



|                        |           |             |     |                         |  |                       |                       |           |                       |
|------------------------|-----------|-------------|-----|-------------------------|--|-----------------------|-----------------------|-----------|-----------------------|
| BILL<br>OF<br>MATERIAL | DEP<br>NO | NO OF<br>IT | VAR | TYPE OF PRODUCT         | WORK ORDER<br>60212A50901                    | DRG NO<br>04597000117 | CORE CODE<br>65170116 | REV<br>00 |                       |
|                        | 406       | 60          | 0   | 315 MVA, M/S DVC MEIJIA | TITLE<br>CORE ASSEMBLED      PACKING (CORE A |                       |                       |           | SHT NO<br>1      OF 5 |
|                        |           |             |     |                         |  |                       |                       |           |                       |

| DU | VAR03 | VAR02 | VAR01 | VAR00 | REMARKS           | IT<br>NO | DESCRIPTION                                    | DRAWING NO  | IT. | MATCODE  | A<br>/<br>C | UT | UNIT | WT       | G / S |
|----|-------|-------|-------|-------|-------------------|----------|--|-------------|-----|----------|-------------|----|------|----------|-------|
|    |       |       |       |       |                   |          | MAT SIZE                                       | DETAILS     | VAR | MAT SPEC |             |    | QTY  | ZONE     |       |
|    |       |       |       |       | STEEL PART        | 001      | L.V CLAMP PLATE                                | 14597000112 |     |          |             | KG |      | 1351.000 |       |
|    |       |       |       |       |                   |          | TK      WDT      LEN      ID      OD      DIM1 |             |     |          |             |    |      |          |       |
|    |       |       |       |       |                   |          |  |             |     |          |             |    |      |          |       |
|    |       |       |       |       | STEEL PART        | 002      | H.V CLAMP PLATE                                | 14597000112 |     |          |             | KG |      | 1379.000 |       |
|    |       |       |       |       |                   |          | TK      WDT      LEN      ID      OD      DIM1 |             |     |          |             |    |      |          |       |
|    |       |       |       |       |                   |          |  |             |     |          |             |    |      |          |       |
|    |       |       |       |       | STEEL PART        | 003      | H.V TOP ENDFRAME                               | 14597000111 |     |          |             | KG |      | 1109.400 |       |
|    |       |       |       |       |                   |          | TK      WDT      LEN      ID      OD      DIM1 |             |     |          |             |    |      |          |       |
|    |       |       |       |       |                   |          |  |             |     |          |             |    |      |          |       |
|    |       |       |       |       | STEEL PART        | 004      | L.V TOP ENDFRAME                               | 14597000111 |     |          |             | KG |      | 1109.400 |       |
|    |       |       |       |       |                   |          | TK      WDT      LEN      ID      OD      DIM1 |             |     |          |             |    |      |          |       |
|    |       |       |       |       |                   |          |  |             |     |          |             |    |      |          |       |
|    |       |       |       |       | STEEL PART        | 005      | MAIN FOOT ASSY                                 | 34597000276 |     |          |             | KG |      | 68.972   |       |
|    |       |       |       |       |                   |          | TK      WDT      LEN      ID      OD      DIM1 |             |     |          |             |    |      |          |       |
|    |       |       |       |       |                   |          |  |             |     |          |             |    |      |          |       |
|    |       |       |       |       | STEEL PART        | 006      | YOKE CLAMP ENDTIE PLATE                        | 34997000030 |     |          |             | KG |      | 33.721   |       |
|    |       |       |       |       |                   |          | TK      WDT      LEN      ID      OD      DIM1 |             |     |          |             |    |      |          |       |
|    |       |       |       |       |                   |          |  |             |     |          |             |    |      |          |       |
|    |       |       |       |       | STEEL PART        | 007      | AUX TOP CROSS BEAM                             | 34997000021 |     |          |             | KG |      | 47.410   |       |
|    |       |       |       |       |                   |          | TK      WDT      LEN      ID      OD      DIM1 |             |     |          |             |    |      |          |       |
|    |       |       |       |       |                   |          |  |             |     |          |             |    |      |          |       |
|    |       |       |       |       | STEEL PART        | 008      | MAIN TOP CROSS BEAM                            | 34997000047 |     |          |             | KG |      | 45.000   |       |
|    |       |       |       |       |                   |          | TK      WDT      LEN      ID      OD      DIM1 |             |     |          |             |    |      |          |       |
|    |       |       |       |       |                   |          |  |             |     |          |             |    |      |          |       |
|    |       |       |       | 00006 | L=1156   M30 DIA  | 009      | TIE ROD M30                                    | 44997000047 |     |          |             | KG |      | 7.232    |       |
|    |       |       |       |       |                   |          | TK      WDT      LEN      ID      OD      DIM1 |             |     |          |             |    |      |          |       |
|    |       |       |       |       |                   |          |  |             |     |          |             |    |      |          |       |
|    |       |       |       | 00004 | L=1260<br><br>M36 | 010      | TOP YOKE BOLT ASSY M36                         | 34997000027 |     |          |             | KG |      | 12.565   |       |
|    |       |       |       |       |                   |          | TK      WDT      LEN      ID      OD      DIM1 |             |     |          |             |    |      |          |       |
|    |       |       |       |       |                   |          |  |             |     |          |             |    |      |          |       |
|    |       |       |       |       | STEEL PART        | 011      | AUX FOOT ASSY.                                 | 34997000040 |     |          |             | KG |      | 42.230   |       |
|    |       |       |       |       |                   |          | TK      WDT      LEN      ID      OD      DIM1 |             |     |          |             |    |      |          |       |
|    |       |       |       |       |                   |          |  |             |     |          |             |    |      |          |       |
|    |       |       |       |       | STEEL PART        | 012      | LIFTING PIN ASSY DIA 67                        | 24997000047 |     |          |             | KG |      | 2.500    |       |
|    |       |       |       |       |                   |          | TK      WDT      LEN      ID      OD      DIM1 |             |     |          |             |    |      |          |       |
|    |       |       |       |       |                   |          |  |             |     |          |             |    |      |          |       |

| DISTRIBUTION DETAILS |     |     |     |  | REV NO. 0 | PREP BY | CKD BY  | APPD BY     | DATE               |            |
|----------------------|-----|-----|-----|--|-----------|---------|---------|-------------|--------------------|------------|
| TRE                  | TRM | TRX | FTM |  | PREP BY   | CKD BY  | APPD BY | DATE        |                    |            |
| 1                    | 3   | 1   | 6   |  | SG        | GK      | LK      | 02 AUG 2021 | DRG NO 04597000117 | SHT 1 OF 5 |

|                        |           |             |     |                         |  |                       |                       |           |                       |
|------------------------|-----------|-------------|-----|-------------------------|--|-----------------------|-----------------------|-----------|-----------------------|
| BILL<br>OF<br>MATERIAL | DEP<br>NO | NO OF<br>IT | VAR | TYPE OF PRODUCT         | WORK ORDER<br>60212A50901                    | DRG NO<br>04597000117 | CORE CODE<br>65170116 | REV<br>00 |                       |
|                        | 406       | 60          | 0   | 315 MVA, M/S DVC MEIJIA | TITLE<br>CORE ASSEMBLED      PACKING (CORE A |                       |                       |           | SHT NO<br>2      OF 5 |
|                        |           |             |     |                         |  |                       |                       |           |                       |

| DU | VAR03 | VAR02 | VAR01 | VAR00 | REMARKS             | IT NO | DESCRIPTION                  | DRAWING NO  | IT. | MATCODE | A / C | UT | UNIT | WT       | G / S |
|----|-------|-------|-------|-------|---------------------|-------|------------------------------|-------------|-----|---------|-------|----|------|----------|-------|
|    |       |       |       |       |                     |       | MAT SIZE                     |             |     | DETAILS |       |    |      | MAT SPEC |       |
|    |       |       |       |       | STEEL PART          | 013   | LIFTING PIN ON LV SIDE       | 24997000047 |     |         |       | KG |      | 2.105    |       |
|    |       |       |       |       |                     |       | TK WDT LEN ID OD DIM1        |             | 02  |         |       |    |      |          |       |
|    |       |       |       |       |                     |       |                              |             |     | 67      |       |    |      |          |       |
|    |       |       |       | 00004 | B.O SEE W.O         | 014   | END LEG PACKING              | 34597000271 | 001 |         |       | KG |      | 4.000    |       |
|    |       |       |       |       |                     |       | TK WDT LEN ID OD DIM1        |             | 00  |         |       |    |      |          |       |
|    |       |       |       |       |                     |       |                              |             |     |         |       |    |      |          |       |
|    |       |       |       | 00008 | B.O ,SEE W.O        | 015   | YOKE PACKING(MAIN FOOT)      | 34597000272 | 001 |         |       | KG |      | 4.700    |       |
|    |       |       |       |       |                     |       | TK WDT LEN ID OD DIM1        |             | 00  |         |       |    |      |          |       |
|    |       |       |       |       |                     |       |                              |             |     |         |       |    |      |          |       |
|    |       |       |       | 00008 | B.O                 | 016   | YOKE PACKING(AUX. FOOT)      | 34597000163 | 001 |         |       | KG |      | 7.600    |       |
|    |       |       |       |       | SEE W.O             |       | TK WDT LEN ID OD DIM1        |             | 00  |         |       |    |      |          |       |
|    |       |       |       |       |                     |       |                              |             |     |         |       |    |      |          |       |
|    |       |       |       | 00001 | N=40000             | 017   | CORE SEPRATOR CERAMIC SPACER | 34997000065 |     |         |       | KG |      | 0.001    |       |
|    |       |       |       |       |                     |       | TK WDT LEN ID OD DIM1        |             | 00  |         |       |    |      |          |       |
|    |       |       |       |       |                     |       |                              |             |     |         |       |    |      |          |       |
|    |       |       |       | 00004 |                     | 018   | TOP MAIN YOKE INSULATION     | 24597000163 |     |         |       | KG |      | 9.000    |       |
|    |       |       |       |       |                     |       | TK WDT LEN ID OD DIM1        |             | 01  |         |       |    |      |          |       |
|    |       |       |       |       |                     |       |                              |             |     |         |       |    |      |          |       |
|    |       |       |       | 00004 |                     | 019   | TOP AUX YOKE INSULATION      | 24597000163 |     |         |       | KG |      | 4.000    |       |
|    |       |       |       |       |                     |       | TK WDT LEN ID OD DIM1        |             | 02  |         |       |    |      |          |       |
|    |       |       |       |       |                     |       |                              |             |     |         |       |    |      |          |       |
|    |       |       |       | 00004 |                     | 020   | BOTTOM MAIN YOKE INSULATION  | 24597000163 |     |         |       | KG |      | 7.000    |       |
|    |       |       |       |       |                     |       | TK WDT LEN ID OD DIM1        |             | 00  |         |       |    |      |          |       |
|    |       |       |       |       |                     |       |                              |             |     |         |       |    |      |          |       |
|    |       |       |       | 00004 |                     | 021   | BOTTOM AUX YOKE INSULATION   | 24597000163 |     |         |       | KG |      | 2.600    |       |
|    |       |       |       |       |                     |       | TK WDT LEN ID OD DIM1        |             | 03  |         |       |    |      |          |       |
|    |       |       |       |       |                     |       |                              |             |     |         |       |    |      |          |       |
|    |       |       |       | 00006 | OMIT ITEM 001 & 006 | 022   | YOKE BOLT ARRANGMENT M36     | 34577000010 |     |         |       | KG |      | 1.760    |       |
|    |       |       |       |       |                     |       | TK WDT LEN ID OD DIM1        |             | 00  |         |       |    |      |          |       |
|    |       |       |       |       |                     |       |                              |             |     |         |       |    |      |          |       |
|    |       |       |       | 00006 |                     | 023   | CLAMP PLATE SEPARATOR MAIN   | 24597000167 |     |         |       | KG |      | 22.354   |       |
|    |       |       |       |       | W=354               |       | TK WDT LEN ID OD DIM1        |             | 00  |         |       |    |      |          |       |
|    |       |       |       |       |                     |       |                              |             |     |         |       |    |      |          |       |
|    |       |       |       | 00012 | W=190               | 024   | YOKE INSULATION              | 34997000078 |     |         |       | KG |      | 43.096   |       |
|    |       |       |       |       | L=363.5             |       | TK WDT LEN ID OD DIM1        |             | 00  |         |       |    |      |          |       |
|    |       |       |       |       |                     |       |                              |             |     |         |       |    |      |          |       |

| DISTRIBUTION DETAILS |     |     |     |  | REV NO. 0 |  | PREP BY |  | CKD BY  |  | APPD BY     |  | DATE               |  |
|----------------------|-----|-----|-----|--|-----------|--|---------|--|---------|--|-------------|--|--------------------|--|
| TRE                  | TRM | TRX | FTM |  | PREP BY   |  | CKD BY  |  | APPD BY |  | DATE        |  |                    |  |
| 1                    | 3   | 1   | 6   |  | SG        |  | GK      |  | LK      |  | 02 AUG 2021 |  | DRG NO 04597000117 |  |
|                      |     |     |     |  |           |  |         |  |         |  |             |  | SHT 2 OF 5         |  |

|                        |           |             |     |                         |  |                       |                       |           |                       |
|------------------------|-----------|-------------|-----|-------------------------|--|-----------------------|-----------------------|-----------|-----------------------|
| BILL<br>OF<br>MATERIAL | DEP<br>NO | NO OF<br>IT | VAR | TYPE OF PRODUCT         | WORK ORDER<br>60212A50901                    | DRG NO<br>04597000117 | CORE CODE<br>65170116 | REV<br>00 |                       |
|                        | 406       | 60          | 0   | 315 MVA, M/S DVC MEIJIA | TITLE<br>CORE ASSEMBLED      PACKING (CORE A |                       |                       |           | SHT NO<br>3      OF 5 |
|                        |           |             |     |                         |  |                       |                       |           |                       |

