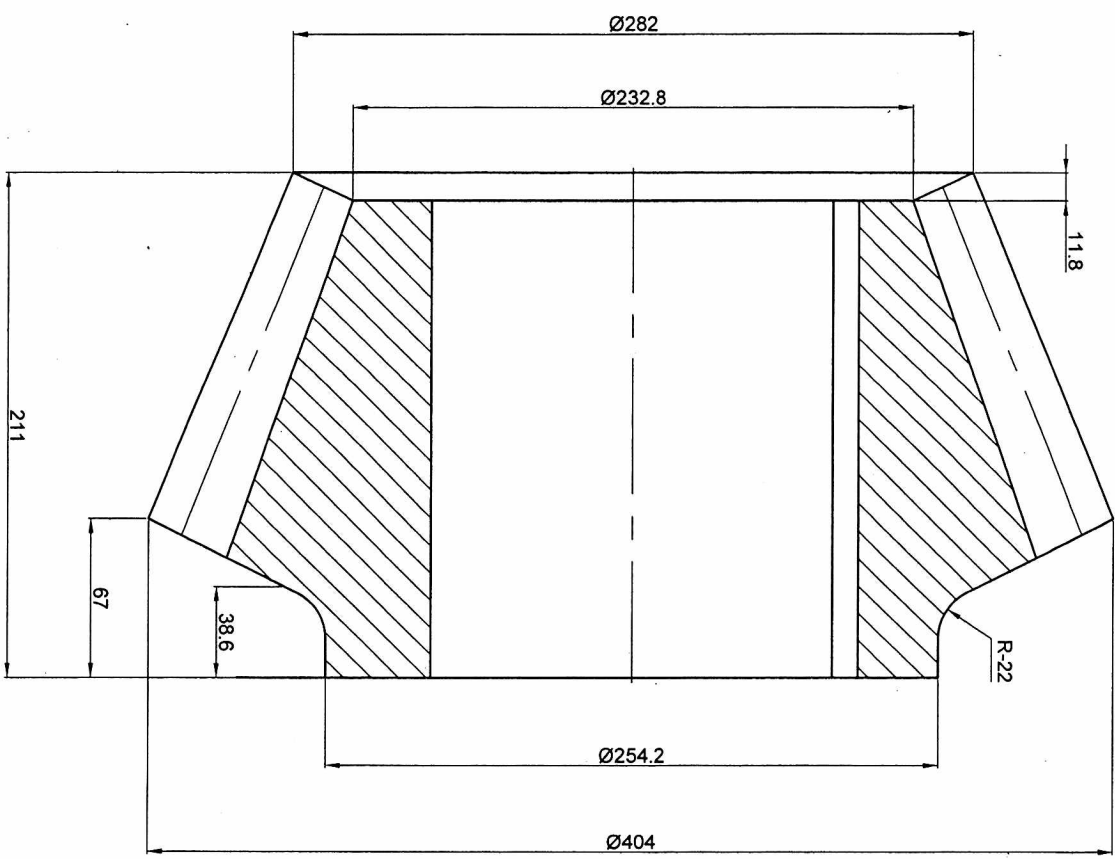
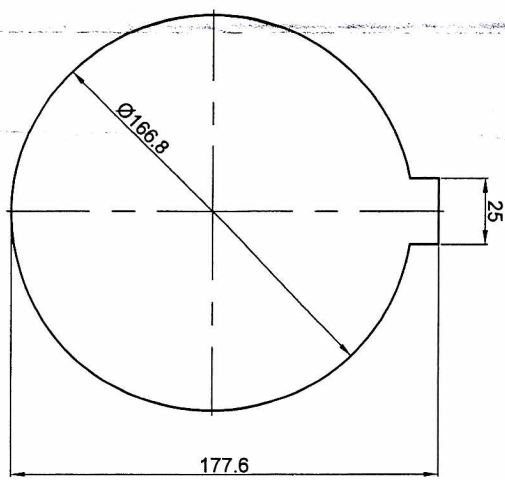


