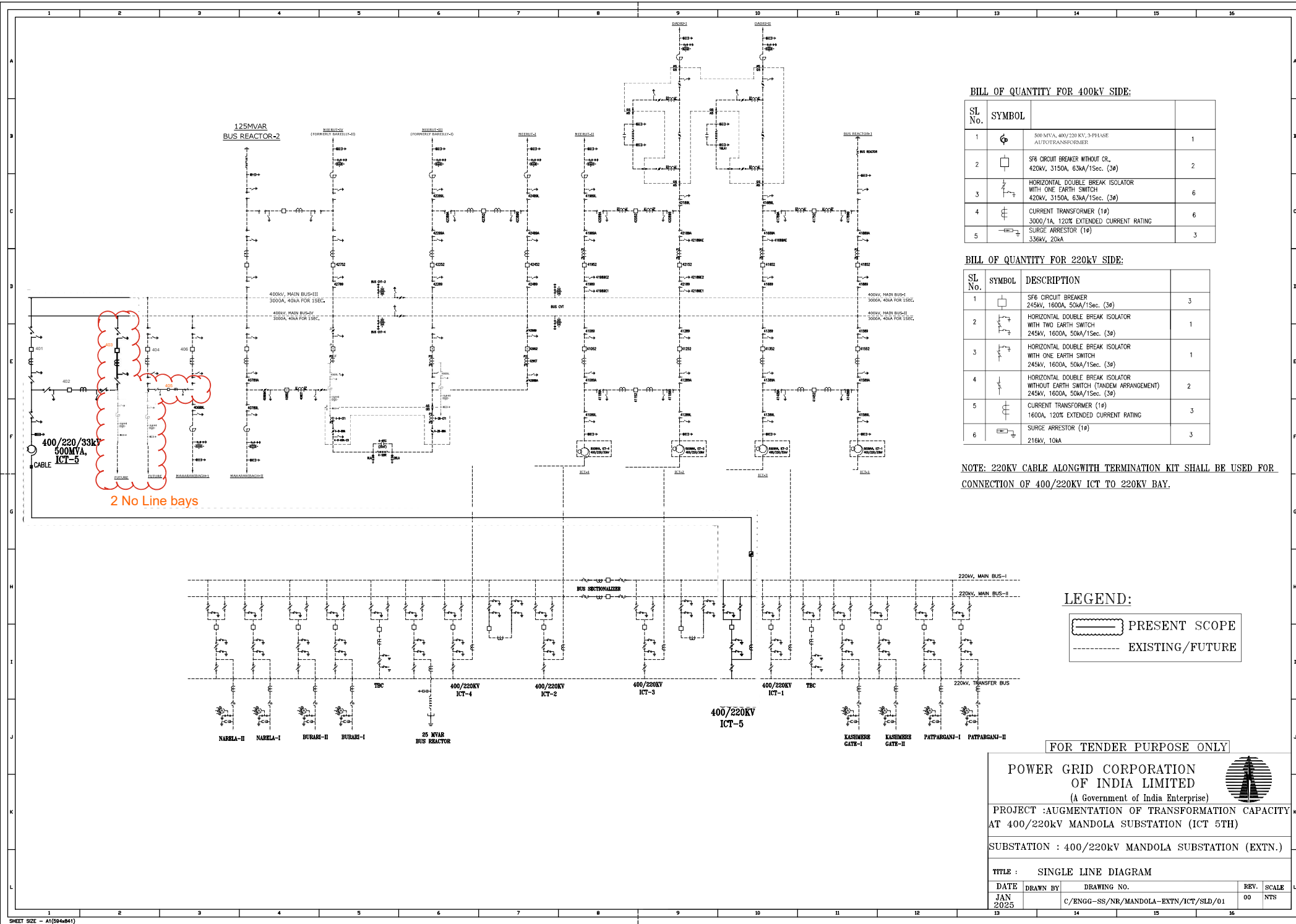




BILL OF QUANTITY FOR 400KV SIDE:

| SL No. | SYMBOL | DESCRIPTION                                                                           | QTY |
|--------|--------|---------------------------------------------------------------------------------------|-----|
| 1      |        | 500 MVA, 400/220 KV, 3-PHASE AUTOTRANSFORMER                                          | 1   |
| 2      |        | SF6 CIRCUIT BREAKER WITHOUT CR, 420KV, 3150A, 63KA/1Sec. (3ø)                         | 2   |
| 3      |        | HORIZONTAL DOUBLE BREAK ISOLATOR WITH ONE EARTH SWITCH, 420KV, 3150A, 63KA/1Sec. (3ø) | 6   |
| 4      |        | CURRENT TRANSFORMER (1ø) 3000/1A, 120% EXTENDED CURRENT RATING                        | 6   |
| 5      |        | SURGE ARRESTOR (1ø) 336KV, 20kA                                                       | 3   |

BILL OF QUANTITY FOR 220KV SIDE:

| SL No. | SYMBOL | DESCRIPTION                                                                                              | QTY |
|--------|--------|----------------------------------------------------------------------------------------------------------|-----|
| 1      |        | SF6 CIRCUIT BREAKER 245KV, 1600A, 50KA/1Sec. (3ø)                                                        | 3   |
| 2      |        | HORIZONTAL DOUBLE BREAK ISOLATOR WITH TWO EARTH SWITCH, 245KV, 1600A, 50KA/1Sec. (3ø)                    | 1   |
| 3      |        | HORIZONTAL DOUBLE BREAK ISOLATOR WITH ONE EARTH SWITCH, 245KV, 1600A, 50KA/1Sec. (3ø)                    | 1   |
| 4      |        | HORIZONTAL DOUBLE BREAK ISOLATOR WITHOUT EARTH SWITCH (TANDEM ARRANGEMENT) 245KV, 1600A, 50KA/1Sec. (3ø) | 2   |
| 5      |        | CURRENT TRANSFORMER (1ø) 1600A, 120% EXTENDED CURRENT RATING                                             | 3   |
| 6      |        | SURGE ARRESTOR (1ø) 216KV, 10kA                                                                          | 3   |

NOTE: 220KV CABLE ALONGWITH TERMINATION KIT SHALL BE USED FOR CONNECTION OF 400/220KV ICT TO 220KV BAY.

LEGEND:

|  |                 |
|--|-----------------|
|  | PRESENT SCOPE   |
|  | EXISTING/FUTURE |

FOR TENDER PURPOSE ONLY

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

PROJECT :AUGMENTATION OF TRANSFORMATION CAPACITY  
AT 400/220kV MANDOLA SUBSTATION (ICT 5TH)

SUBSTATION : 400/220kV MANDOLA SUBSTATION (EXTN.)

TITLE : SINGLE LINE DIAGRAM

|          |                                      |             |      |       |
|----------|--------------------------------------|-------------|------|-------|
| DATE     | DRAWN BY                             | DRAWING NO. | REV. | SCALE |
| JAN 2025 | C/ENGG-SS/NR/MANDOLA-EXTN/ICT/SLD/01 |             | 00   | NTS   |