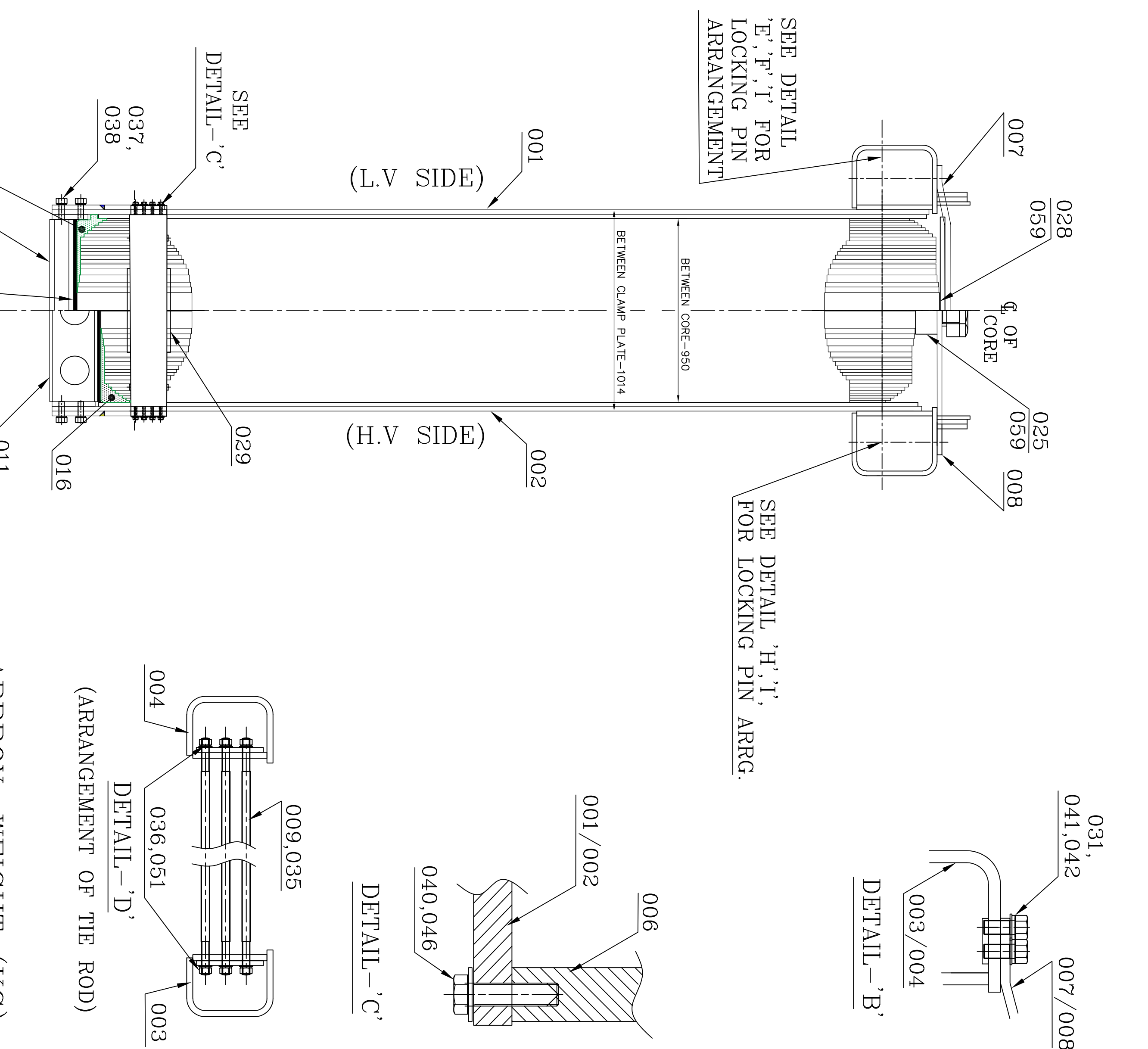
| DU | VAR03 | VAR02 | VAR01 | VAR00 | REMARKS                 | IT NO | DESCRIPTION               | DRAWING NO  | IT. | MATCODE      | A / C    | UT | UNIT | WT       | G / S |
|----|-------|-------|-------|-------|-------------------------|-------|---------------------------|-------------|-----|--------------|----------|----|------|----------|-------|
|    |       |       |       |       |                         |       | MAT SIZE                  |             |     | DETAILS      |          |    |      | MAT SPEC |       |
|    |       |       |       | 00002 | T=34,W=160,W1=210       | 025   | PACKING INSULATION        | 34997000078 | 01  |              |          | KG |      | 2.066    |       |
|    |       |       |       |       |                         |       | TK WDT LEN ID OD DIM1     |             |     |              |          |    |      |          |       |
|    |       |       |       |       |                         |       |                           |             |     |              |          |    |      |          |       |
|    |       |       |       | 00012 | 10 TK X 50 X 116 OD     | 026   | WASHER PBD                | 34527000071 | 008 |              |          | KG |      | 0.400    |       |
|    |       |       |       |       |                         |       | TK WDT LEN ID OD DIM1     |             |     |              |          |    |      |          |       |
|    |       |       |       |       |                         |       |                           |             |     |              |          |    |      |          |       |
|    |       |       |       | 00016 | L=900W=240              | 028   | TOP CROSS BEAM INSULATION | 44997000017 | 001 |              |          | KG |      | 0.305    |       |
|    |       |       |       |       | C=184,D=100,T=3         |       | TK WDT LEN ID OD DIM1     |             |     |              | AA21108  |    |      |          |       |
|    |       |       |       |       |                         |       | 3                         |             |     |              |          |    |      |          |       |
|    |       |       |       | 00008 | L=1010                  | 029   | END TIE PLATE INSULATION  | 44997000043 | 002 |              |          | KG |      | 0.950    |       |
|    |       |       |       |       | W=185                   |       | TK WDT LEN ID OD DIM1     |             |     |              |          |    |      |          |       |
|    |       |       |       |       |                         |       |                           |             |     |              |          |    |      |          |       |
|    |       |       |       | 00004 |                         | 030   | AUX CLAMP PLATE SEPARATOR | 24597000167 | 01  | KG           |          |    |      | 0.250    |       |
|    |       |       |       |       |                         |       | TK WDT LEN ID OD DIM1     |             |     |              |          |    |      |          |       |
|    |       |       |       |       |                         |       |                           |             |     |              |          |    |      |          |       |
|    |       |       |       | 00036 | ZPP FOR CROSS BEAM MTG. | 031   | WASHER MCD SCB31 ST       |             |     | AA7161001110 |          |    |      | 0.003    |       |
|    |       |       |       |       |                         |       | TK WDT LEN ID OD DIM1     |             |     |              |          |    |      |          |       |
|    |       |       |       |       |                         |       |                           |             |     |              |          |    |      |          |       |
|    |       |       |       | 00008 | EPOXY BUSH              | 032   | EPOXY BUSH                | 44997000073 | 001 |              |          | KG |      | 0.300    |       |
|    |       |       |       |       |                         |       | TK WDT LEN ID OD DIM1     |             |     |              | ST605740 |    |      |          |       |
|    |       |       |       |       |                         |       |                           |             |     |              |          |    |      |          |       |
|    |       |       |       | 00040 | L=915                   | 033   | FOOT INSULATION           | 44997000044 | 001 |              |          | KG |      | 0.465    |       |
|    |       |       |       |       | 5  3 TK =15 TK          |       | TK WDT LEN ID OD DIM1     |             |     |              |          |    |      |          |       |
|    |       |       |       |       |                         |       |                           |             |     |              |          |    |      |          |       |
|    |       |       |       | 00008 | 4 TK X 50 X 116 OD      | 034   | ROUND WASHER PBD          | 30027000071 | 007 |              |          | KG |      | 0.640    |       |
|    |       |       |       |       |                         |       | TK WDT LEN ID OD DIM1     |             |     |              |          |    |      |          |       |
|    |       |       |       |       |                         |       |                           |             |     |              |          |    |      |          |       |
|    |       |       |       | 00006 | L=1016 FOR TIE ROD      | 035   | EPOXY TUBE                | 44998200003 | 001 | AA7151109040 |          | KG |      | 0.500    |       |
|    |       |       |       |       | A=33B=36                |       | TK WDT LEN ID OD DIM1     |             |     |              |          |    |      |          |       |
|    |       |       |       |       |                         |       |                           |             |     |              |          |    |      |          |       |
|    |       |       |       | 00012 | ZPP FOR END TIE ROD     | 036   | HEX NUT M30               |             |     | AA7151109040 |          | KG |      | 0.230    |       |
|    |       |       |       |       |                         |       | TK WDT LEN ID OD DIM1     |             |     |              |          |    |      |          |       |
|    |       |       |       |       |                         |       |                           |             |     |              |          |    |      |          |       |
|    |       |       |       | 00064 | L=85,ZPP                | 037   | HEX SCR M24               | 44997000015 | 001 |              |          | KG |      | 0.400    |       |
|    |       |       |       |       |                         |       | TK WDT LEN ID OD DIM1     |             |     |              |          |    |      |          |       |
|    |       |       |       |       |                         |       |                           |             |     |              |          |    |      |          |       |

| DISTRIBUTION DETAILS |     |     |     |  | REV NO. 0 |        | PREP BY |             | CKD BY |  | APPD BY |  | DATE |            |  |
|----------------------|-----|-----|-----|--|-----------|--------|---------|-------------|--------|--|---------|--|------|------------|--|
| TRE                  | TRM | TRX | FTM |  | PREP BY   | CKD BY | APPD BY | DATE        |        |  |         |  |      |            |  |
| 1                    | 3   | 1   | 6   |  | SG        | GK     | LK      | 02 AUG 2021 |        |  |         |  |      |            |  |
| DRG NO 04597000117   |     |     |     |  |           |        |         |             |        |  |         |  |      | SHT 3 OF 5 |  |





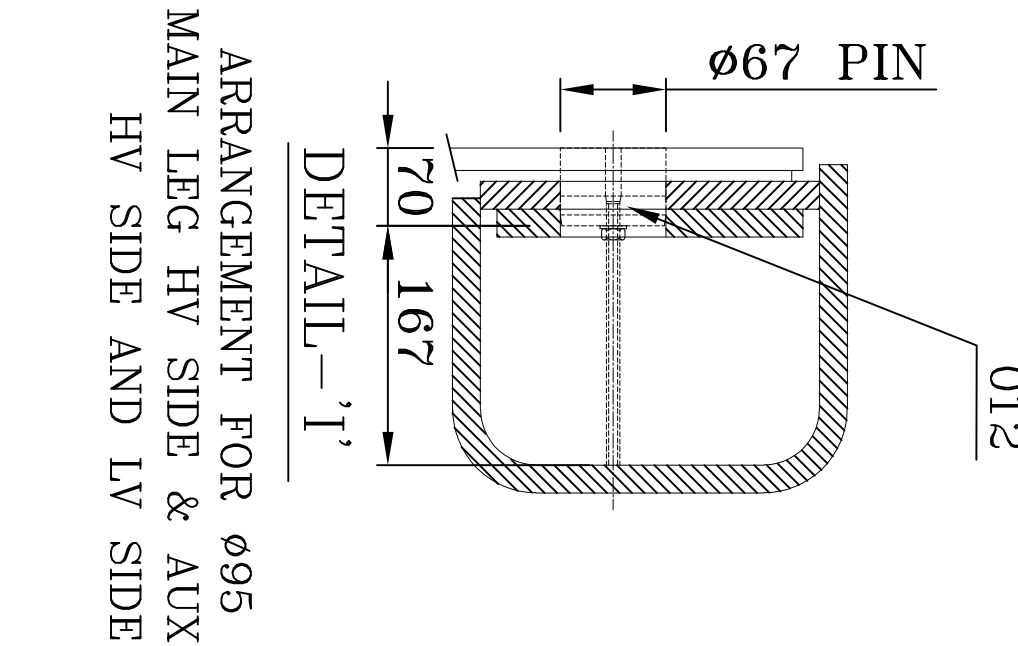


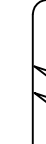










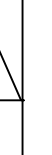


| DESCRIPTION    | VAR. 00   |
|----------------|-----------|
| HYS STEEL      | 1300.00   |
| BLK STEEL      | 4459.00   |
| UDL WOOD       | 450.00    |
| PRESS BOARD    | 190.00    |
| RESI GLASS TAP | 100.00    |
| CORE STEEL     | 104583.00 |
| HARD WOOD      | 350.00    |
| TOTAL WT       | 111378.00 |

## NOTES TO SHOP

01. FOR B.O.M. REFER DELUX B.O.M. NO.-04597000117.
02. AFTER ASSY. CORE IS TO BE TESTED BETWEEN CORE AND END FRAME CORE AND YOKE BOLTS AND END FRAME AND END FRAME TO BOTTOM TANK FOR 2 KV FOR 1 MINUTE
03. ALL STEEL PARTS ARE TO BE SHOT BLASTED AND PAINTED AS PER STD. SHEET DRG NO.-1R, 1000SP SERIAL NO.20, EPOXY WHITE
04. ALL SHARP CORNERS ARE TO BE REMOVED.
05. BEFORE PUTTING THE YOKE BOLTS THE INSIDE OF THE HOLES AND THE EDGES OF LAMINATIONS ARE TO BE VARNISHED COATED WITH THE HELP OF BRUSH THE VARNISH SHOULD BE SUFFICIENTLY ENOUGH THIS IS FOR ASSURING NO DIFFUSION SHOULD TAKE PLACE BETWEEN LAMINATIONS.
06. LIFTING LUGS PROVIDED ON TOP ENDLESS FRAMES(MARKED \*) ARE TO BE USED FOR LIFTING THE CORE AND ENDFRAME ASSEMBLY.
07. TIGHTING TORQUE OF YOKE BOLT 50 KG (MM.).
08. FOLLOWING 2 KV TESTS ARE TO BE CONDUCTED IN ADDITION TO THE TESTS COVERED IN NOTE 2
1. CORE TO END FRAME.
2. END FRAME TO COVER BEFORE SHIPMENT OF TRANSFORMER
09. IT 059 NOMEX PAPER MAY BE USED AT ISOLATION PLACES.