FIRST ANGLE PROJECTION  
002002002200 ON '98D

ALL DIMENSIONS ARE IN mm

ANNEXURE-1

- BEVEL GEAR**
- OUT SIDE DIA = 404
  - NO. OF TEETH = 22
  - D.P. = 1.5
  - C.P. = 53.15
  - PITCH DIA. = Ø372.36
  - WORKING DEPTH = 33.86
  - WHOLE DEPTH = 37.1
  - CLEARANCE = 3.24
  - PITCH ANGLE = 21°26'41"
  - ADDENDUM = 16.93
  - DEDENDUM = 20.167
  - CONE DISTANCE = 509.4
  - DEDENDUM ANGLE = 2°16'
  - FACE ANGLE OF BLANK = 23°20'55"
  - ROOT ANGLE = 19°10'41"



राजेश कुमार / RAJ KUMAR  
चर. अभियंता / Sr. Engineer  
पा. सं. विभाग / PEX Division  
भारत भारी विद्युत, भोपाल / BHEL, BHOPAL

अरुण कुमार / Arun K. mar  
अभियंता / Engineer  
पा. सं. विभाग / PEX Division  
भारत भारी विद्युत, भोपाल / BHEL, BHOPAL

- 1- MACHINING ALL OVER
- 2- MATERIAL - EN24
- 3- HARDNESS - 55 to 60 HRC

| ADDITIONAL INFORMATION |          | TYPE OF PRODUCT          |          |
|------------------------|----------|--------------------------|----------|
| STATUS OF DRAWING      |          | NAME OF CUSTOMER/PROJECT |          |
| DISTRIBUTION OF PRINTS |          | BHEL BHOPAL              |          |
| REV.                   | DATE     | REV.                     | DATE     |
| CHECKED                | APPROVED | CHECKED                  | APPROVED |
| ZONE                   | ZONE     | ZONE                     | ZONE     |

| BHEL BHOPAL |            | BHEL BHOPAL |          |
|-------------|------------|-------------|----------|
| DRN         | S.K. KUMAR | DATE        | 26.09.17 |
| CHK         | ARUN KUMAR | DATE        | 26.09.17 |
| APPD.       |            | REV.        | 00       |

