:2	DRN.	P. ALBERT ROSS	DATE	17.04.13
CHKD.	R. RAMAMOORTHY	APPD.	C. S. JAYASHEELAN	DATE	27.03.87
MACHINE: CANTEEN EQUIPMENT					
TITLE: HELICAL GEAR WHEEL					
56 T/φ202.98 (MET GRINDER)					
DRAWING No: 3M20C6012713301					
Sheet No: No of Sheets:					

**BHARAT HEAVY ELECTRICALS LIMITED
TIRUCHIRAPALLI-14
MAINTENANCE & SERVICES**

BHE: M&S: MMO: 89872462

Dt: 23.06.14

Sr. MANAGER / CAPITAL PURCHASE

Kind Attn: Mr. MOHAMED ALI JHINNAH

Sub: Drawings – reg.

-:o0o:-

As per annexure to PR 89872462

SI No	Drawing No	No of copies
01	3M-08A-09-8845	01
02	3M-08A-09-8846	01
03	3M-08A-09-8847	01
04	4M-09B-09-28037	01
05	4M-09B-09-28039	01
06	4M-09B-09-29161-01	01
07	4M-09B-09-29163-01	01
08	4M-09B-09-29162-01	01
09	4M-09B-09-28040	01
10	4M-09B-09-27939	01
11	4M-09B-09-27938	01
12	4M-09B-09-29164-01	01
13	4M-09B-09-29175-01	01
14	4M-20C-60-12733-01	01
15	4M-20C-60-27860-02	01
16	4M-08F-07-29763	01
17	4M-08F-07-29762	01
18	4M-01B-20-26288	01
19	4M-01B-20-26289	01
20	3M-07B-10-15209	01

S. Chandraleka
23/06/14

S. Chandraleka 23.06.14

**(S.CHANDRALEKA)
Dy. MANAGER / PLNG & CONTS / M&S**

Encl : as above

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 but only by designation to

SENIOR MANAGER /PURCHASE/ CP & SP/ MM / MFG
BHARAT HEAVY ELECTRICALS LIMITED
HIGH PRESSURE BOILER PLANT
TIRUCHIRAPALLI - 620 014
TAMIL NADU

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 < mmcpmfg1@bheltry.co.in > & < chells@bheltry.co.in>

Annexure For Price Bid

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

CAPITAL PURCHASE

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 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.	

Payment through Bank is not preferred. In case of Payment through Bank is opted by Supplier, BHEL prefers documents submission through bank with copy of LR and door delivery of Goods to Site/Stores with Consignee copy attached. In this case Loading will be 3% on the offered value.
Offers of indigenous Suppliers with payment terms as LC/Advance Payment are liable for rejection.

Liquidated Damages / Penalty -
Liquidated damages shall be 0.5% of the total order value per week or part thereof subject to a maximum of 10% of the total order value.
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).

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.

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.
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 on letter head

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.S.O.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 forMicro / Small (~~Strike off which is not applicable~~)
Category under MSMED Act 2006.

Date:

(Signature)

Name -

Membership number -

Seal of Chartered Accountant

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.	
% 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"