|  |        |   |          |  |  |   |  |   |  |                 |      |      |      |    |    |   |          |     |    |   |          |     |    |   |          |              |  |
|--|--------|---|----------|--|--|---|--|---|--|-----------------|------|------|------|----|----|---|----------|-----|----|---|----------|-----|----|---|----------|--------------|--|
| ADDITIONAL INFORMATION<br>W.O.60212-A-509-01 |        |   |          | TYPE OF PRODUCT OR<br>NAME OF CUSTOMER/PROJECT   |  |   |  | 315 MVA, GEN. TRANSFORMER<br>M/S DVC MEDHA  |  |                 |      |      |      |    |    |   |          |     |    |   |          |     |    |   |          |              |  |
| STATUS OF DRAWING U                          |        |   |          |  |  |   |  |   |  |                 |      |      |      |    |    |   |          |     |    |   |          |     |    |   |          |              |  |
| DISTRIBUTION OF PRINTS<br>TRF TRM TRX        |        |   |          | <div><div></div><div>BHARAT HEAVY ELECTRICALS LTD.<br/>BHOPAL</div></div> |  |   |  | <table><tr><td>DRN</td><td>NAME</td><td>SIGN</td><td>DATE</td></tr><tr><td>SG</td><td>SG</td><td></td><td>05.08.21</td></tr><tr><td>CHD</td><td>GK</td><td></td><td>05.08.21</td></tr><tr><td>APD</td><td>LK</td><td></td><td>05.08.21</td></tr></table> |  | DRN             | NAME | SIGN | DATE | SG | SG |  | 05.08.21 | CHD | GK |  | 05.08.21 | APD | LK |  | 05.08.21 | NO.OF<br>VAR |  |
| DRN  | NAME   | SIGN  | DATE     |  |  |   |  |   |  |                 |      |      |      |    |    |   |          |     |    |   |          |     |    |   |          |              |  |
| SG   | SG     |  | 05.08.21 |  |  |   |  |   |  |                 |      |      |      |    |    |   |          |     |    |   |          |     |    |   |          |              |  |
| CHD  | GK     |  | 05.08.21 |  |  |   |  |   |  |                 |      |      |      |    |    |   |          |     |    |   |          |     |    |   |          |              |  |
| APD  | LK     |  | 05.08.21 |  |  |   |  |   |  |                 |      |      |      |    |    |   |          |     |    |   |          |     |    |   |          |              |  |
| REV 1  | DATE 3 | ALTERED<br>CHECKED<br>APPROVED  |          |  |  |   |  |   |  |                 |      |      |      |    |    |   |          |     |    |   |          |     |    |   |          |              |  |
| ZONE   |        |   |          | DEPT TIRE<br>CODE 406  |  | <div><div></div><div></div></div> |  | WEIGHT(Kg)  |  |                 |      |      |      |    |    |   |          |     |    |   |          |     |    |   |          |              |  |
|  |        |   |          | TITLE<br>CORE AND END FRAME<br>ASSY  |  |   |  | DRAWING NO.<br>04597000117  |  |                 |      |      |      |    |    |   |          |     |    |   |          |     |    |   |          |              |  |
|  |        |   |          |  |  |   |  | SHT NO.   |  | NO.OF SHT<br>00 |      |      |      |    |    |   |          |     |    |   |          |     |    |   |          |              |  |

|           |            |
|-----------|------------|
| SIGN.DATE | REF.DRG.NO |
|-----------|------------|





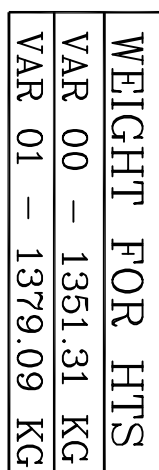


|                        |  |  |  |           |                    |   |                        |  |  |  |  |  |                       |  |                       |  |           |  |
|------------------------|--|--|--|-----------|--------------------|---|------------------------|--|--|--|--|--|-----------------------|--|-----------------------|--|-----------|--|
| BILL<br>OF<br>MATERIAL |  |  |  | DEP<br>NO | NO OF<br>IT    VAR |   | TYPE OF PRODUCT        |  |  |  | WORK ORDER<br>60212A50901                          |  | DRG NO<br>14597000111 |  | CORE CODE<br>65170700 |  | REV<br>00 |  |
|                        |  |  |  | 406       | 14                 | 1 | 315 MVA,M/S DVC MEIJIA |  |  |  | TITLE<br>TOP END FRAME H.V.SIDE    TOP END FRAME H |  |                       |  |                       |  |           |  |

|    |       |       |       |                 |         |           |             |     |     |    |      |      |            |              |              |             |       |         |    |       |          |
|----|-------|-------|-------|-----------------|---------|-----------|-------------|-----|-----|----|------|------|------------|--------------|--------------|-------------|-------|---------|----|-------|----------|
| DU | VAR03 | VAR02 | VAR01 | VAR00           | REMARKS | IT<br>NO  | DESCRIPTION |     |     |    |      |      | DRAWING NO | IT.          | MATCODE      | A<br>/<br>C | UT    | UNIT    | WT | G / S |          |
|    |       |       |       |                 |         |           | MAT SIZE    |     |     |    |      |      |            |              |              |             |       | DETAILS |    |       | MAT SPEC |
|    |       |       | 00003 |                 |         | 013       | COVER PLATE |     |     |    |      |      |            |              | AA1011819139 |             | KG    | 8.909   |    |       |          |
|    |       |       |       |                 |         |           | TK          | WDT | LEN | ID | OD   | DIM1 |            |              |              |             |       |         |    |       |          |
|    |       |       |       |                 |         |           | 16          | 236 | 300 |    |      |      |            |              |              |             |       |         |    |       |          |
|    |       |       | 00003 | CUT TO DETAIL-D | 014     | R S ANGLE |             |     |     |    |      |      |            | AA1012508099 |              | KG          | 0.350 |         |    |       |          |
|    |       |       |       |                 |         | TK        | WDT         | LEN | ID  | OD | DIM1 |      |            |              |              |             |       |         |    |       |          |
|    |       |       |       |                 |         | 6         | 65          | 65  | 50  |    |      |      |            |              |              |             |       |         |    |       |          |













1379.    1351.3

|                      |     |     |     |  |           |  |         |  |         |  |             |  |                    |  |
|----------------------|-----|-----|-----|--|-----------|--|---------|--|---------|--|-------------|--|--------------------|--|
| DISTRIBUTION DETAILS |     |     |     |  | REV NO. 0 |  | PREP BY |  | CKD BY  |  | APPD BY     |  | DATE               |  |
| TRE                  | TRM | TRX | FTM |  | PREP BY   |  | CKD BY  |  | APPD BY |  | DATE        |  |                    |  |
| 1                    | 3   | 1   | 6   |  | SG        |  | GK      |  | LK      |  | 30 JUL 2021 |  | DRG NO 14597000111 |  |
|                      |     |     |     |  |           |  |         |  |         |  |             |  | SHT 2    OF 2      |  |



01. FOR DELINK-BOM REFER COMPUTER DRG. NO. 14597000111.
02. REFER VAR 00 FOR HV SIDE & VAR 01 FOR LV SIDE.
03. WELDING AS PER DRG. 349897000095 UNLESS IT IS SPECIFIED.
04. FOR GENERAL NOTES REFER DRG. 34997000093

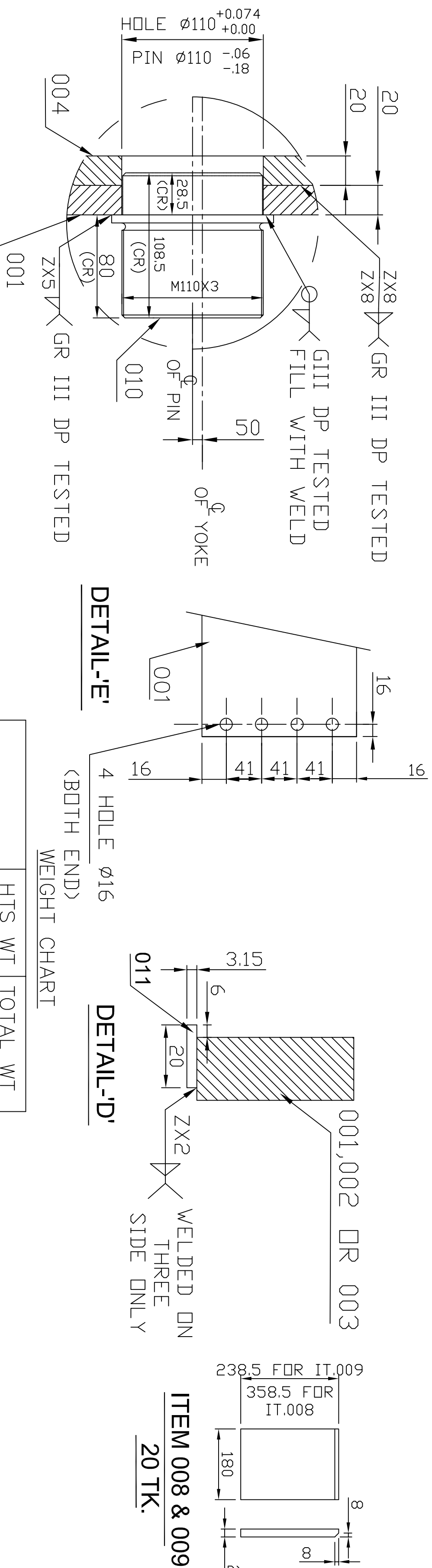
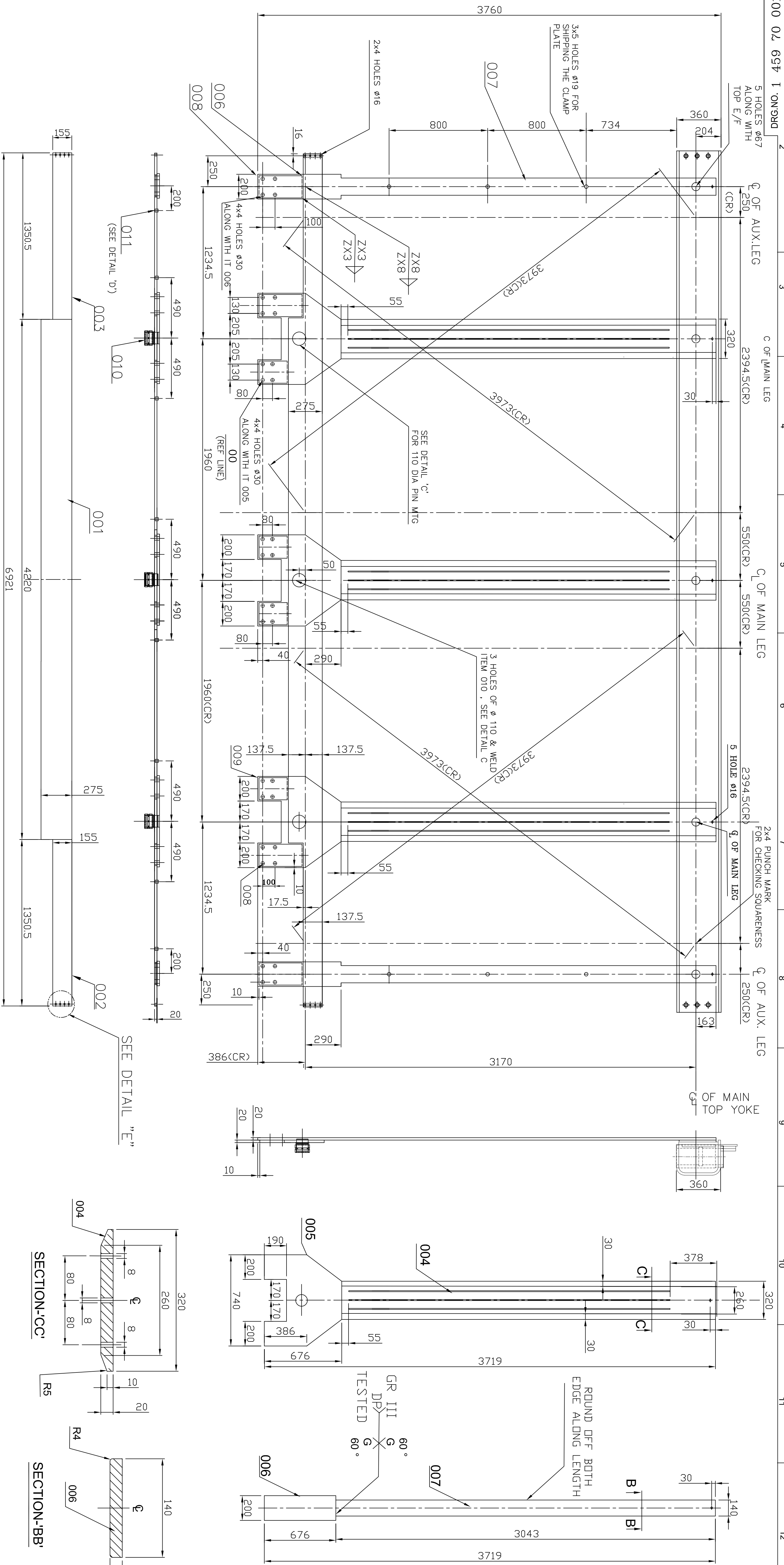


| ADDITIONAL INFORMATION<br>W.O. 60212-A-509-01 |   | TYPE OF PRODUCT OR<br>315 MVA. GEN. TRANSFORMER   |   |      |      |      |                |         |   |          |  |         |   |          |  |          |   |          |  |
|---|---|---|---|------|------|------|----------------|---------|---|----------|--|---------|---|----------|--|----------|---|----------|--|
| STATUS OF DRAWING U                           |   | NAME OF CUSTOMER/PROJECT<br>M/S DVC MEJIA   |   |      |      |      |                |         |   |          |  |         |   |          |  |          |   |          |  |
| DISTRIBUTION OF PRINTS<br>TRF TRM TRX         |   |  BHARAT HEAVY ELECTRICALS LTD.<br>BHOPAL |   |      |      |      |                |         |   |          |  |         |   |          |  |          |   |          |  |
| 1   | 3   | 1   | <table border="1"> <thead> <tr> <th>NAME</th> <th>SIGN</th> <th>DATE</th> <th>NO. OF<br/>VARS</th> </tr> </thead> <tbody> <tr> <td>DEN S.G</td> <td></td> <td>30.07.21</td> <td></td> </tr> <tr> <td>CHD G.K</td> <td></td> <td>30.07.21</td> <td></td> </tr> <tr> <td>APPD L.K</td> <td></td> <td>30.07.21</td> <td></td> </tr> </tbody> </table> | NAME | SIGN | DATE | NO. OF<br>VARS | DEN S.G |  | 30.07.21 |  | CHD G.K |  | 30.07.21 |  | APPD L.K |  | 30.07.21 |  |
| NAME  | SIGN  | DATE  | NO. OF<br>VARS  |      |      |      |                |         |   |          |  |         |   |          |  |          |   |          |  |
| DEN S.G                                       |  | 30.07.21  |   |      |      |      |                |         |   |          |  |         |   |          |  |          |   |          |  |
| CHD G.K                                       |  | 30.07.21  |   |      |      |      |                |         |   |          |  |         |   |          |  |          |   |          |  |
| APPD L.K                                      |  | 30.07.21  |   |      |      |      |                |         |   |          |  |         |   |          |  |          |   |          |  |
| REV DATE                                      | ALTERED<br>CHECKED<br>APPROVED  | DEFT TRF<br>CODE 406  |     |      |      |      |                |         |   |          |  |         |   |          |  |          |   |          |  |
| ZONE  | TITLE<br>TOP END FRAME  |   | DRAWING NO.<br>1 459 70 00111<br>SHT NO. 01 OF 01   |      |      |      |                |         |   |          |  |         |   |          |  |          |   |          |  |
|   |   |   | REV/ 00   |      |      |      |                |         |   |          |  |         |   |          |  |          |   |          |  |

|             |                |
|-------------|----------------|
| DRAWING NO. | 1 459 70 00111 |
| SHEET NO.   | 01 OF 0        |



THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED.








|              | HTS WT | TOTAL WT |
|--------------|--------|----------|
| VAR 01 (H.V) |        | 1109.40  |
| VAR 00 (L.V) |        | 1109.40  |

| REV | DATE | ALTERED  | REV | DATE | ALTERED |
|-----|------|----------|-----|------|---------|
|     |      | CHECKED  |     |      | CHILD   |
|     |      | APPROVED |     |      | APP     |

|     |      |          |           |  |   |
|-----|------|----------|-----------|--|---|
| REV | DATE | ALTERED  | DEPT TREE |  | S |
|     |      | CHECKED  |           |  |   |
|     |      | APPROVED | CODE 406  |  |   |

| GHT(kg) | REF TO ASSY DRG | ITEM NO. | NO.OF<br>ITEM |
|---------|-----------------|----------|---------------|
|         |                 |          | 14            |

|  |      |                                |   |   |            |   |          |                     |
|--|------|--------------------------------|---|---|------------|---|----------|---------------------|
| ADDITIONAL INFORMATION<br>W.O.60212-A-509-01 |      |                                | TYPE OF PRODUCT OR<br>NAME OF CUSTOMER/PROJECT  |   |            | 315 MVA GEN. TRANSFORMER<br>M/S DVC MEJIA   |          |                     |
| STATUS OF DRAWING                            | U    |                                | <br>BHARAT HEAVY ELECTRICALS LTD<br>BHOPAL | DRN   | NAME       | SIGN  | DATE.    | NO.OF               |
| DISTRIBUTION OF PRINTS                       | TRM  | TRX                            |   | CHD   | S.G        |  | 30.07.21 | VAR                 |
|  |      |                                |   | APRD  | G.K        |   | 30.07.21 | 02                  |
|  |      |                                |   |   | LK         |  | 30.07.21 |                     |
| REV  | DATE | ALTERED<br>CHECKED<br>APPROVED | DEPT. TRM   | SCALE   | WEIGHT(Kg) | REF TO ASSY DRG   | ITEM NO  | NO.OF<br>ITEM       |
| 1  | 3    | 1                              |    |  |            |   |          | NO.OF<br>ITEM<br>14 |
| ZONE   |      |                                | TITLE   | DRAWING NO.   |            |   |          |                     |
|  |      |                                | CORE CLAMP PLATE  | 1 459 70 00112  |            |   |          |                     |
|  |      |                                |   | SHEET NO.   |            |   |          |                     |
|  |      |                                |   | NO.OF SHEET   |            |   |          |                     |
|  |      |                                |   | 00  |            |   |          |                     |

1. FOR BOM REFEEF DRG NO. 14597000112.
2. THIS ARRANGEMENT IS FOR BOTH HV SIDE CLAMP PLATE **VAR 00** AND LV SIDE CLAMP PLATE **VAR 01**.
3. REFER SL 005 OF DRG. 34997000049 FOR MAKING SLOTS.
4. FOR ALL OTHER NOTES REFER DRG NO. 34997000093 & 34997000095

NOTES:-

CORE CLAMP PLATE

| SHT NO. | NO OF SHT |
|---------|-----------|
| 1439    | 2001200   |

|                        |           |             |     |                 |  |                       |                       |           |                  |
|------------------------|-----------|-------------|-----|-----------------|--|-----------------------|-----------------------|-----------|------------------|
| BILL<br>OF<br>MATERIAL | DEP<br>NO | NO OF<br>IT | VAR | TYPE OF PRODUCT | WORK ORDER<br>STANDARD                                   | DRG NO<br>24997000047 | CORE CODE<br>65170700 | REV<br>02 |                  |
|                        | 406       | 16          | 6   |                 | TITLE<br>COUNTING OF LIFTING PIN ON CLAM TOP END FRAME F |                       |                       |           | SHT NO<br>1 OF 2 |

| DU | VAR03 | VAR02 | VAR01 | VAR00 | REMARKS                                    | IT NO | DESCRIPTION  | DRAWING NO | IT.       | MATCODE                   | A / C | UT | UNIT | WT    | G / S |
|----|-------|-------|-------|-------|--|-------|--|------------|-----------|---------------------------|-------|----|------|-------|-------|
|    |       |       |       |       |  |       | MAT SIZE   | DETAILS    | VAR       | MAT SPEC                  |       |    | QTY  | ZONE  |       |
|    |       |       | 00001 |       | MACHINED ALL OVER                          | 001   | LIFTING PIN HTS. RUND BAR<br>TK WDT LEN ID OD DIM1<br>97 125 |            |           | AA1050201280<br>AA10501   |       | KG |      | 7.246 |       |
|    | 00001 | 00001 | 00001 | 00001 | CPP/ZPP                                    | 002   | HEX NUT M12 P -8<br>TK WDT LEN ID OD DIM1                    |            |           | AA7151115040<br>AA7151115 |       | KG |      | 0.017 |       |
|    | 00001 | 00001 | 00001 | 00001 | CPP/ZPP                                    | 003   | MACHINED WASHER 13 STEEL<br>TK WDT LEN ID OD DIM1            |            |           | AA7161001072<br>AA7161001 |       | KG |      | 0.006 |       |
|    | 00001 |       | 00001 | 00001 | CPP/ZPP<br>L=140                           | 004   | STEEL STUD M12 X 140<br>TK WDT LEN ID OD DIM1                | TR20048S   | 023<br>00 |                           |       | KG |      | 0.125 |       |
|    |       | 00001 |       | 00001 | MACHINED ALL OVER<br>HTS. ROUND BAR        | 005   | LIFTING PIN DIA 80 X 97<br>TK WDT LEN ID OD DIM1<br>97 80    |            |           | AA1050201248<br>AA10501   |       | KG |      | 2.690 |       |
|    |       | 00001 | 00001 | 00001 | M/C FROM M16 ROD &<br>CUT TO SUIT ON ASSY. | 006   | PERMALI ROD DIA 14 X 70<br>TK WDT LEN ID OD DIM1             | TR20043S   | 005<br>00 | BP9016046275<br>ST604627  |       | KG |      | 0.014 |       |
|    |       | 00001 |       |       | CPP/ZPP<br>WT=0.00089 X L<br>M12 X L       | 007   | STEEL STUD M12 X L<br>TK WDT LEN ID OD DIM1                  | TR20048S   | 023       |                           |       | KG |      |       |       |
|    | 00001 |       |       |       | MACHINED ALL OVER                          | 008   | LIFTING PIN HTS. BAR<br>TK WDT LEN ID OD DIM1<br>70 80       |            |           | AA1050201248<br>AA10501   |       | KG |      | 1.940 |       |
|    |       |       |       |       | M/C ALL OVER<br>DIA 125 X 70 HTS.BAR       | 009   | LIFTING PIN HTS. BAR<br>TK WDT LEN ID OD DIM1<br>70 125      |            |           | AA1050201280<br>AA10501   |       | KG |      | 5.230 |       |
|    | 00001 |       |       |       | M/C FROM M16 ROD &<br>CUT TO SUIT ON ASSY. | 010   | PERMALI ROD DIA 14 X 43<br>TK WDT LEN ID OD DIM1             | TR20043S   | 005<br>00 | BP9016046275<br>ST604627  |       | KG |      | 0.008 |       |
|    |       |       |       |       | CPP/ZPP                                    | 011   | STEEL STUD M12 X 241<br>TK WDT LEN ID OD DIM1                | TR20048S   | 023       |                           |       | KG |      | 0.214 |       |
|    |       |       |       |       | M/C ALL OVER<br>DIA 110 X 70 HTS. BAR      | 012   | LIFTING PIN HTS. BAR<br>TK WDT LEN ID OD DIM1<br>70 110      |            |           | AA1050201272<br>AA10501   |       | KG |      | 3.900 |       |

| DISTRIBUTION DETAILS |     |     |    |     |  | REV NO. 2 | PREP BY | CKD BY  | APPD BY     | DATE 08 FEB 2012   |            |
|----------------------|-----|-----|----|-----|--|-----------|---------|---------|-------------|--------------------|------------|
| TRX                  | FTM | TRE | QC | TRM |  | PREP BY   | CKD BY  | APPD BY | DATE        | DRG NO 24997000047 |            |
| 1                    | 0   | 1   | 0  | 3   |  | YGV       | BSB     | BSB     | 10 NOV 1990 |                    | SHT 1 OF 2 |







|                        |           |                    |   |                 |                           |             |           |     |             |      |
|------------------------|-----------|--------------------|---|-----------------|---------------------------|-------------|-----------|-----|-------------|------|
| BILL<br>OF<br>MATERIAL | DEP<br>NO | NO OF<br>IT    VAR |   | TYPE OF PRODUCT | WORK ORDER                | DRG NO      | CORE CODE | REV |             |      |
|                        |           |                    |   |                 | STD                       | 24998100017 | 65381228  | 02  |             |      |
|                        | 406       | 5                  | 1 | TRANSFORMER     | TITLE<br>CLAMPING DETAILS |             |           |     | CLAMP H.TS  |      |
|                        |           |                    |   |                 |                           |             |           |     | SHT NO<br>1 | OF 1 |

| DU | VAR03 | VAR02 | VAR01 | VAR00 | REMARKS                             | IT NO | DESCRIPTION      |     |     |    |     |      | DRAWING NO | IT. | MATCODE      |         | A / C | UT | UNIT WT  |  | G / S |     |
|----|-------|-------|-------|-------|-------------------------------------|-------|------------------|-----|-----|----|-----|------|------------|-----|--------------|---------|-------|----|----------|--|-------|-----|
|    |       |       |       |       |                                     |       | MAT SIZE         |     |     |    |     |      |            |     | DETAILS      | VAR     |       |    | MAT SPEC |  |       | QTY |
|    |       |       |       | 00001 | M/C TO DETAIL                       | 001   | BAR (HTS)        |     |     |    |     |      |            |     | BP9086055419 |         |       |    | 3.860    |  |       |     |
|    |       |       |       |       |                                     |       | TK               | WDT | LEN | ID | OD  | DIM1 |            |     |              | AA10501 |       |    |          |  |       |     |
|    |       |       |       |       |                                     |       |                  |     | 326 |    | 125 |      |            |     |              |         |       |    |          |  |       |     |
|    |       |       |       | 00001 | M/C ALL OVER                        | 002   | NUT (HTS)        |     |     |    |     |      |            |     | BP9016055428 |         |       |    | 1.600    |  |       |     |
|    |       |       |       |       |                                     |       | TK               | WDT | LEN | ID | OD  | DIM1 |            |     |              | AA10501 |       |    |          |  |       |     |
|    |       |       |       |       |                                     |       |                  |     | 70  |    | 140 |      |            |     |              |         |       |    |          |  |       |     |
|    |       |       |       | 00001 | SEE NOTE TO D/MAN<br>TURN TO DETAIL | 003   | GUIDE PIN (HTS)  |     |     |    |     |      |            |     | AA1050201280 |         |       |    | 7.200    |  |       |     |
|    |       |       |       |       |                                     |       | TK               | WDT | LEN | ID | OD  | DIM1 |            |     |              | AA10501 |       |    |          |  |       |     |
|    |       |       |       |       |                                     |       |                  |     | 105 |    | 125 |      |            |     |              |         |       |    |          |  |       |     |
|    |       |       |       | 00001 | TO DETAIL                           | 004   | BOLT (HTS)       |     |     |    |     |      |            |     | BP9016055436 |         |       |    | 2.560    |  |       |     |
|    |       |       |       |       |                                     |       | TK               | WDT | LEN | ID | OD  | DIM1 |            |     |              | AA10501 |       |    |          |  |       |     |
|    |       |       |       |       |                                     |       |                  |     | 185 |    |     |      |            |     |              |         |       |    |          |  |       |     |
|    |       |       |       | 00001 | MACHIN TO DETAIL                    | 005   | SPHERICAL WASHER |     |     |    |     |      |            |     | BP9016055444 |         |       |    | 0.170    |  |       |     |
|    |       |       |       |       |                                     |       | TK               | WDT | LEN | ID | OD  | DIM1 |            |     |              | AA10501 |       |    |          |  |       |     |
|    |       |       |       |       |                                     |       |                  |     | 15  |    | 80  |      |            |     |              |         |       |    |          |  |       |     |