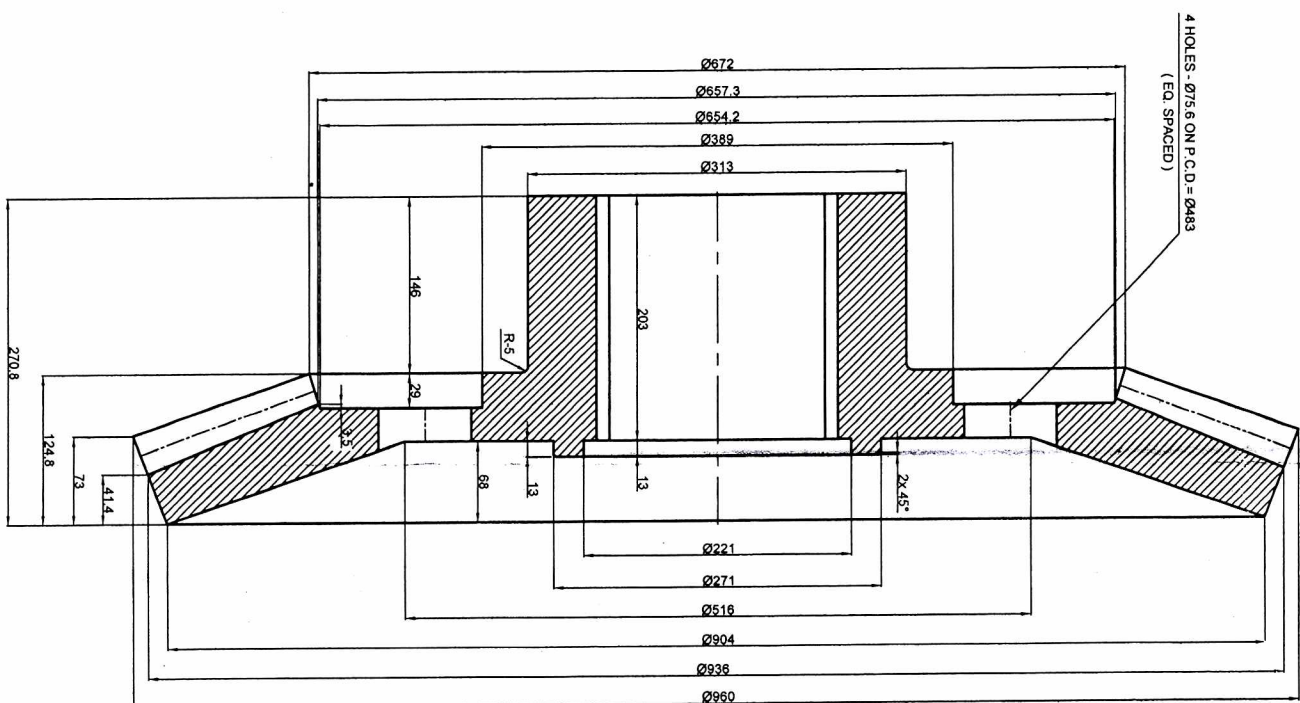
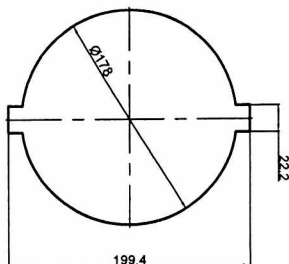
|                                   |              |                                 |    |
|-----------------------------------|--------------|---------------------------------|----|
| BEVEL GEAR PAIR TABLE DRIVE VERT. |              | BELLER ITEM-NO. 3/A/10 SPEC-505 |    |
| DRAWING NO.                       | 2SPD02002200 | REV.                            | 00 |
| SHEET NO.                         | 01           | NO. OF SHEET                    | 01 |

INVENTORY NO. SIGN. & DATE REF. DRG. NO.

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SIZE A2

# ANNEXURE-2



## BEVEL GEAR DATA

OUT SIDE DIA. = Ø960  
NO. OF TEETH = 56  
D.P. = 1.5  
C.P. = 53.15mm  
PITCH DIAMETER = Ø948.26mm  
ADDENDUM = 16.93mm  
DEDENDUM = 20.167mm  
WORKING DEPTH = 33.86mm  
WHOLE DEPTH = 37.1mm  
CLEARANCE = 3.24mm  
PITCH ANGLE = 68°33'08"  
CONE DISTANCE = 509.4mm  
DEDENDUM ANGLE = 2°16'  
FACE ANGLE OF BLANK = 70°27'22"  
ROOT ANGLE = 66°17'08"  
ADDENDUM ANGLE = 1°54'14"

राजकुमार / RAJ KUMAR  
वरिष्ठ अभियंता / Sr. Engineer  
एच.ई.एस. विभाग / H.E.L. Division  
भारत भारी विद्युत, भोपाल / BH.E.L. BHOPAL

अरुण कुमार / Arun K. me  
अभियंता / Engineer  
एच.ई.एस. विभाग / H.E.L. Division  
भारत भारी विद्युत, भोपाल / BH.E.L. BHOPAL

1- DRAWING ALL OVER  
2- CHECKED - 24-04  
3- TARDNESS - 55th 61RD

| REVISION | DATE  | BY         | REASON         |
|----------|-------|------------|----------------|
| 1        | 24-04 | RAJ KUMAR  | INITIAL DESIGN |
| 2        | 24-04 | ARUN K. ME | CHECKED        |
| 3        | 24-04 | RAJ KUMAR  | APPROVED       |