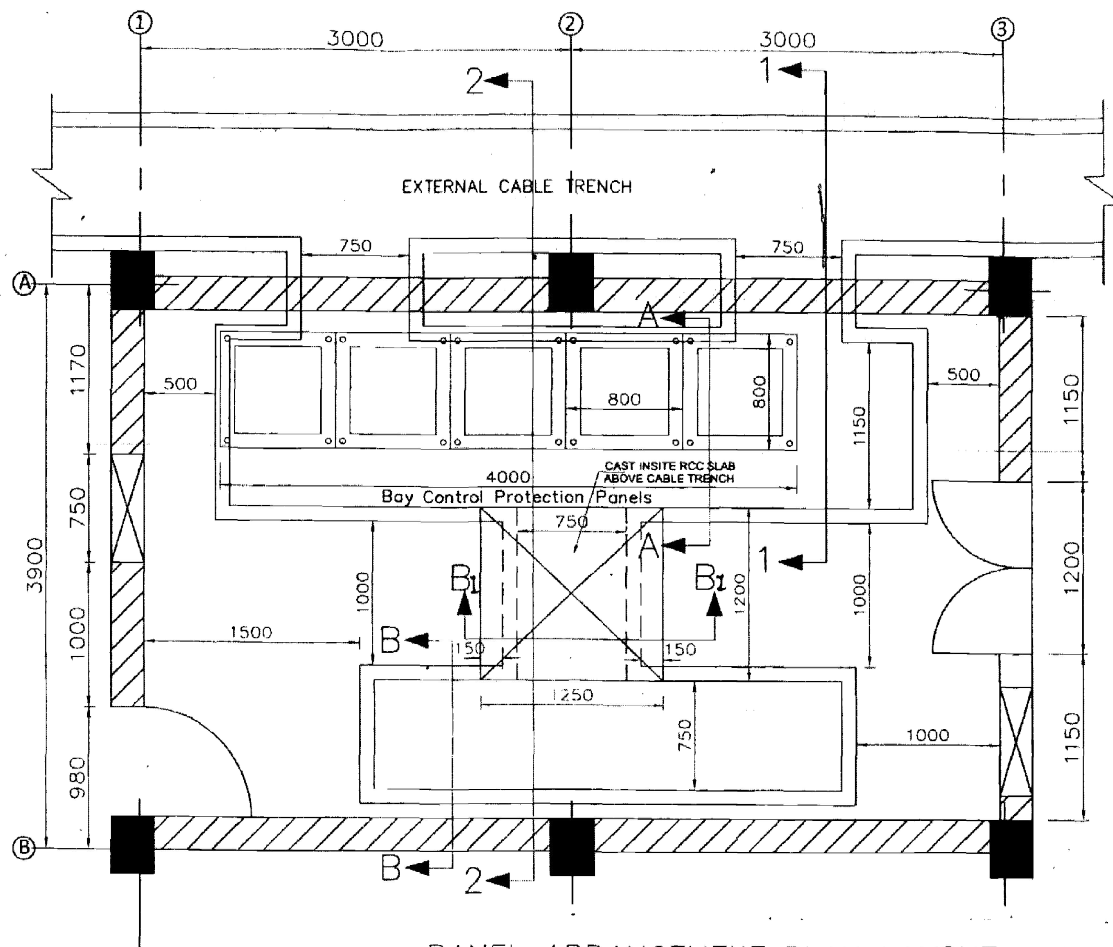
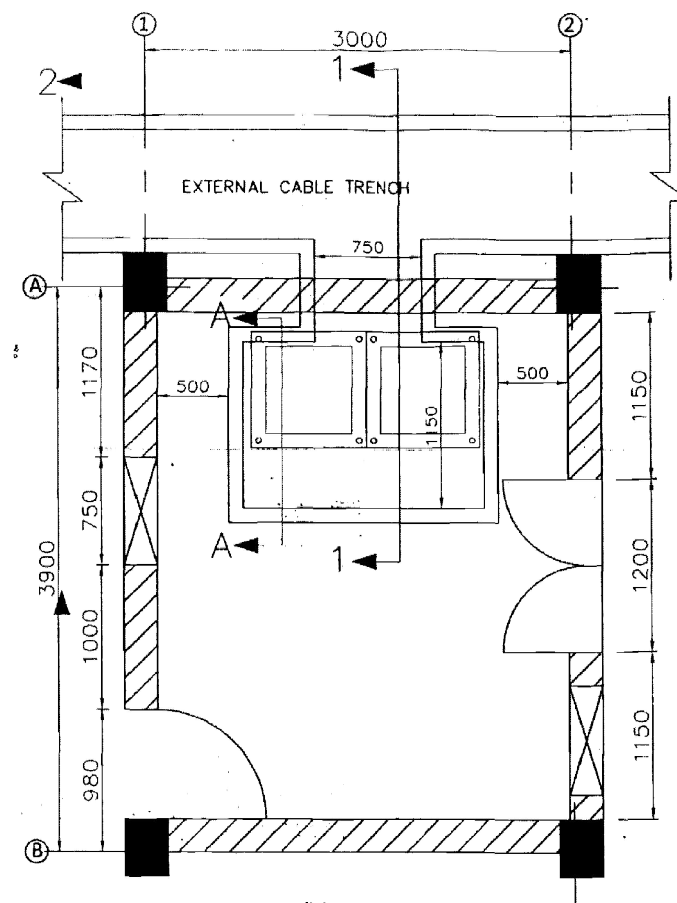




PANEL ARRANGEMENT PLAN LAYOUT



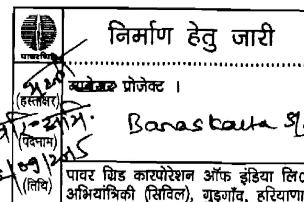
PANEL ARRANGEMENT PLAN LAYOUT

### NOTES.:

- 1) ALL DIMENSIONS ARE IN MM. AND LEVEL ARE IN METER. UNTIL OTHERWISE SPECIFIED.
- 2) FOR INTERNAL CABLE TRENCH LAYOUT REFER APPROVED SUB-STATION SPECIFIC ELECTRICAL DRAWING.
- 3) PANELS SHOWN ARE INDICATIVE ONLY.
- 4) ALL CABLE ENTRIES SHALL BE PROVIDED WITH "CABLE TRANSIT SYSTEM".

### REFERENCE DRG.:

STANDARD SWITCHYARD PANEL ROOM.  
DRG. NO.: C-ENGG-STD-SPR-STR-3011 (Rev-01) DATED: 10.12.2010



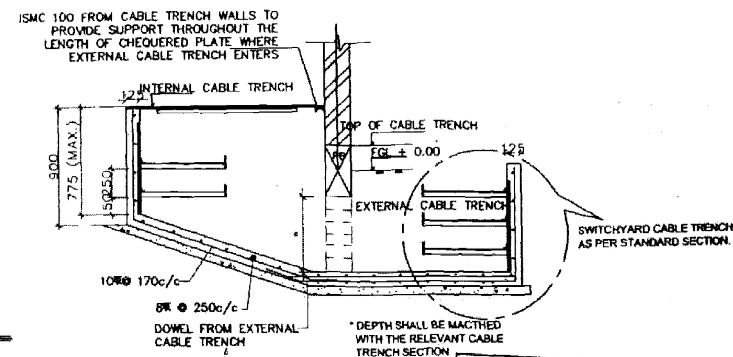
R1- SLAB FOR CABLE TRENCH ADDED

POWER GRID CORPORATION  
OF INDIA LIMITED  
(A Government of India Enterprise)

PROJECT : 765/400/220 KV SUB-STATION.....