15.39

| DISTRIBUTION DETAILS |     |     |     |  | REV NO. 2 |  | PREP BY |  | CKD BY  |  | APPD BY     |  | DATE 23 AUG 2017   |  |
|----------------------|-----|-----|-----|--|-----------|--|---------|--|---------|--|-------------|--|--------------------|--|
| TRE                  | TRM | TRX | JHS |  | PREP BY   |  | CKD BY  |  | APPD BY |  | DATE        |  |                    |  |
| 1                    | 3   | 1   | 1   |  | YGV       |  |         |  | BSB     |  | 06 JUL 1991 |  | DRG NO 24998100017 |  |
|                      |     |     |     |  |           |  |         |  |         |  |             |  | SHT 1 OF 1         |  |

SEE DETAIL "A"



|                        |           |                    |   |                 |   |                       |                       |                             |  |
|------------------------|-----------|--------------------|---|-----------------|---|-----------------------|-----------------------|-----------------------------|--|
| BILL<br>OF<br>MATERIAL | DEP<br>NO | NO OF<br>IT    VAR |   | TYPE OF PRODUCT | WORK ORDER  | DRG NO<br>24998100022 | CORE CODE<br>65381277 | REV<br>03                   |  |
|                        | 406       | 5                  | 1 | STANDARD        | TITLE<br>DASH POT DETAILS (30-TONNES)                      DASHPOT ASSY |                       |                       | SHT NO<br>1            OF 1 |  |

| DU | VAR03 | VAR02 | VAR01 | VAR00 | REMARKS                        | IT NO | DESCRIPTION |     |     |    |    |      | DRAWING NO | IT. | MATCODE      |  | A / C | UT | UNIT WT |      | G / S |
|----|-------|-------|-------|-------|--------------------------------|-------|-------------|-----|-----|----|----|------|------------|-----|--------------|--|-------|----|---------|------|-------|
|    |       |       |       |       |                                |       | MAT SIZE    |     |     |    |    |      | DETAILS    | VAR | MAT SPEC     |  |       |    | QTY     | ZONE |       |
|    |       |       |       | 00001 | TO DETAIL<br><br>DIA 140 X 48  | 002   | SCRU        |     |     |    |    |      |            |     | BP9016054685 |  |       | KG | 2.980   |      |       |
|    |       |       |       |       |                                |       | TK          | WDT | LEN | ID | OD | DIM1 |            |     | BP10299      |  |       |    |         |      |       |
|    |       |       |       |       |                                |       |             |     |     |    |    |      |            |     |              |  |       |    |         |      |       |
|    |       |       |       | 00001 | TO DETAIL<br><br>DIA 150 X 147 | 003   | CAP         |     |     |    |    |      |            |     | BP9096054652 |  |       | KG | 8.000   |      |       |
|    |       |       |       |       |                                |       | TK          | WDT | LEN | ID | OD | DIM1 |            |     | BP10299      |  |       |    |         |      |       |
|    |       |       |       |       |                                |       |             |     |     |    |    |      |            |     |              |  |       |    |         |      |       |
|    |       |       |       | 00001 | TO DETAIL<br><br>DIA 115 X 22  | 004   | CAP         |     |     |    |    |      |            |     | BP9096054679 |  |       | KG | 1.100   |      |       |
|    |       |       |       |       |                                |       | TK          | WDT | LEN | ID | OD | DIM1 |            |     | AA10501      |  |       |    |         |      |       |
|    |       |       |       |       |                                |       |             |     |     |    |    |      |            |     |              |  |       |    |         |      |       |
|    |       |       |       | 00001 | B.O.<br><br>DIA 3 X 260        | 005   | CIRCLIP     |     |     |    |    |      |            |     | BP9096054660 |  |       | KG | 0.016   |      |       |
|    |       |       |       |       |                                |       | TK          | WDT | LEN | ID | OD | DIM1 |            |     | BS EN 42     |  |       |    |         |      |       |
|    |       |       |       |       |                                |       |             |     |     |    |    |      |            |     |              |  |       |    |         |      |       |

12.096

|                      |     |     |    |     |  |           |  |         |  |         |  |                    |  |                  |  |
|----------------------|-----|-----|----|-----|--|-----------|--|---------|--|---------|--|--------------------|--|------------------|--|
| DISTRIBUTION DETAILS |     |     |    |     |  | REV NO. 3 |  | PREP BY |  | CKD BY  |  | APPD BY            |  | DATE 12 DEC 2018 |  |
| FTM                  | TRM | TRE | QC | TRX |  | PREP BY   |  | CKD BY  |  | APPD BY |  | DATE               |  |                  |  |
| 0                    | 3   | 1   | 0  | 1   |  | MS        |  | SNJ     |  | SKJ     |  | DRG NO 24998100022 |  | SHT 1 OF 1       |  |



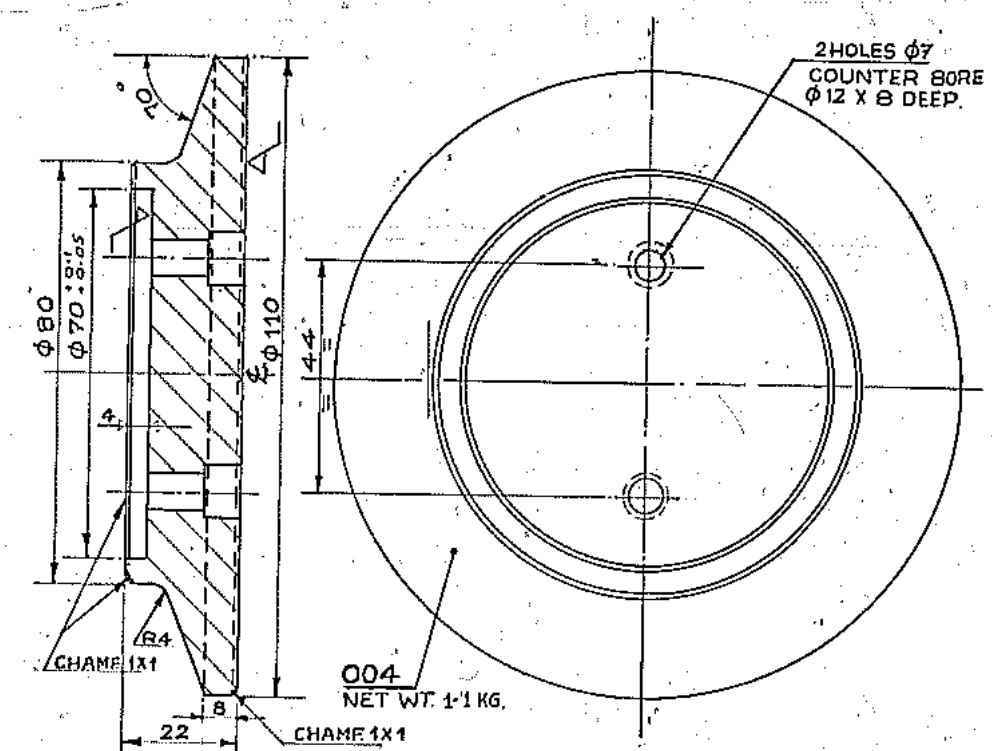
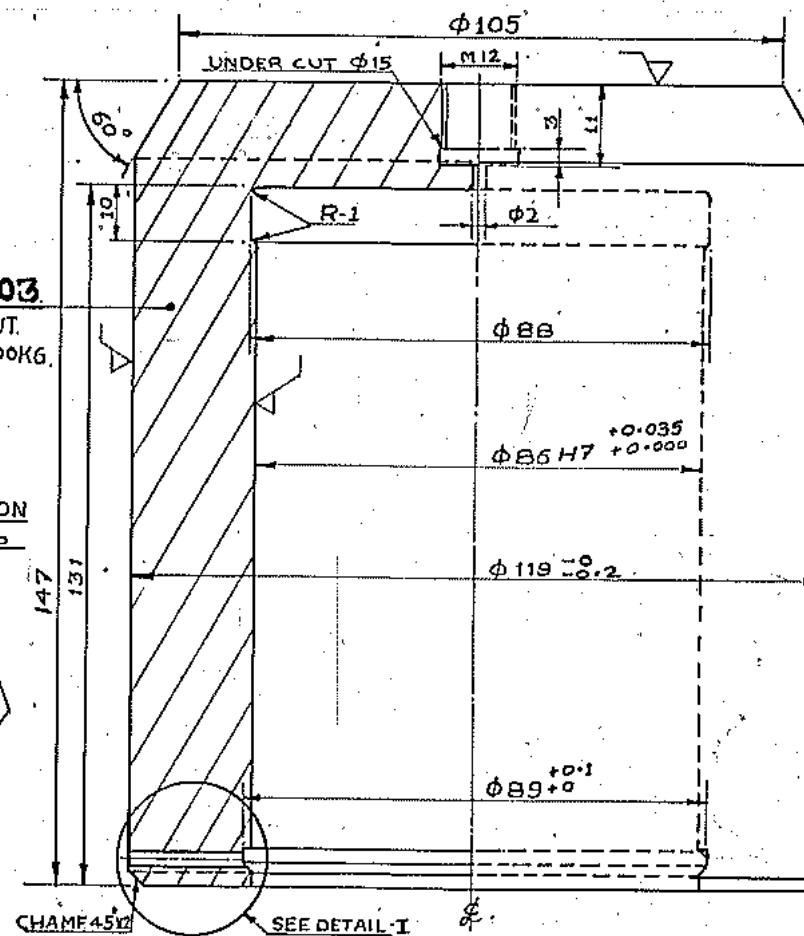
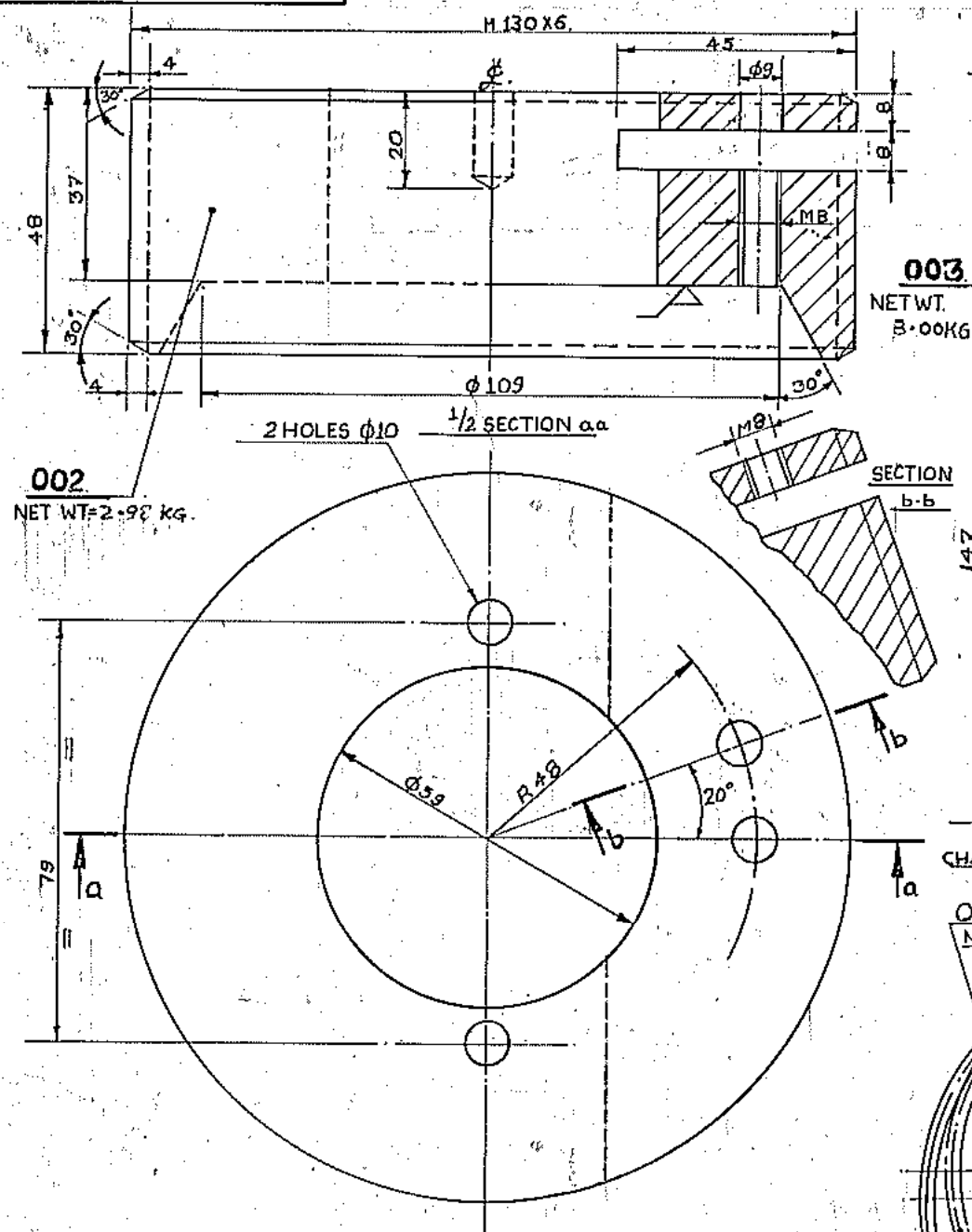
DRG. NO. 24998100022

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24998100004

SIGN &amp; DATE

INVENTORY NO.



| TOOL LIST |         |                            |
|-----------|---------|----------------------------|
| ITEM      | TOOL    | DESCRIPTION                |
| 001       | 1462990 | SPECIAL HOLLOW CUTTER      |
| 002       | 1464560 | THREAD CHECKING RING GAUGE |

| STYLE LIST   |               |              |      |        |
|--------------|---------------|--------------|------|--------|
| STYLE        | ITEM INCLUDED | DESCRIPTIONS | SIG. | DATE   |
| BP9016054685 | 002           | SCREEN       | ...  | 7.9.99 |
| BP9096054652 | 003           | CAP          | ...  | 7.9.99 |
| BP9096054679 | 004           | CAP          | ...  | 7.9.99 |
| BP9096054660 | 005           | CIRCLIP      | ...  | 7.9.9  |

| TABLE FOR STYLE |             |             |      |
|-----------------|-------------|-------------|------|
| STYLE           | DESCRIPTION | DRAWING     | ITEM |
| BP9086058779    | PISTON      | 44998100037 | 01   |
|                 | CAP         | 24998100022 | 02   |
|                 | CAP         | 24998100022 | 03   |
|                 | SCREW       | 24998100022 | 04   |
| BP9096054660    | CIRCLIP     | 24998100022 | 05   |



NOTE:-

1. THE TOLERANCES MUST BE ADHERED TO.

FOR BOM REFER DELINK BOM NO. 24998100022 SHT. 1 OF 1.

