

GSTIN : 37ACFS0619P1ZB



**SRI VENKATESWARA**  
**POWER SYSTEMS**  
 A - GRADE ELECTRICAL CONTRACTORS UPTO 33KV  
 CPRI APPROVED LT PANEL BOARD MANUFACTURER

### QUOTATION

**Client :**
**M/s. Modi Properties**

Site : MED POLIS, AMTZ, Visakhapatnam

**Kind Attn : Mr. Apparao sir**
**Q. No. SVPS/Q/24-25/184-R2**
**Date : 2-Feb-25**
**Sub : Offer for Supply of 11KV HT VCB Panel, 1600A Rated Outdoor Kiosk & other material**

| S No | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Qty | UOM  | Rate             | Amount              |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|------------------|---------------------|
| 1    | Supply of <b>11KV Outdoor VCB Panel (ICOG Type)</b> with 11KV 630A Drawout Type VCB, Necessary Metering, Indication Lamps, Protection Relays for O/L, S/C, E/F, Transformer OT & WT, 24VDC Battery Charger with Power Backup (30 Mins) VCB Make : <b>ABB</b>                                                                                                                                                                                                                                                                   | 1   | No   | 450,000.00       | 450,000.00          |
| 2    | Supply of <b>1600A Rated Outdoor LT Kiosk</b><br>Type of Enclosure : IP 55 - Outdoor Type<br>Sizes : H-2000+75mm x W-1000mm x D-1200mm<br>MOC : 2.0 & 1.6mm Thick CRCA Sheet<br>Painting : Powder Coating - RAL 7032<br>Busbar : 1600A Rated TPN Aluminium Busbar<br><b>Material</b> : 1600A 4P MDO ACB (L&T or Legrand), On, Off Indication Lamps, RYB Lamps, Voltmeter with Control MCB, Ammeter with CT's, 4P Control MCB for T/F Control, DP Control MCB for VCB Aux. Supply<br><b>Switchgear Make : L&amp;T / Legrand</b> | 1   | No   | 257,450.00       | 257,450.00          |
| 3    | Supply of End Termination Kits for 3C x 185 Sq.mm 11 KVHT Cable (Indoor) Make : <b>3M</b>                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2   | Nos  | 3,500.00         | 7,000.00            |
| 4    | Supply of End Termination Kits for 3C x 185 Sq.mm 11 KVHT Cable (Outdoor) Make : <b>3M</b>                                                                                                                                                                                                                                                                                                                                                                                                                                     | 8   | Nos  | 4,800.00         | 38,400.00           |
| 5    | Supply of 75mm Dia 2.5 Mtr Length CI Earth Pipe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 10  | Nos  | 2,850.00         | 28,500.00           |
| 6    | Supply of 25 x 6mm Copper Strip for Transformer Neutral Earthing                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 60  | Mtrs | 1,320.00         | 79,200.00           |
|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |      | <b>TOTAL</b>     | <b>860,550.00</b>   |
|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |      | <b>GST : 18%</b> | <b>154,899.00</b>   |
|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |      | <b>G TOTAL</b>   | <b>1,015,449.00</b> |

**Terms & Conditions:**

Payment Terms for Supply : 40% Advance along with PO, Balance 60% With taxes before dispatch against Proforma invoice.

Delivery : 4-6 Weeks for VCB Panel &amp; Kiosk from the date PO, 1-2 Weeks for Balance material

Validity : 30 days.

Taxes : GST 18% Extra on actuals.

P&amp;F : Inclusive

Transportation : FOR your site

Unloading &amp; Installation : N/A

Commissioning : Inclusive

Warranty : 12 months from the date of Delivery Receipt for VCB Panel, Transformer &amp; LT Kiosk

 For **SRI VENKATESWARA POWER SYSTEMS**

P GOPI KRISHNA

9908043093

OFFICE &amp; WORKSHOP : Plot No. 20, G-Block, IDA, Autonagar, Opp. BDL, Visakhapatnam-530046

Ph : 9908043093, 9052646496 | E-mail : srivenkateswaraee73@gmail.com | Web : www.svpsvizag.com

| A                                         | B | C | D | E | F | G | H |
|-------------------------------------------|---|---|---|---|---|---|---|
| 11KV,630A,20kA OUTDOOR AIS ICOG VCB PANEL |   |   |   |   |   |   |   |

[illegible]

|   |            |   |                                           |   |
|---|------------|---|-------------------------------------------|---|
| 3 | CUSTOMER   | : | M/s. SRI VENKATESWARA POWER SYSTEMS       | 3 |
|   | PO.NO.     | : | GPS2024003, DATED-10.04.2024              |   |
|   | PANEL NAME | : | 11KV,630A,20kA OUTDOOR AIS ICOG VCB PANEL |   |

|   |              |   |                                               |   |
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| 4 | MANUFACTURER | : | M/s. BUSH ELECTROMECH & ENGINEERING PVT. LTD. | 4 |
|   | Drawing No.  | : | 11kV/OD/24-25/0003                            |   |
|   | Quantity     | : | 01 No Only.                                   |   |

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| 6 |       | Drawn by:             | APR            | CUSTOMER : M/s. SRI VENKATESWARA POWER SYSTEMS |                                                             | M/s. BUSH ELECTROMECH & ENGINEERING (P) LTD.<br>K-89, MIDC, WALUJ, AURANGABAD- 431 136 |  |  <br>Authorized Panel Builder | DWG.NO.: 11kv/OD/24-25/0003 | REV NO. | 6 |   |  |
|   | R1    |                       | Checked by:    |                                                |                                                             |                                                                                        |  |                                                                                                                                                                                                         | --                          |         |   |   |  |
|   |       |                       | Approved by:   | SDB                                            | PO. NO. : GPS2024003, DATED-10.04.2024                      |                                                                                        |  |                                                                                                                                                                                                         |                             |         |   |   |  |
|   | R0    | Released for Approval | Drawn Date :   | 11.04.2024                                     | MANUFACTURER : M/s. BUSH ELECTROMECH & ENGINEERING (P) LTD. | TITLE:- TITLE SHEET FOR 11KV VCB OUTDOOR PANEL                                         |  |                                                                                                                                                                                                         |                             |         |   |   |  |
|   | REV.: | DESCRIPTION           | Approved Date: | --                                             |                                                             |                                                                                        |  |                                                                                                                                                                                                         |                             |         |   |   |  |
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| 08     | METERING CIRCUIT                            | 10 OF 21    |
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|       |                       | Drawn by:      | APR        | CUSTOMER : M/s. SRI VENKATESWARA POWER SYSTEMS              | M/s. BUSH ELECTROMECH & ENGINEERING (P) LTD.<br>K-89, MIDC, WALUJ, AURANGABAD- 431 136 |  <br>Authorized Panel Builder | DWG.NO.:11kV/OD/24-25/0003                                                                                                                                                  | REV NO.<br>R0 |
| R1    |                       | Checked by:    | --         |                                                             |                                                                                        |                                                                                                                                                                                                         | PO. NO. : GPS2024003, DATED-10.04.2024                                                                                                                                      |               |
| R0    | Released for Approval | Drawn Date :   | 11.04.2024 | MANUFACTURER : M/s. BUSH ELECTROMECH & ENGINEERING (P) LTD. | TITLE:- INDEX FOR 11KV VCB OUTDOOR<br>PANEL                                            |                                                                                                                                                                                                         |   |               |
| REV.: | DESCRIPTION           | Approved Date: | --         |                                                             |                                                                                        |                                                                                                                                                                                                         |                                                                                                                                                                             |               |

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| TECHNICAL SPECIFICATION |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
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| 138                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 139                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 140                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 141                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 142                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 143                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 144                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 145                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 146                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 147                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 148                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 149                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 150                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 151                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 152                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 153                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 154                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 155                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 156                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 157                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 158                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 159                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 160                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 161                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 162                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 163                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 164                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 165                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 166                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 167                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 168                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 169                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 170                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 171                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 172                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 173                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 174                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 175                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 176                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 177                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 178                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 179                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 180                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 181                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 182                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 183                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 184                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 185                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 186                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 187                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 188                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 189                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 190                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 191                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 192                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 193                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 194                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 195                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 196                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 197                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 198                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 199                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 200                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 201                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 202                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 203                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 204                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 205                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 206                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 207                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 208                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 209                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 210                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 211                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 212                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 213                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 214                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 215                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 216                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 217                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 218                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 219                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 220                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 221                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 222                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 223                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 224                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 225                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 226                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 227                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 228                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 229                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 230                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 231                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 232                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 233                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 234                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 235                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 236                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 237                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 238                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 239                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 240                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 241                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 242                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 243                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 244                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 245                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 246                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 247                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 248                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 249                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 250                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 251                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 252                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 253                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 254                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 255                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 256                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 257                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 258                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 259                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 260                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 261                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 262                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 263                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 264                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 265                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 266                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 267                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 268                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 269                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 270                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 271                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 272                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 273                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 274                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 275                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 276                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 277                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 278                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 279                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 280                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 281                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 282                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 283                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 284                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 285                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 286                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 287                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 288                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 289                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 290                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 291                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 292                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 293                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 294                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 295                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 296                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 297                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 298                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 299                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 300                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 301                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 302                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 303                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 304                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 305                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 306                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 307                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 308                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
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| 310                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
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| 312                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 313                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 314                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 315                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 316                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 317                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 318                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 319                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 320                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
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| 322                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 323                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 324                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 325                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 326                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 327                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 328                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 329                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 330                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 331                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 332                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 333                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 334                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 335                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 336                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 337                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 338                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 339                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 340                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 341                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 342                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 343                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 344                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
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| 346                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 347                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 348                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 349                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 350                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 351                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 352                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 353                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 354                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 355                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 356                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 357                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 358                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 359                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 360                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 361                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 362                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 363                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 364                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 365                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 366                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 367                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 368                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 369                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 370                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 371                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 372                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 373                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 374                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 375                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 376                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 377                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 378                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 379                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 380                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 381                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 382                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 383                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 384                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 385                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 386                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 387                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 388                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 389                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 390                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 391                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 392                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 393                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 394                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 395                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 396                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 397                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 398                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 399                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 400                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 401                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 402                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 403                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 404                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 405                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 406                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 407                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 408                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 409                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 410                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 411                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 412                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 413                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 414                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 415                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 416                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 417                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 418                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 419                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 420                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 421                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 422                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 423                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 424                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 425                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 426                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 427                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 428                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 429                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 430                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 431                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 432                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 433                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 434                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 435                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 436                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 437                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 438                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 439                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 440                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 441                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 442                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 443                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 444                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 445                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 446                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 447                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 448                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 449                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 450                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 451                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 452                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 453                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 454                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 455                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 456                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 457                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 458                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 459                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 460                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 461                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 462                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 463                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 464                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 465                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 466                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 467                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 468                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 469                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 470                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 471                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 472                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 473                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 474                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 475                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 476                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 477                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 478                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 479                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 480                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 481                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 482                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 483                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 484                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 485                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 486                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 487                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 488                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 489                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 490                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 491                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 492                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 493                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 494                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 495                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 496                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 497                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 498                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 499                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 500                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 501                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 502                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 503                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 504                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 505                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 506                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 507                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 508                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 509                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 510                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 511                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 512                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 513                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 514                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 515                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 516                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 517                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 518                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 519                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 520                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 521                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 522                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 523                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 524                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 525                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 526                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 527                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 528                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 529                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 530                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 531                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 532                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 533                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 534                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 535                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 536                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 537                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 538                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 539                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 540                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 541                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 542                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 543                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 544                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 545                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 546                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 547                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 548                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 549                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 550                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 551                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 552                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 553                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 554                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 555                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 556                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 557                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 558                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 559                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 560                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 561                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 562                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 563                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 564                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 565                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 566                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 567                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 568                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 569                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 570                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 571                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 572                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 573                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 574                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 575                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 576                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 577                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 578                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 579                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 580                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 581                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 582                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 583                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 584                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 585                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 586                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 587                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 588                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 589                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 590                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 591                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 592                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 593                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 594                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 595                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 596                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 597                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 598                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 599                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 600                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 601                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 602                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 603                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 604                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 605                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 606                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 607                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 608                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 609                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 610                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 611                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 612                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 613                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 614                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 615                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 616                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 617                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 618                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 619                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 620                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 621                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 622                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 623                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 624                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 625                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 626                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 627                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 628                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 629                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 630                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 631                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 632                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 633                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 634                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 635                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 636                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 637                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 638                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 639                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 640                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 641                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 642                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 643                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 644                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 645                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 646                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 647                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 648                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 649                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 650                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 651                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 652                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 653                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 654                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 655                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 656                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 657                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 658                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 659                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 660                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 661                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 662                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 663                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 664                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 665                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 666                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 667                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 668                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 669                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 670                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 671                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 672                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 673                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 674                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 675                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 676                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 677                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 678                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 679                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 680                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 681                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 682                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 683                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 684                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 685                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 686                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 687                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 688                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 689                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 690                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 691                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 692                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 693                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 694                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 695                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 696                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 697                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 698                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 699                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 700                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 701                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 702                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 703                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 704                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 705                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 706                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 707                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 708                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 709                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 710                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 711                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 712                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 713                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 714                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 715                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 716                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 717                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 718                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 719                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 720                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 721                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 722                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 723                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 724                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 725                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 726                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 727                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 728                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 729                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 730                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 731                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 732                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 733                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 734                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 735                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 736                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 737                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 738                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 739                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 740                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 741                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 742                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 743                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 744                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 745                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 746                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 747                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 748                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 749                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 750                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 751                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 752                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 753                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 754                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 755                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 756                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 757                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 758                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 759                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 760                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 761                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 762                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 763                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 764                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 765                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 766                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 767                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 768                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 769                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 770                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 771                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 772                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 773                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 774                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| 775                     |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |