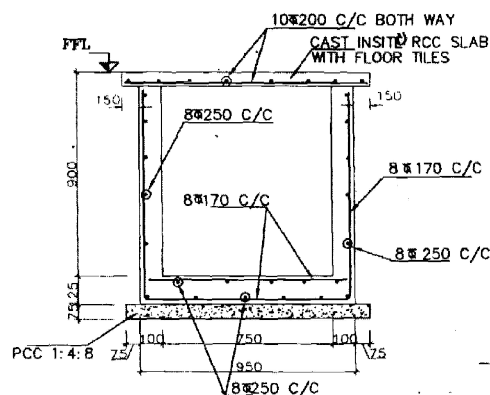
TITLE : STANDARD SWITCHYARD PANEL ROOM  
(FOR 6 & 3 METER.)  
GA & R.C.C DETAIL OF INTERNAL CABLE TRENCH  
DRAWING NO. C-ENGG-STD-SPR-STR-3012  
(SH 2 OF 3) SCALE: 1/1

|                                        |                                      |                                        |                                      |                                       |                  |
|----------------------------------------|--------------------------------------|----------------------------------------|--------------------------------------|---------------------------------------|------------------|
| PREP BY:<br>T.K. SONDIYA<br>JE (CIVIL) | REVD BY:<br>S. SHARMA<br>CDE (CIVIL) | REVD BY:<br>R. SIVASTAVAN<br>DOM (S/S) | REVD BY:<br>S. PANDEY<br>DOM (CIVIL) | REVD BY:<br>K. RAJURAM<br>DOM (CIVIL) | DATE:<br>16.4.17 |
|----------------------------------------|--------------------------------------|----------------------------------------|--------------------------------------|---------------------------------------|------------------|



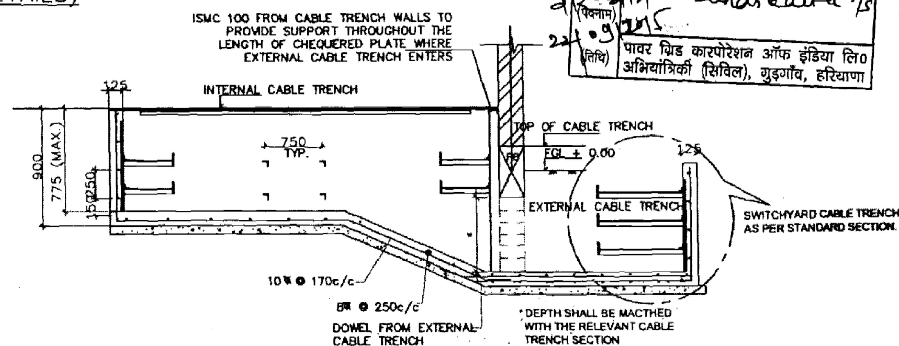
DETAIL - 'Y'  
TYPICAL BOLT ARRANGEMENT

SECTION 1-1

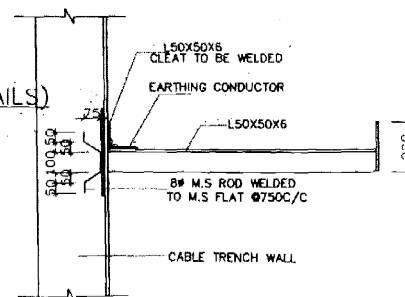


SECTION A-A  
(SHOWING REINFORCEMENT DETAILS)

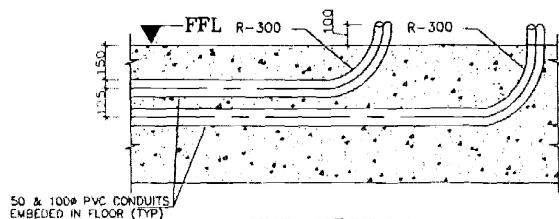
SECTION B1-B1  
(SHOWING REINFORCEMENT DETAILS)



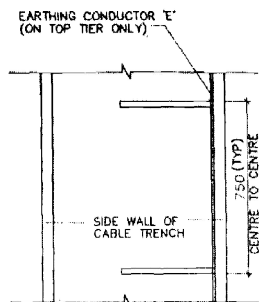
SECTION 2-2



### TYPICAL CABLE SUPPORT



TYP. SECTION



CABLE TRAY SUPPORT (TYP)

- NOTES :-

1. ALL DIMENSION ARE IN MM UNLESS NOTED OTHERWISE.
2. FOR NOTES REFER DRG. NO. : C-ENG-STD-SPR-STR-3011
3. FOR LAYOUT REFER DRG. NO. : C-ENG-STD-SPR-STR-3012 (SHEET 1 OF 2)
4. TOP OF CHEQUERED PLATE TO FLUSH WITH FINISHED FLOOR LEVEL
5. THIS DRAWING SHALL BE MATCHED WITH VENDORS APPROVED INTERNAL CABLE TRENCH LAYOUT DRAWING BEFORE START OF CONSTRUCTION
6. ALL WELDS ARE 6MM FILLET CONTINUOUS WELD UNLESS OTHERWISE SPECIFIED
7. ISMC 1000 SHALL BE PROVIDED @ 1000 C/C TO SUPPORT CHEQUERED PLATE WHEREVER CABLE TRENCH WIDTH EXCEEDS 1000 MM.
8. ISMC 1000 SHALL BE PROVIDED BELOW PANELS ALSO.
9. FOR CABLE TRENCH WITH LESSER WIDTH 150x50x5 STIFFENER SHALL BE WELDED WITH CHEQUERED PLATE @ 1000 C/C.

R1- SLAB FOR CABLE TRENCH ADDED

POWER GRID CORPORATION  
OF INDIA LIMITED  
(A Government of India Enterprise)