## ADDITIONAL INFORMATION

STATUS OF DRAWING  
STANDARD

DISTRIBUTION OF PRINTS

| TR | TRM | TCX |
|----|-----|-----|
| 1  | 3   | 1   |

| REV. | DATE     | ALTERED            |
|------|----------|--------------------|
| 01   | 03.07.99 | CHECKED & APPROVED |

| REV. | DATE   | ALTERED            |
|------|--------|--------------------|
| 02   | 7.9.99 | CHECKED & APPROVED |

| REV. | DATE     | ALTERED            |
|------|----------|--------------------|
| 03   | 03.07.99 | CHECKED & APPROVED |

| REV. | DATE     | ALTERED            |
|------|----------|--------------------|
| 04   | 03.07.99 | CHECKED & APPROVED |

TRANSFORMER

TYPE OF PRODUCT OR  
NAME OF CUSTOMER / PROJECT

| REV. | DATE     | ALTERED            |
|------|----------|--------------------|
| 01   | 03.07.99 | CHECKED & APPROVED |

| REV. | DATE   | ALTERED            |
|------|--------|--------------------|
| 02   | 7.9.99 | CHECKED & APPROVED |

| REV. | DATE     | ALTERED            |
|------|----------|--------------------|
| 03   | 03.07.99 | CHECKED & APPROVED |

| REV. | DATE     | ALTERED            |
|------|----------|--------------------|
| 04   | 03.07.99 | CHECKED & APPROVED |

| REV. | DATE     | ALTERED            |
|------|----------|--------------------|
| 05   | 03.07.99 | CHECKED & APPROVED |

DASH POT DETAILS

(30 TONNES)

03

03

03

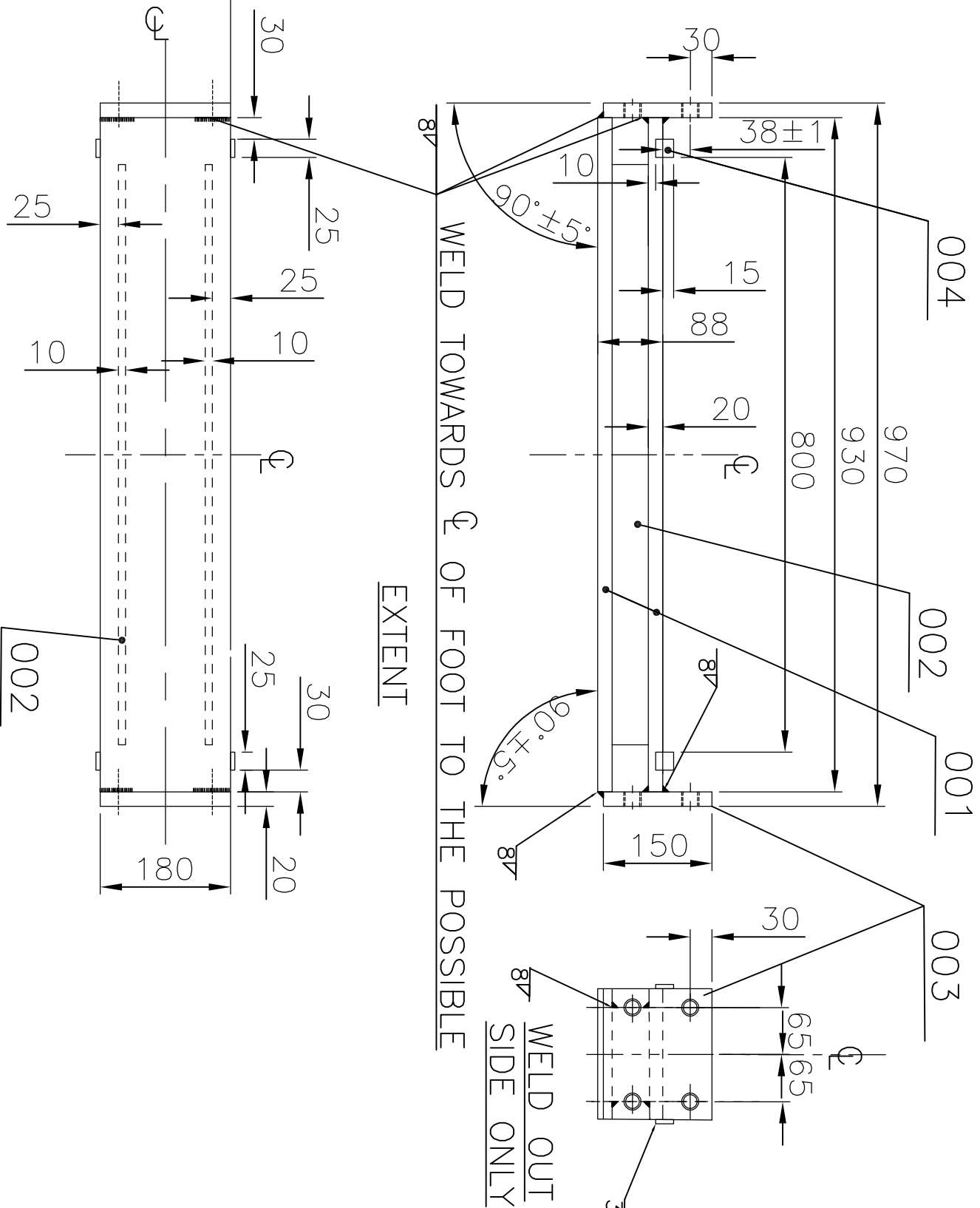
03

03

03



9L2000L6574C ON.DRG



## NOTES TO SHOP :-

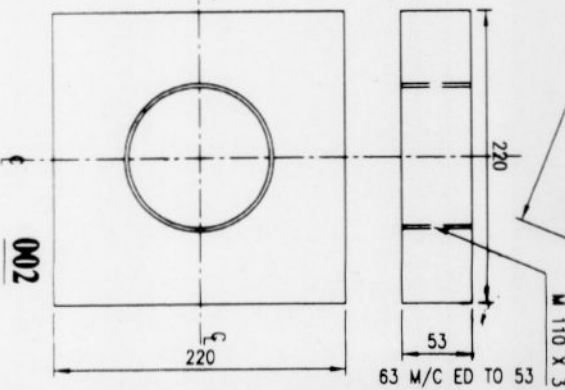
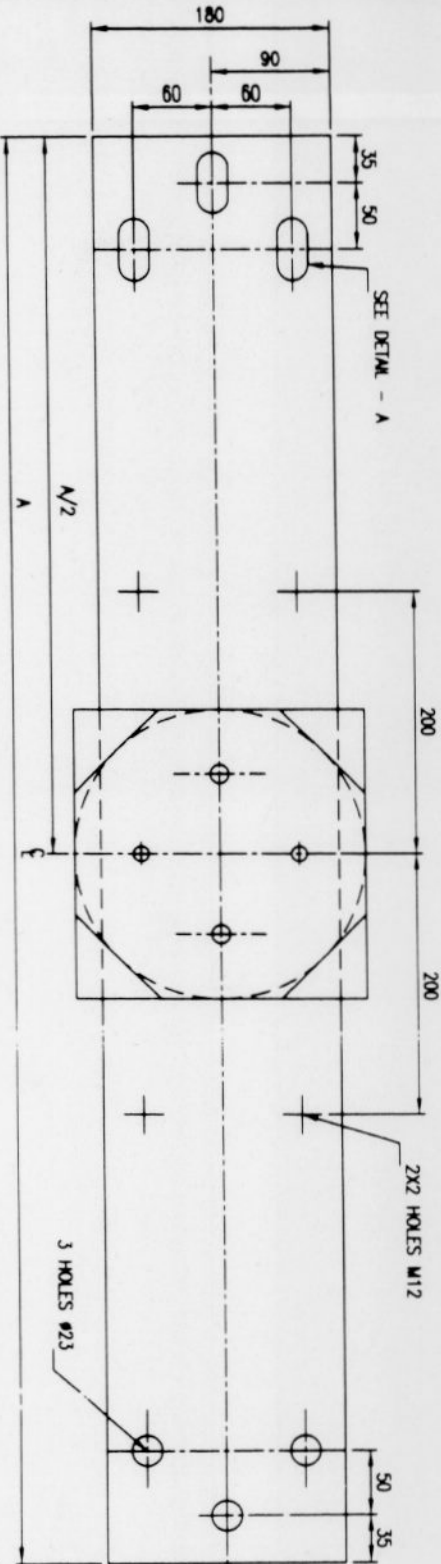
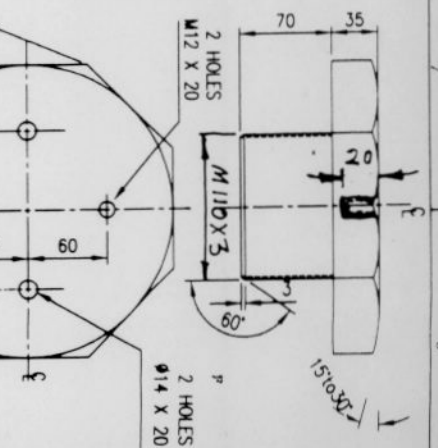
01. FOOT IS TO BE SHOT BLASTED AND PAINTED AS PER AND FRAME ASSY.
  02. FOR DELINK BOM REFER COMP. DRG.
- NO 34597000276 SHT 1.

|               |  |            |  |                               |  |  |  |          |  |     |  |      |  |         |  |         |  |          |  |      |  |
|---------------|--|------------|--|-------------------------------|--|--|--|----------|--|-----|--|------|--|---------|--|---------|--|----------|--|------|--|
| INVENTORY NO. |  | SIGN. DATE |  | 3 452 77 00357<br>REF.DRG.NO. |  | THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED.<br>IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY. |  |          |  |     |  |      |  |         |  |         |  |          |  |      |  |
| 1             |  | 2          |  | 3                             |  | 4  |  | 5        |  | 6   |  | 7    |  | 8       |  |         |  |          |  |      |  |
| REV           |  | DATE       |  | ALTERED                       |  | CHECKED  |  | APPROVED |  | REV |  | DATE |  | ALTERED |  | CHECKED |  | APPROVED |  | ZONE |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
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| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
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| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
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| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
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| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
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| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
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| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  | 009     |  | 010      |  | 011  |  |
| 001           |  | 002        |  | 003                           |  | 004  |  | 005      |  | 006 |  | 007  |  | 008     |  |         |  |          |  |      |  |

| BILL OF MATERIAL |       |       |       | DEP NO | NO OF IT                   | VAR   | TYPE OF PRODUCT     |     |     |    | WORK ORDER |      | DRG NO     | CORE CODE |                                   | REV      |    |        |                  |       |
|------------------|-------|-------|-------|--------|----------------------------|-------|---------------------|-----|-----|----|------------|------|------------|-----------|-----------------------------------|----------|----|--------|------------------|-------|
|                  |       |       |       | 406    | 4                          | 1     |                     |     |     |    | STD        |      |            |           | 34997000021                       | 65170707 |    | 05     |                  |       |
|                  |       |       |       |        |                            |       |                     |     |     |    | TITLE      |      |            |           | TOP CROSS BEAM    AUX TOP CROSS B |          |    |        | SHT NO 1    OF 1 |       |
| DU               | VAR03 | VAR02 | VAR01 | VAR00  | REMARKS                    | IT NO | DESCRIPTION         |     |     |    |            |      | DRAWING NO | IT.       | MATCODE                           | A / C    | UT | UNIT   | WT               | G / S |
|                  |       |       |       |        |                            |       | MAT SIZE            |     |     |    |            |      | DETAILS    | VAR       | MAT SPEC                          |          |    | QTY    | ZONE             |       |
|                  |       |       |       | 00001  | TO DETAIL<br>A = LG        | 001   | CROSS BEAM ( M.S )  |     |     |    |            |      |            | 000       | AA1011808137                      |          |    |        |                  |       |
|                  |       |       |       |        |                            |       | TK                  | WDT | LEN | ID | OD         | DIM1 |            | 00        | AA10108                           |          |    |        |                  |       |
|                  |       |       |       |        |                            |       | 20                  | 180 |     |    |            |      |            |           |                                   |          |    |        |                  |       |
|                  |       |       | 00001 | 00001  | TO DETAIL<br>M/C TO 53 M.M | 002   | PLATE               |     |     |    |            |      |            | 000       | AA1011808234                      | KG       |    | 16.200 |                  |       |
|                  |       |       |       |        |                            |       | TK                  | WDT | LEN | ID | OD         | DIM1 |            | 00        | AA10108                           |          |    |        |                  |       |
|                  |       |       |       |        |                            |       | 63                  | 220 | 220 |    |            |      |            |           |                                   |          |    |        |                  |       |
|                  |       |       | 00001 | 00001  |                            | 003   | BOLT ( M 110 X 58 ) |     |     |    |            |      |            | 000       |                                   | KG       |    | 18.500 |                  |       |
|                  |       |       |       |        |                            |       | TK                  | WDT | LEN | ID | OD         | DIM1 |            | 00        | AA10501                           |          |    |        |                  |       |
|                  |       |       |       |        |                            |       |                     |     |     |    |            |      |            |           |                                   |          |    |        |                  |       |
|                  |       |       | 00001 |        | TO DETAIL<br>A=LG          | 004   | CROSS BEAM HTS.     |     |     |    |            |      |            |           |                                   | KG       |    |        |                  |       |
|                  |       |       |       |        |                            |       | TK                  | WDT | LEN | ID | OD         | DIM1 |            |           | AA10122                           |          |    |        |                  |       |
|                  |       |       |       |        |                            |       | 20                  | 180 |     |    |            |      |            |           |                                   |          |    |        |                  |       |

34.7      34.7

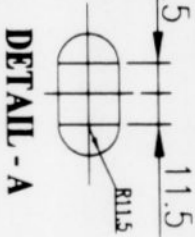
| DISTRIBUTION DETAILS |     |    |     |     |  | REV NO. 5 |  | PREP BY |  | CKD BY  |  | APPD BY     |  | DATE 27 OCT 2010   |  |            |
|----------------------|-----|----|-----|-----|--|-----------|--|---------|--|---------|--|-------------|--|--------------------|--|------------|
| TRM                  | TRX | QC | FTM | TRE |  | PREP BY   |  | CKD BY  |  | APPD BY |  | DATE        |  |                    |  |            |
| 3                    | 1   | 0  | 0   | 1   |  | AKP       |  | GU      |  | KKS     |  | 20 JAN 2003 |  | DRG NO 34997000021 |  | SHT 1 OF 1 |



NOTE TO D/MAN :-

1. GIVE DIMS. A ON ASSY. DRG.
  2. ALL STEEL PARTS ARE TO BE SHOT BLASTED AND PAINTED AS PER MD/WORK ORDER.
  3. VAR. 00 FOR BLK STEEL & VAR 01 FOR HTS.
  4. FOR DELIMBED BOW REFER DRG. NO. BOW 3 499 70 00021.
- WT OF VAR 00 OR 01 = [ 34.7+(0.0345 X A ) -2 ] KG.

