



L&T CONSTRUCTION, PT&D IC

OWNER: POWER GRID CORPORATION OF INDIA LTD.

PROJECT: TRANSMISSION LINE TOWER PACKAGE FOR TW26 FOR 132KV SIC LINE (ON D/C TOWER) UNDER COMPREHENSIVE SCHEME FOR STRENGTHENING OF TRANSMISSION & DISTRIBUTION SYSTEM IN NER & SIKKIM: INTRA-STATE: ARUNACHAL PRADESH

O21002-T-TL-45-TS

DATE

LINE: 1. 132KV SIC (on D/C tower) MECHUKA-KAMBANG TL

Prepared

Checked

TITLE: TOWER SCHEDULE FROM AP1 TO Gantry

AY

TRAMS

Rev 03

| SL.No | Loc. No. | Type of Tower | RAISED CHIMNEY/B ENCHING | Easting X (m) | Northing Y (m) | Elevation Z (m) | Deviation Angle (Deg) | Span (m) | Section Length (m) | Wind Span (m) | Weight Span in Mtr (Cold) |         |         | Weight Span in Mtr (Hot) |         |         | Remarks & Crossings.                                       |
|-------|----------|---------------|--------------------------|---------------|----------------|-----------------|-----------------------|----------|--------------------|---------------|---------------------------|---------|---------|--------------------------|---------|---------|--|
|       |          |               |                          |               |                |                 |                       |          |                    |               | Left                      | Right   | Total   | Left                     | Right   | Total   |  |
| 1     | AP 1     | DD+0          |                          | 663638.26     | 3129215.87     | 325.00          | 19° 25' 33"RT         | 135.92   |                    | 67.96         | 0.00                      | 117.00  | 117.00  | 0.00                     | 88.00   | 88.00   |  |
| 2     | AP 2     | DC+3          |                          | 663506.32     | 3129183.20     | 320.84          | 20° 33' 57"RT         | 295.82   | 135.93             | 215.87        | 20.00                     | -899.00 | -879.00 | 50.00                    | -466.00 | -416.00 | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL         |
| 3     | AP 3     | DD+6          |                          | 663212.50     | 3129217.50     | 434.77          | 50° 7' 35"RT          | 502.02   | 295.82             | 398.92        | 1220.00                   | 466.00  | 1686.00 | 787.00                   | 445.00  | 1232.00 | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL         |
| 4     | AP 5     | 220KV DD+0    |                          | 662937.50     | 3129637.50     | 361.92          | 58° 54' 12"RT         | 438.32   | 502.02             | 470.17        | 50.00                     | 304.00  | 354.00  | 72.00                    | 289.00  | 361.00  | TOWER TYPE UPDATED TO 220KV TOWER PER MAIL REC. FROM PGCIL |
| 5     | AP 7     | DD+9          | 3                        | 663127.50     | 3130032.50     | 337.00          | 47° 18' 14"RT         | 444.44   | 438.32             | 441.38        | 142.00                    | -2.00   | 140.00  | 158.00                   | 41.00   | 199.00  | Road   |
| 6     | AP 9     | DD+9          | 3                        | 663552.50     | 3130162.50     | 389.24          | 22° 59' 29"LT         | 567.85   | 444.44             | 506.14        | 452.00                    | -143.00 | 309.00  | 409.00                   | -95.00  | 314.00  | TOWER TYPE UPDATED TO DD TOWER AS PER MAIL REC. FROM PGCIL |
| 7     | AP 11    | DD+9          | 3                        | 663987.50     | 3130527.50     | 538.86          | 35° 47' 38"LT         | 407.46   | 567.85             | 487.65        | 730.00                    | 161.00  | 891.00  | 683.00                   | 170.00  | 853.00  | STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL     |
| 8     | AP 13    | DC+0          | 1.5                      | 664087.50     | 3130922.50     | 558.66          | 17° 53' 9"RT          | 348.21   | 407.46             | 377.84        | 246.00                    | 710.00  | 956.00  | 238.00                   | 535.00  | 773.00  | STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL     |
| 9     | AP 14    | DC+3          |                          | 664272.50     | 3131217.50     | 482.85          | 23° 8' 40"LT          | 190.75   | 348.21             | 269.48        | -354.00                   | 728.00  | 374.00  | -179.00                  | 390.00  | 211.00  | STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL     |
| 10    | AP 15    | DBN+0         |                          | 664302.17     | 3131405.93     | 444.07          | 3° 1' 41"LT           | 445.37   | 190.75             | 318.56        | -534.00                   | 366.00  | -168.00 | -196.00                  | 345.00  | 149.00  |  |
| 11    | AP 17    | DBN+6         |                          | 664348.21     | 3131849.92     | 399.15          | 4° 55' 39"LT          | 247.62   | 445.37             | 346.99        | 83.00                     | -565.00 | -482.00 | 104.00                   | -246.00 | -142.00 |  |
| 12    | AP 18    | DBN+0         |                          | 664352.50     | 3132097.50     | 465.96          | 6° 56' 16"RT          | 241.64   | 247.62             | 244.63        | 820.00                    | 250.00  | 1070.00 | 501.00                   | 189.00  | 690.00  | STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL     |



06/05/2011  
Dm Daya Ram  
Manager  
POWERGRID, AALO

Sunil Kumar  
Chief Manager  
CSST&DS, Along  
Grid Corp. Of India Ltd.

| Sl.No | Loc. No. | Type of Tower | RAISED CHIMNEY/B ENCHING | Easting X (m) | Northing Y (m) | Elevate Z (m) | Deviation Angle (Deg) | Span (m) | Section Length (m) | Wind Span (m) | Weight Span in Mtr (Cold) |         |         | Weight Span in Mtr (Hot) |         |        | Remarks & Crossings.  |
|-------|----------|---------------|--------------------------|---------------|----------------|---------------|-----------------------|----------|--------------------|---------------|---------------------------|---------|---------|--------------------------|---------|--------|---|
|       |          |               |                          |               |                |               |                       |          |                    |               | Left                      | Right   | Total   | Left                     | Right   | Total  |   |
| 13    | AP 19    | DD+0          | 1.5                      | 664385.84     | 3132336.83     | 453.88        | 39° 12' 24"LT         | 304.99   | 241.64             | 273.32        | -10.00                    | 834.00  | 824.00  | 51.00                    | 561.00  | 612.00 |   |
| 14    | AP 20    | DBN+6         |                          | 664227.50     | 3132597.50     | 377.07        | 10° 21' 6"RT          | 446.81   | 304.99             | 375.90        | -522.00                   | 187.00  | -335.00 | -249.00                  | 192.00  | -57.00 |   |
| 15    | AP 22    | DBN+0         |                          | 664067.93     | 3133014.84     | 393.45        | 4° 28' 00"LT          | 257.54   | 446.81             | 352.17        | 262.00                    | -606.00 | -344.00 | 257.00                   | -273.00 | -16.00 | STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL        |
| 16    | AP 23    | DC+6          | 1.5                      | 663957.50     | 3133247.50     | 453.41        | 22° 7' 0"RT           | 462.39   | 257.54             | 359.96        | 873.00                    | 341.00  | 1214.00 | 540.00                   | 327.00  | 867.00 | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL            |
| 17    | AP 24    | DBN+0         |                          | 663931.09     | 3133709.14     | 428.88        | 0° 45' 36"RT          | 423.77   | 462.40             | 443.08        | 125.00                    | 258.00  | 383.00  | 140.00                   | 250.00  | 390.00 |   |
| 18    | AP 26    | DC+0          |                          | 663912.50     | 3134132.50     | 417.78        | 16° 42' 59"LT         | 252.97   | 423.77             | 338.37        | 156.00                    | -89.00  | 77.00   | 175.00                   | 9.00    | 184.00 |   |
| 19    | AP 27    | DC+0          |                          | 663829.18     | 3134371.35     | 436.38        | 29° 50' 24"RT         | 194.39   | 252.97             | 223.68        | 343.00                    | 409.00  | 752.00  | 245.00                   | 245.00  | 490.00 |   |
| 20    | AP 28    | DD+0          |                          | 663864.97     | 3134562.42     | 415.78        | 28° 47' 59"LT         | 568.49   | 194.39             | 381.44        | -214.00                   | 247.00  | 33.00   | -50.00                   | 250.00  | 200.00 | TOWER TYPE UPDATED FROM DC TO DD TO AVOID WIND SPAN VIOLATION |
| 21    | AP 30    | DC+9          |                          | 663687.50     | 3135102.50     | 423.59        | 20° 33' 7"RT          | 485.41   | 568.49             | 526.95        | 325.00                    | 305.00  | 630.00  | 323.00                   | 298.00  | 621.00 | Canal, agricultural land, Mud Road, pond                      |
| 22    | AP 32    | DBN+0         |                          | 663707.50     | 3135587.50     | 412.83        | 0° 54' 56"RT          | 542.50   | 485.41             | 513.95        | 184.00                    | 345.00  | 529.00  | 191.00                   | 339.00  | 530.00 | STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL        |
| 23    | AP 34    | DD+6          |                          | 663738.51     | 3136129.11     | 378.65        | 27° 21' 54"RT         | 311.95   | 542.50             | 427.22        | 204.00                    | 510.00  | 714.00  | 210.00                   | 372.00  | 582.00 | Hut, agricultural land  |
| 24    | AP 35    | DBN+0         |                          | 663897.50     | 3136397.50     | 346.80        | 12° 28' 33"LT         | 336.79   | 311.95             | 324.37        | -195.00                   | 159.00  | -36.00  | -57.00                   | 162.00  | 105.00 | TOWER TYPE UPDATED FROM DC TO DD TO AVOID WIND SPAN VIOLATION |
| 25    | AP 36    | DBN+0         |                          | 664002.50     | 3136717.50     | 348.01        | 10° 9' 40"LT          | 323.15   | 336.79             | 329.97        | 178.00                    | -421.00 | -243.00 | 174.00                   | -199.00 | -25.00 | Hut, agricultural land  |
| 26    | AP 37    | DC+6          |                          | 664047.50     | 3137037.50     | 409.76        | 19° 30' 26"RT         | 541.20   | 323.15             | 432.18        | 751.00                    | 275.00  | 1026.00 | 530.00                   | 275.00  | 805.00 | agricultural land   |
| 27    | AP 39    | DC+9          |                          | 664297.50     | 3137517.50     | 405.91        | 15° 12' 12"LT         | 270.86   | 541.20             | 406.03        | 270.00                    | -217.00 | 53.00   | 271.00                   | -63.00  | 208.00 | STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL        |
| 28    | AP 40    | DC+0          |                          | 664355.24     | 3137782.13     | 447.69        | 15° 44' 33"RT         | 227.62   | 270.86             | 249.24        | 490.00                    | 17.00   | 507.00  | 336.00                   | 64.00   | 400.00 |   |
| 29    | AP 41    | DC+0          | 1.5                      | 664462.28     | 3137983.01     | 453.65        | 8° 55' 8"LT           | 629.87   | 227.62             | 428.75        | 211.00                    | 133.00  | 344.00  | 164.00                   | 144.00  | 308.00 | TOWER TYPE UPDATED TO DC TOWER AS PER MAIL REC. FROM PGCIL    |
| 30    | AP 44    | DC+6          |                          | 664668.72     | 3138578.09     | 544.39        | 13° 29' 14"LT         | 140.09   | 629.87             | 384.98        | 510.00                    | 307.00  | 817.00  | 500.00                   | 161.00  | 661.00 | TOWER TYPE UPDATED TO DC TOWER AS PER MAIL REC. FROM PGCIL    |




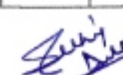
Daya Ram  
Ch. Manager  
CRID, AALO

Sunil Kumar  
Chief Manager  
CSST&DS, Along  
Corporation of India Ltd.

| Sl.No | Loc. No. | Type of Tower | RAISED CHIMNEY/B ENCHING | Easting X (m) | Northing Y (m) | Elevation Z (m) | Deviation Angle (Deg) | Span (m) | Section Length (m) | Wind Span (m) | Weight Span in Mtr (Cold) |         |         | Weight Span in Mtr (Hot) |         |         | Remarks & Crossings.   |
|-------|----------|---------------|--------------------------|---------------|----------------|-----------------|-----------------------|----------|--------------------|---------------|---------------------------|---------|---------|--------------------------|---------|---------|--|
|       |          |               |                          |               |                |                 |                       |          |                    |               | Left                      | Right   | Total   | Left                     | Right   | Total   |  |
| 31    | AP 45    | DD+6          |                          | 664682.50     | 3138717.50     | 533.28          | 42° 58' 2"LT          |          | 140.09             | 352.83        | -169.00                   | 399.00  | 230.00  | -23.00                   | 393.00  | 370.00  | STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL   |
|       |          |               |                          |               |                |                 |                       | 585.57   |                    |               |                           |         |         |                          |         |         |  |
| 32    | AP 47    | DD+18         | 3                        | 664327.47     | 3139183.17     | 471.54          | 14° 32' 48"RT         |          | 585.57             | 656.69        | 192.00                    | 337.00  | 529.00  | 199.00                   | 338.00  | 537.00  | STRENGTHENING REQUIRED DUE TO WIND SPAN VOIATION   |
|       |          |               |                          |               |                |                 |                       | 727.81   |                    |               |                           |         |         |                          |         |         | River, hut, Agricultural Land, Road<br>Maximum tension maintained @32deg full wind<br>Bottom Conductor - 4.5T<br>Middle conductor - 5T<br>Top conductor - 5.303T |
| 33    | AP 50    | DD+6          |                          | 664045.72     | 3139854.23     | 506.17          | 10° 32' 56"RT         |          | 727.81             | 452.42        | 403.00                    | -520.00 | -117.00 | 402.00                   | -183.00 | 219.00  | TOWER TYPE UPDATED TO DC TOWER AS PER MAIL REC. FROM PGCIL   |
|       |          |               |                          |               |                |                 |                       | 177.03   |                    |               |                           |         |         |                          |         |         |  |
| 34    | AP 51    | DC+6          |                          | 664008.23     | 3140027.24     | 544.30          | 23° 34' 38"RT         |          | 177.03             | 239.09        | 703.00                    | -114.00 | 589.00  | 366.00                   | -7.00   | 359.00  | STRENGTHENING CHECK NOT REQUIRED AS PER MAIL REC. FROM PGCIL   |
|       |          |               |                          |               |                |                 |                       | 301.15   |                    |               |                           |         |         |                          |         |         |  |
| 35    | AP 52    | DBN+0         |                          | 664067.50     | 3140322.50     | 577.70          | 11° 21' 2"RT          |          | 301.15             | 351.46        | 418.00                    | -65.00  | 353.00  | 311.00                   | -8.00   | 303.00  |  |
|       |          |               |                          |               |                |                 |                       | 401.76   |                    |               |                           |         |         |                          |         |         |  |
| 36    | AP 53    | DC+0          |                          | 664222.55     | 3140693.14     | 634.65          | 18° 4' 51"LT          |          | 401.76             | 448.87        | 471.00                    | 673.00  | 1144.00 | 414.00                   | 626.00  | 1040.00 | STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL   |
|       |          |               |                          |               |                |                 |                       | 495.97   |                    |               |                           |         |         |                          |         |         | Hut, agricultural land   |
| 37    | AP 55    | DC+0          |                          | 664262.50     | 3141187.50     | 494.49          | 18° 51' 5"RT          |          | 495.97             | 407.52        | -355.00                   | 506.00  | 351.00  | -108.00                  | 373.00  | 265.00  | Hut, agricultural land   |
|       |          |               |                          |               |                |                 |                       | 319.06   |                    |               |                           |         |         |                          |         |         | Hut, agricultural land   |
| 38    | AP 56    | DBN+6         |                          | 664389.58     | 3141480.16     | 450.31          | 5° 18' 46"RT          |          | 319.06             | 300.66        | -383.00                   | 243.00  | 60.00   | -51.00                   | 200.00  | 149.00  | Hut, agricultural land   |
|       |          |               |                          |               |                |                 |                       | 282.26   |                    |               |                           |         |         |                          |         |         | Hut, agricultural land   |
| 39    | AP 57    | DC+0          |                          | 664525.49     | 3141727.54     | 446.62          | 24° 50' 49"LT         |          | 282.26             | 252.03        | 39.00                     | 106.00  | 145.00  | 82.00                    | 108.00  | 190.00  |  |
|       |          |               |                          |               |                |                 |                       | 221.80   |                    |               |                           |         |         |                          |         |         |  |
| 40    | AP 58    | DBN+0         |                          | 664540.72     | 3141948.82     | 446.92          | 0° 37' 58"LT          |          | 221.80             | 237.24        | 114.00                    | -18.00  | 96.00   | 113.00                   | 48.00   | 161.00  | agricultural land  |
|       |          |               |                          |               |                |                 |                       | 252.69   |                    |               |                           |         |         |                          |         |         | agricultural land  |
| 41    | AP 59    | DC+9          |                          | 664555.29     | 3142201.09     | 450.23          | 24° 38' 55"LT         |          | 252.69             | 288.15        | 270.00                    | -524.00 | -254.00 | 205.00                   | -262.00 | -57.00  |  |
|       |          |               |                          |               |                |                 |                       | 323.61   |                    |               |                           |         |         |                          |         |         |  |
| 42    | AP 60    | DD+9          |                          | 664437.50     | 3142502.50     | 530.79          | 26° 36' 47"LT         |          | 323.61             | 386.72        | 856.00                    | 475.00  | 1331.00 | 594.00                   | 439.00  | 1033.00 | TOWER TYPE UPDATED FROM DC TO DD TO AVOID WIND SPAN VOIATION   |
|       |          |               |                          |               |                |                 |                       | 449.82   |                    |               |                           |         |         |                          |         |         |  |
| 43    | AP 62    | DC+0          |                          | 664103.44     | 3142803.74     | 470.83          | 17° 28' 34"RT         |          | 449.82             | 325.82        | -19.00                    | 242.00  | 223.00  | 17.00                    | 171.00  | 188.00  | agricultural land  |
|       |          |               |                          |               |                |                 |                       | 201.81   |                    |               |                           |         |         |                          |         |         | agricultural land  |
| 44    | AP 63    | DD+0          |                          | 664001.07     | 3142977.66     | 461.14          | 39° 7' 17"RT          |          | 201.81             | 215.50        | -38.00                    | 74.00   | 36.00   | 34.00                    | 94.00   | 128.00  |  |
|       |          |               |                          |               |                |                 |                       | 229.18   |                    |               |                           |         |         |                          |         |         |  |
| 45    | AP 64    | DD+0          |                          | 664035.50     | 3143204.24     | 464.25          | 49° 8' 46"LT          |          | 229.18             | 217.15        | 155.00                    | -262.00 | -107.00 | 135.00                   | -74.00  | 61.00   | Hut, agricultural land   |
|       |          |               |                          |               |                |                 |                       | 205.12   |                    |               |                           |         |         |                          |         |         | Hut, agricultural land   |
| 46    | AP 65    | DBN+0         |                          | 663902.27     | 3143360.20     | 489.50          | 1° 14' 32"RT          |          | 205.12             | 396.32        | 466.00                    | -232.00 | 234.00  | 279.00                   | -191.00 | 88.00   | STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL   |
|       |          |               |                          |               |                |                 |                       | 587.53   |                    |               |                           |         |         |                          |         |         | agricultural land  |