| ANSI CODE                                                                           |  | PROTECTIVE FUNCTION                          | SYMBOL                                                                              | DESCRIPTION                  | TAG     | TAG DESCRIPTION                |
|-------------------------------------------------------------------------------------|--|----------------------------------------------|-------------------------------------------------------------------------------------|------------------------------|---------|--------------------------------|
| 50                                                                                  |  | INSTANTANEOUS OVER CURRENT RELAY             |    | MCB                          | L/R     | LOCAL REMOTE SWITCH            |
| 50N                                                                                 |  | INSTANTANEOUS EARTH FAULT RELAY              |    | NORMALLY OPEN PUSH BUTTON    | TNC     | TRIP, NEUTRAL & CLOSE SWITCH   |
| 51                                                                                  |  | IDMT OVER CURRENT RELAY                      |    | NORMALLY CLOSE PUSH BUTTON   | A       | AMMETER                        |
| 51N                                                                                 |  | IDMT EARTH FAULT RELAY                       |    | VCB OPERATED NC CONTACT      | V       | VOLTMETER                      |
| 95                                                                                  |  | TRIP CIRCUIT SUPERVISION RELAY               |    | VCB OPERATED NO CONTACT      | ANN     | ANNUNCIATOR                    |
| 86                                                                                  |  | MASTER TRIP (LOCK OUT) RELAY                 |    | SWITCHES (L/R & TNC)         | MFM     | MULTI FUNCTION METER           |
| 27                                                                                  |  | UNDER VOLTAGE RELAY                          |    | CONTACTOR NC CONTACT         | CT      | CURRENT TRANSFORMER            |
| 59                                                                                  |  | OVER VOLTAGE RELAY                           |    | CONTACTOR NO CONTACT         | PT      | POTENTIAL TRANSFORMER          |
| 63X                                                                                 |  | AUXILIARY RELAY FOR TRANSFORMER FAULT ALARM. |    | NORMALLY CLOSE CONTACT       | T/S     | TOGGLE SWITCH                  |
|                                                                                     |  |                                              |    | NORMALLY OPEN CONTACT        | TH      | THERMOSTAT                     |
| 60F                                                                                 |  | PT FUSE FAILURE RELAY                        |    | POTENTIAL TRANSFORMER        | COM     | COMMON                         |
|                                                                                     |  | SYMBOL                                       |                                                                                     |                              | LS1,LS2 | LIMIT SWITCHES                 |
|    |  | TRIP COIL                                    |    | CURRENT TRANSFORMER          | VCB     | VACUUM CIRCUIT BREAKER         |
|   |  | CLOSE COIL                                   |   | 3 PIN SOCKET                 | TCH     | TRIP CIRCUIT HEALTHY           |
|  |  | TERMINAL BLOCK IN VCB PANEL                  |  | CONTACTOR                    | OTI     | OIL TRIP INDICATION            |
|  |  | SECONDARY PLUG CONTACT PIN                   |  | SPRING CHARGE CONTACT        | WTI     | WINDING TEMPERATURE INDICATION |
|  |  | INDICATION LAMP                              |  | DISCONNECTING TYPE TERMINALS | MOG     | MAGNETIC OIL LEVEL GAUGE       |
|  |  | MOTOR                                        |                                                                                     |                              | TCS T   | TRIP CIRCUIT SUPERVISION TRIP  |
|  |  | HOOTER                                       |                                                                                     |                              | O/C T   | OVER CURRENT TRIP              |
|                                                                                     |  |                                              |                                                                                     |                              | E/F T   | EARTH FAULT TRIP               |
|                                                                                     |  |                                              |                                                                                     |                              | U/V T   | UNDER-VOLTAGE TRIP             |

|       |                       |                |            |                |                                              |                                              |                                                                                                                                                                                                         |                                                                                                                                                                             |         |
|-------|-----------------------|----------------|------------|----------------|----------------------------------------------|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| R1    |                       | Drawn by:      | APR        | CUSTOMER       | : M/s. SRI VENKATESWARA POWER SYSTEMS        | M/s. BUSH ELECTROMECH & ENGINEERING (P) LTD. |  <br>Authorized Panel Builder | DWG.NO.:11kV/OD/24-25/0003                                                                                                                                                  | REV NO. |
|       |                       | Checked by:    | --         |                |                                              | K-89, MIDC, WALUJ, AURANGABAD- 431 136       |                                                                                                                                                                                                         | SH.NO.: 04 OF 21                                                                                                                                                            | R0      |
| R0    | Released for Approval | Approved by:   | SDB        | PO. NO.        | : GPS2024003, DATED-10.04.2024               | TITLE:- LEGEND SHEET                         |                                                                                                                                                                                                         |   |         |
| REV.: | DESCRIPTION           | Drawn Date :   | 11.04.2024 | MANUFACTURER : | M/s. BUSH ELECTROMECH & ENGINEERING (P) LTD. |                                              |                                                                                                                                                                                                         |                                                                                                                                                                             |         |
|       |                       | Approved Date: | --         |                |                                              |                                              |                                                                                                                                                                                                         |                                                                                                                                                                             |         |