PROJECT : 765/400/220 KV SUB-STATION

TITLE : STANDARD SWITCHYARD PANEL ROOM  
GA & R.C.C DETAIL OF INTERNAL CABLE TRENCH

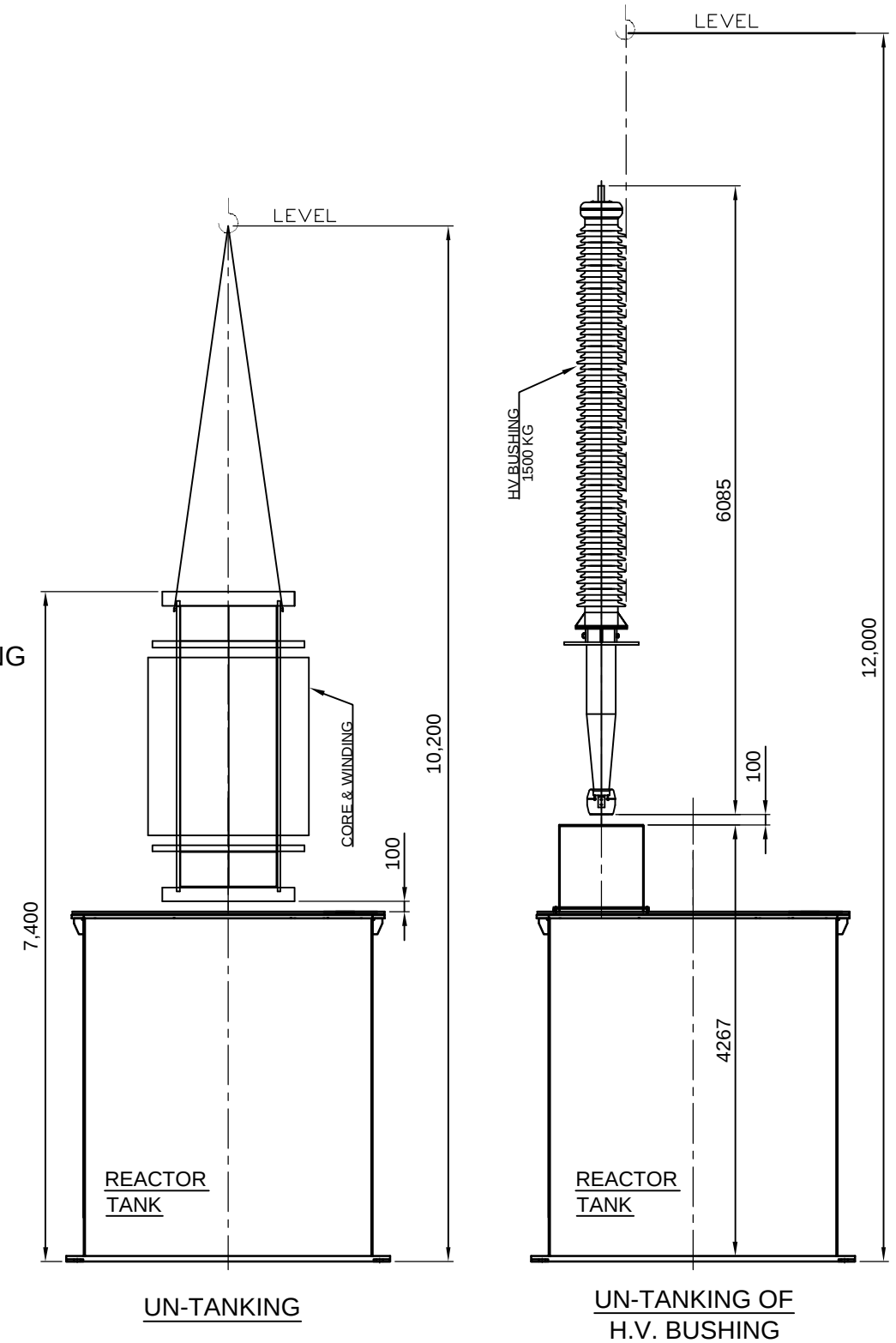
|             |                                           |       |     |
|-------------|-------------------------------------------|-------|-----|
| DRAWING NO. | C-ENGG-STD-SPR-STR-3012<br>(SHEET 1 OF 1) | SCALE | REV |
|             |                                           | NTS   | 1   |

|                                     |                      |                           |                      |                        |
|-------------------------------------|----------------------|---------------------------|----------------------|------------------------|
| 7/9/11                              | <del>Signature</del> | <del>Signature</del>      | 4/20/11              | <del>Signature</del>   |
| PREP BY:<br>T.K.SONDHYA<br>E. (SMA) | REVO BY:<br>S.SHARMA | REVO BY:<br>R. SRIVASTAVA | REVO BY:<br>S.PANDEY | REVO BY:<br>K.RAGHURAM |

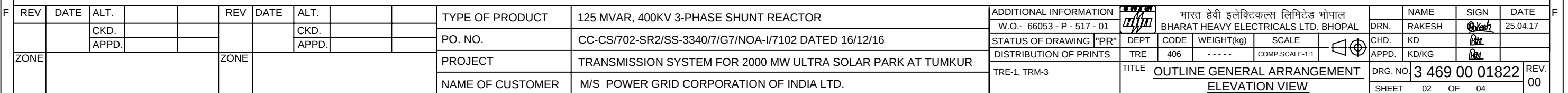
IMPORTANT NOTE :-

- ## MIN. AIR CLEARANCES

|                |        |        |
|----------------|--------|--------|
|                | 420 KV | 145 KV |
| PHASE TO PHASE | 3600   | NA     |
| PHASE TO EARTH | 3100   | 1050   |



|      |      |       |  |  |      |      |       |  |  |                  |                                                            |                            |                                                                                                                                                                                                      |      |            |                |                                                                                       |        |                                                                                       |                                                                                       |      |    |  |
|------|------|-------|--|--|------|------|-------|--|--|------------------|------------------------------------------------------------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------|----------------|---------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------|----|--|
| REV  | DATE | ALT.  |  |  | REV  | DATE | ALT.  |  |  | TYPE OF PRODUCT  | 125 MVAR, 400KV 3-PHASE SHUNT REACTOR                      | ADDITIONAL INFORMATION     | <div><div></div><div>भारत हेवी इलेक्ट्रिकल्स लिमिटेड भोपाल<br/>BHARAT HEAVY ELECTRICALS LTD. BHOPAL</div></div> |      |            |                |                                                                                       | NAME   | SIGN                                                                                  | DATE                                                                                  | F    |    |  |
|      |      | CKD.  |  |  |      |      | CKD.  |  |  | PO. NO.          | CC-CS/702-SR2/SS-3340/7/G7/NOA-I/7102 DATED 16/12/16       | W.O.- 66053 - P - 517 - 01 |                                                                                                                                                                                                      |      |            |                | DRN.                                                                                  | RAKESH |  | 25.04.17                                                                              |      |    |  |
|      |      | APPD. |  |  |      |      | APPD. |  |  | PROJECT          | TRANSMISSION SYSTEM FOR 2000 MW ULTRA SOLAR PARK AT TUMKUR | STATUS OF DRAWING "PR"     | DEPT                                                                                                                                                                                                 | CODE | WEIGHT(kg) | SCALE          |  | CHD.   | KD                                                                                    |  |      |    |  |
| ZONE |      |       |  |  | ZONE |      |       |  |  | NAME OF CUSTOMER | M/S POWER GRID CORPORATION OF INDIA LTD.                   | DISTRIBUTION OF PRINTS     | TRE                                                                                                                                                                                                  | 406  | ----       | COMP.SCALE:1:1 |                                                                                       | APPD.  | KD/KG                                                                                 |  |      |    |  |
|      |      |       |  |  |      |      |       |  |  |                  |                                                            | TRE-1, TRM-3               | TITLE                                                                                                                                                                                                |      |            |                | DRG. NO. 3 469 00 01822                                                               |        |                                                                                       |                                                                                       | REV. | 00 |  |
|      |      |       |  |  |      |      |       |  |  |                  |                                                            |                            |                                                                                                                                                                                                      |      |            | DETAIL         |                                                                                       |        |                                                                                       | SHEET 01 OF 04                                                                        |      |    |  |