  
 06/05/24  
 Daya Ram  
 Ch. Manager  
 POWERGRID AALO

  
 Sunil Kumar  
 Chief Manager  
 CSST&DS, Along  
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| SLNo | Loc. No. | Type of Tower | RAISED CHIMNEY/B ENCHING | Easting X (m) | Northing Y (m) | Elevation Z (m) | Deviation Angle (Deg) | Span (m) | Section Length (m) | Wind Span (m) | Weight Span in Mtr (Cold) |         |         | Weight Span in Mtr (Hot) |         |         | Remarks & Crossings.  |
|------|----------|---------------|--------------------------|---------------|----------------|-----------------|-----------------------|----------|--------------------|---------------|---------------------------|---------|---------|--------------------------|---------|---------|---|
|      |          |               |                          |               |                |                 |                       |          |                    |               | Left                      | Right   | Total   | Left                     | Right   | Total   |   |
| 47   | AP 67    | DD+9          |                          | 663530.43     | 3143815.09     | 732.73          | 6° 22' 14"LT          |          | 587.53             | 359.90        | 876.00                    | 1415.00 | 2291.00 | 836.00                   | 559.00  | 1395.00 | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL            |
|      |          |               |                          |               |                |                 |                       | 132.27   |                    |               |                           |         |         |                          |         |         |   |
| 48   | AP 68    | DC+3          | 3                        | 663435.87     | 3143907.58     | 667.10          | 28° 50' 48"RT         |          | 132.27             | 279.06        | -1266.00                  | 708.00  | -558.00 | -409.00                  | 618.00  | 209.00  | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL            |
|      |          |               |                          |               |                |                 |                       | 425.84   |                    |               |                           |         |         |                          |         |         | agricultural land   |
| 49   | AP 69    | DD+0          |                          | 663312.88     | 3144315.27     | 555.04          | 23° 22' 28"RT         |          | 425.84             | 454.61        | -263.00                   | 198.00  | -65.00  | -173.00                  | 203.00  | 30.00   | TOWER TYPE UPDATED FROM DC TO DD TO AVOID WIND SPAN VIOLATION |
|      |          |               |                          |               |                |                 |                       | 483.38   |                    |               |                           |         |         |                          |         |         | agricultural land, Canal, River                               |
| 50   | AP 71    | DBN+6         |                          | 663368.33     | 3144795.46     | 563.91          | 0° 33' 42"RT          |          | 483.38             | 439.25        | 289.00                    | -217.00 | 72.00   | 284.00                   | -120.00 | 164.00  |   |
|      |          |               |                          |               |                |                 |                       | 395.11   |                    |               |                           |         |         |                          |         |         | Mud Road, agricultura Land                                    |
| 51   | AP 72    | DBN+9         |                          | 663417.50     | 3145187.50     | 645.27          | 5° 29' 47"LT          |          | 395.11             | 457.66        | 621.00                    | -406.00 | 215.00  | 525.00                   | -327.00 | 198.00  | STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL        |
|      |          |               |                          |               |                |                 |                       | 520.22   |                    |               |                           |         |         |                          |         |         |   |
| 52   | AP 74    | DD+3          |                          | 663432.50     | 3145707.50     | 903.88          | 5° 15' 32"RT          |          | 520.22             | 343.21        | 987.00                    | 970.00  | 1957.00 | 909.00                   | 464.00  | 1373.00 | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL            |
|      |          |               |                          |               |                |                 |                       | 166.21   |                    |               |                           |         |         |                          |         |         |   |
| 53   | AP 75    | DBN+6         |                          | 663452.50     | 3145872.50     | 848.27          | 6° 51' 37"RT          |          | 166.21             | 174.66        | -795.00                   | 1167.00 | 372.00  | -290.00                  | 575.00  | 285.00  | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL            |
|      |          |               |                          |               |                |                 |                       | 183.11   |                    |               |                           |         |         |                          |         |         |   |
| 54   | AP 76    | DD+9          |                          | 663496.09     | 3146050.35     | 773.93          | 41° 26' 16"LT         |          | 183.11             | 450.60        | -972.00                   | 552.00  | -420.00 | -380.00                  | 546.00  | 166.00  | STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL        |
|      |          |               |                          |               |                |                 |                       | 718.08   |                    |               |                           |         |         |                          |         |         |   |
| 55   | AP 78    | DC+3          |                          | 663162.67     | 3146686.33     | 668.13          | 25° 49' 17"RT         |          | 718.08             | 513.72        | 185.00                    | 678.00  | 863.00  | 192.00                   | 472.00  | 664.00  | STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL        |
|      |          |               |                          |               |                |                 |                       | 309.35   |                    |               |                           |         |         |                          |         |         |   |
| 56   | AP 79    | DBN+0         |                          | 663152.71     | 3146995.52     | 615.18          | 5° 23' 44"LT          |          | 309.35             | 453.04        | -363.00                   | 401.00  | 38.00   | -157.00                  | 395.00  | 238.00  | STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL        |
|      |          |               |                          |               |                |                 |                       | 596.74   |                    |               |                           |         |         |                          |         |         | Road, River, Agricultural Land                                |
| 57   | AP 80    | DD+0          |                          | 663077.50     | 3147587.50     | 569.34          | 33° 14' 55"RT         |          | 596.74             | 627.69        | 204.00                    | -155.00 | 49.00   | 211.00                   | -127.00 | 84.00   | STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL        |
|      |          |               |                          |               |                |                 |                       | 658.64   |                    |               |                           |         |         |                          |         |         |   |
| 58   | AP 81    | DD+9          |                          | 663366.31     | 3148179.44     | 842.39          | 38° 17' 30"LT         |          | 658.64             | 479.28        | 879.00                    | -771.00 | 108.00  | 852.00                   | -392.00 | 460.00  | STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL        |
|      |          |               |                          |               |                |                 |                       | 299.93   |                    |               |                           |         |         |                          |         |         |   |
| 59   | AP 82    | DD+6          |                          | 663302.50     | 3148472.50     | 946.27          | 33° 2' 1"RT           |          | 299.93             | 273.73        | 1087.00                   | 713.00  | 1800.00 | 708.00                   | 443.00  | 1151.00 | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL            |
|      |          |               |                          |               |                |                 |                       | 247.54   |                    |               |                           |         |         |                          |         |         |   |
| 60   | AP 83    | DC+9          |                          | 663390.20     | 3148703.98     | 892.61          | 15° 49' 34"LT         |          | 247.54             | 231.77        | -459.00                   | 1013.00 | 554.00  | -189.00                  | 560.00  | 371.00  | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL            |
|      |          |               |                          |               |                |                 |                       | 216.01   |                    |               |                           |         |         |                          |         |         |   |
| 61   | AP 83A   | DBN+9         |                          | 663408.74     | 3148919.19     | 823.01          | 0° 0' 5"LT            |          | 216.01             | 196.22        | -786.00                   | 1238.00 | 452.00  | -333.00                  | 599.00  | 266.00  | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL            |
|      |          |               |                          |               |                |                 |                       | 176.44   |                    |               |                           |         |         |                          |         |         |   |





25/07/24  
 Daya Ram  
 Ch. Manager  
 POWERGRID, AALO

Sunil Kumar  
 Chief Manager  
 CSST&DS, Along  
 Powergrid Corp. Of India Ltd.

| Sl.No | Loc. No. | Type of Tower | RAISED CHIMNEY/B ENCHING | Easting X (m) | Northing Y (m) | Elevation Z (m) | Deviation Angle (Deg) | Span (m) | Section Length (m) | Wind Span (m) | Weight Span in Mtr (Cold) |         |         | Weight Span in Mtr (Hot) |         |         | Remarks & Crossings.  |
|-------|----------|---------------|--------------------------|---------------|----------------|-----------------|-----------------------|----------|--------------------|---------------|---------------------------|---------|---------|--------------------------|---------|---------|---|
|       |          |               |                          |               |                |                 |                       |          |                    |               | Left                      | Right   | Total   | Left                     | Right   | Total   |   |
| 62    | AP 84    | DD+6          |                          | 663423.88     | 3149094.98     | 750.33          | 38° 26' 39"RT         | 248.83   | 176.44             | 212.63        | -1044.00                  | 1448.00 | 404.00  | -406.00                  | 837.00  | 431.00  | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL              |
| 63    | AP 85    | DD+3          |                          | 663594.74     | 3149275.87     | 627.14          | 30° 55' 22"LT         | 616.10   | 248.83             | 432.47        | -1168.00                  | 397.00  | -771.00 | -557.00                  | 392.00  | -165.00 | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL<br>River     |
| 64    | AP 87    | DD+0          |                          | 663727.50     | 3149877.50     | 588.19          | 44° 18' 35"LT         | 217.83   | 616.10             | 416.97        | 224.00                    | 41.00   | 265.00  | 229.00                   | 74.00   | 303.00  | STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL          |
| 65    | AP 88    | DC+0          |                          | 663612.50     | 3150062.50     | 592.99          | 24° 0' 34"LT          | 297.99   | 217.83             | 257.91        | 174.00                    | 123.00  | 297.00  | 141.00                   | 134.00  | 275.00  |   |
| 66    | AP 89    | DBN+0         |                          | 663365.82     | 3150229.67     | 595.55          | 0° 45' 16"LT          | 405.11   | 297.99             | 351.55        | 174.00                    | -573.00 | -399.00 | 164.00                   | -382.00 | -218.00 |   |
| 67    | AP 90    | DBN+9         |                          | 663027.50     | 3150452.50     | 748.18          | 9° 53' 45"LT          | 369.21   | 405.11             | 387.16        | 1009.00                   | 561.00  | 1570.00 | 819.00                   | 457.00  | 1276.00 | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL              |
| 68    | AP 91    | DBN+0         |                          | 662688.85     | 3150599.57     | 694.71          | 1° 18' 41"LT          | 402.45   | 369.21             | 385.83        | -186.00                   | -19.00  | -205.00 | -82.00                   | 28.00   | -54.00  |   |
| 69    | AP 93    | DBN+3         |                          | 662316.14     | 3150751.39     | 739.23          | 5° 44' 49"RT          | 258.74   | 402.45             | 330.59        | 425.00                    | -477.00 | -52.00  | 379.00                   | -203.00 | 176.00  |   |
| 70    | AP 94    | DBN+3         |                          | 662087.50     | 3150872.50     | 794.26          | 0° 5' 09"LT           | 203.53   | 258.74             | 231.13        | 742.00                    | -286.00 | 456.00  | 468.00                   | -86.00  | 382.00  | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL              |
| 71    | AP 95    | DD+3          |                          | 661907.50     | 3150967.50     | 821.74          | 49° 39' 20"RT         | 170.54   | 203.53             | 187.03        | 494.00                    | 1284.00 | 1778.00 | 294.00                   | 608.00  | 902.00  | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL              |
| 72    | AP 96    | DC+0          |                          | 661870.53     | 3151133.98     | 747.41          | 16° 58' 58"RT         | 567.69   | 170.54             | 369.11        | -1094.00                  | 431.00  | -663.00 | -418.00                  | 421.00  | 3.00    | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL              |
| 73    | AP 98    | DBN+0         |                          | 661914.70     | 3151699.95     | 685.89          | 2° 22' 51"RT          | 422.64   | 567.69             | 495.17        | 146.00                    | 118.00  | 264.00  | 156.00                   | 135.00  | 291.00  | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL              |
| 74    | AP 99    | DC+3          |                          | 661965.06     | 3152119.58     | 705.45          | 25° 4' 29"LT          | 246.50   | 422.64             | 334.57        | 305.00                    | 107.00  | 412.00  | 289.00                   | 114.00  | 403.00  |   |
| 75    | AP 100   | DC+0          |                          | 661887.94     | 3152353.71     | 709.81          | 19° 36' 54"RT         | 188.85   | 246.50             | 217.67        | 140.00                    | -490.00 | -350.00 | 132.00                   | -176.00 | -44.00  |   |
| 76    | AP 101   | DC+9          | 3                        | 661892.50     | 3152542.50     | 736.37          | 10° 40' 11"LT         | 590.90   | 188.85             | 389.87        | 683.00                    | 544.00  | 1227.00 | 369.00                   | 529.00  | 898.00  | STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL<br>Canal |
| 77    | AP 102   | DBN+0         |                          | 661797.15     | 3153125.66     | 637.57          | 2° 24' 24"LT          | 269.41   | 590.90             | 430.16        | 62.00                     | 381.00  | 443.00  | 78.00                    | 273.00  | 351.00  | STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL          |
| 78    | AP 103   | DC+0          |                          | 661742.55     | 3153389.48     | 615.07          | 20° 14' 7"LT          | 368.82   | 269.41             | 319.11        | -111.00                   | 10.00   | -101.00 | -4.00                    | 58.00   | 54.00   | Canal   |
| 79    | AP 104   | DBN+3         |                          | 661547.50     | 3153702.50     | 641.42          | 0° 25' 10"LT          | 177.55   | 368.82             | 273.19        | 359.00                    | 690.00  | 1049.00 | 312.00                   | 360.00  | 672.00  | STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL          |
| 80    | AP 105   | DC+0          |                          | 661452.50     | 3153852.50     | 607.33          | 16° 33' 4"RT          | 525.13   | 177.55             | 351.34        | -508.00                   | -14.00  | -522.00 | -177.00                  | 12.00   | -165.00 | River   |

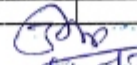


  
 06/05/24  
 Ch. Manager  
 POWERGRID, AALO

  
 Sunil Kumar  
 Chief Manager  
 CSST&DS, Along  
 Powergrid Corp. Of India Ltd.

| SLNo | Loc. No. | Type of Tower | RAISED CHIMNEY/B ENCHING | Easting X (m) | Northing Y (m) | Elevation Z (m) | Deviation Angle (Deg) | Span (m) | Section Length (m) | Wind Span (m) | Weight Span in Mtr (Cold) |          |         | Weight Span in Mtr (Hot) |         |         | Remarks & Crossings.   |
|------|----------|---------------|--------------------------|---------------|----------------|-----------------|-----------------------|----------|--------------------|---------------|---------------------------|----------|---------|--------------------------|---------|---------|--|
|      |          |               |                          |               |                |                 |                       |          |                    |               | Left                      | Right    | Total   | Left                     | Right   | Total   |  |
| 81   | AP 107   | DD+18         |                          | 661309.55     | 3154357.80     | 696.22          | 41° 4' 49"LT          | 350.04   | 525.13             | 437.59        | 552.00                    | 511.00   | 1063.00 | 526.00                   | 405.00  | 931.00  |  |
| 82   | AP 108   | DC+3          |                          | 661016.39     | 3154549.08     | 663.12          | 12° 56' 46"RT         | 517.77   | 350.04             | 433.91        | -159.00                   | 94.00    | -65.00  | -52.00                   | 110.00  | 58.00   | TOWER TYPE UPDATED FROM DBN TO DC TO AVOID WIND SPAN VOILATION<br>Mud Road , Canal |
| 83   | AP 109   | DD+9          | 3                        | 660657.17     | 3154921.97     | 715.46          | 32° 39' 4"LT          | 282.38   | 517.77             | 400.07        | 430.00                    | -934.00  | -504.00 | 414.00                   | -470.00 | -56.00  | STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL                             |
| 84   | AP 110   | DD+18         | 3                        | 660382.50     | 3154987.50     | 820.39          | 25° 32' 31"RT         | 529.05   | 282.38             | 405.72        | 1238.00                   | 128.00   | 1366.00 | 775.00                   | 140.00  | 915.00  | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL                                 |
| 85   | AP 111   | DBN+6         |                          | 659971.12     | 3155320.16     | 889.97          | 8° 12' 6"RT           | 377.44   | 529.05             | 453.25        | 409.00                    | -42.00   | 367.00  | 397.00                   | 15.00   | 412.00  | Canal  |
| 86   | AP 112   | DBN+6         |                          | 659714.49     | 3155596.93     | 933.52          | 6° 44' 16"LT          | 299.42   | 377.44             | 338.43        | 423.00                    | -397.00  | 26.00   | 366.00                   | -174.00 | 192.00  |  |
| 87   | AP 113   | DBN+9         |                          | 659486.55     | 3155791.09     | 987.59          | 7° 31' 43"LT          | 177.51   | 299.42             | 238.47        | 701.00                    | 940.00   | 1641.00 | 478.00                   | 469.00  | 947.00  | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL                                 |
| 88   | AP 114   | DBN+6         |                          | 659337.50     | 3155887.50     | 937.06          | 6° 38' 25"RT          | 408.44   | 177.51             | 292.98        | -754.00                   | 648.00   | -106.00 | -284.00                  | 558.00  | 274.00  | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL                                 |
| 89   | AP 114A  | DD+3          |                          | 659022.50     | 3156147.50     | 843.76          | 32° 59' 41"RT         | 340.12   | 408.44             | 374.28        | -226.00                   | 430.00   | 204.00  | -135.00                  | 343.00  | 208.00  | Canal  |
| 90   | AP 115   | DBN+0         |                          | 658920.40     | 3156471.93     | 812.35          | 4° 31' 46"LT          | 466.55   | 340.12             | 403.33        | -87.00                    | -639.00  | -726.00 | 1.00                     | -482.00 | -481.00 | STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL                             |
| 91   | AP 116   | DC+6_1000M    |                          | 658745.64     | 3156904.51     | 1059.52         | 9° 41' 52"LT          | 291.46   | 466.55             | 379.01        | 1171.00                   | -1488.00 | -317.00 | 1014.00                  | -781.00 | 233.00  | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL                                 |
| 92   | AP 117   | DBN+6_1000M   |                          | 658592.50     | 3157152.50     | 1269.61         | 14° 42' 20"RT         | 188.22   | 291.46             | 239.84        | 1848.00                   | -979.00  | 869.00  | 1141.00                  | -390.00 | 751.00  | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL                                 |
| 93   | AP 118   | DD+6_1000M    |                          | 658537.50     | 3157332.50     | 1343.99         | 34° 25' 41"LT         | 333.46   | 188.22             | 260.84        | 1180.00                   | -606.00  | 574.00  | 591.00                   | -322.00 | 269.00  | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL                                 |
| 94   | AP 119   | DD+9_1000M    | 3                        | 658276.83     | 3157540.45     | 1435.57         | 0° 18' 15"LT          | 170.70   | 333.46             | 252.08        | 952.00                    | 1283.00  | 2235.00 | 668.00                   | 600.00  | 1268.00 | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL                                 |
| 95   | AP 120   | DC+9_1000M    |                          | 658142.83     | 3157646.19     | 1362.86         | 23° 38' 2"LT          | 182.04   | 170.70             | 176.37        | -1097.00                  | 1698.00  | 601.00  | -414.00                  | 795.00  | 381.00  | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL                                 |
| 96   | AP 121   | DD+9_1000M    |                          | 657966.70     | 3157692.21     | 1242.54         | 37° 38' 21"LT         | 357.62   | 182.04             | 269.83        | -1482.00                  | 490.00   | -992.00 | -579.00                  | 397.00  | -182.00 | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL                                 |
| 97   | AP 122   | DC+18_1000M   |                          | 657637.50     | 3157552.50     | 1185.98         | 13° 19' 21"RT         | 446.35   | 357.62             | 401.98        | -130.00                   | 298.00   | 168.00  | -37.00                   | 287.00  | 250.00  |  |
| 98   | AP 123   | DD+9_1000M    | 3                        | 657197.50     | 3157477.50     | 1171.64         | 31° 37' 33"LT         | 561.43   | 446.35             | 503.89        | 149.00                    | -74.00   | 75.00   | 161.00                   | -45.00  | 116.00  | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL                                 |
| 99   | AP 124   | DD+3_1000M    |                          | 656775.71     | 3157106.96     | 1334.38         | 42° 23' 27"LT         | 120.19   | 561.43             | 340.81        | 656.00                    | -83.00   | 573.00  | 628.00                   | 9.00    | 637.00  | STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL                             |