A

B

C

D

F

G

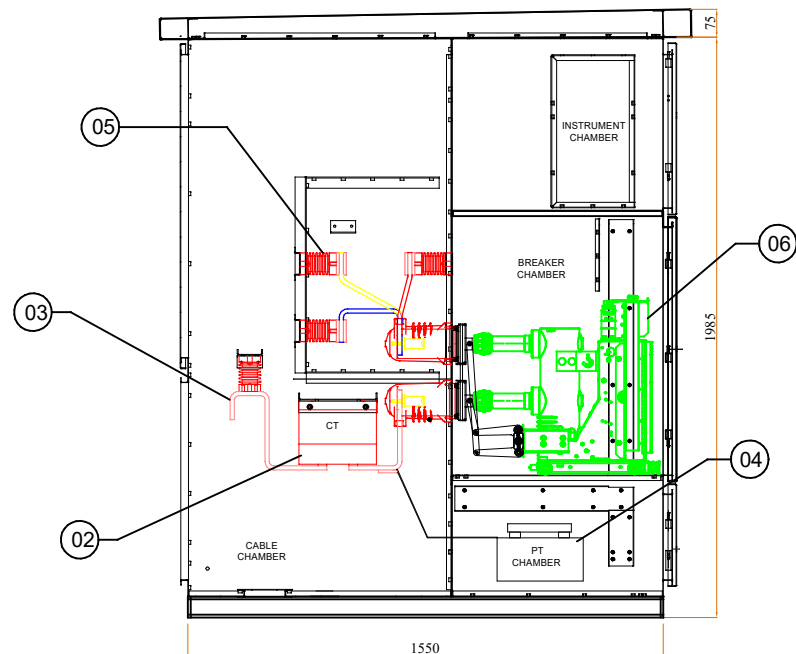
H

|                  |                                                  |                                            |                                                                                                                                                                                                                                                                                                                                                             |                                                                                                     |  |     |  |                                                                                          |                                |                                                                                        |                                      |                                                |  |            |  |
|------------------|--------------------------------------------------|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|--|-----|--|------------------------------------------------------------------------------------------|--------------------------------|----------------------------------------------------------------------------------------|--------------------------------------|------------------------------------------------|--|------------|--|
| A                |                                                  | B                                          |                                                                                                                                                                                                                                                                                                                                                             | C                                                                                                   |  | D   |  | E                                                                                        |                                | F                                                                                      |                                      | G                                              |  | H          |  |
| BILL OF MATERIAL |                                                  |                                            |                                                                                                                                                                                                                                                                                                                                                             |                                                                                                     |  |     |  |                                                                                          |                                |                                                                                        |                                      |                                                |  |            |  |
| 1                | DEVICE NO.                                       |                                            | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                 |                                                                                                     |  |     |  |                                                                                          | MAKE                           |                                                                                        | I/C                                  |                                                |  |            |  |
|                  |                                                  |                                            |                                                                                                                                                                                                                                                                                                                                                             |                                                                                                     |  |     |  |                                                                                          | QTY.----->>>>                  |                                                                                        | 1                                    |                                                |  |            |  |
| 2                | VCB                                              |                                            | 11kV,630A,[(STC)20kA/3S]. HORIZONTAL DRAWOUT VACUUM CIRCUIT BREAKER HAVING FOLLOWING ACCESSORIES:<br>- TYPE VD4<br>- 230V AC SPRING CHARGING MOTOR<br>- 110V DC CLOSING/SHUNT TRIP COIL<br>- MANUAL SPRING CHARGING DEVICE<br>- AUXILIARY CONTACTS 4 NO + 4 NC<br>- MECH. INDICATOR FOR ON/OFF, SPRING CHARGED/DISCHARGED                                   |                                                                                                     |  |     |  |                                                                                          | ABB                            |                                                                                        | 1                                    |                                                |  |            |  |
|                  | BUSBAR                                           |                                            | FOR PHASE EC GRADE AL-1X50X12MM BUSBAR WITH HT HEAT SHRINKABLE SLEEVES. CU-1X30X5mm FOR EARTHING.                                                                                                                                                                                                                                                           |                                                                                                     |  |     |  |                                                                                          | GALA-HT SLEEVE SOHAN/RR-BUSBAR |                                                                                        |                                      |                                                |  |            |  |
| 3                | PT                                               |                                            | 11KV EPOXY RESIN CAST 1PH PT (11KV/RT3/110V/RT3/110V/RT3) CLASS: 0.5/3P, BURDEN-50VA/50VA, FIXED TYPE, INSULATION CL. B/E                                                                                                                                                                                                                                   |                                                                                                     |  |     |  |                                                                                          | NEWTEK/AMITY/EQ.               |                                                                                        | 3                                    |                                                |  |            |  |
|                  | MCB,6A                                           |                                            | MCB,4P,6A FOR R-Y-B INDICATION LAMPS ALSO FOR PT CIRCUIT                                                                                                                                                                                                                                                                                                    |                                                                                                     |  |     |  |                                                                                          | ABB/EQ.                        |                                                                                        | 2                                    |                                                |  |            |  |
| 4                | CT                                               |                                            | CT EPOXY RESIN CAST, 1PH, STR-20kA/3 SEC CLASS: 0.5/5P10, BURDEN-10VA/10VA FOR ICOG CT RATIO-100/5-5A, INSULATION CLASS B/E                                                                                                                                                                                                                                 |                                                                                                     |  |     |  |                                                                                          | NEWTEK/AMITY/EQ.               |                                                                                        | 3                                    |                                                |  |            |  |
|                  | L1-L3<br>L4<br>L5<br>L6<br>L7<br>L8<br>L9<br>L10 |                                            | INDICATING LAMP, 22.5 MM DIA, OPERATING VOLTAGE:110V AC/110V DC<br>R-Y-B INDICATION (110V AC)<br>BREAKER OFF-GREEN (110V DC)<br>BREAKER ON-RED (110V DC)<br>SPRING CHARGED-BLUE (110V DC)<br>AUTO TRIP-AMBER (110V DC)<br>TRIP CIRCUIT HEALTHY-WHITE (110V DC)<br>BREAKER IN TEST POSITION-RED/GREEN (110V DC)<br>BREAKER IN SERVICE POSITION-RED (110V DC) |                                                                                                     |  |     |  |                                                                                          | SUMO/ESSEN/EQ.                 |                                                                                        | 3<br>1<br>1<br>1<br>1<br>1<br>1<br>1 |                                                |  |            |  |
| 5                |                                                  |                                            |                                                                                                                                                                                                                                                                                                                                                             |                                                                                                     |  |     |  |                                                                                          |                                |                                                                                        |                                      |                                                |  |            |  |
|                  |                                                  |                                            |                                                                                                                                                                                                                                                                                                                                                             |                                                                                                     |  |     |  |                                                                                          |                                |                                                                                        |                                      |                                                |  |            |  |
| 6                |                                                  |                                            |                                                                                                                                                                                                                                                                                                                                                             |                                                                                                     |  |     |  |                                                                                          |                                |                                                                                        |                                      |                                                |  |            |  |
|                  |                                                  |                                            |                                                                                                                                                                                                                                                                                                                                                             |                                                                                                     |  |     |  |                                                                                          |                                |                                                                                        |                                      |                                                |  |            |  |
| R1               |                                                  | Accuracy Class changed from class 1 to 0.5 |                                                                                                                                                                                                                                                                                                                                                             | Drawn by: --<br>Checked by: SDB<br>Approved by: SDB<br>Drawn Date : 11.04.2024<br>Approved Date: -- |  | APR |  | CUSTOMER : M/s. SRI VENKATESWARA POWER SYSTEMS<br>PO. NO. : GPS2024003, DATED-10.04.2024 |                                | M/s. BUSH ELECTROMECH & ENGINEERING (P) LTD.<br>K-89, MIDC, WALUJ, AURANGABAD- 431 136 |                                      | DWG.NO.:11kV/OD/24-25/0003<br>SH.NO.: 05 OF 21 |  | REV NO. R0 |  |
| R0               |                                                  | Released for Approval                      |                                                                                                                                                                                                                                                                                                                                                             |                                                                                                     |  |     |  | MANUFACTURER : M/s. BUSH ELECTROMECH & ENGINEERING (P) LTD.                              |                                | TITLE:- BILL OF MATERIAL                                                               |                                      | Authorized Panel Builder                       |  |            |  |
| REV.:            |                                                  | DESCRIPTION                                |                                                                                                                                                                                                                                                                                                                                                             |                                                                                                     |  |     |  |                                                                                          |                                |                                                                                        |                                      |                                                |  |            |  |
| A                |                                                  | B                                          |                                                                                                                                                                                                                                                                                                                                                             | C                                                                                                   |  | D   |  | E                                                                                        |                                | F                                                                                      |                                      | G                                              |  | H          |  |

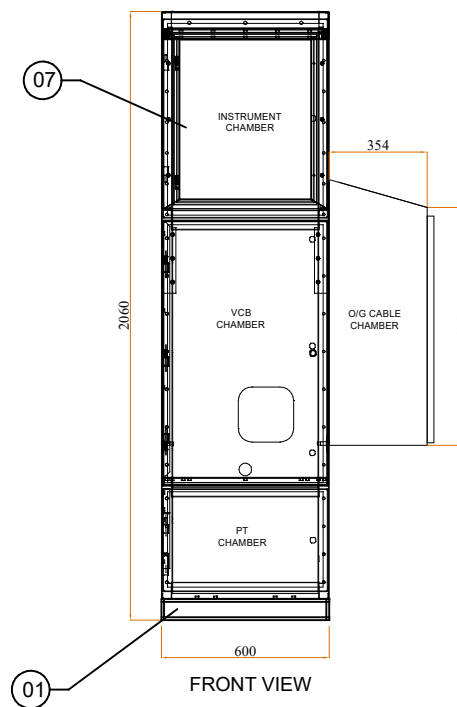
|                  |  |                                                                                       |  |   |  |                      |  |     |  |   |  |   |  |   |  |
|------------------|--|---------------------------------------------------------------------------------------|--|---|--|----------------------|--|-----|--|---|--|---|--|---|--|
| A                |  | B                                                                                     |  | C |  | D                    |  | E   |  | F |  | G |  | H |  |
| BILL OF MATERIAL |  |                                                                                       |  |   |  |                      |  |     |  |   |  |   |  |   |  |
| DEVICE NO.       |  | DESCRIPTION                                                                           |  |   |  | MAKE/TYPE            |  | I/C |  |   |  |   |  |   |  |
|                  |  |                                                                                       |  |   |  | QTY.----->>>>        |  | 1   |  |   |  |   |  |   |  |
| MFM              |  | MULTIFUNCTION METER WITH RS485<br>SUPPLY VTG GIVEN : 110V AC ; ACCURACY CLASS : 1     |  |   |  | SECURE/ELMEASURE/EQ. |  | 1   |  |   |  |   |  |   |  |
| 50/51RYBN        |  | NUMERICAL 3 O/C(50,51)+1E/F(50N,51N) RELAY WITH INBUILT TRIP CIRCUIT SUPERVISION (94) |  |   |  | ASHIDA-ADR241C       |  | 1   |  |   |  |   |  |   |  |
| 86               |  | MASTER TRIP RELAY-ELECTRO-MECHANICAL TYPE                                             |  |   |  | ASHIDA/EQ.           |  | 1   |  |   |  |   |  |   |  |
| 74               |  | MINIATURE TRANSFORMER AUX. PROTECTION RELAY FOR BUCHHOLZ, WTI, OTI ALARM/TRIP         |  |   |  | ASHIDA/ABB/EQ.       |  | 6   |  |   |  |   |  |   |  |
| 95               |  | ANTI PUMPING RELAY (DIN RAIL MOUNTED)                                                 |  |   |  | ABB/EQ.              |  | 1   |  |   |  |   |  |   |  |
| 96               |  | RELAY FOR MOTOR SPRING CHARGE(DIN RAIL MOUNTED)/INBUILT CB                            |  |   |  | ABB/EQ.              |  | 1   |  |   |  |   |  |   |  |
| TNC              |  | 32A,TRIP-NEUTRAL-CLOSE TYPE BREAKER CONTROL SWITCH, 3 POSITION, NON-LOCKABLE TYPE     |  |   |  | RISHABH/SHIRKE/EQ.   |  | 1   |  |   |  |   |  |   |  |
| L/R              |  | 25A,AC/DC LOCAL REMOTE SWITCH, 2 POLE, 2 WAY, 2 POSITION                              |  |   |  | RISHABH/SHIRKE/EQ.   |  | 1   |  |   |  |   |  |   |  |
| HT               |  | 40-100W, 230V AC SPACE HEATER                                                         |  |   |  | SWARAJ/APT/EQ.       |  | 1   |  |   |  |   |  |   |  |
| TH               |  | THERMOSTAT, 30°-85° C, 230V AC                                                        |  |   |  | SWARAJ/APT/EQ.       |  | 1   |  |   |  |   |  |   |  |
|                  |  |                                                                                       |  |   |  |                      |  |     |  |   |  |   |  |   |  |
|                  |  |                                                                                       |  |   |  |                      |  |     |  |   |  |   |  |   |  |
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|                  |  |                                                                                       |  |   |  |                      |  |     |  |   |  |   |  |   |  |
|                  |  |                                                                                       |  |   |  |                      |  |     |  |   |  |   |  |   |  |

| DEVICE NO.  | DESCRIPTION                                                                                            | MAKE/TYPE            | I/C |
|-------------|--------------------------------------------------------------------------------------------------------|----------------------|-----|
|             |                                                                                                        | QTY.----->>>>        | 1   |
| T/S         | TOGGLE SWITCH FOR HEATER ON/OFF                                                                        | SURAJ/EQ.            | 1   |
| LED & DLS   | LED-230V AC, FOR PANEL ILLUMINATION WITH DOOR LIMIT SWITCH                                             | LED-ORIENT,DLS-SURAJ | 1   |
| S & S BOX   | SWITCH & SOCKET BOX (PIN PLUG WITH SWITCH)                                                             | ANCHOR/EQ.           | 1   |
| MCB-05-07   | MCB,2P,6AMP FOR AC                                                                                     | ABB/EQ.              | 3   |
| MCB-02-04   | MCB,2P,6AMP FOR DC                                                                                     | ABB/EQ.              | 3   |
| ANNU. & HTR | 8 WINDOWS MICROPROCESSOR BASED ANNUNCIATOR WITH INBUILT ACCEPT/TEST/RESET/ACK, SUPPLY VOLTAGE:110V DC, | ALAN/PROTON/EQ.      | 1   |
| HOOTER      | ELECTRONIC HOOTER, SUPPLY VOLTAG 110V DC                                                               | ALAN/PROTON/EQ.      | 1   |
| EPB         | EMERGENCY PUSH BUTTON                                                                                  | TECKNIC/EQ.          | 1   |
| POWERPACK   | BATTERY BACK UP-POWERPACK-230V AC TO 110V DC                                                           | ALAN/GOGTE/EQ.       | 1   |