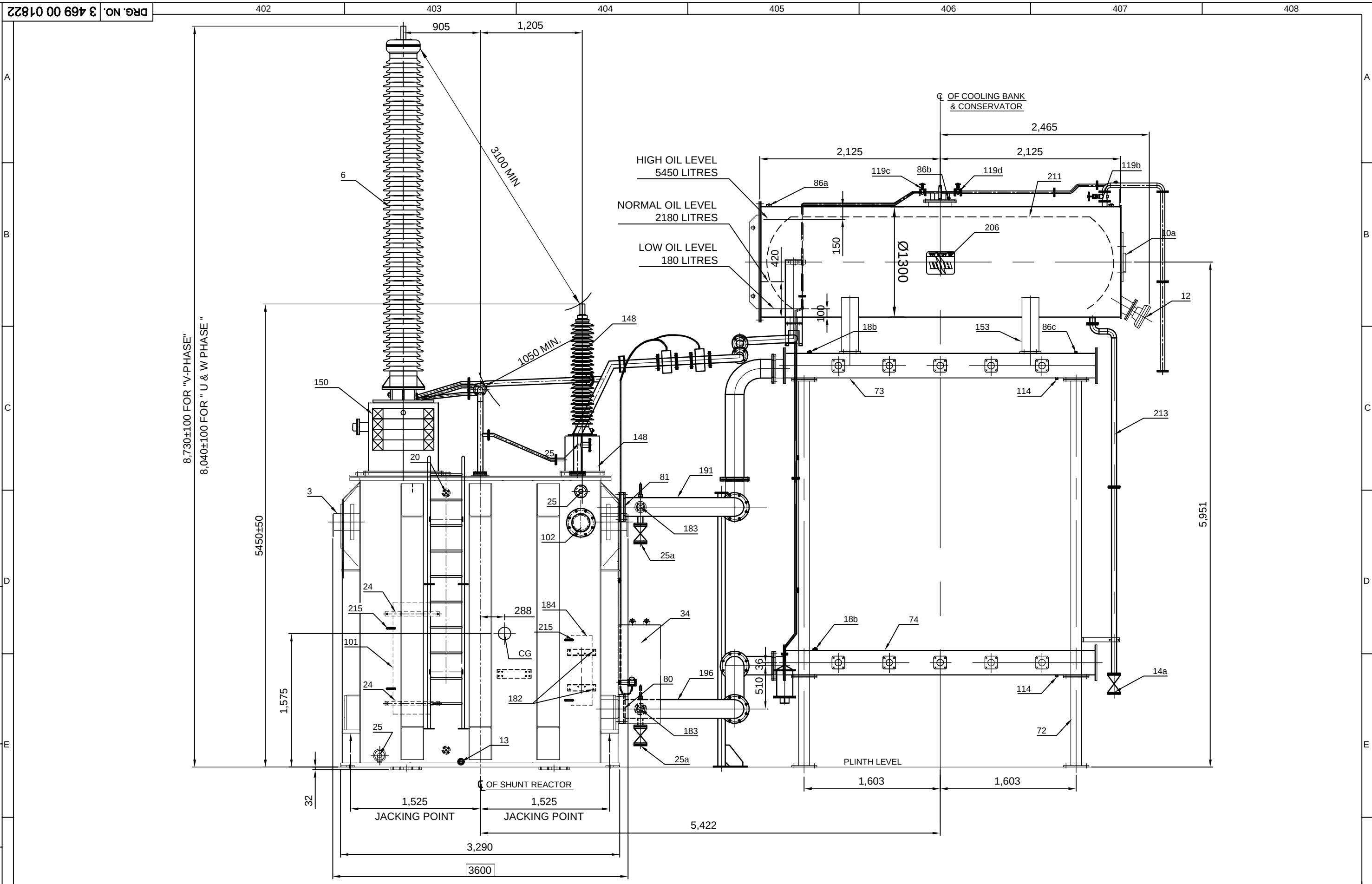
|          |                |               |          |
|----------|----------------|---------------|----------|
|          | NAME           | SIGN          | DATE     |
| DRN.     | RAKESH         | <u>Rakesh</u> | 25.04.17 |
| CHD.     | KD             | <u>KD</u>     |          |
| APPD.    | KD/KG          | <u>KD</u>     |          |
| DRG. NO. | 3 469 00 01822 |               | REV.     |
| SHEET    | 03             | OF 04         | 00       |

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REF.DRG.NO.

SIGN/DATE

INVENTORY NO.



| REV | DATE | ALT.  |  |  | REV | DATE | ALT.  |  |  | TYPE OF PRODUCT  | 125 MVAR, 400KV 3-PHASE SHUNT REACTOR                      | ADDITIONAL INFORMATION | W.O.- 66053 - P - 517 - 01 | DEPT | CODE | WEIGHT(kg) | SCALE          | NAME     | SIGN           | DATE     |
|-----|------|-------|--|--|-----|------|-------|--|--|------------------|------------------------------------------------------------|------------------------|----------------------------|------|------|------------|----------------|----------|----------------|----------|
|     |      | CKD.  |  |  |     |      | CKD.  |  |  | PO. NO.          | CC-CS/702-SR2/SS-3340/7/G7/NOA-I/7102 DATED 16/12/16       | STATUS OF DRAWING "PR" | DISTRIBUTION OF PRINTS     | TRE  | 406  | ----       | COMP.SCALE-1:1 | DRN.     | RAKESH         | 25.04.17 |
|     |      | APPD. |  |  |     |      | APPD. |  |  | PROJECT          | TRANSMISSION SYSTEM FOR 2000 MW ULTRA SOLAR PARK AT TUMKUR | TRE-1, TRM-3           |                            |      |      |            |                | CHD.     | KD             |          |
|     |      |       |  |  |     |      |       |  |  | NAME OF CUSTOMER | M/S POWER GRID CORPORATION OF INDIA LTD.                   |                        |                            |      |      |            |                | APPD.    | KD/KG          |          |
|     |      |       |  |  |     |      |       |  |  |                  |                                                            |                        |                            |      |      |            |                | DRG. NO. | 3 469 00 01822 | REV.     |
|     |      |       |  |  |     |      |       |  |  |                  |                                                            |                        |                            |      |      |            |                | SHEET    | 04             | 00       |
|     |      |       |  |  |     |      |       |  |  |                  |                                                            |                        |                            |      |      |            |                | OF       | 04             |          |

Rakesh

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REF.DRG.NO.

SIGN. DATE

INVENTORY NO.