  
 Chief Manager  
 POWERGRID, AALO

  
 Sunil Kumar  
 Chief Manager  
 CSST&DS, Along  
 Powergrid Corp. Of India Ltd.

| SLNo | Loc. No. | Type of Tower | RAISED CHIMNEY/BENCHING | Easting X (m) | Northing Y (m) | Elevation Z (m) | Deviation Angle (Deg) | Span (m) | Section Length (m) | Wind Span (m) | Weight Span in Mtr (Cold) |          |         | Weight Span in Mtr (Hot) |         |         | Remarks & Crossings.  |
|------|----------|---------------|-------------------------|---------------|----------------|-----------------|-----------------------|----------|--------------------|---------------|---------------------------|----------|---------|--------------------------|---------|---------|---|
|      |          |               |                         |               |                |                 |                       |          |                    |               | Left                      | Right    | Total   | Left                     | Right   | Total   |   |
| 100  | AP124A   | DBN+0_1000M   |                         | 656762.50     | 3156987.50     | 1343.05         | 3° 11' 17"LT          |          | 120.19             | 197.80        | 201.00                    | 659.00   | 860.00  | 109.00                   | 436.00  | 545.00  | STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL        |
|      |          |               |                         |               |                |                 |                       | 275.41   |                    |               |                           |          |         |                          |         |         |   |
| 101  | AP 125   | DC+3_1000M    |                         | 656747.50     | 3156712.50     | 1290.41         | 16° 21' 24"RT         |          | 275.41             | 449.35        | -378.00                   | 331.00   | -47.00  | -155.00                  | 331.00  | 176.00  | STRENGTHENING CHECK NOT REQUIRED AS PER MAIL REC. FROM PGCIL  |
|      |          |               |                         |               |                |                 |                       | 623.28   |                    |               |                           |          |         |                          |         |         |   |
| 102  | AP 127   | DBN+9_1000M   |                         | 656539.66     | 3156124.89     | 1276.62         | 3° 32' 24"LT          |          | 623.28             | 513.80        | 300.00                    | 56.00    | 356.00  | 301.00                   | 87.00   | 388.00  | STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL        |
|      |          |               |                         |               |                |                 |                       | 404.31   |                    |               |                           |          |         |                          |         |         |   |
| 103  | AP 128   | DD+9_1000M    |                         | 656428.63     | 3155736.12     | 1308.75         | 27° 3' 24"RT          |          | 404.31             | 378.95        | 351.00                    | -268.00  | 83.00   | 321.00                   | -127.00 | 194.00  | TOWER TYPE UPDATED FROM DC TO DD TO AVOID WIND SPAN VIOLATION |
|      |          |               |                         |               |                |                 |                       | 353.59   |                    |               |                           |          |         |                          |         |         |   |
| 104  | AP 129   | DC+3_1000M    |                         | 656187.50     | 3155477.50     | 1381.14         | 26° 14' 49"RT         |          | 353.59             | 301.65        | 630.00                    | -615.00  | 15.00   | 490.00                   | -273.00 | 217.00  | STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL        |
|      |          |               |                         |               |                |                 |                       | 249.71   |                    |               |                           |          |         |                          |         |         |   |
| 105  | AP129A   | DBN+3_1000M   |                         | 655954.00     | 3155389.00     | 1447.12         | 7° 2' 41"RT           |          | 249.71             | 179.65        | 874.00                    | -734.00  | 140.00  | 533.00                   | -206.00 | 327.00  | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL            |
|      |          |               |                         |               |                |                 |                       | 109.59   |                    |               |                           |          |         |                          |         |         |   |
| 106  | AP 130   | DBN+3_1000M   |                         | 655847.53     | 3155363.02     | 1477.78         | 3° 38' 45"RT          |          | 109.59             | 144.13        | 848.00                    | 432.00   | 1280.00 | 320.00                   | 245.00  | 565.00  | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL            |
|      |          |               |                         |               |                |                 |                       | 178.66   |                    |               |                           |          |         |                          |         |         |   |
| 107  | AP 131   | DC+0_1000M    |                         | 655671.62     | 3155331.79     | 1459.83         | 27° 0' 26"RT          |          | 178.66             | 182.01        | -250.00                   | 1252.00  | 1002.00 | -64.00                   | 620.00  | 556.00  | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL            |
|      |          |               |                         |               |                |                 |                       | 185.36   |                    |               |                           |          |         |                          |         |         |   |
| 108  | AP 132   | DC+9_1000M    |                         | 655494.30     | 3155385.80     | 1370.99         | 20° 32' 30"LT         |          | 185.36             | 213.11        | -1049.00                  | 1280.00  | 231.00  | -418.00                  | 736.00  | 318.00  | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL            |
|      |          |               |                         |               |                |                 |                       | 240.86   |                    |               |                           |          |         |                          |         |         |   |
| 109  | AP 133   | DD+3_1000M    | 3                       | 655253.92     | 3155370.67     | 1270.07         | 32° 53' 24"RT         |          | 240.86             | 204.81        | -1017.00                  | 1440.00  | 423.00  | -472.00                  | 660.00  | 188.00  | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL            |
|      |          |               |                         |               |                |                 |                       | 168.76   |                    |               |                           |          |         |                          |         |         |   |
| 110  | AP 134   | DD+0_1000M    |                         | 655106.73     | 3155453.23     | 1188.56         | 43° 25' 49"LT         |          | 168.76             | 326.17        | -1250.00                  | 343.00   | -907.00 | -470.00                  | 332.00  | -138.00 | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL            |
|      |          |               |                         |               |                |                 |                       | 483.58   |                    |               |                           |          |         |                          |         |         | Canal   |
| 111  | AP 135   | DBN+0_1000M   | 3                       | 654637.81     | 3155335.08     | 1152.94         | 6° 5' 34"LT           |          | 483.58             | 505.73        | 141.00                    | -833.00  | -692.00 | 153.00                   | -673.00 | -520.00 | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL            |
|      |          |               |                         |               |                |                 |                       | 527.89   |                    |               |                           |          |         |                          |         |         | Canal   |
| 112  | AP 135A  | DD+9_1000M    | 3                       | 654142.50     | 3155152.50     | 1591.67         | 33° 58' 16"RT         |          | 527.89             | 379.76        | 1529.00                   | -1430.00 | 99.00   | 1369.00                  | -658.00 | 711.00  | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL            |
|      |          |               |                         |               |                |                 |                       | 231.63   |                    |               |                           |          |         |                          |         |         |   |
| 113  | AP 136   | DC+6_1000M    |                         | 653917.50     | 3155207.50     | 1749.43         | 16° 0' 31"RT          |          | 231.63             | 176.28        | 1709.00                   | -1259.00 | 450.00  | 937.00                   | -380.00 | 557.00  | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL            |
|      |          |               |                         |               |                |                 |                       | 120.93   |                    |               |                           |          |         |                          |         |         |   |
| 114  | AP 137   | DD+9_1000M    | 3                       | 653812.50     | 3155267.50     | 1804.17         | 39° 25' 12"LT         |          | 120.93             | 240.19        | 1393.00                   | 403.00   | 1796.00 | 514.00                   | 337.00  | 851.00  | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL            |
|      |          |               |                         |               |                |                 |                       | 359.45   |                    |               |                           |          |         |                          |         |         |   |
| 115  | AP 138   | DD+3_1000M    |                         | 653458.16     | 3155207.09     | 1778.54         | 32° 42' 59"RT         |          | 359.45             | 397.42        | -41.00                    | -45.00   | -86.00  | 24.00                    | -1.00   | 23.00   |   |
|      |          |               |                         |               |                |                 |                       | 435.39   |                    |               |                           |          |         |                          |         |         |   |
| 116  | AP 139   | DC+0_1000M    |                         | 653057.50     | 3155377.50     | 1850.81         | 22° 0' 32"LT          |          | 435.39             | 495.24        | 488.00                    | 1052.00  | 1540.00 | 445.00                   | 981.00  | 1426.00 | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL            |
|      |          |               |                         |               |                |                 |                       | 555.09   |                    |               |                           |          |         |                          |         |         |   |



*[Signature]*  
 C. Manager  
 POWERGRID, AALO

*[Signature]* Sunil Kumar  
 Chief Manager  
 CSST&DS, Along  
 Powergrid Corp. Of India Ltd.

| Sl.No | Loc. No. | Type of Tower | RAISED CHIMNEY/BENCHING | Easting X (m) | Northing Y (m) | Elevation Z (m) | Deviation Angle (Deg) | Span (m) | Section Length (m) | Wind Span (m) | Weight Span in Mtr (Cold) |         |          | Weight Span in Mtr (Hot) |         |         | Remarks & Crossings.  |
|-------|----------|---------------|-------------------------|---------------|----------------|-----------------|-----------------------|----------|--------------------|---------------|---------------------------|---------|----------|--------------------------|---------|---------|---|
|       |          |               |                         |               |                |                 |                       |          |                    |               | Left                      | Right   | Total    | Left                     | Right   | Total   |   |
| 117   | AP 140   | DBN+9_1000M   |                         | 652502.50     | 3155387.50     | 1542.17         | 2° 8' 23"RT           |          | 555.09             | 471.46        | -418.00                   | 1370.00 | 952.00   | -347.00                  | 1046.00 | 699.00  | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL  |
|       |          |               |                         |               |                |                 |                       | 387.83   |                    |               |                           |         |          |                          |         |         |   |
| 118   | AP 141   | DC+18         |                         | 652115.26     | 3155408.96     | 1318.94         | 1° 54' 5"LT           |          | 387.83             | 330.35        | -927.00                   | 1583.00 | 656.00   | -602.00                  | 957.00  | 355.00  | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL  |
|       |          |               |                         |               |                |                 |                       | 272.85   |                    |               |                           |         |          |                          |         |         |   |
| 119   | AP 142   | 220KV DD+0    |                         | 651842.47     | 3155415.01     | 1173.60         | 0° 12' 55"LT          |          | 272.85             | 602.10        | -1267.00                  | 178.00  | -1089.00 | -641.00                  | 185.00  | -456.00 | TOWER TYPE UPDATED TO 220KV TOWER PER MAIL REC. FROM PGCIL  |
|       |          |               |                         |               |                |                 |                       | 931.34   |                    |               |                           |         |          |                          |         |         | 11kv line , river , Road<br>Maximum tension maintained @32deg full wind<br>Bottom Conductor - 4.5T<br>Middle conductor - 5T<br>Top conductor - 5.303T |
| 120   | AP 143   | 220KV DD+0    |                         | 650911.29     | 3155432.16     | 1438.57         | 18° 3' 2"RT           |          | 931.34             | 655.69        | 819.00                    | 840.00  | 1659.00  | 814.00                   | 668.00  | 1482.00 | TOWER TYPE UPDATED TO 220KV TOWER PER MAIL REC. FROM PGCIL  |
|       |          |               |                         |               |                |                 |                       | 380.03   |                    |               |                           |         |          |                          |         |         | Canal   |
| 121   | AP 144   | DD+0_1000M    |                         | 650552.19     | 3155556.55     | 1329.95         | 28° 51' 45"RT         |          | 380.03             | 363.44        | -440.00                   | 506.00  | 66.00    | -268.00                  | 399.00  | 131.00  | TOWER TYPE UPDATED FROM DC TO DD TO AVOID WIND SPAN VIOLATION   |
|       |          |               |                         |               |                |                 |                       | 346.85   |                    |               |                           |         |          |                          |         |         |   |
| 122   | AP 145   | DD+0_1000M    |                         | 650319.96     | 3155814.18     | 1283.62         | 30° 45' 33"LT         |          | 346.85             | 391.37        | -156.00                   | -883.00 | -1039.00 | -48.00                   | -625.00 | -673.00 |   |
|       |          |               |                         |               |                |                 |                       | 435.88   |                    |               |                           |         |          |                          |         |         |   |
| 123   | AP 146   | DD+9_1000M    |                         | 649903.59     | 3155943.14     | 1542.49         | 59° 55' 49"LT         |          | 435.88             | 332.55        | 1392.00                   | 723.00  | 2115.00  | 1135.00                  | 428.00  | 1563.00 | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL  |
|       |          |               |                         |               |                |                 |                       | 229.22   |                    |               |                           |         |          |                          |         |         |   |
| 124   | AP 147   | DBN+3_1000M   |                         | 649735.19     | 3155787.63     | 1500.52         | 10° 6' 56"RT          |          | 229.22             | 331.20        | -491.00                   | 592.00  | 101.00   | -196.00                  | 529.00  | 333.00  |   |
|       |          |               |                         |               |                |                 |                       | 433.18   |                    |               |                           |         |          |                          |         |         |   |
| 125   | AP 148   | DC+3_1000M    |                         | 649370.28     | 3155554.21     | 1406.31         | 16° 44' 43"RT         |          | 433.18             | 401.77        | -146.00                   | 732.00  | 586.00   | -83.00                   | 579.00  | 496.00  | STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL  |
|       |          |               |                         |               |                |                 |                       | 370.37   |                    |               |                           |         |          |                          |         |         |   |
| 126   | AP 149   | DBN+0_1000M   |                         | 649014.01     | 3155452.99     | 1319.22         | 11° 31' 29"LT         |          | 370.37             | 300.17        | -350.00                   | 705.00  | 355.00   | -197.00                  | 421.00  | 224.00  | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL  |
|       |          |               |                         |               |                |                 |                       | 229.97   |                    |               |                           |         |          |                          |         |         |   |
| 127   | AP 150   | DD+0_1000M    |                         | 648809.81     | 3155347.21     | 1272.29         | 3° 13' 33"LT          |          | 229.97             | 486.14        | -471.00                   | 297.00  | -174.00  | -187.00                  | 300.00  | 113.00  | TOWER TYPE UPDATED TO DD TOWER AS PER MAIL REC. FROM PGCIL  |
|       |          |               |                         |               |                |                 |                       | 742.32   |                    |               |                           |         |          |                          |         |         | Canal   |
| 128   | AP 151   | DD+9_1000M    |                         | 648170.94     | 3154969.22     | 1312.90         | 7° 14' 6"LT           |          | 742.32             | 540.87        | 460.00                    | -518.00 | -58.00   | 457.00                   | -273.00 | 184.00  | TOWER TYPE UPDATED TO DD TOWER AS PER MAIL REC. FROM PGCIL  |
|       |          |               |                         |               |                |                 |                       | 339.42   |                    |               |                           |         |          |                          |         |         |   |




*Som*  
05/05/2024  
**Ch. Manager**  
POWERGRID, AALO

*Sunil Kumar*  
**Sunil Kumar**  
Chief Manager  
CSST&DS, Along  
Powergrid Corp. Of India Ltd.

