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SIGN. & DATE

REF. DRG. No.

INVENTORY No.

050-DIST-SLD-AUX-ELEL-GIPCL-BHEL  
DRG. No. 050

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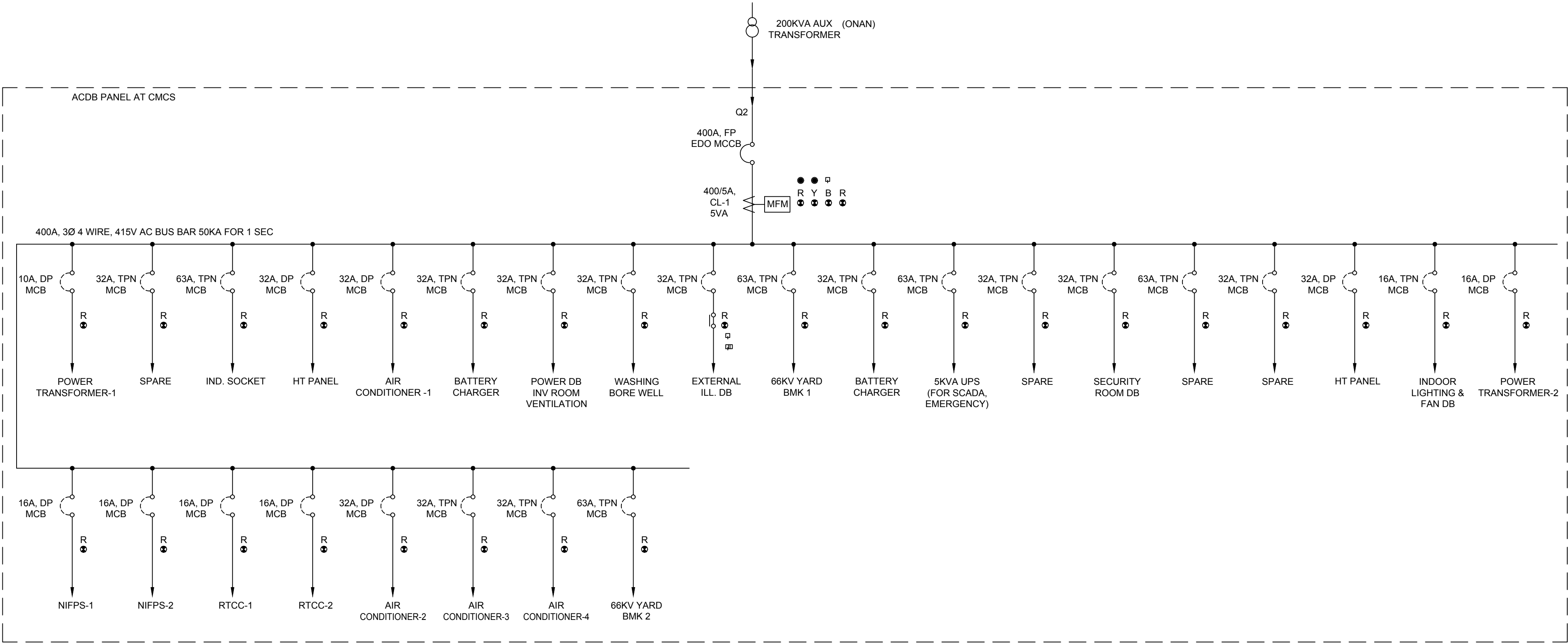
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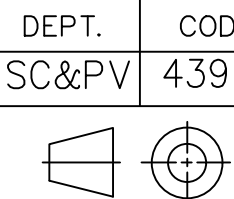


AC AUXILIARY POWER SUPPLY SCHEME

| LEGENDS | DESCRIPTION          |
|---------|----------------------|
|         | TPN BUS BAR          |
|         | MCB                  |
|         | MCCB                 |
|         | CURRENT TRANSFORMER  |
|         | MULTI FUNCTION METER |
|         | INDICATOR            |
|         | EARTHING             |

PROJECT : 75MW SOLAR POWER PLANT  
CUSTOMER : GIPCL

| REV. | DATE | ALTERED<br>CHECKED<br>APPROVED | REV. | DATE | ALTERED<br>CHECKED<br>APPROVED |                        | NAME | SIGN | DATE   |
|------|------|--------------------------------|------|------|--------------------------------|------------------------|------|------|--------|
|      |      |                                | 00   |      |                                | DRAWN                  | SAN  |      | 170518 |
|      |      |                                |      |      |                                | CHECKED                | VJ   |      | 170518 |
|      |      |                                |      |      |                                | APPROVED               | PR   |      | 170518 |
|      |      |                                |      |      |                                | DISTRIBUTION OF PRINTS |      |      |        |
|      |      |                                |      |      |                                |                        |      |      |        |
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BHARAT HEAVY ELECTRICALS LIMITED.  
ELECTRONICS DIVISION, BANGALORE

TITLE:

ACDB – SINGLE LINE DIAGRAM  
AT CMCS

No. OF SHEETS02  
SHEET No.01  
REV00

DRG. No.