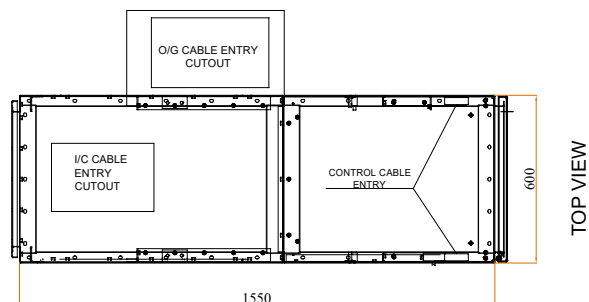




LH SECTIONAL VIEW



FRONT VIEW

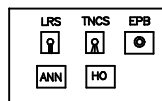


TOP VIEW

|             |                           |
|-------------|---------------------------|
|             |                           |
| 7           | INSTRUMENT CHAMBER        |
| 6           | VACUUM CIRCUIT<br>BREAKER |
| 5           | INSULATOR                 |
| 4           | PT                        |
| 3           | ALUMINIUM BUSBAR          |
| 2           | CURRENT TRASFORMER        |
| 1           | BASE FRAME                |
| ITEM<br>NO. | DESCRIPTION               |

|                      |                         |
|----------------------|-------------------------|
|                      | H x W x D               |
| PANEL SIZE           | 2060 x 600 x 1550mm     |
| MAIN BUSBAR SIZE     | 1 X 50 X 12 mm AL.      |
| INSULATION OF BUSBAR | 11 kV GRADE HEAT SLEEVE |
| EARTH BUS SIZE       | 1 X 30 X 5 MM CU.       |

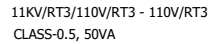
|       |                       |                |            |                                                             |                                                                                        |                                                                                                                                                                                                                           |                                                                                       |               |
|-------|-----------------------|----------------|------------|-------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------|
|       |                       | Drawn by:      | APR        | CUSTOMER : M/s. SRI VENKATESWARA POWER SYSTEMS              | M/s. BUSH ELECTROMECH & ENGINEERING (P) LTD.<br>K-89, MIDC, WALUJ, AURANGABAD- 431 136 | <div></div> <div>Authorized Panel Builder</div> | DWG.NO.:11kV/OD/24-25/0003                                                            | REV NO.<br>R0 |
| R1    |                       | Checked by:    | --         |                                                             |                                                                                        |                                                                                                                                                                                                                           | PO. NO. : GPS2024003, DATED-10.04.2024                                                |               |
|       |                       | Approved by:   | SDB        |                                                             |                                                                                        |                                                                                                                                                                                                                           |                                                                                       |               |
| R0    | Released for Approval | Drawn Date:    | 11.04.2024 | MANUFACTURER : M/s. BUSH ELECTROMECH & ENGINEERING (P) LTD. | TITLE:- GENERAL ARRANGEMENT DRAWING                                                    |                                                                                                                                                                                                                           |  |               |
| REV.: | DESCRIPTION           | Approved Date: | --         |                                                             |                                                                                        |                                                                                                                                                                                                                           |                                                                                       |               |

[illegible]

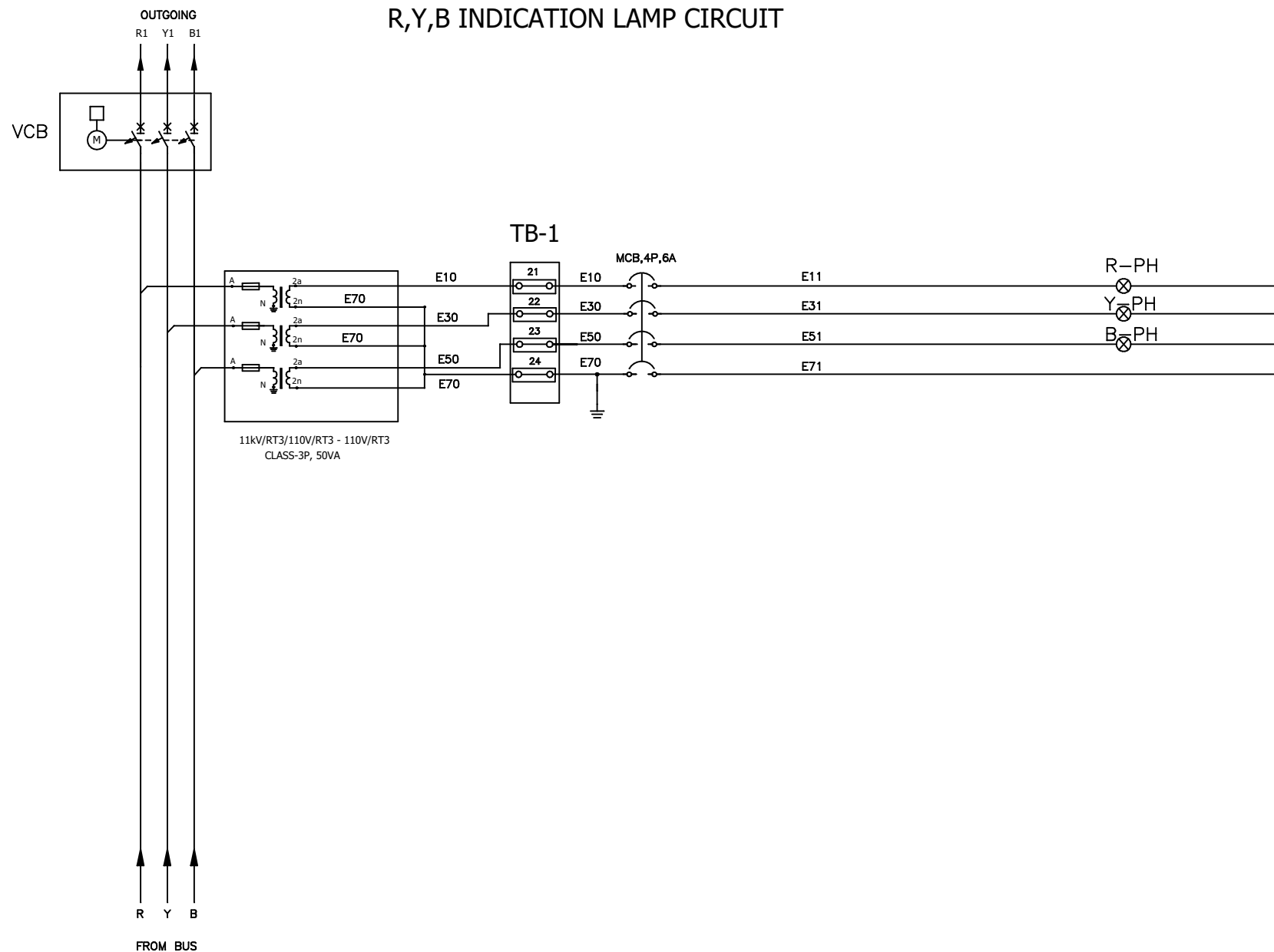
- |     |                                  |
|-----|----------------------------------|
| 50  | INSTANTANEOUS OVER CURRENT RELAY |
| 50N | INSTANTANEOUS EARTH FAULT RELAY  |
| 51  | IDMT OVER CURRENT RELAY          |
| 51N | IDMT EARTH FAULT RELAY           |
| 74  | AUXILIARY RELAY FOR TRANSFORMER  |
| 94  | TRIP CIRCUIT SUPERVISION RELAY   |
| 86  | MASTER TRIP RELAY                |

|       |                                            |                |            |                                                             |  |                                                                                        |                                                                                                                                                                                                         |                                        |           |                  |
|-------|--------------------------------------------|----------------|------------|-------------------------------------------------------------|--|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-----------|------------------|
|       |                                            | Drawn by:      | APR        | CUSTOMER : M/s. SRI VENKATESWARA POWER SYSTEMS              |  | M/s. BUSH ELECTROMECH & ENGINEERING (P) LTD.<br>K-89, MIDC, WALUJ, AURANGABAD- 431 136 |  <br>Authorized Panel Builder | DWG.NO.:11kV/OD/24-25/0003             | REV NO. 6 |                  |
| R1    | Accuracy Class changed from class 1 to 0.5 | Checked by:    | --         |                                                             |  |                                                                                        |                                                                                                                                                                                                         | PO. NO. : GPS2024003, DATED-10.04.2024 |           | SH.NO.: 09 OF 21 |
| R0    | Released for Approval                      | Drawn Date :   | 11.04.2024 | MANUFACTURER : M/s. BUSH ELECTROMECH & ENGINEERING (P) LTD. |  | TITLE:- SINGLE LINE DIAGRAM                                                            |                                                                                                                    |                                        |           |                  |
| REV.: | DESCRIPTION                                | Approved Date: | --         |                                                             |  |                                                                                        |                                                                                                                                                                                                         |                                        |           |                  |
| A     |                                            | B              |            | C                                                           |  | D                                                                                      | F                                                                                                                                                                                                       |                                        | G         | H                |

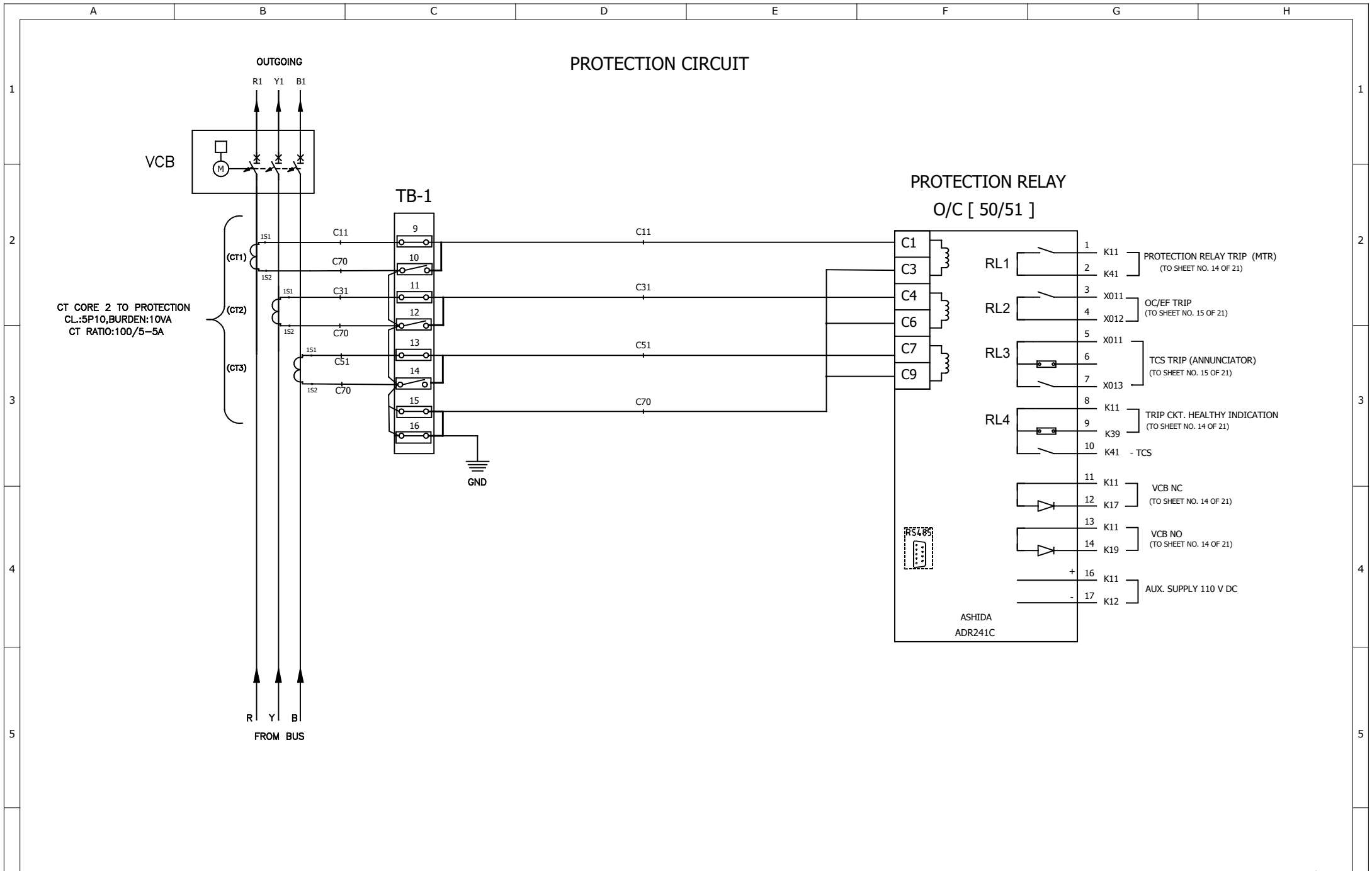
CT CORE 1 TO  
METERING  
100/5-5A  
CLASS:0.5,BURDEN:10VA