| Sl.No | Loc. No. | Type of Tower | RAISED CHIMNEY/BENCHING | Easting X (m) | Northing Y (m) | Elevation Z (m) | Deviation Angle (Deg) | Span (m) | Section Length (m) | Wind Span (m) | Weight Span in Mtr (Cold) |         |         | Weight Span in Mtr (Hot) |         |         | Remarks & Crossings.  |
|-------|----------|---------------|-------------------------|---------------|----------------|-----------------|-----------------------|----------|--------------------|---------------|---------------------------|---------|---------|--------------------------|---------|---------|---|
|       |          |               |                         |               |                |                 |                       |          |                    |               | Left                      | Right   | Total   | Left                     | Right   | Total   |   |
| 129   | AP 152   | DC+18_1000M   | 1.5                     | 647902.91     | 3154760.97     | 1391.83         | 24° 50' 46"RT         |          | 339.42             | 380.14        | 870.00                    | 45.00   | 915.00  | 625.00                   | 75.00   | 700.00  |   |
|       |          |               |                         |               |                |                 |                       | 420.86   |                    |               |                           |         |         |                          |         |         |   |
| 130   | AP 152A  | DBN+3_1000M   |                         | 647492.84     | 3154666.30     | 1448.68         | 0° 0' 1"RT            |          | 420.86             | 329.50        | 380.00                    | -472.00 | -92.00  | 350.00                   | -192.00 | 158.00  |   |
|       |          |               |                         |               |                |                 |                       | 238.15   |                    |               |                           |         |         |                          |         |         |   |
| 131   | AP 153   | DD+0_1000M    |                         | 647260.79     | 3154612.73     | 1501.29         | 33° 16' 15"RT         |          | 238.15             | 198.12        | 717.00                    | 961.00  | 1678.00 | 437.00                   | 446.00  | 883.00  | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL  |
|       |          |               |                         |               |                |                 |                       | 158.08   |                    |               |                           |         |         |                          |         |         |   |
| 132   | AP 154   | 220KV DD+0    |                         | 647112.50     | 3154667.50     | 1446.02         | 38° 10' 20"LT         |          | 158.08             | 672.78        | -796.00                   | 670.00  | -126.00 | -281.00                  | 670.00  | 389.00  | TOWER TYPE UPDATED TO 220KV TOWER PER MAIL REC. FROM PGCIL  |
|       |          |               |                         |               |                |                 |                       | 1187.49  |                    |               |                           |         |         |                          |         |         | canal   |
| 133   | AP 155   | 220KV DD+9    |                         | 645982.50     | 3154302.50     | 1394.12         | 3° 7' 51"LT           |          | 1187.49            | 788.72        | 589.00                    | 700.00  | 1289.00 | 590.00                   | 579.00  | 1169.00 | TOWER TYPE UPDATED TO 220KV TOWER PER MAIL REC. FROM PGCIL  |
|       |          |               |                         |               |                |                 |                       | 389.96   |                    |               |                           |         |         |                          |         |         |   |
| 134   | AP 156   | DD+9_1000M    | 3                       | 645618.52     | 3154162.55     | 1299.92         | 34° 4' 4"RT           |          | 389.96             | 388.27        | -296.00                   | 821.00  | 525.00  | -175.00                  | 663.00  | 488.00  |   |
|       |          |               |                         |               |                |                 |                       | 386.58   |                    |               |                           |         |         |                          |         |         |   |
| 135   | AP 157   | DBN+0_1000M   |                         | 645241.90     | 3154249.75     | 1196.64         | 10° 26' 50"LT         |          | 386.58             | 385.67        | -416.00                   | -105.00 | -521.00 | -257.00                  | -32.00  | -289.00 |   |
|       |          |               |                         |               |                |                 |                       | 384.75   |                    |               |                           |         |         |                          |         |         |   |
| 136   | AP 159   | DBN+6_1000M   |                         | 644857.54     | 3154267.13     | 1247.29         | 8° 6' 51"RT           |          | 384.75             | 314.52        | 494.00                    | 1366.00 | 1860.00 | 421.00                   | 785.00  | 1206.00 | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL  |
|       |          |               |                         |               |                |                 |                       | 244.29   |                    |               |                           |         |         |                          |         |         |   |
| 137   | AP 160   | DBN+0_1000M   |                         | 644617.50     | 3154312.50     | 1138.89         | 10° 50' 14"LT         |          | 244.29             | 316.51        | -1097.00                  | 863.00  | -234.00 | -515.00                  | 693.00  | 178.00  | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL  |
|       |          |               |                         |               |                |                 |                       | 388.72   |                    |               |                           |         |         |                          |         |         |   |
| 138   | AP 162   | DC+3_1000M    |                         | 644228.78     | 3154311.59     | 1010.71         | 16° 39' 12"LT         |          | 388.72             | 665.41        | -456.00                   | 46.00   | -410.00 | -285.00                  | 55.00   | -230.00 |   |
|       |          |               |                         |               |                |                 |                       | 942.10   |                    |               |                           |         |         |                          |         |         | Canal   |
| 139   | AP 164   | 220KV DD+18   |                         | 643326.83     | 3154039.49     | 1440.16         | 31° 19' 25"RT         |          | 942.10             | 711.16        | 1033.00                   | 1181.00 | 2214.00 | 1025.00                  | 1038.00 | 2063.00 | TOWER TYPE UPDATED TO 220KV TOWER PER MAIL REC. FROM PGCIL  |
|       |          |               |                         |               |                |                 |                       | 480.22   |                    |               |                           |         |         |                          |         |         |   |
| 140   | AP 166   | DC+0_1000M    |                         | 642861.98     | 3154160.02     | 1191.72         | 16° 19' 52"LT         |          | 480.22             | 439.95        | -626.00                   | -178.00 | -804.00 | -483.00                  | -93.00  | -576.00 | STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL  |
|       |          |               |                         |               |                |                 |                       | 399.68   |                    |               |                           |         |         |                          |         |         |   |
| 141   | AP 167   | DD+0          |                         | 642462.50     | 3154147.50     | 1271.41         | 2° 53' 29"RT          |          | 399.68             | 568.62        | 586.00                    | 206.00  | 792.00  | 502.00                   | 213.00  | 715.00  | TOWER TYPE UPDATED TO DD TOWER AS PER MAIL REC. FROM PGCIL  |
|       |          |               |                         |               |                |                 |                       | 737.57   |                    |               |                           |         |         |                          |         |         | Maximum tension maintained @32deg full wind<br>Bottom Conductor - 4.5T<br>Middle conductor - 5T<br>Top conductor - 5.303T |
| 142   | AP 170   | DD+6_1000M    |                         | 641725.07     | 3154161.61     | 1370.01         | 15° 28' 41"RT         |          | 737.57             | 501.87        | 551.00                    | 548.00  | 1099.00 | 545.00                   | 367.00  | 912.00  | TOWER TYPE UPDATED TO DD TOWER AS PER MAIL REC. FROM PGCIL  |
|       |          |               |                         |               |                |                 |                       | 266.18   |                    |               |                           |         |         |                          |         |         | canal   |



  
 26.05.24  
 Daya Ram  
 A. Manager  
 POWERGRID AALO

  
 Sunil Kumar  
 Chief Manager  
 CSST&DS, Along  
 Powergrid Corp. Of India Ltd.

| Sl.No | Loc. No. | Type of Tower | RAISED CHIMNEY/BENCHING | Easting X (m) | Northing Y (m) | Elevation Z (m) | Deviation Angle (Deg) | Span (m) | Section Length (m) | Wind Span (m) | Weight Span in Mtr (Cold) |          |          | Weight Span in Mtr (Hot) |         |         | Remarks & Crossings.  |
|-------|----------|---------------|-------------------------|---------------|----------------|-----------------|-----------------------|----------|--------------------|---------------|---------------------------|----------|----------|--------------------------|---------|---------|---|
|       |          |               |                         |               |                |                 |                       |          |                    |               | Left                      | Right    | Total    | Left                     | Right   | Total   |   |
| 143   | AP 171   | DC+0_1000M    |                         | 641469.95     | 3154237.54     | 1338.14         | 14° 22' 50"LT         | 642.67   | 266.18             | 454.43        | -279.00                   | 492.00   | 213.00   | -97.00                   | 484.00  | 387.00  | STRENGTHENING CHECK NOT REQUIRED AS PER MAIL REC. FROM PGCIL                  |
| 144   | AP 174   | DC+0_1000M    |                         | 640827.75     | 3154262.14     | 1252.52         | 8° 53' 23"LT          | 188.42   | 642.67             | 415.54        | 163.00                    | -433.00  | -276.00  | 172.00                   | -150.00 | 22.00   | TOWER TYPE UPDATED TO DC TOWER AS PER MAIL REC. FROM PGCIL                    |
| 145   | AP 175   | DD+3_1000M    |                         | 640640.62     | 3154240.17     | 1284.33         | 40° 58' 32"RT         | 155.05   | 188.42             | 171.73        | 626.00                    | -1240.00 | -614.00  | 343.00                   | -445.00 | -102.00 | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL                            |
| 146   | AP 176   | DC+3_1000M    |                         | 640512.50     | 3154327.50     | 1364.10         | 27° 36' 46"LT         | 387.62   | 155.05             | 271.34        | 1415.00                   | -708.00  | 707.00   | 620.00                   | -451.00 | 169.00  | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL                            |
| 147   | AP 177   | DD+9_1000M    |                         | 640127.50     | 3154372.50     | 1522.19         | 35° 16' 58"RT         | 335.51   | 387.62             | 361.57        | 1130.00                   | 1250.00  | 2380.00  | 874.00                   | 870.00  | 1744.00 | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL                            |
| 148   | AP 178   | DC+0_1000M    |                         | 639877.97     | 3154596.78     | 1385.93         | 13° 45' 58"RT         | 400.27   | 335.51             | 367.89        | -882.00                   | 526.00   | -356.00  | -502.00                  | 456.00  | -46.00  | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL                            |
| 149   | AP 180   | DD+9_1000M    |                         | 639652.50     | 3154927.50     | 1309.13         | 29° 9' 2"LT           | 357.77   | 400.27             | 379.02        | -120.00                   | 446.00   | 326.00   | -50.00                   | 366.00  | 316.00  | TOWER TYPE UPDATED FROM DC TO DD TO AVOID WIND SPAN VIOLATION                 |
| 150   | AP 181   | DBN+3_1000M   |                         | 639332.50     | 3155087.50     | 1274.34         | 10° 37' 9"LT          | 232.19   | 357.77             | 294.98        | -87.00                    | -848.00  | -935.00  | -7.00                    | -378.00 | -385.00 | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL                            |
| 151   | AP 181A  | DBN+3_1000M   |                         | 639109.24     | 3155151.29     | 1356.08         | 0° 0' 3"LT            | 204.61   | 232.19             | 218.40        | 1094.00                   | -1076.00 | 18.00    | 624.00                   | -451.00 | 173.00  | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL                            |
| 152   | AP 182   | DD+9_1000M    |                         | 638912.50     | 3155207.50     | 1440.14         | 53° 21' 1"LT          | 214.01   | 204.61             | 209.31        | 1297.00                   | 1224.00  | 2521.00  | 673.00                   | 654.00  | 1327.00 | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL                            |
| 153   | AP 183   | DC+9_1000M    |                         | 638742.50     | 3155077.50     | 1353.46         | 25° 7' 13"LT          | 140.89   | 214.01             | 177.45        | -997.00                   | 1624.00  | 627.00   | -426.00                  | 652.00  | 226.00  | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL                            |
| 154   | AP 184   | DD+0_1000M    |                         | 638677.50     | 3154952.50     | 1274.41         | 28° 52' 3"RT          | 613.44   | 140.89             | 377.16        | -1458.00                  | 391.00   | -1067.00 | -486.00                  | 387.00  | -99.00  | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL<br>11kv line, road, River  |
| 155   | AP 185   | DD+0_1000M    |                         | 638166.90     | 3154612.51     | 1235.93         | 23° 36' 44"RT         | 172.04   | 613.44             | 392.74        | 233.00                    | -1523.00 | -1290.00 | 238.00                   | -581.00 | -343.00 | TOWER TYPE UPDATED TO DD TOWER AS PER MAIL REC. FROM PGCIL                    |
| 156   | AP 186   | DC+3_1000M    |                         | 637997.50     | 3154582.50     | 1351.42         | 20° 29' 10"RT         | 147.90   | 172.04             | 159.97        | 1734.00                   | -1445.00 | 289.00   | 791.00                   | -501.00 | 290.00  | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL                            |
| 157   | AP 187   | DC+9_1000M    | 3                       | 637852.05     | 3154609.30     | 1435.05         | 18° 15' 50"RT         | 142.00   | 147.90             | 144.95        | 1621.00                   | -755.00  | 866.00   | 676.00                   | -250.00 | 426.00  | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL                            |
| 158   | AP 188   | 220KV DD+9    |                         | 637727.50     | 3154677.50     | 1474.70         | 20° 34' 44"RT         | 804.81   | 142.00             | 473.41        | 905.00                    | 51.00    | 956.00   | 400.00                   | 62.00   | 462.00  | TOWER TYPE UPDATED TO DD TOWER AS PER MAIL REC. FROM PGCIL<br>11kv line, road |



*[Signature]*  
**Manager**  
**POWERGRID, AALO**

*[Signature]*  
**Sunil Kumar**  
**Chief Manager**  
**CSST&DS, Along**  
**Powergrid Corp. Of India Ltd.**

| SLNo | Loc. No. | Type of Tower | RAISED CHIMNEY/B ENCHING | Easting X (m) | Northing Y (m) | Elevation Z (m) | Deviation Angle (Deg) | Span (m) | Section Length (m) | Wind Span (m) | Weight Span in Mtr (Cold) |          |         | Weight Span in Mtr (Hot) |         |         | Remarks & Crossings.  |
|------|----------|---------------|--------------------------|---------------|----------------|-----------------|-----------------------|----------|--------------------|---------------|---------------------------|----------|---------|--------------------------|---------|---------|---|
|      |          |               |                          |               |                |                 |                       |          |                    |               | Left                      | Right    | Total   | Left                     | Right   | Total   |   |
| 159  | AP 189   | 220KV DD+9    |                          | 637202.50     | 3155287.50     | 1752.42         | 12° 2' 53"LT          |          | 804.81             | 716.41        | 820.00                    | 417.00   | 1237.00 | 810.00                   | 412.00  | 1222.00 | TOWER TYPE UPDATED TO 220KVDD TOWER AS PER MAIL REC. FROM PGCIL |
|      |          |               |                          |               |                |                 |                       | 628.01   |                    |               |                           |          |         |                          |         |         |   |
| 160  | AP 191   | DC+0_1000M    |                          | 636702.50     | 3155667.50     | 1717.03         | 26° 55' 48"LT         |          | 628.01             | 369.91        | 218.00                    | -1032.00 | -814.00 | 224.00                   | -296.00 | -72.00  | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL              |
|      |          |               |                          |               |                |                 |                       | 111.80   |                    |               |                           |          |         |                          |         |         |   |
| 161  | AP 192   | DBN+3_1000M   |                          | 636592.50     | 3155687.50     | 1758.23         | 10° 49' 23"LT         |          | 111.80             | 186.93        | 1151.00                   | -1395.00 | -244.00 | 415.00                   | -686.00 | -271.00 | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL              |
|      |          |               |                          |               |                |                 |                       | 262.06   |                    |               |                           |          |         |                          |         |         |   |
| 162  | AP 193   | DBN+3_1000M   |                          | 636330.45     | 3155685.13     | 1925.64         | 3° 59' 24"LT          |          | 262.06             | 255.58        | 1705.00                   | -199.00  | 1506.00 | 997.00                   | -50.00  | 947.00  | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL              |
|      |          |               |                          |               |                |                 |                       | 249.10   |                    |               |                           |          |         |                          |         |         |   |
| 163  | AP 194   | DD+0_1000M    |                          | 636082.12     | 3155665.55     | 1955.90         | 35° 18' 9"LT          |          | 249.10             | 267.50        | 447.00                    | -752.00  | -305.00 | 299.00                   | -370.00 | -71.00  |   |
|      |          |               |                          |               |                |                 |                       | 285.90   |                    |               |                           |          |         |                          |         |         |   |
| 164  | AP 195   | DBN+9_1000M   | 3                        | 635862.50     | 3155482.50     | 2036.24         | 3° 44' 6"LT           |          | 285.90             | 263.73        | 1051.00                   | 490.00   | 1541.00 | 669.00                   | 318.00  | 987.00  | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL              |
|      |          |               |                          |               |                |                 |                       | 241.56   |                    |               |                           |          |         |                          |         |         |   |
| 165  | AP 196   | DBN+3_1000M   |                          | 635687.41     | 3155316.08     | 2014.81         | 5° 25' 58"RT          |          | 241.56             | 202.63        | -246.00                   | 767.00   | 521.00  | -74.00                   | 376.00  | 302.00  | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL              |
|      |          |               |                          |               |                |                 |                       | 163.70   |                    |               |                           |          |         |                          |         |         |   |
| 166  | AP 197   | DBN+3_1000M   |                          | 635558.61     | 3155215.04     | 1975.61         | 4° 17' 59"RT          |          | 163.70             | 146.62        | -599.00                   | 1187.00  | 588.00  | -207.00                  | 476.00  | 269.00  | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL              |
|      |          |               |                          |               |                |                 |                       | 129.53   |                    |               |                           |          |         |                          |         |         |   |
| 167  | AP 198   | DC+0_1000M    |                          | 635450.99     | 3155142.96     | 1924.83         | 23° 47' 9"RT          |          | 129.53             | 267.10        | -1046.00                  | 668.00   | -378.00 | -334.00                  | 569.00  | 235.00  | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL              |
|      |          |               |                          |               |                |                 |                       | 404.67   |                    |               |                           |          |         |                          |         |         |   |
| 168  | AP 199   | DD+9_1000M    | 3                        | 635052.50     | 3155072.50     | 1814.65         | 9° 15' 5"LT           |          | 404.67             | 298.77        | -250.00                   | 875.00   | 625.00  | -151.00                  | 461.00  | 310.00  |   |
|      |          |               |                          |               |                |                 |                       | 192.88   |                    |               |                           |          |         |                          |         |         |   |
| 169  | AP 200   | DD+6 (ICE)    |                          | 634870.44     | 3155008.82     | 1765.00         | 9° 44' 52"LT          |          | 192.88             | 235.33        | -676.00                   | 744.00   | 68.00   | -262.00                  | 506.00  | 244.00  |   |
|      |          |               |                          |               |                |                 |                       | 277.78   |                    |               |                           |          |         |                          |         |         |   |
| 170  | AP 201   | DC+0 (ICE)    |                          | 634627.55     | 3154874.04     | 1705.16         | 3° 48' 52"RT          |          | 277.78             | 252.21        | -404.00                   | 555.00   | 151.00  | -180.00                  | 348.00  | 168.00  |   |
|      |          |               |                          |               |                |                 |                       | 226.64   |                    |               |                           |          |         |                          |         |         |   |
| 171  | AP 202   | DD+0 (ICE)    |                          | 634422.50     | 3154777.50     | 1659.56         | 36° 58' 45"RT         |          | 226.64             | 297.18        | -322.00                   | 672.00   | 350.00  | -115.00                  | 556.00  | 441.00  |   |
|      |          |               |                          |               |                |                 |                       | 367.73   |                    |               |                           |          |         |                          |         |         |   |
| 172  | AP 203   | DD+6 (ICE)    |                          | 634062.50     | 3154852.50     | 1552.10         | 41° 11' 27"RT         |          | 367.73             | 263.89        | -285.00                   | 655.00   | 370.00  | -169.00                  | 324.00  | 155.00  |   |
|      |          |               |                          |               |                |                 |                       | 160.05   |                    |               |                           |          |         |                          |         |         |   |
| 173  | AP 204   | DC+3 (ICE)    |                          | 633966.09     | 3154980.25     | 1517.59         | 18° 37' 13"LT         |          | 160.05             | 171.99        | -488.00                   | 839.00   | 351.00  | -157.00                  | 435.00  | 278.00  | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL              |
|      |          |               |                          |               |                |                 |                       | 183.93   |                    |               |                           |          |         |                          |         |         |   |
| 174  | AP 205   | DC+0 (ICE)    |                          | 633814.21     | 3155084.01     | 1460.18         | 7° 46' 37"LT          |          | 183.93             | 183.34        | -646.00                   | 828.00   | 182.00  | -242.00                  | 431.00  | 189.00  | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL              |
|      |          |               |                          |               |                |                 |                       | 182.74   |                    |               |                           |          |         |                          |         |         |   |
| 175  | AP 206   | DD+3 (ICE)    |                          | 633650.76     | 3155165.72     | 1394.78         | 8° 28' 1"RT           |          | 182.74             | 453.08        | -636.00                   | 320.00   | -316.00 | -238.00                  | 323.00  | 85.00   | TOWER TYPE UPDATED TO DD AS PER MAIL REC. FROM PGCIL            |