BHEL–GIPCL–ELEL–AUX–DIST–SLD–050

FORM No. A3–03

A3 SIZE

| FIRST ANGLE PROJECTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |                      |      |             |          |       |      |      |      | (ALL DIMENSIONS ARE IN mm)                     |       |                     |      |                 |         |           |      |      |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |   |      |  |  |  |         |  |  |         |  |             |  |  |  |             |          |    |  |          |  |  |  |      |  |  |  |                     |  |  |  |                      |  |  |  |           |  |  |             |          |  |  |  |  |  |       |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                      |  |  |  |  |  |  |  |  |  |
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| BHEL-GIPCL-ELEL-AUX-DIST-SLD-050                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |                      |      |             |          |       |      |      |      | 2                                              |       | 3                   |      | 4               |         | 5         |      | 6    |      | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       | 8 |      |  |  |  |         |  |  |         |  |             |  |  |  |             |          |    |  |          |  |  |  |      |  |  |  |                     |  |  |  |                      |  |  |  |           |  |  |             |          |  |  |  |  |  |       |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                      |  |  |  |  |  |  |  |  |  |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |                      |      |             |          |       |      |      |      |                                                |       |                     |      |                 |         |           |      |      |      | AC AUXILIARY POWER SUPPLY SCHEME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |   |      |  |  |  |         |  |  |         |  |             |  |  |  |             |          |    |  |          |  |  |  |      |  |  |  |                     |  |  |  |                      |  |  |  |           |  |  |             |          |  |  |  |  |  |       |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                      |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |                      |      |             |          |       |      |      |      |                                                |       |                     |      |                 |         |           |      |      |      | <table><thead><tr><th colspan="2">LEGENDS</th><th colspan="2">DESCRIPTION</th></tr></thead><tbody><tr><td colspan="2"></td><td colspan="2">TPN BUS BAR</td></tr><tr><td colspan="2"></td><td colspan="2">MCB</td></tr><tr><td colspan="2"></td><td colspan="2">MCCB</td></tr><tr><td colspan="2"></td><td colspan="2">CURRENT TRANSFORMER</td></tr><tr><td colspan="2"></td><td colspan="2">MULTI FUNCTION METER</td></tr><tr><td colspan="2"></td><td colspan="2">INDICATOR</td></tr><tr><td colspan="2"></td><td colspan="2">EARTHING</td></tr></tbody></table> |       |   |      |  |  |  |         |  |  | LEGENDS |  | DESCRIPTION |  |  |  | TPN BUS BAR |          |    |  | MCB      |  |  |  | MCCB |  |  |  | CURRENT TRANSFORMER |  |  |  | MULTI FUNCTION METER |  |  |  | INDICATOR |  |  |             | EARTHING |  |  |  |  |  |       |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                      |  |  |  |  |  |  |  |  |  |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      | TPN BUS BAR          |      |             |          |       |      |      |      |                                                |       |                     |      |                 |         |           |      |      |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |   |      |  |  |  |         |  |  |         |  |             |  |  |  |             |          |    |  |          |  |  |  |      |  |  |  |                     |  |  |  |                      |  |  |  |           |  |  |             |          |  |  |  |  |  |       |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                      |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      | MCB                  |      |             |          |       |      |      |      |                                                |       |                     |      |                 |         |           |      |      |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |   |      |  |  |  |         |  |  |         |  |             |  |  |  |             |          |    |  |          |  |  |  |      |  |  |  |                     |  |  |  |                      |  |  |  |           |  |  |             |          |  |  |  |  |  |       |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                      |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      | MCCB                 |      |             |          |       |      |      |      |                                                |       |                     |      |                 |         |           |      |      |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |   |      |  |  |  |         |  |  |         |  |             |  |  |  |             |          |    |  |          |  |  |  |      |  |  |  |                     |  |  |  |                      |  |  |  |           |  |  |             |          |  |  |  |  |  |       |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                      |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      | CURRENT TRANSFORMER  |      |             |          |       |      |      |      |                                                |       |                     |      |                 |         |           |      |      |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |   |      |  |  |  |         |  |  |         |  |             |  |  |  |             |          |    |  |          |  |  |  |      |  |  |  |                     |  |  |  |                      |  |  |  |           |  |  |             |          |  |  |  |  |  |       |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                      |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      | MULTI FUNCTION METER |      |             |          |       |      |      |      |                                                |       |                     |      |                 |         |           |      |      |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |   |      |  |  |  |         |  |  |         |  |             |  |  |  |             |          |    |  |          |  |  |  |      |  |  |  |                     |  |  |  |                      |  |  |  |           |  |  |             |          |  |  |  |  |  |       |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                      |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      | INDICATOR            |      |             |          |       |      |      |      |                                                |       |                     |      |                 |         |           |      |      |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |   |      |  |  |  |         |  |  |         |  |             |  |  |  |             |          |    |  |          |  |  |  |      |  |  |  |                     |  |  |  |                      |  |  |  |           |  |  |             |          |  |  |  |  |  |       |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                      |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      | EARTHING             |      |             |          |       |      |      |      |                                                |       |                     |      |                 |         |           |      |      |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |   |      |  |  |  |         |  |  |         |  |             |  |  |  |             |          |    |  |          |  |  |  |      |  |  |  |                     |  |  |  |                      |  |  |  |           |  |  |             |          |  |  |  |  |  |       |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                      |  |  |  |  |  |  |  |  |  |
| PROJECT : 75MW SOLAR POWER PLANT<br>CUSTOMER : GIPCL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |                      |      |             |          |       |      |      |      |                                                |       |                     |      |                 |         |           |      |      |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |   |      |  |  |  |         |  |  |         |  |             |  |  |  |             |          |    |  |          |  |  |  |      |  |  |  |                     |  |  |  |                      |  |  |  |           |  |  |             |          |  |  |  |  |  |       |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                      |  |  |  |  |  |  |  |  |  |
| <table><thead><tr><th>REV.</th><th>DATE</th><th>ALTERED</th><th>REV.</th><th>DATE</th><th>ALTERED</th><th rowspan="4">DRAWN</th><th rowspan="4">NAME</th><th rowspan="4">SIGN</th><th rowspan="4">DATE</th><th rowspan="4"></th><th colspan="2">DEPT.</th><th colspan="2">CODE</th></tr><tr><th></th><th></th><th>CHECKED</th><th></th><th></th><th>CHECKED</th><th></th><th></th><th></th><th></th></tr><tr><th></th><th></th><th>APPROVED</th><th>00</th><th></th><th>APPROVED</th><th></th><th></th><th></th><th></th></tr><tr><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></tr></thead><tbody><tr><td></td><td></td><td></td><td></td><td colspan="2">FIRST ISSUE</td><td></td><td></td><td></td><td></td><td></td><td colspan="2">SC&amp;PV</td><td colspan="2">439</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="2"></td><td colspan="2"></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="2"></td><td colspan="2"></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="2"></td><td colspan="2"></td></tr></tbody></table> |      |                      |      |             |          |       |      |      |      | REV.                                           | DATE  | ALTERED             | REV. | DATE            | ALTERED | DRAWN     | NAME | SIGN | DATE |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | DEPT. |   | CODE |  |  |  | CHECKED |  |  | CHECKED |  |             |  |  |  |             | APPROVED | 00 |  | APPROVED |  |  |  |      |  |  |  |                     |  |  |  |                      |  |  |  |           |  |  | FIRST ISSUE |          |  |  |  |  |  | SC&PV |  | 439 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | BHARAT HEAVY ELECTRICALS LIMITED.<br>ELECTRONICS DIVISION, BANGALORE |  |  |  |  |  |  |  |  |  |
| REV.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DATE | ALTERED              | REV. | DATE        | ALTERED  | DRAWN | NAME | SIGN | DATE |                                                | DEPT. |                     | CODE |                 |         |           |      |      |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |   |      |  |  |  |         |  |  |         |  |             |  |  |  |             |          |    |  |          |  |  |  |      |  |  |  |                     |  |  |  |                      |  |  |  |           |  |  |             |          |  |  |  |  |  |       |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                      |  |  |  |  |  |  |  |  |  |
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| TITLE:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |                      |      |             |          |       |      |      |      | ACDB – SINGLE LINE DIAGRAM<br>AT INVERTER ROOM |       | No. OF SHEETS<br>02 |      | SHEET No.<br>02 |         | REV<br>00 |      |      |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |   |      |  |  |  |         |  |  |         |  |             |  |  |  |             |          |    |  |          |  |  |  |      |  |  |  |                     |  |  |  |                      |  |  |  |           |  |  |             |          |  |  |  |  |  |       |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                      |  |  |  |  |  |  |  |  |  |
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| FORM No. A3-03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |                      |      |             |          |       |      |      |      | A3 SIZE                                        |       |                     |      |                 |         |           |      |      |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |   |      |  |  |  |         |  |  |         |  |             |  |  |  |             |          |    |  |          |  |  |  |      |  |  |  |                     |  |  |  |                      |  |  |  |           |  |  |             |          |  |  |  |  |  |       |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                      |  |  |  |  |  |  |  |  |  |