DRG. NO. 3 469 00 01831

102

103

104

105

106

107

108

NOTES :-

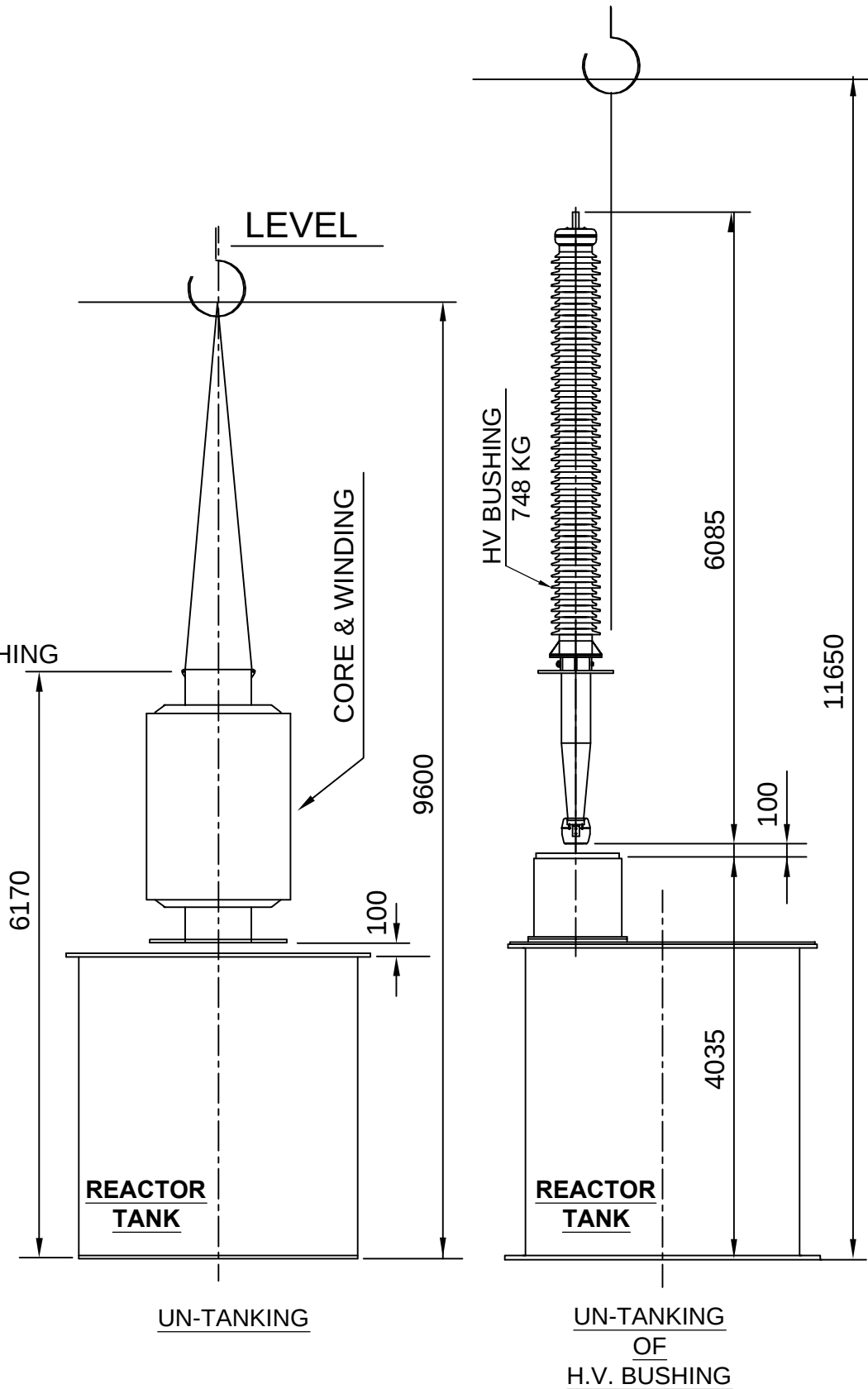
1. WHEN REFERRING THIS DRAWING PLEASE QUOTE MVAR & W.O. NO.
2. 320 DIA. TWIN BI-DIRECTIONAL ROLLERS MOUNTED AT 1676 mm RAIL GAUGE IN BOTH DIRECTION ARE PROVIDED FOR MOVEMENT OF REACTOR AT SITE AND ROLLERS ARE TO BE REMOVED BEFORE ERECTION
3. PAINT SHADE SHALL BE RAL 7035.
4. WIRING FROM INSTRUMENT CTS. ETC. ARE NOT SHOWN FOR CLARITY.
5. FOUNDATION BOLTS ARE IN THE SCOPE OF BHEL SUPPLY.
6. FOR PART LIST OF OUTLINE GENERAL ARRANGEMENT REFER DRAWING NO. 3 469 00 01832.
7. DIMENSIONS SHOWN THUS  ARE OVERALL SHIPPING DIMENSIONS EXCLUSIVE OF PACKING.
8. DIMENSIONS SHOWN ARE WITH REF.TO PLINTH LEVEL.
9. FOR TANK COVER BOLTED REFER DETAIL 'B' SHEET NO. 03.
10. HV, HVN BUSHING ARE BOUGHT OUT ITEM. SO DIMENSION/WEIGHT RELATED TO THESE BUSHING ARE TENTATIVE. SHALL BE FINALIZED ( IF REQUIRED) AFTER VENDOR FINALIZATION.

IMPORTANT NOTE :-

1. THE DESIGN FEATURES SHOWN ON THIS DRAWING (GENERALLY INLINE WITH IS:5553/IEC: 60076-6 APPLICABLE STANDARD & AGREED CUSTOMER SPECIFICATION) MEETS THE STATUTORY, REGULATORY & SAFETY REQUIREMENTS WITH RESPECT TO EARTHING ARRANGEMENT, DANGER & OTHER LABELS, CLEARANCES IN AIR PROVISION FOR PRESSURE RELIEF DEVICE, GAS ACTUATED RELAY AND ANTI-EARTHQUAKE CLAMPING ARRANGEMENT.

MIN. AIR CLEARANCES

|                | 420 KV | 145 KV |
|----------------|--------|--------|
| PHASE TO PHASE | 3600   | NA     |
| PHASE TO EARTH | 3100   | 1050   |