*Son*  
*Dasgupta*  
 chManager  
 POWERGRID, AALO

*Sunil Kumar*  
 Sunil Kumar  
 Chief Manager  
 CSST&DS, Along  
 Powergrid Corp. Of India Ltd.

| Sl.No | Loc. No. | Type of Tower | RAISED CHIMNEY/B ENCHING | Easting X (m) | Northing Y (m) | Elevation Z (m) | Deviation Angle (Deg) | Span (m) | Section Length (m) | Wind Span (m) | Weight Span in Mtr (Cold) |          |         | Weight Span in Mtr (Hot) |         |         | Remarks & Crossings. |  |              |  |
|-------|----------|---------------|--------------------------|---------------|----------------|-----------------|-----------------------|----------|--------------------|---------------|---------------------------|----------|---------|--------------------------|---------|---------|----------------------|--|--------------|--|
|       |          |               |                          |               |                |                 |                       |          |                    |               | Left                      | Right    | Total   | Left                     | Right   | Total   |                      |  |              |  |
|       |          |               |                          |               |                |                 |                       | 723.43   |                    |               |                           |          |         |                          |         |         |                      |  |              |  |
| 176   | AP 207   | DD+3 (ICE)    |                          | 633058.37     | 3155580.96     | 1424.07         | 10° 16' 27"LT         |          | 723.43             | 445.74        | 416.00                    | -675.00  | -259.00 | 415.00                   | -239.00 | 176.00  |                      |  |              | TENSION VALUE IS RELAXED IN CONDUCTOR TO MAINTAIN MID SPAN CLEARANCE<br>TOWER TYPE UPDATED TO DD AS PER MAIL REC. FROM PGCIL |
|       |          |               |                          |               |                |                 |                       | 168.05   |                    |               |                           |          |         |                          |         |         |                      |  |              |  |
| 177   | AP 208   | DC+0 (ICE)    |                          | 632905.77     | 3155651.32     | 1486.79         | 16° 41' 12"LT         |          | 168.05             | 165.91        | 852.00                    | -1168.00 | -316.00 | 416.00                   | -426.00 | -10.00  |                      |  |              | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL   |
|       |          |               |                          |               |                |                 |                       | 163.78   |                    |               |                           |          |         |                          |         |         |                      |  |              |  |
| 178   | AP 209   | DC+9 (ICE)    | 3                        | 632743.61     | 3155674.31     | 1579.30         | 0° 57' 40"LT          |          | 163.78             | 195.82        | 1361.00                   | -1362.00 | -1.00   | 620.00                   | -631.00 | -11.00  |                      |  |              | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL   |
|       |          |               |                          |               |                |                 |                       | 227.86   |                    |               |                           |          |         |                          |         |         |                      |  |              |  |
| 179   | AP 210   | DD+9 (ICE)    | 3                        | 632517.50     | 3155702.50     | 1774.58         | 11° 38' 34"RT         |          | 227.86             | 514.86        | 1665.00                   | 155.00   | 1820.00 | 934.00                   | 162.00  | 1096.00 |                      |  | earthcutting | TOWER TYPE UPDATED TO DD AS PER MAIL REC. FROM PGCIL   |
|       |          |               |                          |               |                |                 |                       | 801.86   |                    |               |                           |          |         |                          |         |         |                      |  |              | TENSION VALUE IS RELAXED IN CONDUCTOR TO MAINTAIN MID SPAN CLEARANCE<br>TOWER TYPE UPDATED TO DD AS PER MAIL REC. FROM PGCIL |
| 180   | AP 210A  | DD+9 (ICE)    |                          | 631758.19     | 3155960.25     | 1980.66         |                       |          | 801.86             | 489.20        | 694.00                    | -1063.00 | -369.00 | 687.00                   | -413.00 | 274.00  |                      |  |              | TOWER TYPE UPDATED TO DD AS PER MAIL REC. FROM PGCIL   |
|       |          |               |                          |               |                |                 |                       | 176.54   |                    |               |                           |          |         |                          |         |         |                      |  |              |  |
| 181   | AP 210B  | DC+9 (ICE)    |                          | 631591.02     | 3156016.99     | 2086.21         |                       |          | 176.54             | 148.64        | 1267.00                   | -1261.00 | 6.00    | 618.00                   | -364.00 | 254.00  |                      |  |              | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL   |
|       |          |               |                          |               |                |                 |                       | 120.74   |                    |               |                           |          |         |                          |         |         |                      |  |              |  |
| 182   | AP210C   | DC+9 (ICE)    |                          | 631476.70     | 3156055.80     | 2169.38         | 6° 10' 46"RT          |          | 120.74             | 97.37         | 1408.00                   | -57.00   | 1351.00 | 511.00                   | 15.00   | 526.00  |                      |  |              | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL   |
|       |          |               |                          |               |                |                 |                       | 74.00    |                    |               |                           |          |         |                          |         |         |                      |  |              |  |
| 183   | AP 211   | DC+0 (ICE)    |                          | 631409.59     | 3156086.99     | 2181.34         | 14° 2' 54"RT          |          | 74.00              | 142.62        | 132.00                    | 473.00   | 605.00  | 60.00                    | 292.00  | 352.00  |                      |  |              |  |
|       |          |               |                          |               |                |                 |                       | 211.24   |                    |               |                           |          |         |                          |         |         |                      |  |              |  |
| 184   | AP 212   | DC+0 (ICE)    |                          | 631245.38     | 3156219.86     | 2148.25         | 20° 12' 35"RT         |          | 211.24             | 220.68        | -258.00                   | 880.00   | 622.00  | -77.00                   | 522.00  | 445.00  |                      |  |              | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL   |
|       |          |               |                          |               |                |                 |                       | 230.13   |                    |               |                           |          |         |                          |         |         |                      |  |              |  |
| 185   | AP 213   | DD+9 (ICE)    |                          | 631127.50     | 3156417.50     | 2058.38         | 33° 50' 34"LT         |          | 230.13             | 236.25        | -638.00                   | 917.00   | 279.00  | -279.00                  | 557.00  | 278.00  |                      |  |              | STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL   |
|       |          |               |                          |               |                |                 |                       | 242.38   |                    |               |                           |          |         |                          |         |         |                      |  |              |  |
| 186   | AP 214   | DC+9 (ICE)    |                          | 630908.45     | 3156521.25     | 1975.13         | 14° 22' 44"RT         |          | 242.38             | 221.11        | -661.00                   | 947.00   | 286.00  | -301.00                  | 513.00  | 212.00  |                      |  |              | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL   |
|       |          |               |                          |               |                |                 |                       | 199.84   |                    |               |                           |          |         |                          |         |         |                      |  |              |  |
| 187   | AP 215   | DC+9 (ICE)    |                          | 630754.75     | 3156648.96     | 1898.87         | 6° 11' 30"LT          |          | 199.84             | 222.64        | -733.00                   | 1163.00  | 430.00  | -298.00                  | 700.00  | 402.00  |                      |  |              | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL   |
|       |          |               |                          |               |                |                 |                       | 245.45   |                    |               |                           |          |         |                          |         |         |                      |  |              |  |
| 188   | AP 216   | DC+9 (ICE)    |                          | 630550.14     | 3156784.55     | 1778.71         | 5° 19' 28"RT          |          | 245.45             | 211.12        | -889.00                   | 1112.00  | 223.00  | -426.00                  | 542.00  | 116.00  |                      |  |              | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL   |
|       |          |               |                          |               |                |                 |                       | 176.79   |                    |               |                           |          |         |                          |         |         |                      |  |              |  |
| 189   | AP 217   | DD+0 (ICE)    |                          | 630412.47     | 3156895.46     | 1701.80         | 42° 30' 23"LT         |          | 176.79             | 386.49        | -918.00                   | 367.00   | -551.00 | -348.00                  | 363.00  | 15.00   |                      |  |              | STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL   |
|       |          |               |                          |               |                |                 |                       | 596.18   |                    |               |                           |          |         |                          |         |         |                      |  |              | TENSION VALUE IS RELAXED IN CONDUCTOR TO MAINTAIN MID SPAN CLEARANCE<br>STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL   |
| 190   | AP 219   | DC+9 (ICE)    |                          | 629817.50     | 3156857.50     | 1664.02         | 5° 45' 2"LT           |          | 596.18             | 414.03        | 233.00                    | 976.00   | 1209.00 | 238.00                   | 576.00  | 814.00  |                      |  |              |  |
|       |          |               |                          |               |                |                 |                       | 231.88   |                    |               |                           |          |         |                          |         |         |                      |  |              |  |



  
 Ch. Manager  
 POWERGRID, AALO

  
 Sunil Kumar  
 Chief Manager  
 CSST&DS, Along  
 Powergrid Corp. Of India Ltd.

| Sl.No | Loc. No. | Type of Tower | RAISED CHIMNEY/BENCHING | Easting X (m) | Northing Y (m) | Elevation Z (m) | Deviation Angle (Deg) | Span (m) | Section Length (m) | Wind Span (m) | Weight Span in Mtr (Cold) |         |         | Weight Span in Mtr (Hot) |         |         | Remarks & Crossings.   |
|-------|----------|---------------|-------------------------|---------------|----------------|-----------------|-----------------------|----------|--------------------|---------------|---------------------------|---------|---------|--------------------------|---------|---------|--|
|       |          |               |                         |               |                |                 |                       |          |                    |               | Left                      | Right   | Total   | Left                     | Right   | Total   |  |
| 191   | AP 220   | DC+6 (ICE)    |                         | 629588.74     | 3156819.62     | 1577.02         | 4° 40' 52"RT          |          | 231.88             | 335.09        | -727.00                   | 159.00  | -568.00 | -327.00                  | 171.00  | -156.00 | STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL   |
|       |          |               |                         |               |                |                 |                       | 438.31   |                    |               |                           |         |         |                          |         |         |  |
| 192   | AP 221   | DC+0 (ICE)    |                         | 629151.91     | 3156783.56     | 1598.01         | 0° 23' 41"LT          |          | 438.31             | 359.78        | 280.00                    | -184.00 | 96.00   | 269.00                   | -52.00  | 217.00  |  |
|       |          |               |                         |               |                |                 |                       | 281.25   |                    |               |                           |         |         |                          |         |         |  |
| 193   | AP 223   | DC+0 (ICE)    |                         | 628871.78     | 3156758.48     | 1637.18         | 17° 32' 55"RT         |          | 281.25             | 219.62        | 469.00                    | 527.00  | 996.00  | 337.00                   | 266.00  | 603.00  |  |
|       |          |               |                         |               |                |                 |                       | 157.99   |                    |               |                           |         |         |                          |         |         |  |
| 194   | AP 224   | DC+3 (ICE)    |                         | 628717.50     | 3156792.50     | 1603.86         | 17° 21' 20"LT         |          | 157.99             | 204.03        | -366.00                   | 281.00  | -85.00  | -105.00                  | 211.00  | 106.00  |  |
|       |          |               |                         |               |                |                 |                       | 250.08   |                    |               |                           |         |         |                          |         |         |  |
| 195   | AP 225   | DD+0 (ICE)    |                         | 628468.35     | 3156771.05     | 1587.96         | 39° 33' 56"LT         |          | 250.08             | 264.91        | -34.00                    | 850.00  | 816.00  | 37.00                    | 562.00  | 599.00  |  |
|       |          |               |                         |               |                |                 |                       | 279.74   |                    |               |                           |         |         |                          |         |         |  |
| 196   | AP 227   | DD+9 (ICE)    |                         | 628268.78     | 3156575.02     | 1491.69         | 0° 35' 3"LT           |          | 279.74             | 491.23        | -559.00                   | 299.00  | -260.00 | -271.00                  | 302.00  | 31.00   | TOWER TYPE UPDATED TO DD AS PER MAIL REC. FROM PGCIL<br>TENSION VALUE IS RELAXED IN CONDUCTOR TO MAINTAIN MID SPAN CLEARANCE |
|       |          |               |                         |               |                |                 |                       | 702.73   |                    |               |                           |         |         |                          |         |         | TOWER TYPE UPDATED TO DD AS PER MAIL REC. FROM PGCIL   |
| 197   | AP 228   | DD+9 (ICE)    |                         | 627772.50     | 3156077.50     | 1526.00         | 11° 23' 20"RT         |          | 702.73             | 427.09        | 416.00                    | 212.00  | 628.00  | 414.00                   | 133.00  | 547.00  |  |
|       |          |               |                         |               |                |                 |                       | 151.46   |                    |               |                           |         |         |                          |         |         |  |
| 198   | AP 229   | DD+0 (ICE)    |                         | 627646.46     | 3155993.50     | 1526.26         | 49° 27' 44"RT         |          | 151.46             | 181.95        | -57.00                    | 323.00  | 266.00  | 23.00                    | 217.00  | 240.00  |  |
|       |          |               |                         |               |                |                 |                       | 212.43   |                    |               |                           |         |         |                          |         |         |  |
| 199   | AP 230   | DC+0 (ICE)    |                         | 627442.04     | 3156051.27     | 1509.39         | 27° 12' 59"LT         |          | 212.43             | 300.16        | -108.00                   | -529.00 | -637.00 | -2.00                    | -353.00 | -355.00 |  |
|       |          |               |                         |               |                |                 |                       | 387.89   |                    |               |                           |         |         |                          |         |         | river  |
| 200   | AP 231   | DC+3 (ICE)    |                         | 627061.86     | 3155974.35     | 1674.18         | 21° 15' 33"RT         |          | 387.89             | 273.27        | 953.00                    | -888.00 | 65.00   | 776.00                   | -314.00 | 462.00  | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL   |
|       |          |               |                         |               |                |                 |                       | 158.65   |                    |               |                           |         |         |                          |         |         |  |
| 201   | AP 232   | DC+3 (ICE)    |                         | 626905.54     | 3156001.42     | 1746.36         | 10° 44' 45"LT         |          | 158.65             | 200.86        | 1063.00                   | -329.00 | 734.00  | 489.00                   | -123.00 | 366.00  | STRENGTHENING REQUIRED AS PER MAIL REC. FROM PGCIL   |
|       |          |               |                         |               |                |                 |                       | 243.07   |                    |               |                           |         |         |                          |         |         |  |
| 202   | AP 233   | DC+9 (ICE)    |                         | 626662.50     | 3155997.50     | 1787.58         | 8° 55' 6"RT           |          | 243.07             | 282.87        | 576.00                    | 378.00  | 954.00  | 371.00                   | 303.00  | 674.00  |  |
|       |          |               |                         |               |                |                 |                       | 322.67   |                    |               |                           |         |         |                          |         |         |  |
| 203   | AP 234   | DC+6 (ICE)    |                         | 626342.97     | 3156042.38     | 1760.21         | 13° 33' 44"RT         |          | 322.67             | 272.54        | -53.00                    | 434.00  | 381.00  | 23.00                    | 280.00  | 303.00  |  |
|       |          |               |                         |               |                |                 |                       | 222.41   |                    |               |                           |         |         |                          |         |         |  |
| 204   | AP 235   | DC+6 (ICE)    |                         | 626136.12     | 3156124.10     | 1729.83         | 5° 40' 22"RT          |          | 222.41             | 208.29        | -208.00                   | 56.00   | -152.00 | -54.00                   | 78.00   | 24.00   |  |
|       |          |               |                         |               |                |                 |                       | 194.18   |                    |               |                           |         |         |                          |         |         |  |
| 205   | AP 236   | DD+0 (ICE)    |                         | 625963.46     | 3156212.95     | 1736.61         | 17° 5' 54"RT          |          | 194.18             | 450.55        | 139.00                    | 322.00  | 461.00  | 118.00                   | 324.00  | 442.00  | TOWER TYPE UPDATED TO DD AS PER MAIL REC. FROM PGCIL<br>TENSION VALUE IS RELAXED IN CONDUCTOR TO MAINTAIN MID SPAN CLEARANCE |
|       |          |               |                         |               |                |                 |                       | 706.92   |                    |               |                           |         |         |                          |         |         | TOWER TYPE UPDATED TO DD AS PER MAIL REC. FROM PGCIL   |
| 206   | AP 237   | DD+9 (ICE)    |                         | 625457.77     | 3156706.92     | 1749.56         | 33° 30' 41"LT         |          | 706.92             | 434.91        | 396.00                    | 633.00  | 1029.00 | 395.00                   | 314.00  | 709.00  |  |
|       |          |               |                         |               |                |                 |                       | 162.91   |                    |               |                           |         |         |                          |         |         |  |
| 207   | AP 238   | DC+9 (ICE)    | 3                       | 625297.75     | 3156737.49     | 1710.84         | 2° 35' 39"RT          |          | 162.91             | 361.72        | -468.00                   | -98.00  | -566.00 | -148.00                  | -68.00  | -216.00 |  |