Authorized Panel Builder

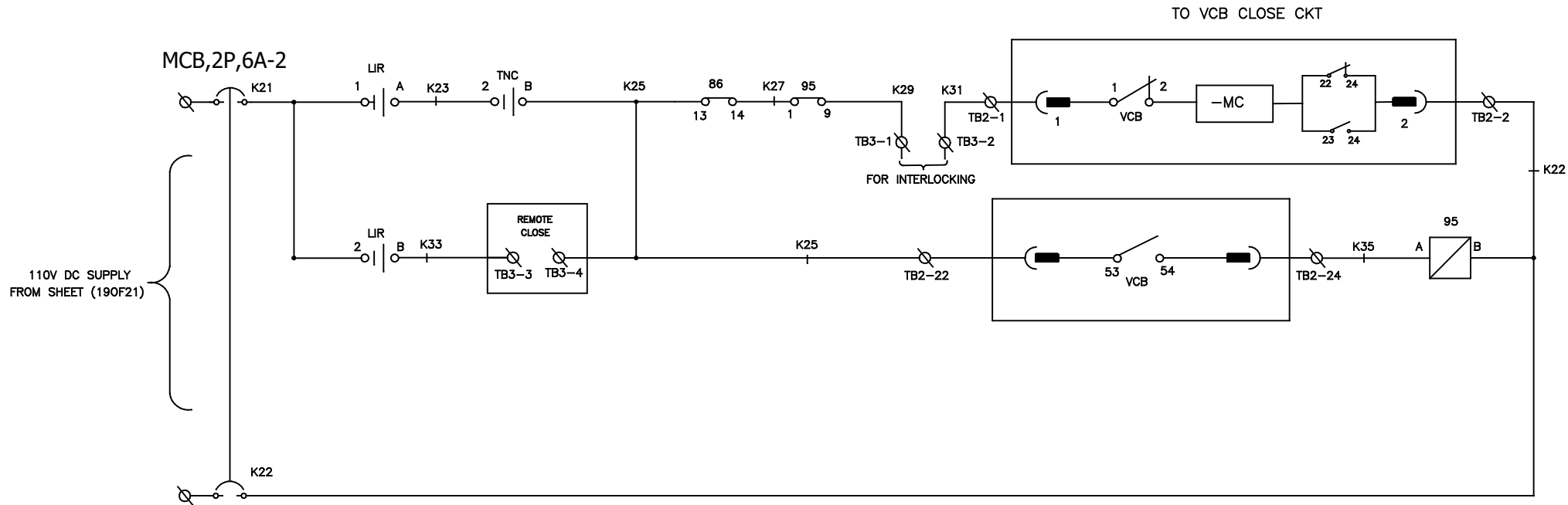


|   |       |              |                   |                                                             |                                                                                        |                                                                                                                                                                                                         |                                                                                                                                                                             |               |
|---|-------|--------------|-------------------|-------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| 6 |       | Drawn by:    | APR               | CUSTOMER : M/s. SRI VENKATESWARA POWER SYSTEMS              | M/s. BUSH ELECTROMECH & ENGINEERING (P) LTD.<br>K-89, MIDC, WALUJ, AURANGABAD- 431 136 |  <br>Authorized Panel Builder | DWG.NO.:11kV/OD/24-25/0003<br>SH.NO.: 11 OF 21                                                                                                                              | REV NO.<br>R0 |
|   | R1    | Checked by:  | --                |                                                             |                                                                                        |                                                                                                                                                                                                         |                                                                                                                                                                             |               |
|   |       | Approved by: | SDB               | PO. NO. : GPS2024003, DATED-10.04.2024                      |                                                                                        |                                                                                                                                                                                                         |                                                                                                                                                                             |               |
|   | R0    | Drawn Date : | 11.04.2024        | MANUFACTURER : M/s. BUSH ELECTROMECH & ENGINEERING (P) LTD. | TITLE:- R,Y,B INDICATION LAMP CIRCUIT                                                  |                                                                                                                                                                                                         |                                                                                                                                                                             |               |
|   | REV.: | DESCRIPTION  | Approved Date: -- |                                                             |                                                                                        |                                                                                                                                                                                                         |   |               |
|   | A     | B            |                   | C                                                           | D                                                                                      | F                                                                                                                                                                                                       | G                                                                                                                                                                           | H             |



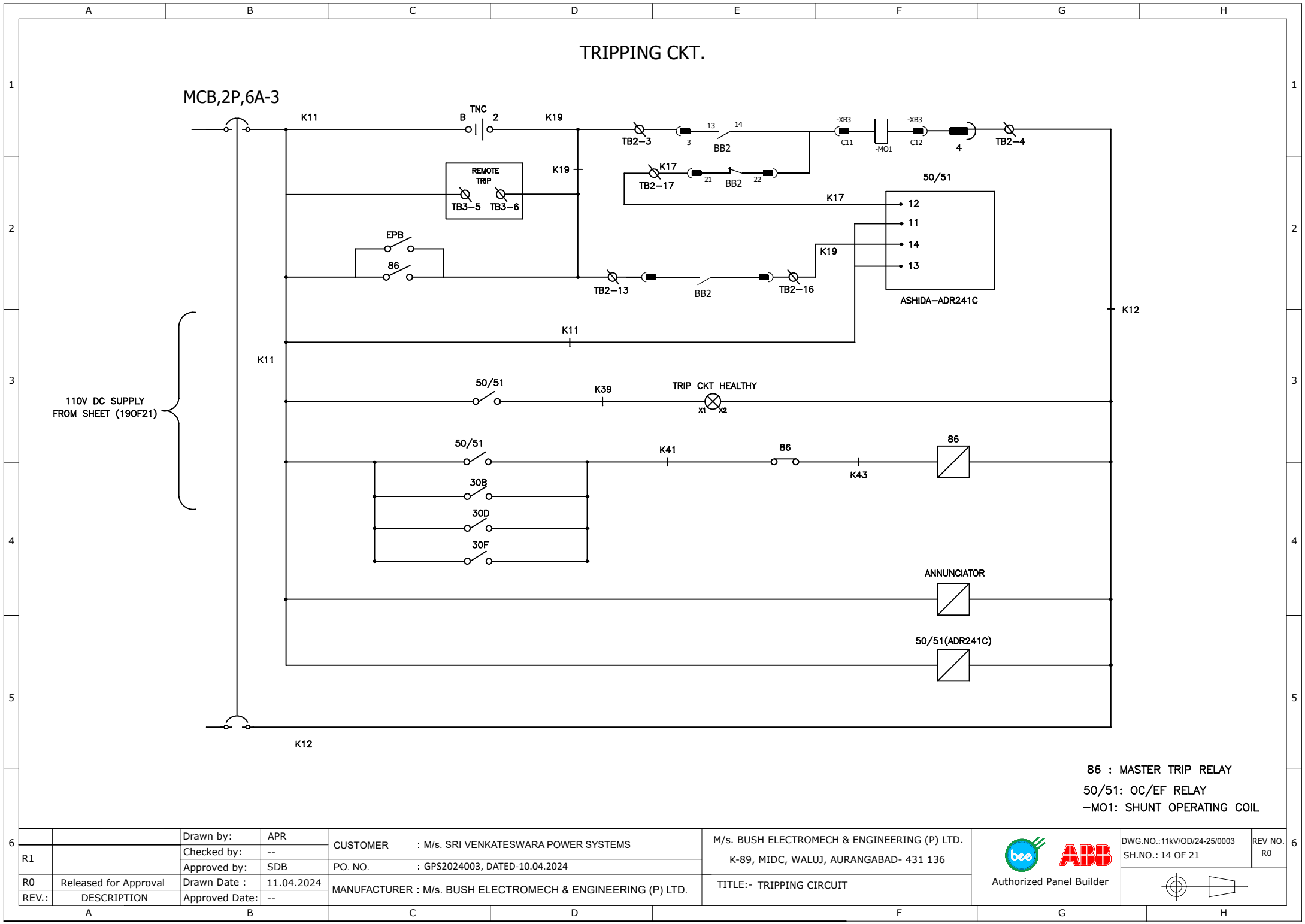
|                   |  |                |            |                                                             |                                                                                        |                                                                                                                                                                             |                                                                                                                                                                             |               |
|-------------------|--|----------------|------------|-------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| R1                |  | Drawn by:      | APR        | CUSTOMER : M/s. SRI VENKATESWARA POWER SYSTEMS              | M/s. BUSH ELECTROMECH & ENGINEERING (P) LTD.<br>K-89, MIDC, WALUJ, AURANGABAD- 431 136 |   | DWG.NO.:11kV/OD/24-25/0003<br>SH.NO.: 12 OF 21                                                                                                                              | REV NO.<br>R0 |
| R0                |  | Checked by:    | --         |                                                             |                                                                                        |                                                                                                                                                                             |                                                                                                                                                                             |               |
| REV.: DESCRIPTION |  | Approved by:   | SDB        | PO. NO. : GPS2024003, DATED-10.04.2024                      | TITLE:- PROTECTION CIRCUIT                                                             | Authorized Panel Builder                                                                                                                                                    |   |               |
|                   |  | Drawn Date :   | 11.04.2024 | MANUFACTURER : M/s. BUSH ELECTROMECH & ENGINEERING (P) LTD. |                                                                                        |                                                                                                                                                                             |                                                                                                                                                                             |               |
|                   |  | Approved Date: | --         |                                                             |                                                                                        |                                                                                                                                                                             |                                                                                                                                                                             |               |

CLOSING CKT.