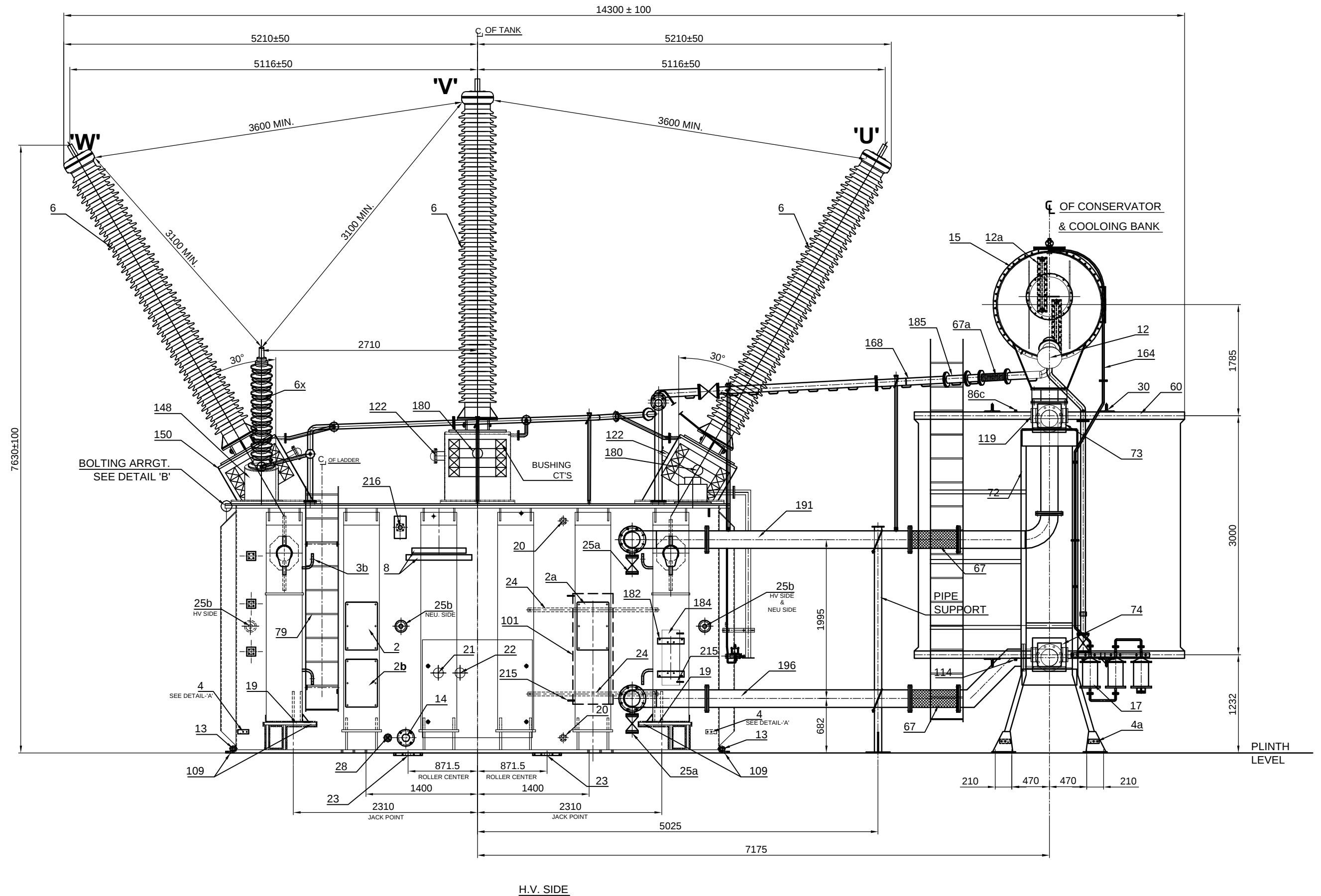
| REV  | DATE | ALT.  |  |  | REV  | DATE | ALT.  |  |  | TYPE OF PRODUCT  | 80 MVAR, 400KV 3-PHASE SHUNT REACTOR                                                                                                                                                                                                                                                                    | ADDITIONAL INFORMATION                                                                                                                                                                                                                             |  | भारत हेवी इलेक्ट्रिकल्स लिमिटेड भोपाल<br>BHARAT HEAVY ELECTRICALS LTD. BHOPAL |      |            |                | NAME           | SIGN   | DATE                                                                                  |          |  |  |
|------|------|-------|--|--|------|------|-------|--|--|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|------|------------|----------------|----------------|--------|---------------------------------------------------------------------------------------|----------|--|--|
|      |      | CKD.  |  |  |      |      | CKD.  |  |  | PO. NO.          | CC-CS/702-SR2/SS-3340/7/G7/NOA-I/7102 DATED 16/12/16 <td>W.O.- 66054 - P - 517 - 01<td></td><td>DEPT</td><td>CODE</td><td>WEIGHT(kg)</td><td>SCALE</td><td>DRN.</td><td>RAKESH</td><td></td><td>28.04.17</td></td> | W.O.- 66054 - P - 517 - 01 <td></td> <td>DEPT</td> <td>CODE</td> <td>WEIGHT(kg)</td> <td>SCALE</td> <td>DRN.</td> <td>RAKESH</td> <td></td> <td>28.04.17</td> |                                                                                       | DEPT                                                                          | CODE | WEIGHT(kg) | SCALE          | DRN.           | RAKESH |  | 28.04.17 |  |  |
|      |      | APPD. |  |  |      |      | APPD. |  |  |                  |                                                                                                                                                                                                                                                                                                         | STATUS OF DRAWING "PR"                                                                                                                                                                                                                             |                                                                                       | TRE                                                                           | 406  | ----       | COMP.SCALE-1:1 | CHD.           | KD     |  |          |  |  |
| ZONE |      |       |  |  | ZONE |      |       |  |  | PROJECT          | TRANSMISSION SYSTEM FOR 2000 MW ULTRA SOLAR PARK AT TUMKUR                                                                                                                                                                                                                                              | DISTRIBUTION OF PRINTS                                                                                                                                                                                                                             |                                                                                       |                                                                               |      |            |                | APPD.          | KD/KG  |  |          |  |  |
|      |      |       |  |  |      |      |       |  |  | NAME OF CUSTOMER | M/S POWER GRID CORPORATION OF INDIA LTD.                                                                                                                                                                                                                                                                | TRE-1, TRM-3                                                                                                                                                                                                                                       | TITLE                                                                                 | OUTLINE GENERAL ARRANGEMENT<br>DETAIL                                         |      |            | DRG. NO.       | 3 469 00 01831 |        | REV.                                                                                  | 00       |  |  |
|      |      |       |  |  |      |      |       |  |  |                  |                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                    |                                                                                       |                                                                               |      |            |                |                |        | SHEET 01 OF 04                                                                        |          |  |  |

Rakesh

**REF.DRG.NO.**

SIGN.DATE

INVENTORY NO.



|      |      |       |  |  |      |      |       |  |  |                  |                                                            |                            |                                                                                       |                                      |            |                                       |                                                                                       |        |                                                                                       |                                                                                       |         |      |      |   |
|------|------|-------|--|--|------|------|-------|--|--|------------------|------------------------------------------------------------|----------------------------|---------------------------------------------------------------------------------------|--------------------------------------|------------|---------------------------------------|---------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------|------|------|---|
| REV  | DATE | ALT.  |  |  | REV  | DATE | ALT.  |  |  | TYPE OF PRODUCT  | 80 MVAR, 400KV 3-PHASE SHUNT REACTOR                       | ADDITIONAL INFORMATION     |                                                                                       |                                      |            | भारत हेवी इलेक्ट्रिकल्स लिमिटेड भोपाल |                                                                                       |        |                                                                                       |                                                                                       | NAME    | SIGN | DATE | F |
|      |      | CKD.  |  |  |      |      | CKD.  |  |  | PO. NO.          | CC-CS/702-SR2/SS-3340/7/G7/NOA-I/7102 DATED 16/12/16       | W.O.- 66054 - P - 517 - 01 |  | BHARAT HEAVY ELECTRICALS LTD. BHOPAL |            |                                       | DRN.                                                                                  | RAKESH |  | 28.04.17                                                                              |         |      |      |   |
|      |      | APPD. |  |  |      |      | APPD. |  |  |                  |                                                            | STATUS OF DRAWING "PR"     | DEPT                                                                                  | CODE                                 | WEIGHT(kg) | SCALE                                 |  | CHD.   | KD                                                                                    |  |         |      |      |   |
| ZONE |      |       |  |  | ZONE |      |       |  |  | PROJECT          | TRANSMISSION SYSTEM FOR 2000 MW ULTRA SOLAR PARK AT TUMKUR | DISTRIBUTION OF PRINTS     | TRE                                                                                   | 406                                  | ----       | COMP.SCALE:1:1                        |  | APPD.  | KD/KG                                                                                 |  |         |      |      |   |
|      |      |       |  |  |      |      |       |  |  | NAME OF CUSTOMER | M/S POWER GRID CORPORATION OF INDIA LTD.                   | TRE-1, TRM-3               | TITLE                                                                                 |                                      |            |                                       | DRG. NO. 3 469 00 01831                                                               |        |                                                                                       |                                                                                       | REV. 00 |      |      |   |
|      |      |       |  |  |      |      |       |  |  |                  |                                                            |                            |                                                                                       |                                      |            | ELEVATION VIEW                        |                                                                                       |        |                                                                                       | SHEET 02 OF 04                                                                        |         |      |      |   |

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REF.DRG.NO.