  
 Sunil Kumar

| SLNo | Loc. No. | Type of Tower | RAISED CHIMNEY/B ENCHING | Easting X (m) | Northing Y (m) | Elevation Z (m) | Deviation Angle (Deg) | Span (m) | Section Length (m) | Wind Span (m) | Weight Span in Mtr (Cold) |         |         | Weight Span in Mtr (Hot) |         |         | Remarks & Crossings.   |
|------|----------|---------------|--------------------------|---------------|----------------|-----------------|-----------------------|----------|--------------------|---------------|---------------------------|---------|---------|--------------------------|---------|---------|--|
|      |          |               |                          |               |                |                 |                       |          |                    |               | Left                      | Right   | Total   | Left                     | Right   | Total   |  |
| 208  | AP 240   | DD+9 (ICE)    | 3                        | 624752.50     | 3156867.50     | 1891.15         | 33° 52' 11"LT         | 560.54   | 560.54             | 370.48        | 690.00                    | 256.00  | 946.00  | 661.00                   | 164.00  | 825.00  |  |
| 209  | AP 241   | DC+9 (ICE)    | 3                        | 624583.47     | 3156804.44     | 1881.29         |                       | 180.42   | 180.42             | 246.14        | -77.00                    | 461.00  | 384.00  | 15.00                    | 350.00  | 365.00  |  |
| 210  | AP 243   | DD+3 (ICE)    |                          | 624291.27     | 3156695.43     | 1846.74         | 39° 39' 27"RT         | 311.87   | 311.87             | 303.53        | -344.00                   | 528.00  | 384.00  | -33.00                   | 382.00  | 349.00  |  |
| 211  | AP 244   | DC+9 (ICE)    |                          | 624012.50     | 3156792.50     | 1795.43         | 9° 40' 36"LT          | 295.18   | 295.18             | 218.43        | -227.00                   | 741.00  | 514.00  | -80.00                   | 326.00  | 246.00  | STRENGTHENING NOT REQUIRED AS PER MAIL REF. FROM BCCII               |
| 212  | AP 245   | DD+9 (ICE)    |                          | 623872.78     | 3156815.94     | 1751.73         | 28° 40' 29"LT         | 141.68   | 141.68             | 418.61        | -596.00                   | 348.00  | -248.00 | -180.00                  | 349.00  | 169.00  | TOWER TYPE UPDATED TO DD AS PER MAIL REF. FROM BCCII                 |
| 213  | AP 246   | DD+0 (ICE)    |                          | 623215.73     | 3156587.74     | 1763.34         | 12° 43' 2"RT          | 695.55   | 695.55             | 421.83        | 357.00                    | -865.00 | -508.00 | 357.00                   | -292.00 | 65.00   | TENSION VALUE IS RELAXED IN CONDUCTOR TO MAINTAIN MID SPAN CLEARANCE |
| 214  | AP 247   | DC+6 (ICE)    |                          | 623068.54     | 3156571.13     | 1825.83         | 18° 29' 7"RT          | 148.12   | 148.12             | 200.10        | 1028.00                   | -268.00 | 760.00  | 455.00                   | -94.00  | 361.00  | TOWER TYPE UPDATED TO DD AS PER MAIL REF. FROM BCCII                 |
| 215  | AP 248   | DC+3 (ICE)    |                          | 622822.01     | 3156623.76     | 1871.87         | 28° 22' 51"RT         | 252.08   | 252.08             | 243.37        | 526.00                    | 294.00  | 820.00  | 352.00                   | 214.00  | 566.00  | STRENGTHENING REQUIRED AS PER MAIL REF. FROM BCCII                   |
| 216  | AP 249   | DD+0 (ICE)    |                          | 622643.40     | 3156775.93     | 1854.88         | 39° 33' 14"RT         | 234.65   | 234.65             | 234.90        | -55.00                    | 128.00  | 73.00   | 26.00                    | 123.00  | 149.00  |  |
| 217  | AP 250   | DC+3 (ICE)    |                          | 622602.50     | 3157007.50     | 1853.53         | 24° 54' 54"LT         | 235.16   | 235.16             | 309.69        | 109.00                    | -150.00 | -41.00  | 113.00                   | -62.00  | 51.00   |  |
| 218  | AP 252   | DC+9 (ICE)    |                          | 622382.50     | 3157322.50     | 1915.76         | 10° 4' 9"LT           | 384.22   | 384.22             | 259.29        | 540.00                    | -403.00 | 137.00  | 452.00                   | -106.00 | 346.00  |  |
| 219  | AP 253   | DC+9 (ICE)    |                          | 622287.50     | 3157417.50     | 1942.88         | 11° 42' 50"RT         | 134.35   | 134.35             | 184.35        | 540.00                    | 981.00  | 1521.00 | 243.00                   | 582.00  | 825.00  | STRENGTHENING REQUIRED AS PER MAIL REF. FROM BCCII                   |
| 220  | AP 254   | DC+0 (ICE)    |                          | 622158.89     | 3157613.40     | 1860.40         | 17° 6' 26"LT          | 234.35   | 234.35             | 326.29        | -730.00                   | 484.00  | -246.00 | -330.00                  | 426.00  | 96.00   | STRENGTHENING REQUIRED AS PER MAIL REF. FROM BCCII                   |
| 221  | AP 255   | DC+0 (ICE)    |                          | 621836.67     | 3157880.02     | 1798.08         | 3° 54' 33"LT          | 418.23   | 418.23             | 344.05        | -61.00                    | -355.00 | -416.00 | -3.00                    | -148.00 | -151.00 | CANAL  |
| 222  | AP 256   | DD+9 (ICE)    |                          | 621617.50     | 3158037.50     | 1843.36         | 35° 41' 51"LT         | 269.88   | 269.88             | 294.94        | 629.00                    | 157.00  | 786.00  | 422.00                   | 158.00  | 580.00  |  |
| 223  | AP 257   | DC+6 (ICE)    |                          | 621297.50     | 3158037.50     | 1849.25         | 5° 26' 37"RT          | 320.00   | 320.00             | 257.15        | 161.00                    | 436.00  | 597.00  | 161.00                   | 260.00  | 421.00  |  |
| 224  | AP 258   | DC+9 (ICE)    |                          | 621104.07     | 3158055.93     | 1818.37         | 7° 16' 25"RT          | 194.30   | 194.30             | 219.84        | -239.00                   | 508.00  | 269.00  | -63.00                   | 335.00  | 272.00  |  |
| 225  | AP 259   | DC+9 (ICE)    | 3                        | 620864.72     | 3158109.95     | 1775.26         | 10° 58' 33"LT         | 245.38   | 245.38             | 248.42        | -259.00                   | 397.00  | 138.00  | -86.00                   | 278.00  | 192.00  |  |
| 226  | AP 260   | DC+6 (ICE)    |                          | 620613.38     | 3158117.59     | 1752.50         | 26° 47' 33"RT         | 251.45   | 251.45             | 314.04        | -143.00                   | 590.00  | 447.00  | -24.00                   | 488.00  | 464.00  |  |
| 227  | AP 262   | DD+9 (ICE)    |                          | 620282.50     | 3158297.50     | 1668.89         | 41° 20' 50"RT         | 376.63   | 376.63             | 529.89        | -201.00                   | 31.00   | -170.00 | -99.00                   | 46.00   | -53.00  | STRENGTHENING NOT REQUIRED AS PER MAIL REF. FROM BCCII               |



*Daya Ram*  
 ch-Manager  
 POWERGRID

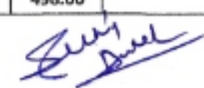
*Sunil Kumar*

Sunil Kumar  
 Chief Manager  
 CSST&DS, Along  
 Powergrid Corp. Of India Ltd.

| Sl.No | Loc. No. | Type of Tower | RAISED CHIMNEY/B ENCHING | Easting X (m) | Northing Y (m) | Elevation Z (m) | Deviation Angle (Deg) | Span (m) | Section Length (m) | Wind Span (m) | Weight Span in Mtr (Cold) |         |         | Weight Span in Mtr (Hot) |         |         | Remarks & Crossings. |  |
|-------|----------|---------------|--------------------------|---------------|----------------|-----------------|-----------------------|----------|--------------------|---------------|---------------------------|---------|---------|--------------------------|---------|---------|----------------------|--|
|       |          |               |                          |               |                |                 |                       |          |                    |               | Left                      | Right   | Total   | Left                     | Right   | Total   |                      |  |
|       |          |               |                          |               |                |                 |                       | 683.15   |                    |               |                           |         |         |                          |         |         |                      | TENSION VALUE IS RELAXED IN CONDUCTOR TO MAINTAIN MID SPAN CLEARANCE |
| 228   | AP 263   | DD+9 (ICE)    | 3                        | 620047.52     | 3158938.97     | 1869.17         | 18° 3' 21"LT          |          | 683.15             | 465.80        | 694.00                    | -922.00 | -228.00 | 681.00                   | -442.00 | 239.00  |                      | TOWER TYPE UPDATED TO DD AS PER MAIL REF. FROM BSCII                 |
|       |          |               |                          |               |                |                 |                       | 248.46   |                    |               |                           |         |         |                          |         |         |                      |  |
| 229   | AP 264   | DD+9 (ICE)    | 3                        | 619893.96     | 3159134.29     | 1994.16         | 52° 7' 15"LT          |          | 248.46             | 297.46        | 1196.00                   | -300.00 | 896.00  | 717.00                   | -150.00 | 567.00  |                      | STRENGTHENING REQUIRED AS PER MAIL REF. FROM BSCII                   |
|       |          |               |                          |               |                |                 |                       | 346.46   |                    |               |                           |         |         |                          |         |         |                      |  |
| 230   | AP 266   | DC+9 (ICE)    |                          | 619547.50     | 3159132.50     | 2077.84         | 16° 9' 34"LT          |          | 346.46             | 347.10        | 652.00                    | 42.00   | 694.00  | 503.00                   | 84.00   | 587.00  |                      | STRENGTHENING NOT REQUIRED AS PER MAIL REF. FROM BSCII               |
|       |          |               |                          |               |                |                 |                       | 347.75   |                    |               |                           |         |         |                          |         |         |                      |  |
| 231   | AP 267   | DC+3 (ICE)    |                          | 619214.00     | 3159034.00     | 2104.79         | 28° 32' 42"LT         |          | 347.75             | 365.85        | 304.00                    | 68.00   | 372.00  | 264.00                   | 100.00  | 364.00  |                      |  |
|       |          |               |                          |               |                |                 |                       | 383.96   |                    |               |                           |         |         |                          |         |         |                      |  |
| 232   | AP 269   | DC+3 (ICE)    |                          | 618942.50     | 3158762.50     | 2129.26         | 24° 6' 51"RT          |          | 383.96             | 395.34        | 317.00                    | 27.00   | 344.00  | 286.00                   | 67.00   | 353.00  |                      |  |
|       |          |               |                          |               |                |                 |                       | 406.73   |                    |               |                           |         |         |                          |         |         |                      |  |
| 233   | AP 271   | DD+6 (ICE)    |                          | 618562.50     | 3158617.50     | 2163.55         | 49° 21' 36"RT         |          | 406.73             | 371.16        | 386.00                    | 105.00  | 491.00  | 347.00                   | 126.00  | 473.00  |                      |  |
|       |          |               |                          |               |                |                 |                       | 335.60   |                    |               |                           |         |         |                          |         |         |                      |  |
| 234   | AP 273   | DD+6 (ICE)    |                          | 618267.50     | 3158777.50     | 2173.72         | 35° 39' 34"RT         |          | 335.60             | 442.86        | 236.00                    | -4.00   | 232.00  | 215.00                   | 19.00   | 234.00  |                      |  |
|       |          |               |                          |               |                |                 |                       | 550.11   |                    |               |                           |         |         |                          |         |         |                      |  |
| 235   | AP 274   | DC+9 (ICE)    |                          | 618027.50     | 3159272.50     | 2300.14         | 12° 42' 29"LT         |          | 550.11             | 409.00        | 575.00                    | 980.00  | 1556.00 | 552.00                   | 627.00  | 1179.00 |                      | TENSION VALUE IS RELAXED IN CONDUCTOR TO MAINTAIN MID SPAN CLEARANCE |
|       |          |               |                          |               |                |                 |                       | 267.89   |                    |               |                           |         |         |                          |         |         |                      | STRENGTHENING REQUIRED AS PER MAIL REF. FROM BSCII                   |
| 236   | AP 275   | DC+9 (ICE)    |                          | 617860.46     | 3159481.93     | 2197.93         | 5° 40' 44"RT          |          | 267.89             | 256.35        | -694.00                   | 949.00  | 255.00  | -340.00                  | 577.00  | 237.00  |                      | STRENGTHENING REQUIRED AS PER MAIL REF. FROM BSCII                   |
|       |          |               |                          |               |                |                 |                       | 244.82   |                    |               |                           |         |         |                          |         |         |                      |  |
| 237   | AP 276   | DD+0 (ICE)    |                          | 617727.50     | 3159687.50     | 2114.04         | 39° 19' 59"LT         |          | 244.82             | 327.18        | -690.00                   | -154.00 | -844.00 | -318.00                  | -84.00  | -402.00 |                      | TENSION VALUE IS RELAXED IN CONDUCTOR TO MAINTAIN MID SPAN CLEARANCE |
|       |          |               |                          |               |                |                 |                       | 409.54   |                    |               |                           |         |         |                          |         |         |                      | STRENGTHENING REQUIRED AS PER MAIL REF. FROM BSCII                   |
| 238   | AP 278   | DC+3 (ICE)    |                          | 617337.50     | 3159812.50     | 2205.47         | 5° 7' 51"LT           |          | 409.54             | 453.49        | 572.00                    | 499.00  | 1071.00 | 503.00                   | 463.00  | 966.00  |                      |  |
|       |          |               |                          |               |                |                 |                       | 497.43   |                    |               |                           |         |         |                          |         |         |                      |  |
| 239   | AP 280   | DD+3 (ICE)    |                          | 616852.12     | 3159921.35     | 2128.37         | 23° 24' 31"LT         |          | 497.43             | 459.74        | 5.00                      | 253.00  | 258.00  | 41.00                    | 244.00  | 285.00  |                      | TOWER TYPE UPDATED FROM DC TO DD TO AVOID WIND SPAN VIOLATION        |
|       |          |               |                          |               |                |                 |                       | 422.06   |                    |               |                           |         |         |                          |         |         |                      |  |
| 240   | AP 282   | DC+3 (ICE)    |                          | 616437.50     | 3159842.50     | 2121.32         | 10° 57' 28"RT         |          | 422.06             | 386.65        | 169.00                    | 757.00  | 926.00  | 178.00                   | 588.00  | 766.00  |                      | STRENGTHENING REQUIRED AS PER MAIL REF. FROM BSCII                   |
|       |          |               |                          |               |                |                 |                       | 351.24   |                    |               |                           |         |         |                          |         |         |                      |  |
| 241   | AP 283   | DC+0 (ICE)    |                          | 616086.26     | 3159843.66     | 2022.63         |                       |          | 351.24             | 305.06        | -391.00                   | 298.00  | -93.00  | -221.00                  | 226.00  | 5.00    |                      |  |
|       |          |               |                          |               |                |                 |                       | 258.88   |                    |               |                           |         |         |                          |         |         |                      |  |
| 242   | AP 284   | DC+6 (ICE)    |                          | 615827.39     | 3159844.52     | 1998.30         | 4° 8' 39"RT           |          | 258.88             | 348.81        | -38.00                    | 78.00   | 40.00   | 35.00                    | 105.00  | 140.00  |                      |  |
|       |          |               |                          |               |                |                 |                       | 438.74   |                    |               |                           |         |         |                          |         |         |                      |  |
| 243   | AP 286   | DC+0 (ICE)    |                          | 615389.91     | 3159877.68     | 2040.12         | 22° 43' 14"RT         |          | 438.74             | 358.03        | 365.00                    | 283.00  | 648.00  | 338.00                   | 224.00  | 562.00  |                      |  |
|       |          |               |                          |               |                |                 |                       | 277.32   |                    |               |                           |         |         |                          |         |         |                      |  |
| 244   | AP 287   | DC+6 (ICE)    |                          | 615142.93     | 3160003.81     | 2017.36         | 23° 5' 58"LT          |          | 277.32             | 296.32        | -5.00                     | 174.00  | 169.00  | 54.00                    | 168.00  | 222.00  |                      |  |
|       |          |               |                          |               |                |                 |                       | 315.33   |                    |               |                           |         |         |                          |         |         |                      |  |
| 245   | AP 288   | DC+6 (ICE)    |                          | 614828.35     | 3160025.56     | 2015.23         | 13° 4' 52"RT          |          | 315.33             | 416.97        | 141.00                    | 258.00  | 399.00  | 148.00                   | 259.00  | 407.00  |                      |  |
|       |          |               |                          |               |                |                 |                       | 518.61   |                    |               |                           |         |         |                          |         |         |                      |  |
| 246   | AP 290   | DC+9 (ICE)    | 1.5                      | 614332.50     | 3160177.50     | 2011.77         | 8° 49' 1"LT           |          | 518.61             | 486.64        | 264.00                    | 138.00  | 402.00  | 264.00                   | 152.00  | 416.00  |                      | TENSION VALUE IS RELAXED IN CONDUCTOR TO MAINTAIN MID SPAN CLEARANCE |
|       |          |               |                          |               |                |                 |                       | 454.67   |                    |               |                           |         |         |                          |         |         |                      |  |
| 247   | AP 292   | DD+6 (ICE)    |                          | 613882.50     | 3160242.50     | 2041.46         | 37° 13' 41"RT         |          | 454.67             | 311.85        | 321.00                    | 320.00  | 641.00  | 308.00                   | 190.00  | 498.00  |                      | TENSION VALUE IS RELAXED IN CONDUCTOR TO MAINTAIN MID SPAN CLEARANCE |



  
 Ch. Manager  
 POWERGRID, AALO

  
 Sunil Kumar  
 Chief Manager  
 CSST&DS, Along  
 Powergrid Corp. Of India Ltd.