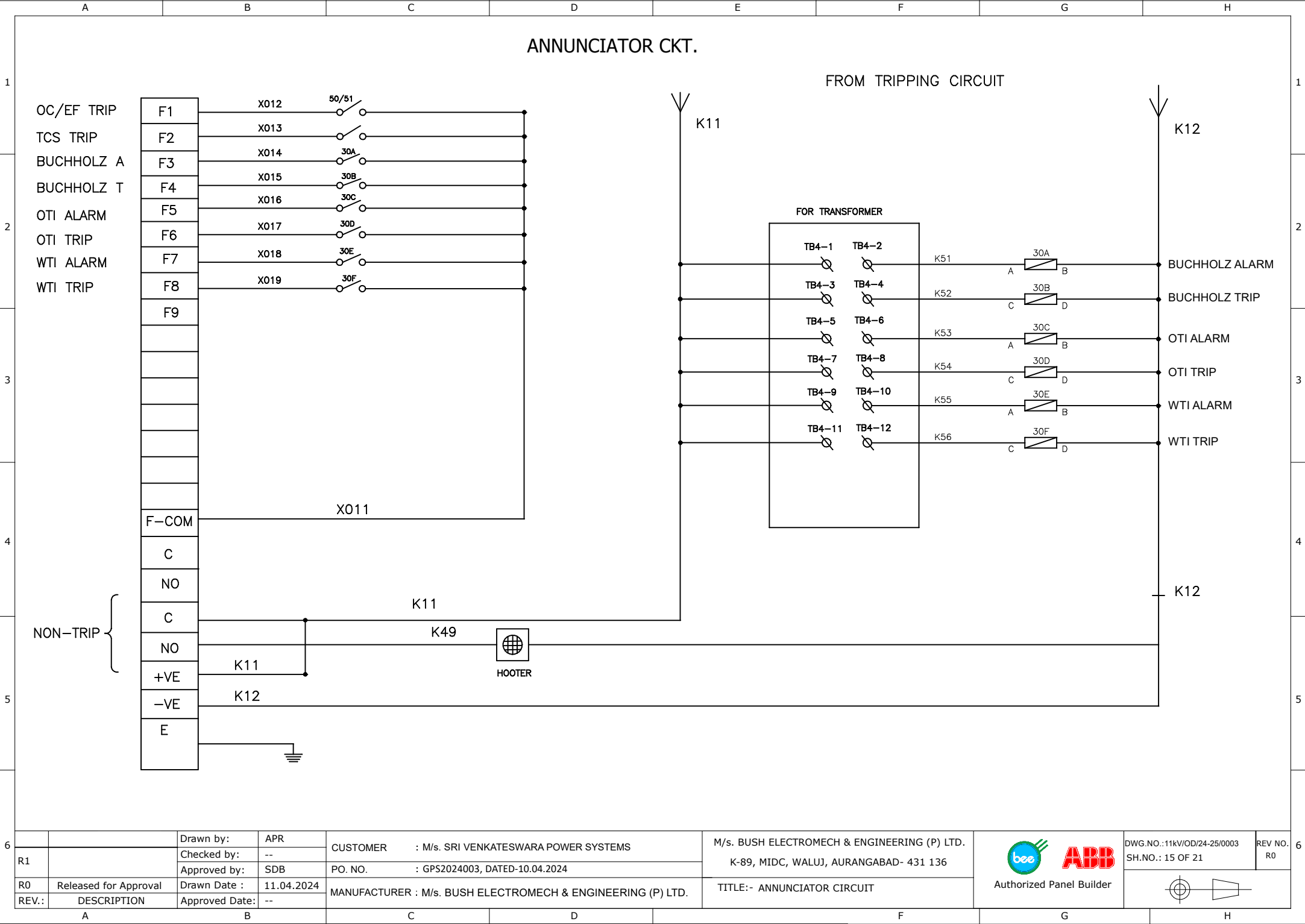


-MC : SHUNT CLOSING COIL CONT.  
95 : ANTI PUMPING RELAY

|                   |  |                |            |                                                             |                                                                                        |                                                                                                                                                                                                         |                                                |               |
|-------------------|--|----------------|------------|-------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|---------------|
| R1                |  | Drawn by:      | APR        | CUSTOMER : M/s. SRI VENKATESWARA POWER SYSTEMS              | M/s. BUSH ELECTROMECH & ENGINEERING (P) LTD.<br>K-89, MIDC, WALUJ, AURANGABAD- 431 136 |  <br>Authorized Panel Builder | DWG.NO.:11kV/OD/24-25/0003<br>SH.NO.: 13 OF 21 | REV NO.<br>R0 |
|                   |  | Checked by:    | --         |                                                             |                                                                                        |                                                                                                                                                                                                         |                                                |               |
| R0                |  | Approved by:   | SDB        | PO. NO. : GPS2024003, DATED-10.04.2024                      | TITLE:- CLOSING CIRCUIT                                                                |                               |                                                |               |
| REV.: DESCRIPTION |  | Drawn Date :   | 11.04.2024 | MANUFACTURER : M/s. BUSH ELECTROMECH & ENGINEERING (P) LTD. |                                                                                        |                                                                                                                                                                                                         |                                                |               |
|                   |  | Approved Date: | --         |                                                             |                                                                                        |                                                                                                                                                                                                         |                                                |               |



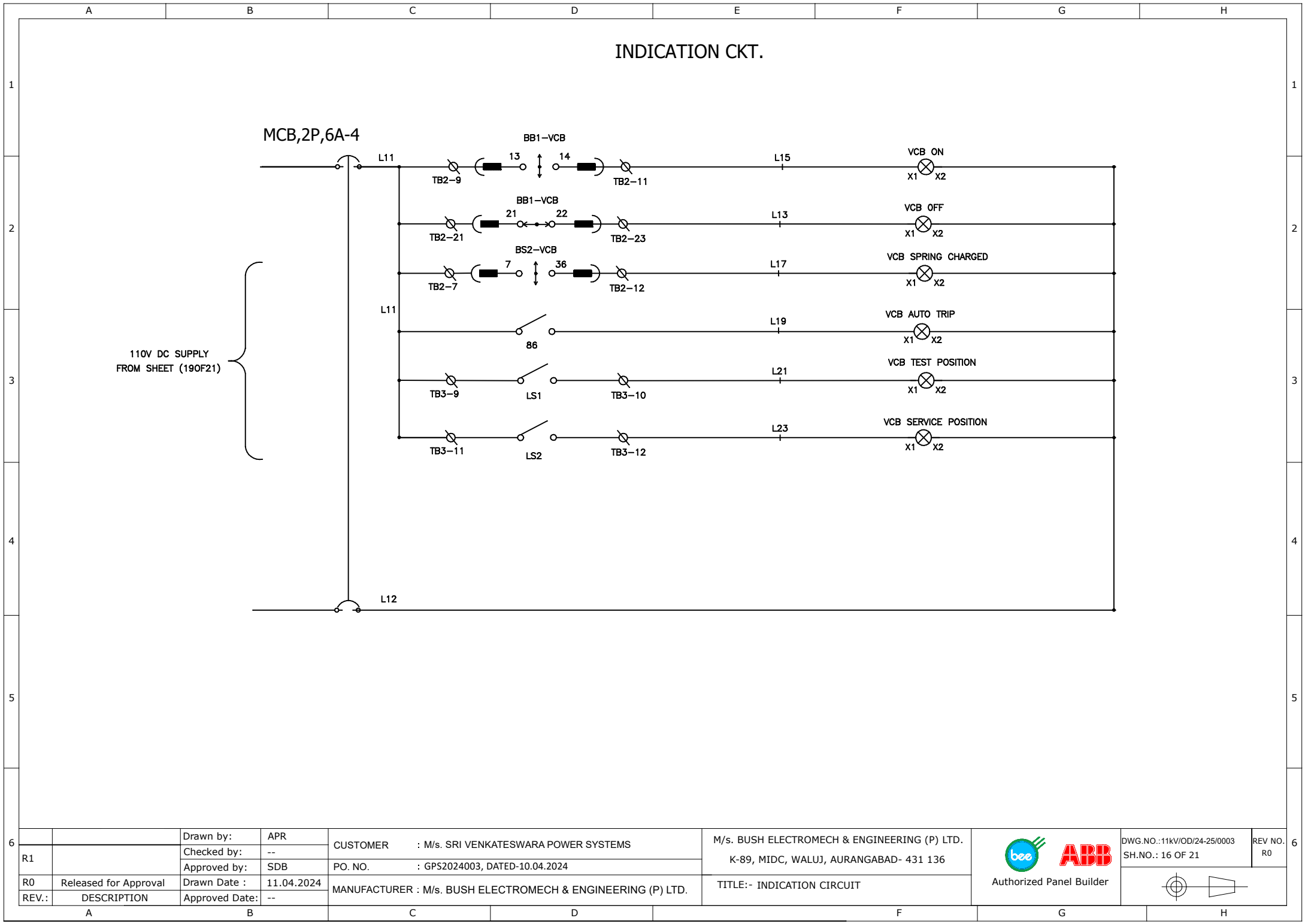
|   |       |                       |                |                                                |                                                             |   |                                                                                        |                          |                                                                                                                                                                                                         |                                                |               |   |    |  |   |  |
|---|-------|-----------------------|----------------|------------------------------------------------|-------------------------------------------------------------|---|----------------------------------------------------------------------------------------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|---------------|---|----|--|---|--|
| 6 |       | Drawn by:             | APR            | CUSTOMER : M/s. SRI VENKATESWARA POWER SYSTEMS |                                                             |   | M/s. BUSH ELECTROMECH & ENGINEERING (P) LTD.<br>K-89, MIDC, WALUJ, AURANGABAD- 431 136 |                          |  <br>Authorized Panel Builder | DWG.NO.:11kV/OD/24-25/0003<br>SH.NO.: 14 OF 21 | REV NO.<br>R0 | 6 |    |  |   |  |
|   | R1    |                       | Checked by:    |                                                |                                                             |   |                                                                                        |                          |                                                                                                                                                                                                         |                                                |               |   | -- |  |   |  |
|   |       |                       | Approved by:   | SDB                                            | PO. NO. : GPS2024003, DATED-10.04.2024                      |   |                                                                                        |                          |                                                                                                                                                                                                         |                                                |               |   |    |  |   |  |
|   | R0    | Released for Approval | Drawn Date :   | 11.04.2024                                     | MANUFACTURER : M/s. BUSH ELECTROMECH & ENGINEERING (P) LTD. |   |                                                                                        | TITLE:- TRIPPING CIRCUIT |                                                                                                                                                                                                         |                                                |               |   |    |  |   |  |
|   | REV.: | DESCRIPTION           | Approved Date: | --                                             |                                                             |   |                                                                                        |                          |                                                                                                                                                                                                         |                                                |               |   |    |  |   |  |
| A |       |                       |                | B                                              |                                                             | C |                                                                                        | D                        |                                                                                                                                                                                                         | F                                              |               |   | G  |  | H |  |