SIGN/DATE

INVENTORY NO.

DRG. NO. 3 469 001831

302

303

304

305

306

307

308

14300±100

6850 ( INCLUDING N2 GAS CYLINDER MTG. )

OF REACTOR TANK

2533

2533

1130

1130

10

3a

10

3a

10

3a

10

3a

10

3a

10

3a

10

3a

10

W

V

U

42

25

3a

215

86

3a

215

42

10

122b

3a

10

122a

215

27

10

122a

215

18c

18

18e

18f

18d

18b

41

27

212

183

26

119a

10

122a

215

18a

18b

18c

18e

18f

18d

18b

41

27

212

183

26

10

122a

215

18a

18b

18c

18e

18f

18d

18b

41

27

212

183

26

10

122a

215

18a

18b

18c

18e

18f

18d

18b

41

27

212

183

26

10

122a

215

18a

18b

18c

18e

18f

18d

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212

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26

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122a

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18c

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122a

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122a

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18c

18e

18f

18d

18b

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27

212

183

26

10

122a

215

18a

18b

18c

18e

18f

18d

18b

41

27

212

183

26

10

122a

215

18a

18b

18c

18e

18f

18d

18b

41

27

212

183

26

10

122a

215

18a

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18d

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41

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212

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122a

215

18a

18b

1

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REF.DRG.NO.

SIGN/DATE

INVENTORY NO.

DRG. NO. 3 469 00 01831

402

403

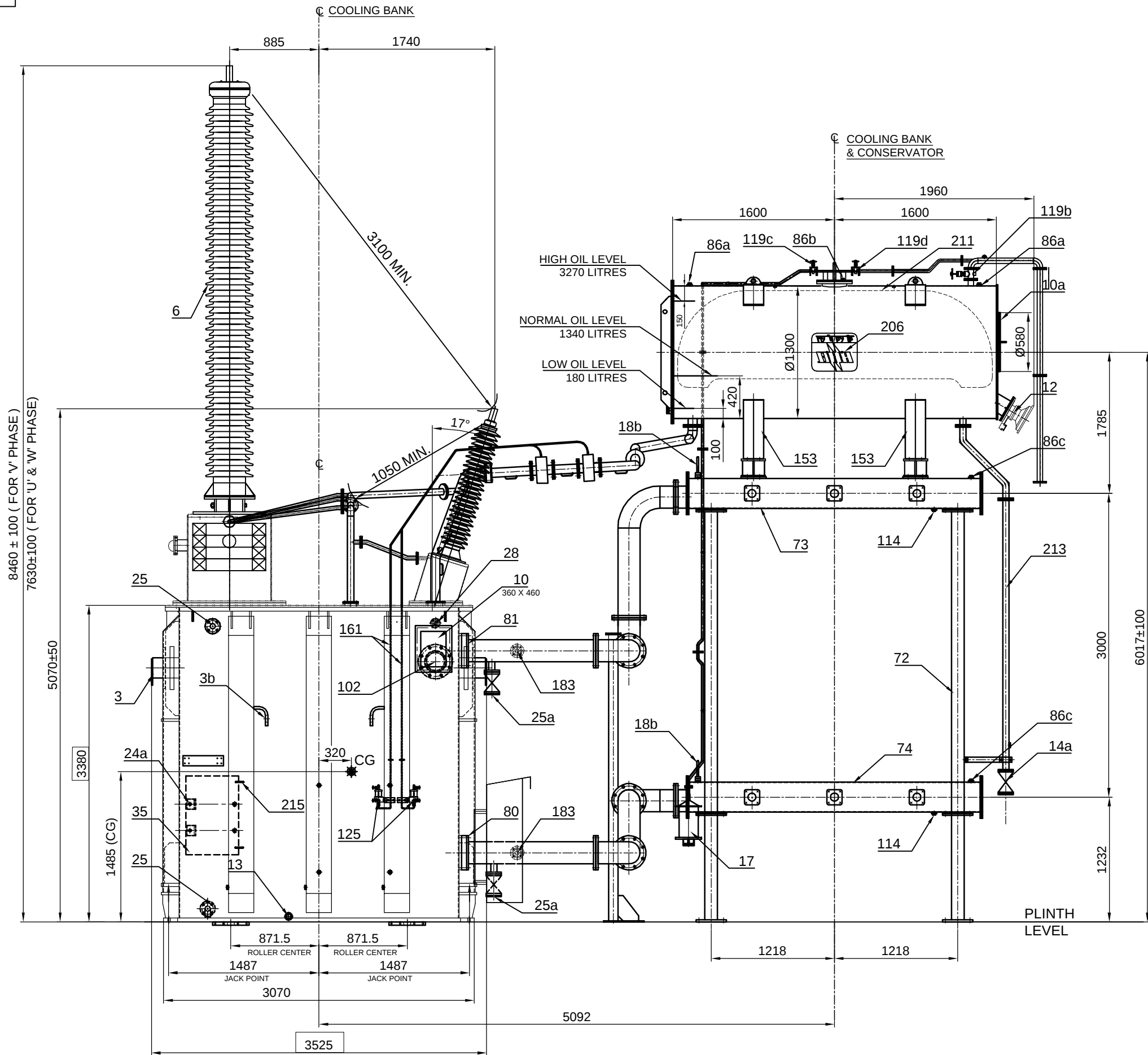
404

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406

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408



| REV  | DATE | ALT.  | REV  | DATE | ALT.  | TYPE OF PRODUCT                                                    | ADDITIONAL INFORMATION     | NAME     | SIGN           | DATE     |
|------|------|-------|------|------|-------|--------------------------------------------------------------------|----------------------------|----------|----------------|----------|
|      |      | CKD.  |      |      | CKD.  | 80 MVAR, 400KV 3-PHASE SHUNT REACTOR                               | W.O.- 66054 - P - 517 - 01 | DRN.     | RAKESH         | 28.04.17 |
|      |      | APPD. |      |      | APPD. | PO. NO. CC-CS/702-SR2/SS-3340/7/G7/NOA-I/7102 DATED 16/12/16       | STATUS OF DRAWING "PR"     | CHD.     | KD             |          |
| ZONE |      |       | ZONE |      |       | PROJECT TRANSMISSION SYSTEM FOR 2000 MW ULTRA SOLAR PARK AT TUMKUR | DISTRIBUTION OF PRINTS     | APPD.    | KD/KG          |          |
|      |      |       |      |      |       | NAME OF CUSTOMER M/S POWER GRID CORPORATION OF INDIA LTD.          | TRE-1, TRM-3               | DRG. NO. | 3 469 00 01831 | REV. 00  |
|      |      |       |      |      |       |                                                                    |                            | SHEET    | 04 OF 04       |          |

401

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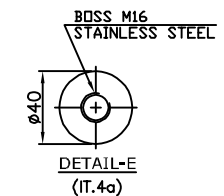
408