| SLNo | Loc.No. | Type of Tower | RAISED CHIMNEY/B ENCHING | Easting X (m) | Northing Y (m) | Elevation Z (m) | Deviation Angle (Deg) | Span (m) | Section Length (m) | Wind Span (m) | Weight Span in Mtr (Cold) |         |         | Weight Span in Mtr (Hot) |         |         | Remarks & Crossings. |   |
|------|---------|---------------|--------------------------|---------------|----------------|-----------------|-----------------------|----------|--------------------|---------------|---------------------------|---------|---------|--------------------------|---------|---------|----------------------|---|
|      |         |               |                          |               |                |                 |                       |          |                    |               | Left                      | Right   | Total   | Left                     | Right   | Total   |                      |   |
|      |         |               |                          |               |                |                 |                       | 169.04   |                    |               |                           |         |         |                          |         |         |                      |   |
| 248  | AP 293  | DC+0 (ICE)    |                          | 613763.91     | 3160362.96     | 2033.11         | 29° 9' 40"RT          | 169.04   |                    | 260.47        | -146.00                   | 177.00  | 31.00   | -16.00                   | 177.00  | 161.00  |                      |   |
|      |         |               |                          |               |                |                 |                       | 351.90   |                    |               |                           |         |         |                          |         |         |                      |   |
| 249  | AP 295  | DC+0 (ICE)    |                          | 613670.51     | 3160702.23     | 2032.94         | 21° 50' 43"LT         | 351.90   |                    | 329.25        | 175.00                    | 325.00  | 500.00  | 176.00                   | 259.00  | 435.00  |                      | river   |
|      |         |               |                          |               |                |                 |                       | 306.60   |                    |               |                           |         |         |                          |         |         |                      |   |
| 250  | AP 296  | DD+0 (ICE)    |                          | 613484.98     | 3160946.33     | 2008.31         | 55° 47' 57"LT         | 306.60   |                    | 279.34        | -22.00                    | 41.00   | 19.00   | 45.00                    | 79.00   | 124.00  |                      |   |
|      |         |               |                          |               |                |                 |                       | 252.08   |                    |               |                           |         |         |                          |         |         |                      |   |
| 251  | AP 297  | DD+3 (ICE)    |                          | 613233.26     | 3160932.98     | 2014.19         | 37° 6' 27"RT          | 252.08   |                    | 323.45        | 210.00                    | 262.00  | 472.00  | 173.00                   | 247.00  | 420.00  |                      |   |
|      |         |               |                          |               |                |                 |                       | 394.81   |                    |               |                           |         |         |                          |         |         |                      |   |
| 252  | AP 299  | DC+0 (ICE)    |                          | 612906.22     | 3161154.16     | 2006.67         | 7° 46' 48"RT          | 394.81   |                    | 337.02        | 137.00                    | -22.00  | 115.00  | 151.00                   | 44.00   | 195.00  |                      | river   |
|      |         |               |                          |               |                |                 |                       | 279.22   |                    |               |                           |         |         |                          |         |         |                      |   |
| 253  | AP 300  | DD+0 (ICE)    |                          | 612698.24     | 3161340.46     | 2023.46         | 46° 9' 17"RT          | 279.22   |                    | 365.77        | 305.00                    | 478.00  | 783.00  | 239.00                   | 434.00  | 673.00  |                      |   |
|      |         |               |                          |               |                |                 |                       | 452.32   |                    |               |                           |         |         |                          |         |         |                      |   |
| 254  | AP 302  | DC+0 (ICE)    |                          | 612682.50     | 3161792.50     | 1960.82         | 10° 38' 23"LT         | 452.32   |                    | 374.76        | -17.00                    | -326.00 | -343.00 | 27.00                    | -141.00 | -114.00 |                      |   |
|      |         |               |                          |               |                |                 |                       | 297.20   |                    |               |                           |         |         |                          |         |         |                      |   |
| 255  | AP 303  | DC+3 (ICE)    |                          | 612617.50     | 3162082.50     | 2019.17         | 7° 47' 22"RT          | 297.20   |                    | 296.63        | 630.00                    | 612.00  | 1242.00 | 445.00                   | 432.00  | 877.00  |                      | STRENGTHENING REQUIRED AS PER MAIL PER PROBLECCO  |
|      |         |               |                          |               |                |                 |                       | 296.06   |                    |               |                           |         |         |                          |         |         |                      |   |
| 256  | AP 304  | DC+0 (ICE)    |                          | 612592.50     | 3162377.50     | 1963.53         | 27° 0' 18"LT          | 296.06   |                    | 342.27        | -310.00                   | 123.00  | -187.00 | -131.00                  | 141.00  | 10.00   |                      | CANAL   |
|      |         |               |                          |               |                |                 |                       | 388.49   |                    |               |                           |         |         |                          |         |         |                      |   |
| 257  | AP 306  | DC+3 (ICE)    |                          | 612387.50     | 3162707.50     | 1974.60         | 12° 56' 24"LT         | 388.49   |                    | 325.86        | 264.00                    | 284.00  | 548.00  | 247.00                   | 219.00  | 466.00  |                      |   |
|      |         |               |                          |               |                |                 |                       | 263.22   |                    |               |                           |         |         |                          |         |         |                      |   |
| 258  | AP 307  | DC+3 (ICE)    |                          | 612202.06     | 3162894.31     | 1957.83         | 12° 16' 45"RT         | 263.22   |                    | 279.07        | -20.00                    | 148.00  | 128.00  | 45.00                    | 148.00  | 193.00  |                      |   |
|      |         |               |                          |               |                |                 |                       | 294.91   |                    |               |                           |         |         |                          |         |         |                      |   |
| 259  | AP 308  | DC+0 (ICE)    |                          | 612043.56     | 3163143.01     | 1960.86         | 19° 56' 31"RT         | 294.91   |                    | 302.15        | 148.00                    | 309.00  | 457.00  | 149.00                   | 253.00  | 402.00  |                      | 11KV LINE   |
|      |         |               |                          |               |                |                 |                       | 309.39   |                    |               |                           |         |         |                          |         |         |                      |   |
| 260  | AP 309  | DD+3 (ICE)    |                          | 611976.24     | 3163444.98     | 1935.28         | 42° 47' 58"RT         | 309.39   |                    | 364.48        | 5.00                      | 257.00  | 262.00  | 61.00                    | 248.00  | 309.00  |                      |   |
|      |         |               |                          |               |                |                 |                       | 419.58   |                    |               |                           |         |         |                          |         |         |                      |   |
| 261  | AP 310  | DD+6 (ICE)    |                          | 612187.50     | 3163807.50     | 1921.51         | 28° 19' 21"LT         | 419.58   |                    | 417.88        | 164.00                    | 205.00  | 369.00  | 174.00                   | 206.00  | 380.00  |                      | MUD ROAD, DRAIN<br>TOWER TYPE UPDATED FROM DC TO DD TO AVOID WIND SPAN VOIATION<br>River, road      |
|      |         |               |                          |               |                |                 |                       | 416.18   |                    |               |                           |         |         |                          |         |         |                      |   |
| 262  | AP 312  | DC+9 (ICE)    |                          | 612201.37     | 3164223.45     | 1921.65         | 6° 16' 20"RT          | 416.18   |                    | 357.89        | 210.00                    | -64.00  | 146.00  | 210.00                   | 19.00   | 229.00  |                      |   |
|      |         |               |                          |               |                |                 |                       | 299.60   |                    |               |                           |         |         |                          |         |         |                      |   |
| 263  | AP 313  | DD+9 (ICE)    |                          | 612244.00     | 3164520.00     | 1945.76         | 48° 59' 47"LT         | 299.60   |                    | 222.47        | 363.00                    | -296.00 | 67.00   | 280.00                   | -70.00  | 210.00  |                      |   |
|      |         |               |                          |               |                |                 |                       | 145.34   |                    |               |                           |         |         |                          |         |         |                      |   |
| 264  | AP 314  | DC+9 (ICE)    |                          | 612149.00     | 3164630.00     | 1970.45         | 16° 30' 8"LT          | 145.34   |                    | 269.90        | 439.00                    | 124.00  | 563.00  | 213.00                   | 142.00  | 355.00  |                      |   |
|      |         |               |                          |               |                |                 |                       | 394.45   |                    |               |                           |         |         |                          |         |         |                      |   |
| 265  | AP 316  | DC+3 (ICE)    |                          | 611817.00     | 3164843.00     | 1991.54         | 6° 4' 20"RT           | 394.45   |                    | 408.49        | 271.00                    | 175.00  | 446.00  | 253.00                   | 182.00  | 435.00  |                      | Pipeline  |
|      |         |               |                          |               |                |                 |                       | 422.53   |                    |               |                           |         |         |                          |         |         |                      |   |
| 266  | AP 318  | DD+9 (ICE)    |                          | 611487.50     | 3165107.50     | 1992.16         | 39° 38' 57"LT         | 422.53   |                    | 419.54        | 247.00                    | 333.00  | 580.00  | 240.00                   | 306.00  | 546.00  |                      | TENSION VALUE IS RELAXED IN CONDUCTOR TO MAINTAIN MID SPAN CLEARANCE BETWEEN OPGW AND TOP CONDUCTOR |
|      |         |               |                          |               |                |                 |                       | 416.55   |                    |               |                           |         |         |                          |         |         |                      | Road,11kv line  |



  
 Ch. Manager  
 POWERGRID, AALO

  
 Sunil Kumar  
 Chief Manager  
 CSST&DS, Along  
 Powergrid Corp. Of India Ltd.

| Sl.No | Loc. No. | Type of Tower | RAISED CHIMNEY/BENCHING | Easting X (m) | Northing Y (m) | Elevation Z (m) | Deviation Angle (Deg) | Span (m)         | Section Length (m) | Wind Span (m) | Weight Span in Mtr (Cold) |        |         | Weight Span in Mtr (Hot) |        |        | Remarks & Crossings.  |
|-------|----------|---------------|-------------------------|---------------|----------------|-----------------|-----------------------|------------------|--------------------|---------------|---------------------------|--------|---------|--------------------------|--------|--------|---|
|       |          |               |                         |               |                |                 |                       |                  |                    |               | Left                      | Right  | Total   | Left                     | Right  | Total  |   |
| 267   | AP 320   | DD+0 (ICE)    |                         | 611071.00     | 3165101.00     | 1972.92         | 29° 13' 56"LT         |                  | 416.55             | 366.67        | 81.00                     | 534.00 | 615.00  | 109.00                   | 398.00 | 507.00 | TOWER TYPE UPDATED FROM DC TO DD TO AVOID WIND SPAN VOILATION. River ,11kV Line |
|       |          |               |                         |               |                |                 |                       | 316.79           |                    |               |                           |        |         |                          |        |        |   |
| 268   | AP 321   | DC+0 (ICE)    |                         | 610797.00     | 3164942.00     | 1924.20         | 18° 54' 26"LT         |                  | 316.79             | 268.98        | -215.00                   | 76.00  | -139.00 | -79.00                   | 92.00  | 13.00  |   |
|       |          |               |                         |               |                |                 |                       | 221.17           |                    |               |                           |        |         |                          |        |        |   |
| 269   | AP 322   | DD+0 (ICE)    |                         | 610652.00     | 3164775.00     | 1924.78         | 5° 56' 11"LT          |                  | 221.17             | 134.36        | 145.00                    | 0.00   | 145.00  | 128.00                   | 0.00   | 128.00 |   |
|       |          |               |                         |               |                |                 |                       | 47.56            |                    |               |                           |        |         |                          |        |        |   |
| 270   | Gantry   | Gantry        |                         | 610624.70     | 3164736.06     | 1925.59         |                       |                  | 47.56              | 23.78         | -                         | -      | -       | -                        | -      | -      |   |
|       |          |               |                         |               |                |                 | <b>Total Length=</b>  | <b>91921.393</b> |                    |               |                           |        |         |                          |        |        |   |

NOTE: STRENGTHENING IS CHECKED IN PLS-CADD AGAINST THE CLIMATIC CONDITIONS 75DEG-NIL WIN/32DEG-NILWIND/-10DEG-NIL WIND

| FOR LARSEN & TOUBRO LIMITED |            |              | FOR POWER GRID CORPORATION OD INDIA LIMITED |             |  |
|-----------------------------|------------|--------------|---|-------------|--|
| SURVEYED BY                 | CHECKED BY | SUBMITTED BY | RECOMMENDED BY                              | APPROVED BY |  |



06/05/24  
**Daya Ram**  
 Chief Manager  
 POWERGRID, AALO

**Sunil Kumar**  
 Chief Manager  
 CSST&DS, Along  
 Powergrid Corp. Of India Ltd.


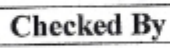
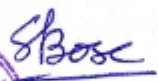
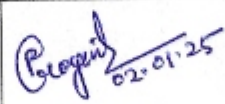
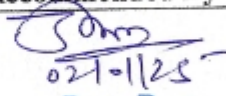
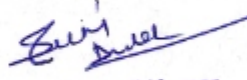
**Sunil Kumar**  
 Chief Manager  
 CSST&DS, Along  
 Powergrid Corp. Of India Ltd.

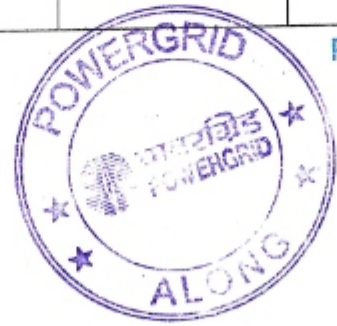
**POWER GRID CORPORATION OF INDIA LTD.**

OWNER: TRANSMISSION LINE TOWER PACKAGE FOR TW26 FOR 132KV SIC LINE (ON DIC TOWER) UNDER  
 PROJECT: COMPREHENSIVE SCHEME FOR STRENGTHENING OF TRANSMISSION & DISTRIBUTION  
 SYSTEM IN NER & SIKKIM: INTRA-STATE: ARUNACHAL PRADESH  
 LINE: 1. 132KV SIC (on DIC tower) Kambang-Mechuka TL

| AS PER DETAIL SURVEY REV.3 |          |               |                         |               |                |                 |                       |               |  | AS PER DETAIL SURVEY REV.4 |          |               |                    |                          |       |       |       |                |               |                |                 |                       |          |               |                           |        |         |                          |        |        |                     |  |  |
|----------------------------|----------|---------------|-------------------------|---------------|----------------|-----------------|-----------------------|---------------|--|----------------------------|----------|---------------|--------------------|--------------------------|-------|-------|-------|----------------|---------------|----------------|-----------------|-----------------------|----------|---------------|---------------------------|--------|---------|--------------------------|--------|--------|---------------------|--|--|
| SLNo                       | Loc. No. | Type of Tower | RAISED CHIMNEY/BENCHING | Easting X (m) | Northing Y (m) | Elevation Z (m) | Deviation Angle (Deg) | Span (m)      | Remarks & Crossings                                    | SL No                      | Loc. No. | Type of Tower | CP LEVE L UP/D OWN | INDIVIDUAL LEG EXTENSION |       |       |       | RAISED CHIMNEY | Easting X (m) | Northing Y (m) | Elevation Z (m) | Deviation Angle (Deg) | Span (m) | Wind Span (m) | Weight Span in Mtr (Cold) |        |         | Weight Span in Mtr (Hot) |        |        | Remarks & Crossings |  |  |
|                            |          |               |                         |               |                |                 |                       |               |  |                            |          |               |                    | LEG A                    | LEG B | LEG C | LEG D |                |               |                |                 |                       |          |               | Left                      | Right  | Total   | Left                     | Right  | Total  |                     |  |  |
| 1                          | AP 37    | DC+6          |                         | 664047.50     | 3137037.50     | 409.76          | 19° 30' 26" RT        |               | STRENGTHENING NOT REQUIRED AS PER MAIL REC. FROM PGCIL | 1                          | AP 37    | DC+6          | 0                  | +9                       | +9    | -6    | +6    | A PIT 3M R.C.  | 664047.50     | 3137037.50     | 409.76          | 15° 1' 42" RT         |          | 428.62        |                           | 728.00 | 261.00  | 989.00                   | 511.00 | 262.00 | 773.00              | STRENGTHENING CHECK NOT REQUIRED AS PER MAIL REC. FROM PGCIL |  |
|                            |          |               |                         |               |                |                 |                       | 541.20        |  |                            |          |               |                    |                          |       |       |       |                |               |                |                 |                       |          |               |                           |        |         |                          |        |        |                     |  |  |
| 2                          | AP 39    | DC+9          |                         | 664297.50     | 3137517.50     | 405.91          | 15° 12' 12" LT        |               |  | 2                          | AP 39    | DC+12         | -4                 | 18                       | 18    | 18    | 18    | A PIT 3M R.C.  | 664297.50     | 3137517.50     | 405.91          | 15° 12' 13" LT        |          | 406.03        |                           | 284.00 | -164.00 | 120.00                   | 283.00 | -34.00 | 249.00              | 4m CP DOWN   |  |
|                            |          |               |                         |               |                |                 |                       | 270.86        |  |                            |          |               |                    |                          |       |       |       |                |               |                |                 |                       |          |               |                           |        |         |                          |        |        |                     |  |  |
| 3                          | AP 40    | DC+0          |                         | 664355.24     | 3137782.13     | 447.69          | 15° 44' 33" RT        |               |  | 3                          | AP 40    | DC+0          | 0                  | 0                        | 0     | 0     |       |                | 654355.24     | 3137782.13     | 447.69          | 15° 44' 33" RT        |          |               |                           | 249.24 | 437.00  | 17.00                    | 454.00 | 306.00 | 64.00               | 370.00   |  |
|                            |          |               |                         |               |                |                 |                       | TOTAL= 812.06 |  |                            |          |               |                    |                          |       |       |       |                |               |                |                 |                       |          |               |                           |        |         |                          |        |        |                     |  |  |
|                            |          |               |                         |               |                |                 |                       |               |  |                            |          |               |                    |                          |       |       |       |                |               |                |                 |                       |          |               |                           |        |         |                          |        |        |                     |  |  |

NOTE: STRENGTHENING IS CHECKED IN PLS-CADD AGAINST THE CLIMATIC CONDITIONS 75DEG-NIL WIND/32DEG-NILWIND/0DEG-NIL WIND

| For L&T   |   |   | For PGCIL   |   |  |  |
|---|---|---|---|---|--|--|
| Surveyed By   | Checked By  | Submitted By  | Checked By  | Recommended By  | Approved By  |  |
|  |  |  |  | <br>Daya Ram<br>Chief Manager<br>POWERGRID, AALO | <br>Sunil Kumar<br>Chief Manager<br>CSST&DS, Along<br>Powergrid Corp. Of India Ltd. |  |