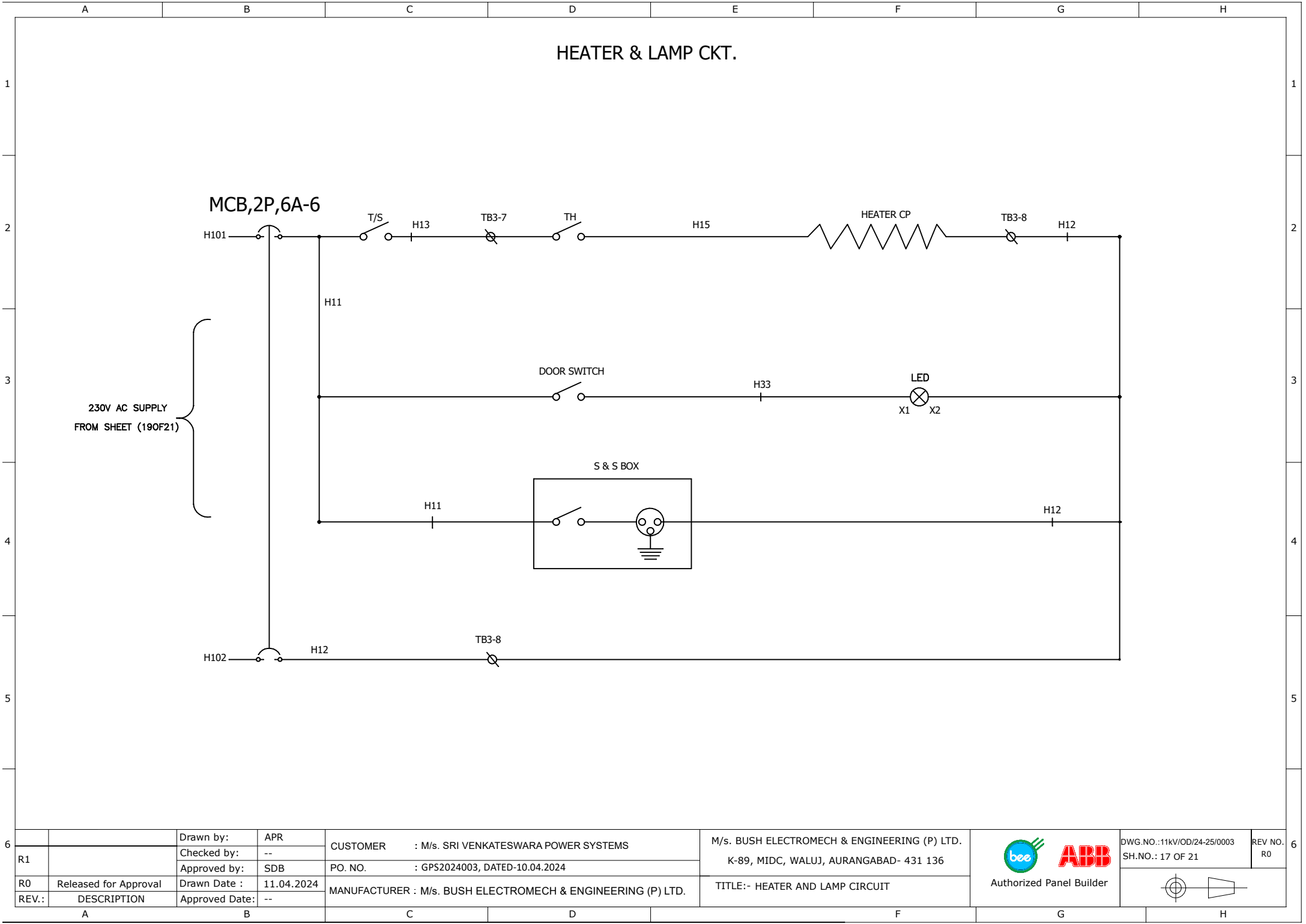
6

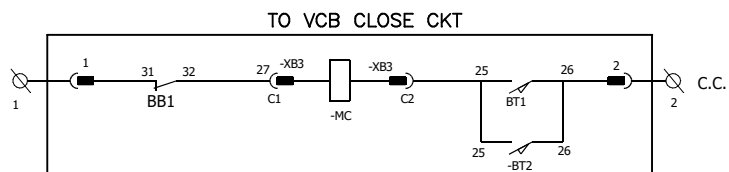
6



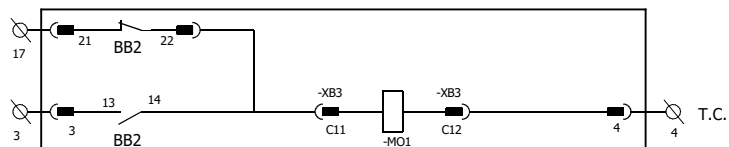


|       |                       |                |            |                                                |                                                                                        |                                                                            |                                                             |               |                            |
|-------|-----------------------|----------------|------------|------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------|---------------|----------------------------|
|       |                       | Drawn by:      | APR        | CUSTOMER : M/s. SRI VENKATESWARA POWER SYSTEMS | M/s. BUSH ELECTROMECH & ENGINEERING (P) LTD.<br>K-89, MIDC, WALUJ, AURANGABAD- 431 136 | <div><div>bee</div><div>ABB</div><div>Authorized Panel Builder</div></div> | DWG.NO.:11kV/OD/24-25/0003                                  | REV NO.<br>R0 |                            |
| R1    |                       | Checked by:    | --         |                                                |                                                                                        |                                                                            | PO. NO. : GPS2024003, DATED-10.04.2024                      |               | SH.NO.: 16 OF 21           |
| R0    | Released for Approval | Drawn Date :   | 11.04.2024 |                                                |                                                                                        |                                                                            | MANUFACTURER : M/s. BUSH ELECTROMECH & ENGINEERING (P) LTD. |               | TITLE:- INDICATION CIRCUIT |
| REV.: | DESCRIPTION           | Approved Date: | --         |                                                |                                                                                        |                                                                            | <div><div></div><div></div></div>                           |               |                            |

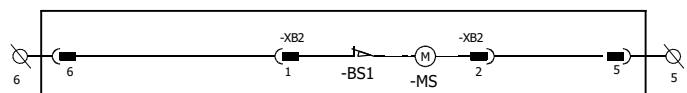




ON SH.NO.13 OF 21 TO TCS APPLICATION



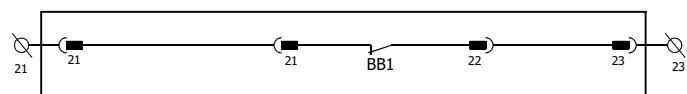
ON SH.NO.14 OF 21 TO VCB TRIPPING CIRCUIT APPLICATION



ON SH.NO.19 OF 21 TO MOTOR SPRING FUNCTION



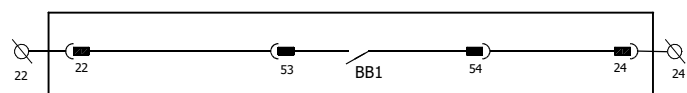
ON SH.NO.16 OF 21 TO VCB SPRING CHARGED INDICATION



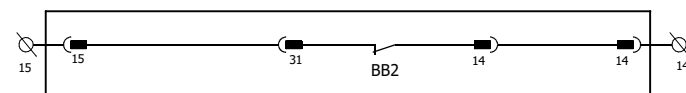
ON SH.NO.16 OF 21 TO VCB OFF INDICATION



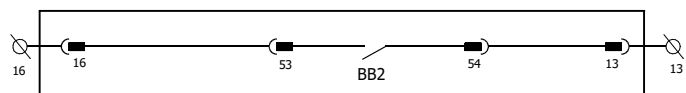
ON SH.NO.16 OF 21 TO VCB ON INDICATION



ON SH.NO.13 OF 21 TO ANTIPUMPING RELAY(95) APPLICATION



SPARE



ON SHEET NO.14 OF 21

### Description

- MS = Motor for the closing spring charging
- BB1..2,3 = Circuit Breaker auxiliary switch
- BS1 = Limit switches for the spring charging motor
- BS2\* = limit switch for spring discharged indicator
- BT1 = Limit switch of C.B. in the service position
- BT2 = Limit switch of C.B. in the Test position
- XB2..9 = Connector of accessories.
- MC = shunt closing release.
- M01 = first shunt opening release.
- M02 = Second shunt opening release.
- MU = Under Voltage release. (Optional Accessory)

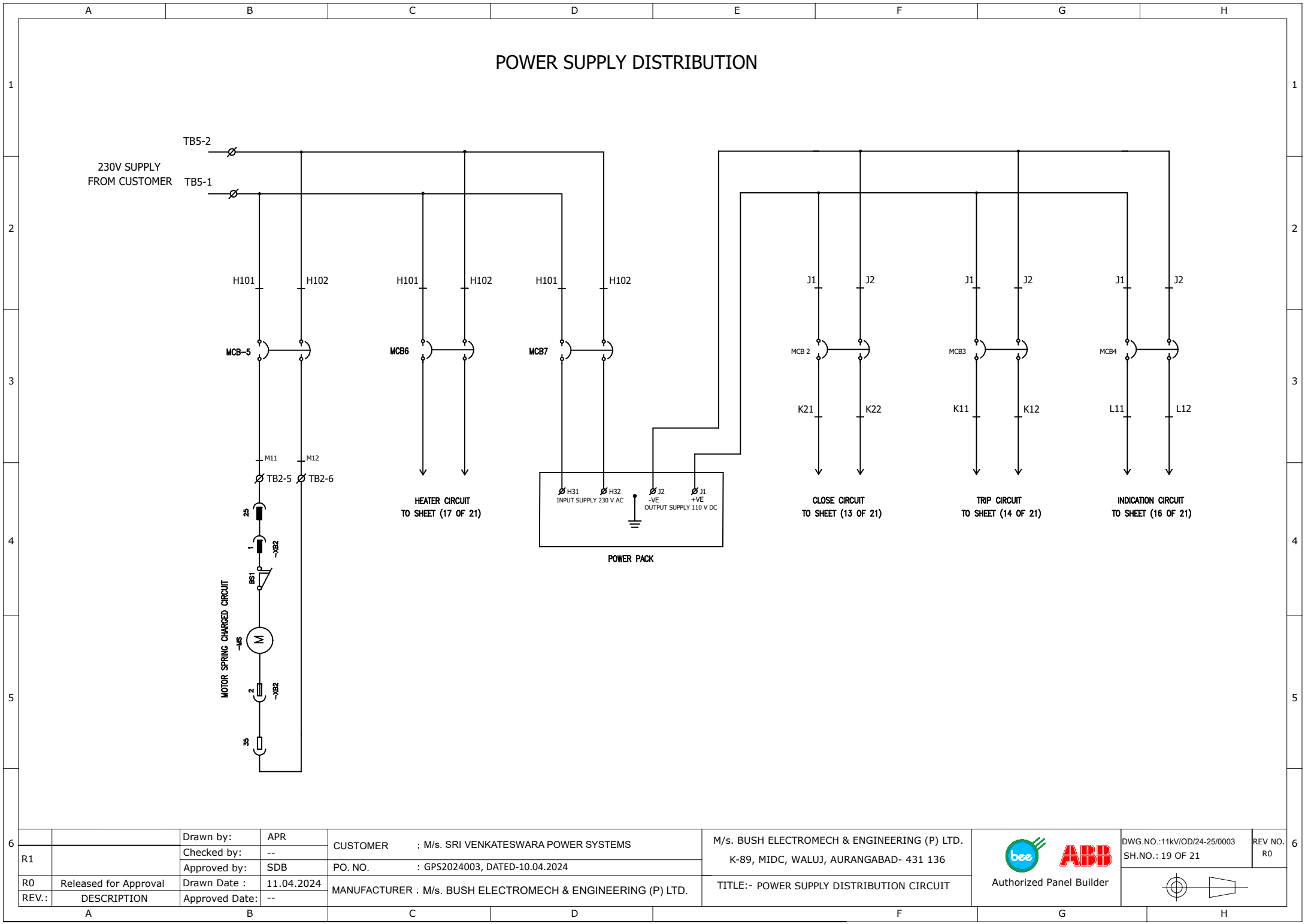
Note:

- 1] Limit switch of C.B. in the Service ( connected ) & Test (Isolated) positions (-BT1 & -+BT2) are located on the circuit breaker (moving part).
- 2] closing Coil is continuous rating coil