Rakesh





|             |                |
|-------------|----------------|
| DRAWING NO. | 3 464 00 01361 |
|-------------|----------------|



|                                                                                       |                                                                                                   |                                      |                         |                                                                                       |          |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------|---------------------------------------------------------------------------------------|----------|
|  | <b>BHARAT HEAVY ELECTRICALS LTD</b><br><b>TRANSFORMER ENGINEERING DEPARTMENT</b><br><b>BHOPAL</b> | DEPT CODE<br><b>406</b>              | NAME                    | SIGN                                                                                  | DATE     |
|                                                                                       |                                                                                                   |                                      | MAKE SKG                |  | 22.08.14 |
|                                                                                       |                                                                                                   |                                      | CHD AKP/RKS             |  | 22.08.14 |
|                                                                                       |                                                                                                   |                                      | APPD AKP/RKS            |  | 22.08.14 |
| <b>TITLE</b>                                                                          | <b>OUTLINE GENERAL ARRANGMENT</b><br><b>END VIEW</b>                                              | DRAWING NO.<br><b>3 464 00 01361</b> | SHEET 3 OF 4<br>REV. 03 |                                                                                       |          |

INVENTORY NO.

SIGN/DATE

REF.DRG.NO.

THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF  
IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.

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19810 00 464 3 464 00 01361

DRAWING NO.

403

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REFERENCE DRGS.

|    |                                                   |                |
|----|---------------------------------------------------|----------------|
| 1  | O.G.A. (4 SHEETS)                                 | 3 464 00 01361 |
| 2  | PART LIST                                         | 3 464 00 01362 |
| 3  | FOUNDATION PLAN                                   | 3 464 00 01363 |
| 4  | MV BUSHING 245KV,2000Amp OIP CONDENSER BUSHING    | 3 464 00 01364 |
| 5  | HV BUSHING 420KV,1250Amp OIP CONDENSER BUSHING    | 3 464 00 01365 |
| 6  | HV NEUTRAL BUSHING 36KV,2000Amp PORCELAIN BUSHING | 3 464 00 01366 |
| 7  | LV BUSHING 52KV,3150Amp OIP CONDENSER BUSHING     | 3 464 00 01367 |
| 8  | VALVE SCHEDULE PLATE                              | 3 464 00 01368 |
| 9  | RATING AND DIAGRAM PLATE                          | 3 464 00 01369 |
| 10 | SHIPPING DIAGRAM                                  | 3 464 00 01370 |
| 11 | OIL FLOW DIAGRAM                                  | 3 464 00 01371 |
| 12 | 320 DIA TWIN BIDIRECTIONAL ROLLERS                | 3 464 00 01372 |
| 13 | OVER FLUXING CURVE                                | 4 464 00 00121 |
| 14 | INTERNAL SKETCH                                   | 3 464 00 01373 |
| 15 | GENERAL ARRANGEMENT OF COOLER CONTROL CABINET     | 3 464 62 00214 |
| 16 | DIAGRAM OF COOLER CONTROL CABINET                 | 3 464 62 00213 |
| 17 | SCHEMATIC DIAGRAM OF TAP CHANGER CONTROL          | 3 464 64 00091 |

DESCRIPTION

APPROX. WT. IN KG.

|                                                                                 |        |
|---------------------------------------------------------------------------------|--------|
| CORE AND WINDING                                                                | 207700 |
| TANK AND FITTINGS                                                               | 44995  |
| BUSHING                                                                         | 5245   |
| COOLER CONTROL CABINET & WIRING                                                 | 1400   |
| COOLER BANK (INCLUDING CONSERVATORS, RADIATOR, PUMPS, FANS, FITTINGS & P/W ETC. | 63000  |
| OIL IN TRANSFORMER TANK                                                         | 71340  |
| OIL IN RADIATOR BANK, CONSERVATORS & PIPE WORK                                  | 23320  |
| TOTAL WEIGHT INCLUDING OIL                                                      | 417000 |
| SHIPPING WT. OF TRANSFORMER (GAS FILLED)                                        | 249000 |
| UNTANKING WEIGHT ( UPPER TANK)                                                  | 30000  |

APPROXIMATE OIL CAPACITIES

LITRES

|                                                |        |
|------------------------------------------------|--------|
| OIL AND TANK INCLUDING TURRETS & OLTC          | 82000  |
| OIL IN RADIATOR BANK, CONSERVATORS & PIPE WORK | 26800  |
| TOTAL OIL                                      | 108800 |

MIN. AIR CLERANCE

PH-PH

PH-EARTH

|                    |      |      |
|--------------------|------|------|
| HV BUSHING         | 4000 | 3500 |
| MV BUSHING         | 2350 | 2150 |
| LV BUSHING         | 530  | 480  |
| HV NEUTRAL BUSHING | -    | 320  |

NOTES :-

1. WHEN REFERING THE O.G.A. DRG, PLEASE QUOTE MVA & W.O. NO.

2. DIMENSIONS SHOWN THUS  ARE OVERALL SHIPPING DIMENSION.

3. WIRING FROM INSTRUMENTS, C.T.S. ETC. NOT SHOWN FOR CLARITY.

4. JACK POINTS MARKED THUS ARE FOR UNLOADING FROM TRAILOR,JACKING THE TRANSFORMER FOR CHANGING THE ROLLER DIRECTION.

5. FINISH PAINT SHADE OF OUTSIDE SURFACE OF TANK AND ACCESSORIES IS BLUE COLOUR TO SHADE RAL 5012.ALSO REFER PAINT CLAUSE IN TECH SPEC.

6. THE DESIGN FEATURES SHOWN ON THIS DRAWING (GENERALLY IN LINE WITH IS:2026 & AGREED CUSTOMER SPECIFICATION) MEETS THE STATUTORY, REGULATORY & SAFETY REQUIREMENTS WITH RESPECT TO EARTHING ARRANGEMENT, DANGER AND OTHER LABELS. CLEARANCES IN AIR, PROVISION FOR PRESSURE RELIEF DEVICE, GAS & OIL ACTUATED RELAY AND ANTI EARTH QUAKE CLAMPING ARRGT.

7. ALL HEIGHT WISE DIMENSIONS ARE GIVEN FROM RAIL LEVEL.

8. WEIGHTS & OIL QTY ARE APPROXIMATE.

REV

DATE

ALT

SKG

REV

DATE

ALT

SKG

REV

DATE

ALT

SKG

NO. OF TRANSFORMER

01

W.O. NO

63050-AS12-01

TITLE

OUTLINE GENERAL ARRANGMENT NOTE AND TABLES

DRAWING NO.

3 464 00 01361

SHEET 4 OF 4

REV. 03

03

04/03/15

CKD

AKP/RKS

02

10/02/15

CKD

AKP/RKS

01

24/12/14

CKD

AKP/RKS

COOLING BANK & TERTIARY POCKET DIRECTION CHANGED IN LINE WITH CUSTOMER COMMENT. DRG UPDATED.

500 MVA,400/220/33 KV ,3 PH INTERCONNECTING TRANSFORMER

0401

0402

0403

0404

0405

0406

0407

0408

FOR TENDER PURPOSE ONLY

FORMAT SIZE A3