1  
class 100  
0  
99 70 00021.  
-2 ] KG.



## DETAIL - A

NOTE TO SHOP :-

1. DRILL & TAP OF M10 ON ITEM 002 SHALL BE DONE BEFORE WELDING TO ITEM 001/004
2. MATCHING & MOVEMENT OF THREADS OF ITEM 002 & 003 TO BE ENSURED.
3. ALL SWAMP CORNERS TO BE ROUND OFF
4. FOR ASST REFER DRG NO 24991600002 / 34991900029

|                                    |   |
|------------------------------------|---|
| ADDITIONAL INFORMATION<br>STANDARD |   |
| STATUS OF DRAWING                  | U |
| DISTRIBUTION OF PLANTS             |   |

उत्पाद का प्रकार या  
श्रेणी / वर्गीकरण का नाम  
TYPE OF PRODUCT OR  
NAME OF CATEGORY/CLASS

| TRANSFORMER | APPN | NAME | SECTION | NO. | DATE |
|-------------|------|------|---------|-----|------|
| TRANSFORMER | APPN | NAME | SECTION | NO. | DATE |

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## TRANSFORMER

二、三、四、五、六、七、八、九、十

3 499 70 000 21

4









|                        |  |  |  |           |                    |   |                 |  |  |  |  |  |                       |                       |                       |  |
|------------------------|--|--|--|-----------|--------------------|---|-----------------|--|--|--|--|--|-----------------------|-----------------------|-----------------------|--|
| BILL<br>OF<br>MATERIAL |  |  |  | DEP<br>NO | NO OF<br>IT    VAR |   | TYPE OF PRODUCT |  |  |  | WORK ORDER<br>STANDARD                                 |  | DRG NO<br>34997000040 | CORE CODE<br>65170708 | REV<br>07             |  |
|                        |  |  |  | 406       | 4                  | 1 |                 |  |  |  | TITLE<br>CORE CLAMP FOOT (FOR AUXILARY      FOOT ASSY. |  |                       |                       | SHT NO<br>1      OF 1 |  |

| DU | VAR03 | VAR02 | VAR01 | VAR00 | REMARKS         | IT NO | DESCRIPTION |     |     |    |    |      | DRAWING NO | IT. | MATCODE      |  | A / C | UT | UNIT  | WT   | G / S |
|----|-------|-------|-------|-------|-----------------|-------|-------------|-----|-----|----|----|------|------------|-----|--------------|--|-------|----|-------|------|-------|
|    |       |       |       |       |                 |       | MAT SIZE    |     |     |    |    |      | DETAILS    | VAR | MAT SPEC     |  |       |    | QTY   | ZONE |       |
|    |       |       |       | 00001 | 10 TK X C X A   | 001   | PLATE       |     |     |    |    |      |            | 000 | AA1011808161 |  |       |    | 0.000 |      |       |
|    |       |       |       |       |                 |       | TK          | WDT | LEN | ID | OD | DIM1 |            | 00  | AA10108      |  |       |    |       |      |       |
|    |       |       |       |       |                 |       |             |     |     |    |    |      |            |     |              |  |       |    |       |      |       |
|    |       |       |       | 00002 | 12 TK X 180 X A | 002   | PLATE       |     |     |    |    |      |            | 000 | AA1011808188 |  |       |    | 0.000 |      |       |
|    |       |       |       |       |                 |       | TK          | WDT | LEN | ID | OD | DIM1 |            | 00  | AA10108      |  |       |    |       |      |       |
|    |       |       |       |       |                 |       |             |     |     |    |    |      |            |     |              |  |       |    |       |      |       |
|    |       |       |       | 00002 | 20 TK X 180 X B | 003   | PLATE       |     |     |    |    |      |            | 000 | AA1011808137 |  |       |    | 0.000 |      |       |
|    |       |       |       |       |                 |       | TK          | WDT | LEN | ID | OD | DIM1 |            | 00  | AA10108      |  |       |    |       |      |       |
|    |       |       |       |       |                 |       |             |     |     |    |    |      |            |     |              |  |       |    |       |      |       |
|    |       |       |       | 00004 |                 | 004   | STOPPER     |     |     |    |    |      |            | 000 | AA1011808030 |  |       |    | 0.020 |      |       |
|    |       |       |       |       |                 |       | TK          | WDT | LEN | ID | OD | DIM1 |            | 00  | AA10108      |  |       |    |       |      |       |
|    |       |       |       |       |                 |       | 6           | 18  | 25  |    |    |      |            |     |              |  |       |    |       |      |       |

.08

|                      |     |    |     |     |  |           |  |         |  |         |  |                    |  |                  |  |
|----------------------|-----|----|-----|-----|--|-----------|--|---------|--|---------|--|--------------------|--|------------------|--|
| DISTRIBUTION DETAILS |     |    |     |     |  | REV NO. 7 |  | PREP BY |  | CKD BY  |  | APPD BY            |  | DATE 19 MAR 2005 |  |
| TRM                  | TRX | QC | FTM | TRE |  | PREP BY   |  | CKD BY  |  | APPD BY |  | DATE               |  |                  |  |
| 3                    | 1   | 0  | 0   | 1   |  | MS        |  | SCJ     |  | JSK     |  | DRG NO 34997000040 |  | SHT 1 OF 1       |  |













86000026643 DNDJRD

NOTES:-

- 1- BEFORE SHIPPING CORE CLAMPING STRUCTURE FROM FTM/ANCILLARY INSPECTION SHOULD BE DONE TO MAKE SURE THAT THE OVERALL DIMENSIONS ARE NOT EXCEEDING THE DIMENSIONS GIVEN ON ASSEMBLY.
- 2- FOR WELDING DETAILS REFER DRG. 34997000095. ALL OTHER WELDS TO BE Z8\ CONTINUOUS UNLESS OTHERWISE SPECIFIED.
- 3- BUTT WELD IF PROVIDED IN DRAWING TO BE TESTED BY ULTRASONIC TESTING AS PER BP0850176 AND ACCEPTANCE TO BE DONE AS PER AA622101, GRADE-3 AND ALL OTHER WELD TO BE DP TESTED.
- 4- TOLERANCE IN CLAMPING STRUCTURE IS AS PER TRI01901 AND TRI01901.
5. SLOTS GIVEN IN CORE CLAMP PLATE IS TO BE DONE BY MACHINING PROCESS ONLY (WATER JET , MILLING OPERATION ETC) .
- 6- SHARP EDGES SHOULD BE REMOVED PROPERLY. MINIMUM RADIUS OF CHAMFERING TO BE R3.
- 7- ALL THE HOLES IN THE CLAMP PLATE AND END FRAME MUST BE DONE BY BORING PROCESS ONLY. FLAME CUT IS NOT ALLOWED.
- 8- DURING MATCHING OF CLAMPING STRUCTURE, CLAMP PLATE AND END FRAME SHOULD HAVE COMPLETE SURFACE CONTACT AT PIN POSITION.
- 9- INSIDE AREA OF HOLE IN CLAMP PLATE FOR LOCKING PIN IS NOT TO BE PAINTED..
- 10- ALL PLATES EQUAL TO 16 mm THICKNESS AND ABOVE SHALL BE ULTRASONIC TESTED AS PER BHEL SPEC. AA0850120/ASTMA435 . FABRICATOR HAS TO PRODUCE CO-RELATED TEST CERTIFICATE FROM MILL OR TO CARRY OUT UT TEST AT THEIR WORKS BY BHEL APPROVED NDT AGENCY. BHEL/TP1A SHALL RECORD REVIEW THE TEST CERTIFICATES.
- 11- DIMENSION OF PIN PAD ASSEMBLY SHOULD BE MEASURED AND CHECKED. APPROVAL FROM TRE IS REQUIRED.
- 12- CLAMPING STRUCTURE AND END FRAME TO BE PAINTED AS PER TRI0005P SERIAL NO. 22 CALLED ON RESPECTIVE DRAWING/WORK ORDER. ADHESION OF PAINT IS VERY CRITICAL AND SHALL BE CHECKED & WITNESSED BY QIX/TP1A.
- 13- SIZE OF PLATE MENTIONED IN BOM FOR DEVELOPED LENGTH OF ROLLED AND BEND ITEMS ARE BASED ON MEAN DIMENSIONS. FTM TO NOTE THAT BENDING AND ROLLING ALLOWANCES ARE TO BE ADDED IF REQUIRED.
14. FOR CUT OUTS ON END FRAME AND CLAMPING STRUCTURE, REFER RESPECTIVE DETAIL DRAWING.
- 15- MATERIAL TO AA10119 MAY BE USED AS AN ALTERNATE TO AA10108 AND VICE VERSA FOR MS PLATES.
- 16- CRITICAL DIMENSIONS MARKED AS (CR) ON THE DRAWINGS ARE IMPORTANT AND ARE TO BE ENSURED BY QC.
- 17- EARTHING PAD TOP FACE SHOULD NOT BE PAINTED DURING PAINTING OF END FRAME AND CLAMPING STRUCTURE.
- 18- MATERIAL TO SPEC AA10740 CAN BE USED AS AN ALTERNATIVE TO AA10739 AND VICE VERSA FOR STAINLESS STEEL PARTS.
- 19- FOR INSPECTION OF END FRAME CHECKLIST QC/TCB/EF/01 & QC/TCB/EF/02 AND ANY SPECIFIED CHECKLIST APPLICABLE FOR END FRAME SHALL BE FOLLOWED.
20. ALL OTHER ITEMS WHICH ARE UNAPPROACHABLE AFTER ASSEMBLY LIKE DASHPOT GUIDE ETC. SHALL BE NECESSARILY SHOT BLASTED BEFORE ASSEMBLY.
21. THREAD OF THE PIN WELDED ON HV AND LV SIDE OF CLAMP PLATE SHOULD MATCH WITH RESPECTIVE NUT. IT SHOULD BE CHECKED.
22. THREAD OF DASHPOT GUIDE SHOULD MATCH WITH RESPECTIVE LOCKING NUT. IT SHOULD BE CHECKED.

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|    |    |    |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|----|----|
| 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |    |
| 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |    |    |
| 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |    |    |    |
| 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |    |    |    |    |
| 6  | 7  | 8  | 9  | 10 | 11 | 12 |    |    |    |    |    |
| 7  | 8  | 9  | 10 | 11 | 12 |    |    |    |    |    |    |
| 8  | 9  | 10 | 11 | 12 |    |    |    |    |    |    |    |
| 9  | 10 | 11 | 12 |    |    |    |    |    |    |    |    |
| 10 | 11 | 12 |    |    |    |    |    |    |    |    |    |
| 11 | 12 |    |    |    |    |    |    |    |    |    |    |
| 12 |    |    |    |    |    |    |    |    |    |    |    |

|      |                       |          |     |  |
|------|-----------------------|----------|-----|--|
| REV  | DATE                  | ALTERED  | NKM |  |
| 02   | 12/04/17              | CHECKED  | AD  |  |
|      |                       | APPROVED | AD  |  |
| ZONE | NOTE NO. 03 MODIFIED. |          |     |  |

|                                      |                        |          |      |    |  |  |  |  |  |          |  |
|--------------------------------------|------------------------|----------|------|----|--|--|--|--|--|----------|--|
| ADDITIONAL INFORMATION               |                        |          |      |    |  |  |  |  |  | STANDARD |  |
| STATUS OF DRAWING                    |                        |          |      |    |  |  |  |  |  |          |  |
| U                                    |                        |          |      |    |  |  |  |  |  |          |  |
| DISTRIBUTION OF PRINTS               |                        |          |      |    |  |  |  |  |  |          |  |
| TRE                                  | TRX                    | TRM      | FTM  | QC |  |  |  |  |  |          |  |
| 1                                    | 1                      | 3        | 6    | 1  |  |  |  |  |  |          |  |
| REV                                  | DATE                   | ALTERED  | NITN |    |  |  |  |  |  |          |  |
| 01                                   | 08/04/16               | CHECKED  | AD   |    |  |  |  |  |  |          |  |
|                                      |                        | APPROVED | AD   |    |  |  |  |  |  |          |  |
| ZONE                                 | NOTE NO. 010 MODIFIED. |          |      |    |  |  |  |  |  |          |  |
| BHARAT HEAVY ELECTRICALS LTD. BHOPAL |                        |          |      |    |  |  |  |  |  |          |  |
| BHARAT HEAVY ELECTRICALS LTD. BHOPAL |                        |          |      |    |  |  |  |  |  |          |  |
| SCALE                                |                        |          |      |    |  |  |  |  |  |          |  |
| WEIGHT(kg)                           |                        |          |      |    |  |  |  |  |  |          |  |
| AKD                                  |                        |          |      |    |  |  |  |  |  |          |  |
| AKD                                  |                        |          |      |    |  |  |  |  |  |          |  |
| SD                                   |                        |          |      |    |  |  |  |  |  |          |  |
| 05.03.16                             |                        |          |      |    |  |  |  |  |  |          |  |
| REF TO ASSY DRG                      |                        |          |      |    |  |  |  |  |  |          |  |
| ITEM NO.                             |                        |          |      |    |  |  |  |  |  |          |  |
| ITEM                                 |                        |          |      |    |  |  |  |  |  |          |  |
| DRAWING NO.                          |                        |          |      |    |  |  |  |  |  |          |  |
| 34997000093                          |                        |          |      |    |  |  |  |  |  |          |  |
| REV                                  |                        |          |      |    |  |  |  |  |  |          |  |
| 02                                   |                        |          |      |    |  |  |  |  |  |          |  |
| SHT NO.                              |                        |          |      |    |  |  |  |  |  |          |  |
| SHT                                  |                        |          |      |    |  |  |  |  |  |          |  |
| NO. OF SHT.                          |                        |          |      |    |  |  |  |  |  |          |  |
| NO. OF SHT.                          |                        |          |      |    |  |  |  |  |  |          |  |