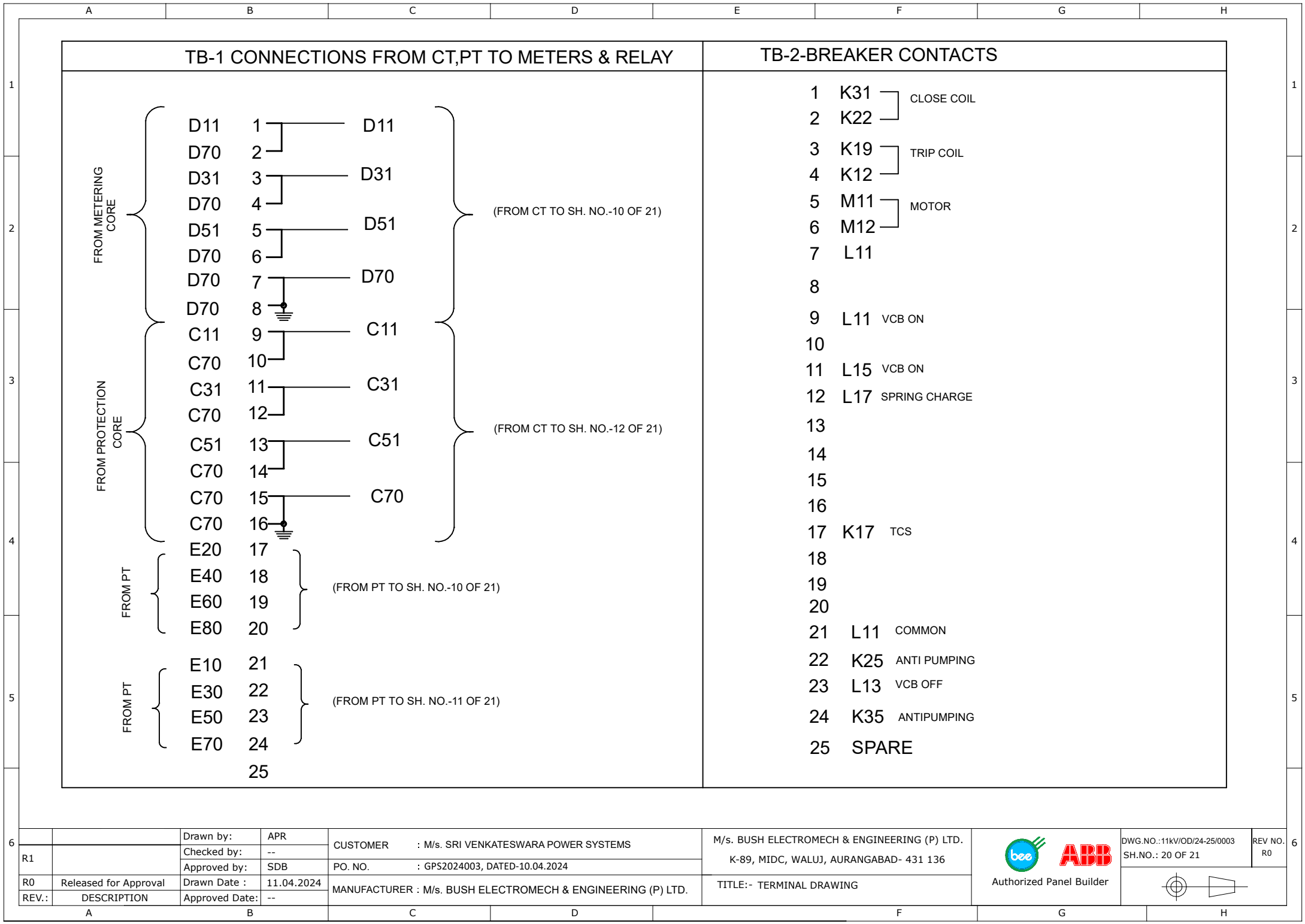
\*\* Optional accessory either one can be used

\* Optional

|       |                       |                |            |                                                             |                                                                                        |                                                                                                                                                                                                         |                                                                                       |            |   |
|-------|-----------------------|----------------|------------|-------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------|---|
|       |                       | Drawn by:      | APR        | CUSTOMER : M/s. SRI VENKATESWARA POWER SYSTEMS              | M/s. BUSH ELECTROMECH & ENGINEERING (P) LTD.<br>K-89, MIDC, WALUJ, AURANGABAD- 431 136 |  <br>Authorized Panel Builder | DWG.NO.:11kV/OD/24-25/0003                                                            | REV NO. R0 | 6 |
| R1    |                       | Checked by:    | --         |                                                             |                                                                                        |                                                                                                                                                                                                         | PO. NO. : GPS2024003, DATED-10.04.2024                                                |            |   |
| R0    | Released for Approval | Approved by:   | SDB        |                                                             |                                                                                        |                                                                                                                                                                                                         |                                                                                       |            |   |
| REV.: | DESCRIPTION           | Drawn Date :   | 11.04.2024 | MANUFACTURER : M/s. BUSH ELECTROMECH & ENGINEERING (P) LTD. | TITLE:- VCB PIN DIAGRAM                                                                |                                                                                                                                                                                                         |  |            |   |
|       |                       | Approved Date: | --         |                                                             |                                                                                        |                                                                                                                                                                                                         |                                                                                       |            |   |



|   |       |                       |                |                                                |                                                             |   |                                                                                        |                                                                                                                                                                                                         |                                                                                                                                                                             |               |   |
|---|-------|-----------------------|----------------|------------------------------------------------|-------------------------------------------------------------|---|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---|
| 6 |       | Drawn by:             | APR            | CUSTOMER : M/s. SRI VENKATESWARA POWER SYSTEMS |                                                             |   | M/s. BUSH ELECTROMECH & ENGINEERING (P) LTD.<br>K-89, MIDC, WALUJ, AURANGABAD- 431 136 |  <br>Authorized Panel Builder | DWG.NO.:11kV/OD/24-25/0003<br>SH.NO.: 19 OF 21                                                                                                                              | REV NO.<br>R0 | 6 |
|   | R1    |                       | Checked by:    |                                                |                                                             |   |                                                                                        |                                                                                                                                                                                                         |                                                                                                                                                                             |               |   |
|   |       |                       | Approved by:   | SDB                                            | PO. NO. : GPS2024003, DATED-10.04.2024                      |   |                                                                                        |                                                                                                                                                                                                         |                                                                                                                                                                             |               |   |
|   | R0    | Released for Approval | Drawn Date :   | 11.04.2024                                     | MANUFACTURER : M/s. BUSH ELECTROMECH & ENGINEERING (P) LTD. |   |                                                                                        | TITLE:- POWER SUPPLY DISTRIBUTION CIRCUIT                                                                                                                                                               |   |               |   |
|   | REV.: | DESCRIPTION           | Approved Date: | --                                             |                                                             |   |                                                                                        |                                                                                                                                                                                                         |                                                                                                                                                                             |               |   |
| A |       |                       | B              |                                                | C                                                           | D | F                                                                                      |                                                                                                                                                                                                         | G                                                                                                                                                                           |               | H |



|       |                       |              |            |                                                             |                                                                                        |                                                                                                                                                                             |                                                                                                                                                                             |         |
|-------|-----------------------|--------------|------------|-------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
|       |                       | Drawn by:    | APR        | CUSTOMER : M/s. SRI VENKATESWARA POWER SYSTEMS              | M/s. BUSH ELECTROMECH & ENGINEERING (P) LTD.<br>K-89, MIDC, WALUJ, AURANGABAD- 431 136 |   | DWG.NO.:11kV/OD/24-25/0003                                                                                                                                                  | REV NO. |
| R1    |                       | Checked by:  | --         |                                                             |                                                                                        |                                                                                                                                                                             | SH.NO.: 20 OF 21                                                                                                                                                            | R0      |
| R0    | Released for Approval | Approved by: | SDB        |                                                             |                                                                                        |                                                                                                                                                                             |                                                                                                                                                                             |         |
| REV.: | DESCRIPTION           | Drawn Date : | 11.04.2024 | MANUFACTURER : M/s. BUSH ELECTROMECH & ENGINEERING (P) LTD. | TITLE:- TERMINAL DRAWING                                                               | Authorized Panel Builder                                                                                                                                                    |   |         |
| A     |                       | B            |            | C                                                           | D                                                                                      | F                                                                                                                                                                           | G                                                                                                                                                                           | H       |

|                              |     |               |                         |                              |     |             |                                        |      |          |                |
|------------------------------|-----|---------------|-------------------------|------------------------------|-----|-------------|----------------------------------------|------|----------|----------------|
| EXTERNAL CONNECTION          |     |               |                         |                              |     |             |                                        |      |          |                |
| TB-3-BREAKER REMOTE CONTACTS |     |               |                         | TB-4-TRANSFORMER PROTECTIONS |     |             |                                        | TB-5 |          |                |
| 1                            | K29 | INTER-LOCKING | (FROM SH. NO.-13 OF 21) | 1                            | K11 | BUCOZ ALARM | (FROM TRANSFORMER TO SH. NO.-15 OF 21) | 1    | H101     | 230V AC SUPPLY |
| 2                            | K31 |               |                         | 2                            | K51 |             |                                        | 2    | H102     |                |
| 3                            | K33 | REMOTE CLOSE  | (FROM SH. NO.-13 OF 21) | 3                            | K11 | BUCOZ TRIP  | (FROM TRANSFORMER TO SH. NO.-15 OF 21) | 3    | EARTHING |                |
| 4                            | K25 |               |                         | 4                            | K52 |             |                                        |      |          |                |
| 5                            | K11 | REMOTE TRIP   | (FROM SH. NO.-14 OF 21) | 5                            | K11 | OTI ALARM   | (FROM TRANSFORMER TO SH. NO.-15 OF 21) |      |          |                |
| 6                            | K19 |               |                         | 6                            | K53 |             |                                        |      |          |                |
| 7                            | H13 | HEATER CKT.   | (FROM SH. NO.-17 OF 21) | 7                            | K11 | OTI TRIP    | (FROM TRANSFORMER TO SH. NO.-15 OF 21) |      |          |                |
| 8                            | H12 |               |                         | 8                            | K54 |             |                                        |      |          |                |
| 9                            | L11 | TEST POSITION | (FROM SH. NO.-16 OF 21) | 9                            | K11 | WTI ALARM   | (FROM TRANSFORMER TO SH. NO.-15 OF 21) |      |          |                |
| 10                           | L21 |               |                         | 10                           | K55 |             |                                        |      |          |                |
| 11                           | L11 | SERVICE POSI. | (FROM SH. NO.-16 OF 21) | 11                           | K11 | WTI TRIP    | (FROM TRANSFORMER TO SH. NO.-15 OF 21) |      |          |                |
| 12                           | L23 |               |                         | 12                           | K56 |             |                                        |      |          |                |
| 13                           | K11 | EPB           |                         | 13                           |     |             |                                        |      |          |                |
| 14                           | K19 |               | 14                      |                              |     |             |                                        |      |          |                |
|                              |     |               |                         | 15                           |     |             |                                        |      |          |                |
|                              |     |               |                         |                              |     |             |                                        |      |          |                |
|                              |     |               |                         |                              |     |             |                                        |      |          |                |
|                              |     |               |                         |                              |     |             |                                        |      |          |                |
|                              |     |               |                         |                              |     |             |                                        |      |          |                |
|                              |     |               |                         |                              |     |             |                                        |      |          |                |
|                              |     |               |                         |                              |     |             |                                        |      |          |                |
|                              |     |               |                         |                              |     |             |                                        |      |          |                |
|                              |     |               |                         |                              |     |             |                                        |      |          |                |
|                              |     |               |                         |                              |     |             |                                        |      |          |                |
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