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DRG. NO. 34997000095

1. **WELDING BETWEEN END FRAME & PAD FOR END TIE ROD**

2. **WELDING BETWEEN END FRAME & PAD FOR GUIDE PIN**

3. **WELDING OF END FRAME PART & BACK COVER**

4. **WELDING BETWEEN END FRAME & LIFTING LUG**

5. **WELDING BETWEEN END FRAME & PAD FOR CROSS/LOCKING BEAM**

6. **WELDING BETWEEN END FRAME & R.S. ANGLE**

7. **WELDING BETWEEN HORIZONTAL CLAMP PLATE & AUX CLAMP PLATE**

8. **WELDING BETWEEN PLATE OF END FRAME**

9. **WELDING BETWEEN LIFTING LUG**

10. **WELDING BETWEEN HORIZONTAL CLAMP PLATE & INSULATION SUPPORT PLATE**

11. **WELDING BETWEEN END FRAME & DASHPOT GUIDE.**

12. **WELDING BETWEEN END FRAME & DASHPOT GUIDE.**

13. **WELDING BETWEEN HORIZONTAL CLAMP PLATE & MAIN CLAMP PLATE**

14. **WELDING BETWEEN CLAMP PLATE & LOCKING PIN**

**NOTE TO SHOP :-**  
1-WELD TO BE FREE FROM BLOW HOLES, CREVICES, UNDERCUT & OTHER WELDING DEFECT.  
2-CHECK ALL THE GAPS INSIDE THE END FRAME WHERE SHOTS CAN BE ENTRAPPED. IT SHOULD BE FILLED BY WELD BEFORE WELDING COVERING PLATE.

|   |          |         |     |          |   |     |            |                 |          |       |
|---|----------|---------|-----|----------|---|-----|------------|-----------------|----------|-------|
| ADDITIONAL INFORMATION  |          |         |     |          | TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT |     |            |                 |          |       |
| STANDARD  |          |         |     |          | TRANSFORMER/REACTOR                         |     |            |                 |          |       |
| STATUS OF DRAWING   |          |         |     |          | U   |     |            |                 |          |       |
| DISTRIBUTION OF PRINTS  |          |         |     |          | BHARAT HEAVY ELECTRICALS LTD. DRN           |     |            |                 |          |       |
| TRE   | TRX      | TRM     | FTM | QC       | Bhopal CHD                                  |     |            |                 |          |       |
| 1   | 1        | 3       | 6   | 1        | AKD   |     |            |                 |          |       |
| REV   | DATE     | ALTERED | SKG | APPROVED | DEPT  | TRE | WEIGHT(kg) | REF TO ASSY DRG | ITEM NO. | NO.OF |
| 01  | 12/09/18 | CHECKED | NM  | AKD      | CODE  | 408 | -          | -               | -        | NO.OF |
| NUMBERING DONE FOR WELDING DETAILS & DETAIL AT POINT 13 MODIFIED. |          |         |     |          | TITLE                                       |     |            |                 |          |       |
|   |          |         |     |          | WELDING DETAILS FOR CORE CLAMPING STRUCTURE |     |            |                 |          |       |
|   |          |         |     |          | DRAWING NO. 34997000095                     |     |            |                 |          |       |
|   |          |         |     |          | REV 02                                      |     |            |                 |          |       |
|   |          |         |     |          | SHT NO. NO.OF SHT.                          |     |            |                 |          |       |



**MASTER GENERAL ASSEMBLY**

BHEL, Bhopal

Transformer Engg. Department

[View MGES Detail](#)

|              |                        |             |   |          |                            |          |           |
|--------------|------------------------|-------------|---|----------|----------------------------|----------|-----------|
| W. O. No.    | <b>60212A50901</b>     | Year Code:  | 2020  | MGES_No: | 14599904281                | MID NO:  | 406410008 |
| Customer:    | M/S DVC<br>MEIJIA      | Rating:     | 315 MVA 16.5 /<br>240 kV GT M/S<br>DVC MEIJIA | Prod_GR: | 459                        | QA_NO:   |           |
| Elec. Spec.  | 601442                 | Trfr_SI_Nos | 6008114                                       |          |                            | No_Units | 1         |
| Design Group | SHRI<br>AKSHAY<br>DAVE | Elec. DO    | SHRI LALIT<br>KUMAR                           | Mech.DO  | SHRI<br>SAURABH<br>CHAUHAN | Ent Dt : | 6/11/2021 |

[>> Engg PI List](#)
[>> Engg Status](#)
[>> Engg.PI.](#)
[>> Imported Engg.PI.](#)
[>> GSOS PI.](#)
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[>> DCA](#)

[Instruction Booklet](#)
[CTSO](#)
[Tap Changer Data](#)
[Cooler Control Cabinet Data](#)

Manufacturing Plan : [6008114](#)**Shipping List :**

| Sl. No.            | Description                                      | Drg. no.                    | Rev No.            | Var. No | Qty | Issue dt.  | Choose | Remarks                            | Trm_dt | Docket |
|--------------------|--|-----------------------------|--------------------|---------|-----|------------|--------|------------------------------------|--------|--------|
| <a href="#">1</a>  | <a href="#">CORE AND END FRAME ASSY</a>          | <a href="#">04597000117</a> | <a href="#">00</a> | 0       | 1   | 9/18/2021  | Y      |                                    |        |        |
| <a href="#">3</a>  | <a href="#">CORE STEEL PARTS</a>                 | <a href="#">34597000275</a> | <a href="#">00</a> | 0       | 1   | 8/7/2021   | Y      |                                    |        |        |
| <a href="#">5</a>  | <a href="#">ADDITIONAL DRILLING ON E/F TOP</a>   | <a href="#">24597000168</a> | <a href="#">00</a> | 00      | 1   | 12/6/2021  | Y      |                                    |        |        |
| <a href="#">6</a>  | <a href="#">COIL ASSY</a>                        | <a href="#">04597700082</a> | <a href="#">00</a> | 00      | 3   | 10/18/2021 | Y      |                                    |        |        |
| <a href="#">7</a>  | <a href="#">LV WINDING ASSY</a>                  | <a href="#">24597200057</a> | <a href="#">00</a> | 00      | 3   | 10/12/2021 | Y      |                                    |        |        |
| <a href="#">8</a>  | <a href="#">HV WINDING ASSY</a>                  | <a href="#">04597400031</a> | <a href="#">00</a> | 00      | 3   | 10/14/2021 | Y      |                                    |        |        |
| <a href="#">15</a> | <a href="#">INSIDE FITTINGS</a>                  | <a href="#">04598100091</a> | <a href="#">00</a> | 00      | 1   | 10/19/2021 | Y      |                                    |        |        |
| <a href="#">16</a> | <a href="#">LV T.G. ASSY</a>                     | <a href="#">04598300114</a> | <a href="#">00</a> | 00      | 1   | 10/29/2021 | Y      |                                    |        |        |
| <a href="#">17</a> | <a href="#">HV T.G. ASSY</a>                     | <a href="#">04598200092</a> | <a href="#">00</a> | 00      | 1   | 10/29/2021 | Y      |                                    |        |        |
| <a href="#">21</a> | <a href="#">OUTSIDE SIDE FITTINGS</a>            | <a href="#">14591900210</a> | <a href="#">01</a> | 0       | 1   | 10/9/2021  | Y      |                                    |        |        |
| <a href="#">25</a> | <a href="#">WIRING SYSTEM</a>                    | <a href="#">14596500026</a> | <a href="#">00</a> | 0       | 1   | 2/18/2022  | Y      |                                    |        |        |
| <a href="#">28</a> | <a href="#">WALL SHUNT AND INSIDE PAD WELING</a> | <a href="#">34591600074</a> | <a href="#">00</a> | 00      | 1   | 10/19/2021 | Y      | for barrier assy refer inside mtg. |        |        |
| <a href="#">29</a> | <a href="#">TOP TANK ASSY</a>                    | <a href="#">14591600170</a> | <a href="#">02</a> | 0       | 1   | 9/14/2021  | Y      |                                    |        |        |
| <a href="#">31</a> | <a href="#">BOTTOM TANK ASSY</a>                 | <a href="#">24591700117</a> | <a href="#">00</a> | 00      | 1   | 8/7/2021   | Y      |                                    |        |        |
| <a href="#">32</a> | <a href="#">ADDITIONAL PAD WELDING</a>           | <a href="#">24591700118</a> | <a href="#">00</a> | 00      | 1   | 12/6/2021  | Y      |                                    |        |        |
| <a href="#">34</a> | <a href="#">HV TURRET ASSY. U PHASE</a>          | <a href="#">34592100078</a> | <a href="#">00</a> | 0       | 1   | 9/14/2021  | Y      |                                    |        |        |
| <a href="#">35</a> | <a href="#">HV TURRET ASSY. V PHASE</a>          | <a href="#">34592100079</a> | <a href="#">00</a> | 0       | 1   | 9/14/2021  | Y      |                                    |        |        |
| <a href="#">36</a> | <a href="#">HV TURRET ASSY. W PHASE</a>          | <a href="#">34592100080</a> | <a href="#">00</a> | 0       | 1   | 9/14/2021  | Y      |                                    |        |        |
| <a href="#">42</a> | <a href="#">LV TURRET ASSY. U PHASE</a>          | <a href="#">34592700056</a> | <a href="#">00</a> | 0       | 3   | 9/14/2021  | Y      |                                    |        |        |
| <a href="#">47</a> | <a href="#">CT MTG IN HV TURRET U PH</a>         | <a href="#">34592100081</a> | <a href="#">00</a> | 01      | 1   | 10/14/2021 | Y      |                                    |        |        |
| <a href="#">48</a> | <a href="#">CT MTG IN HV TURRET V PH</a>         | <a href="#">34592100081</a> | <a href="#">00</a> | 00      | 1   | 10/14/2021 | Y      |                                    |        |        |
| <a href="#">49</a> | <a href="#">CT MTG IN HV TURRET W PH</a>         | <a href="#">34592100081</a> | <a href="#">00</a> | 01      | 1   | 10/14/2021 | Y      |                                    |        |        |
| <a href="#">50</a> | <a href="#">CT MTG IN HV TURRET HVN PH</a>       | <a href="#">34598100215</a> | <a href="#">00</a> | 00      | 1   | 10/16/2021 | Y      |                                    |        |        |
| <a href="#">51</a> | <a href="#">BLANKING I</a>                       | <a href="#">34598800240</a> | <a href="#">00</a> | 0       | 1   | 10/9/2021  | Y      |                                    |        |        |
| <a href="#">56</a> | <a href="#">MAIN CONS. P/W. SYSTEM</a>           | <a href="#">24595100060</a> | <a href="#">00</a> | 0       | 1   | 10/5/2021  | Y      |                                    |        |        |
| <a href="#">59</a> | <a href="#">BLANKING II</a>                      | <a href="#">34598800241</a> | <a href="#">00</a> | 0       | 1   | 10/9/2021  | Y      |                                    |        |        |

|                            |   |                                    |                           |    |   |            |   |   |
|----------------------------|---|------------------------------------|---------------------------|----|---|------------|---|---|
| <a href="#"><u>60</u></a>  | <a href="#"><u>GENERAL ARRANGEMENT OF CONTROL CABINET</u></a>             | <a href="#"><u>34596200177</u></a> | <a href="#"><u>00</u></a> | 00 | 1 | 8/20/2021  | Y | FOR SITE STORAGE - OFLOAD CONDITION PAINT SHADE AS PER 632 OF IS:5, SL NO: 22 |
| <a href="#"><u>79</u></a>  | <a href="#"><u>MAIN CONSERVATOR</u></a>                                   | <a href="#"><u>34593900055</u></a> | <a href="#"><u>00</u></a> | 0  | 1 | 10/5/2021  | Y |   |
| <a href="#"><u>112</u></a> | <a href="#"><u>PAINTING DETAILS FOR TANK,E/F ASSY AND ACCESSORIES</u></a> | <a href="#"><u>TR10005P</u></a>    | <a href="#"><u>21</u></a> | 00 | 1 | 1/17/2022  | Y |   |
| <a href="#"><u>129</u></a> | <a href="#"><u>WTI- LV CT MOUNTING</u></a>                                | <a href="#"><u>34592700057</u></a> | <a href="#"><u>00</u></a> | 00 | 1 | 10/16/2021 | Y |   |
| <a href="#"><u>133</u></a> | <a href="#"><u>COMPLETE HOUSING DRG. OF CONTROL CABINET</u></a>           | <a href="#"><u>14996200325</u></a> | <a href="#"><u>01</u></a> | 0  | 1 | 8/20/2021  | Y |   |
| <a href="#"><u>134</u></a> | <a href="#"><u>BOM OF HOUSING DRG. OF CONTROL CABINET</u></a>             | <a href="#"><u>24996200353</u></a> | <a href="#"><u>00</u></a> | 0  | 1 | 8/20/2021  | Y |   |
| <a href="#"><u>136</u></a> | <a href="#"><u>SCHEMATIC DIAGRAM OF CONTROL CABINET</u></a>               | <a href="#"><u>34596200176</u></a> | <a href="#"><u>01</u></a> | 0  | 1 | 8/20/2021  | Y |   |
| <a href="#"><u>138</u></a> | <a href="#"><u>ANNEXURE-I FOR CONTROL CABINET</u></a>                     | <a href="#"><u>44596300005</u></a> | <a href="#"><u>00</u></a> | 0  | 1 | 8/20/2021  | Y |   |