**PROGRESS**

|                   |                      |
|-------------------|----------------------|
| <b>Foundation</b> | 10 / 269             |
| <b>Erection</b>   | 1 / 269              |
| <b>Earthing</b>   | 0 / 269              |
| <b>Stringing</b>  | 0.000 km / 91.813 km |

**132 kV S/C Kambang - Mechuka line**

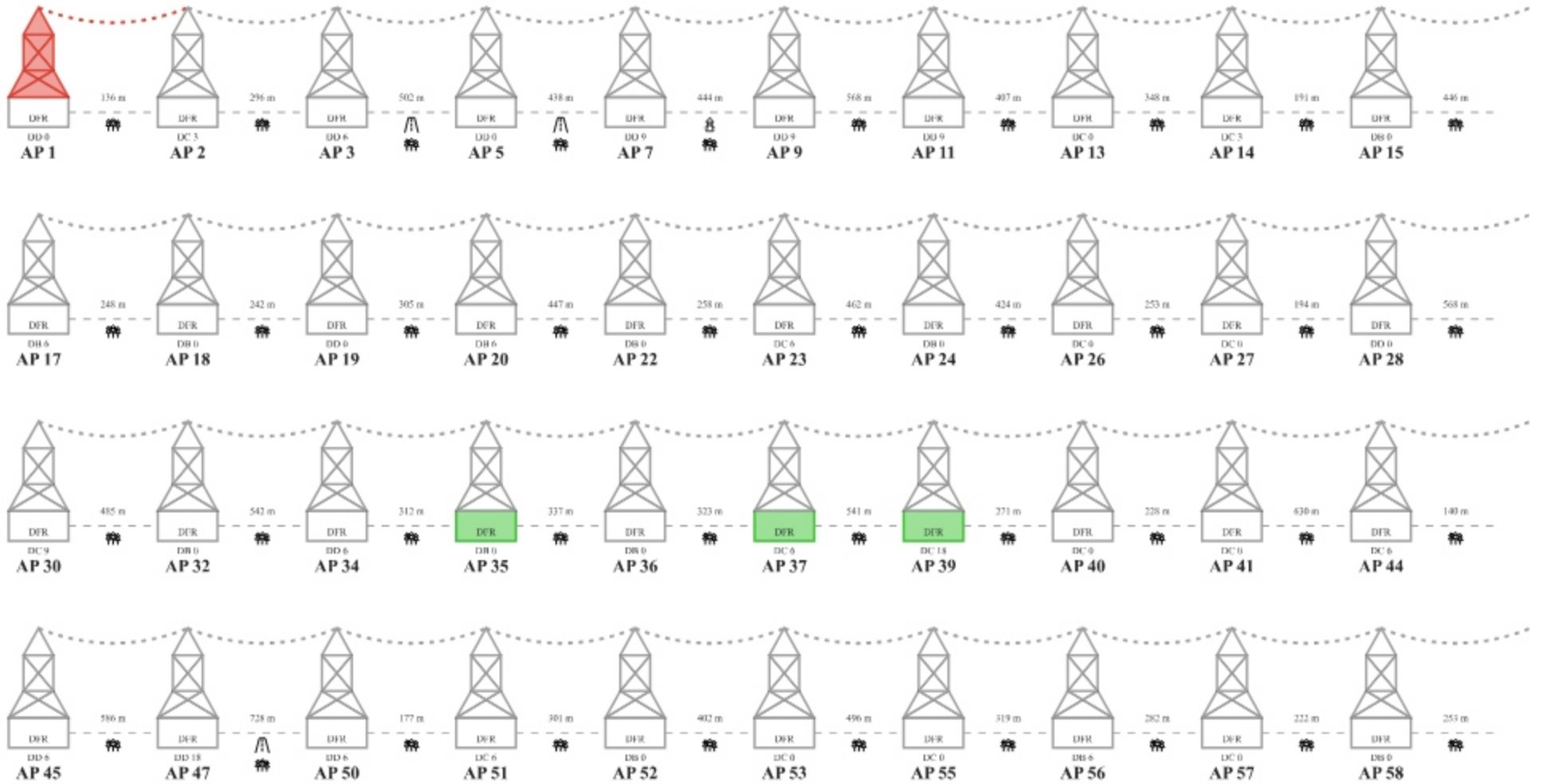
LARSEN And TOUBRO LIMITED

Page 1 / 7 (Locations: AP 1 to AP 58)

Progress data as on Tuesday, June 9, 2026

**LEGEND**

| Crossings |                    | Status |               |
|-----------|--------------------|--------|---------------|
|           | Road Crossing      |        | Completed     |
|           | Rail Crossing      |        | In Progress   |
|           | River Crossing     |        | Right of Way  |
|           | Powerline Crossing |        | Earthing Done |
|           | Forest Crossing    |        |               |



**PROGRESS**

|                   |                      |
|-------------------|----------------------|
| <b>Foundation</b> | 10 / 269             |
| <b>Erection</b>   | 1 / 269              |
| <b>Earthing</b>   | 0 / 269              |
| <b>Stringing</b>  | 0.000 km / 91.813 km |

**132 kV S/C Kambang - Mechuka line**

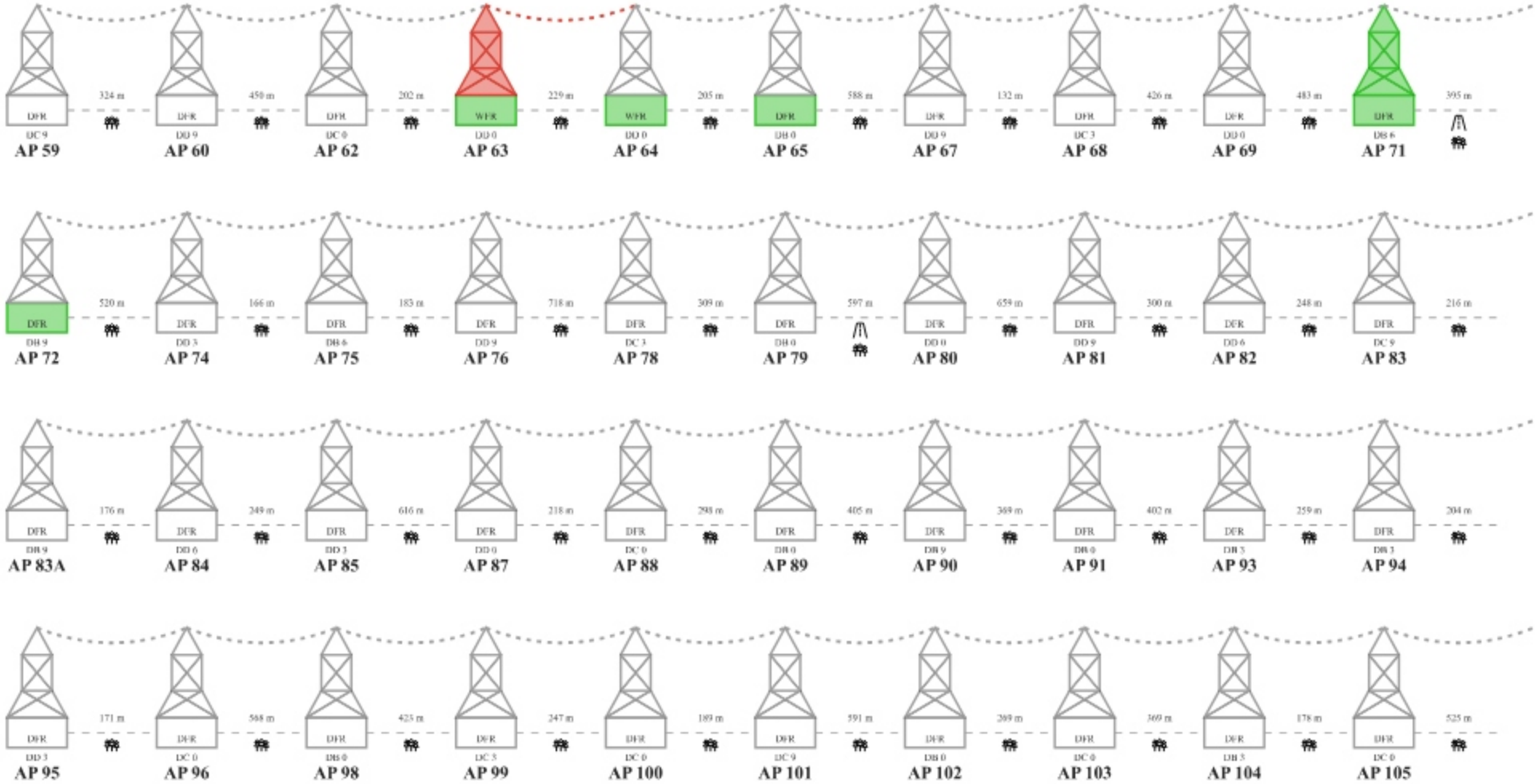
LARSEN And TOUBRO LIMITED

Page 2 / 7 (Locations: AP 59 to AP 105)

Progress data as on Tuesday, June 9, 2026

**LEGEND**

| Crossings |                    | Status |               |
|-----------|--------------------|--------|---------------|
|           | Road Crossing      |        | Completed     |
|           | Rail Crossing      |        | In Progress   |
|           | River Crossing     |        | Right of Way  |
|           | Powerline Crossing |        | Earthing Done |
|           | Forest Crossing    |        |               |



**PROGRESS**

|                   |                      |
|-------------------|----------------------|
| <b>Foundation</b> | 10 / 269             |
| <b>Erection</b>   | 1 / 269              |
| <b>Earthing</b>   | 0 / 269              |
| <b>Stringing</b>  | 0.000 km / 91.813 km |

**132 kV S/C Kambang - Mechuka line**

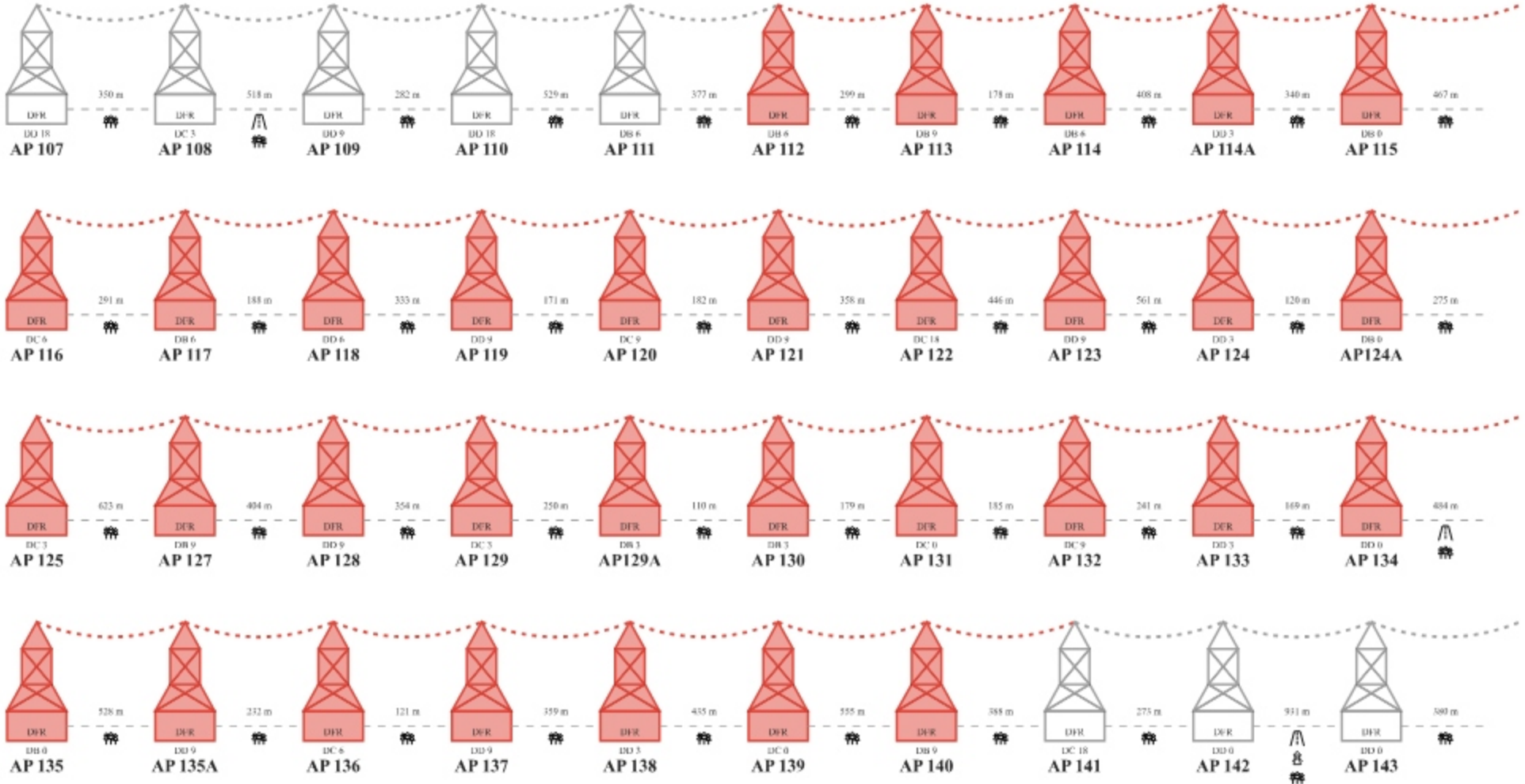
LARSEN And TOUBRO LIMITED

Page 3 / 7 (Locations: AP 107 to AP 143)

Progress data as on Tuesday, June 9, 2026

**LEGEND**

| Crossings |                    | Status |               |
|-----------|--------------------|--------|---------------|
|           | Road Crossing      |        | Completed     |
|           | Rail Crossing      |        | In Progress   |
|           | River Crossing     |        | Right of Way  |
|           | Powerline Crossing |        | Earthing Done |
|           | Forest Crossing    |        |               |



**PROGRESS**

|                   |                      |
|-------------------|----------------------|
| <b>Foundation</b> | 10 / 269             |
| <b>Erection</b>   | 1 / 269              |
| <b>Earthing</b>   | 0 / 269              |
| <b>Stringing</b>  | 0.000 km / 91.813 km |

**132 kV S/C Kambang - Mechuka line**

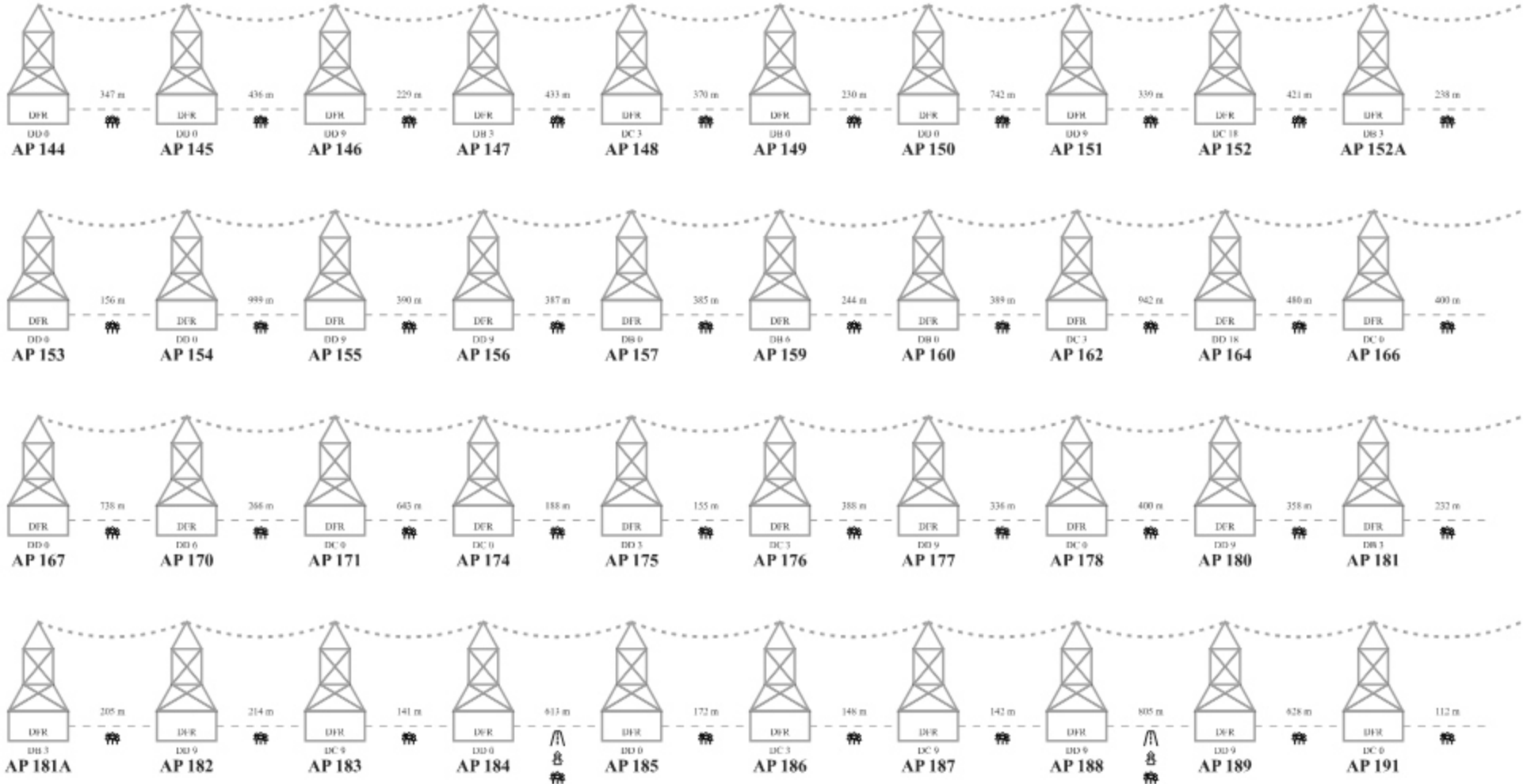
LARSEN And TOUBRO LIMITED

Page 4 / 7 (Locations: AP 144 to AP 191)

Progress data as on Tuesday, June 9, 2026

**LEGEND**

| Crossings |                    | Status |               |
|-----------|--------------------|--------|---------------|
|           | Road Crossing      |        | Completed     |
|           | Rail Crossing      |        | In Progress   |
|           | River Crossing     |        | Right of Way  |
|           | Powerline Crossing |        | Farthing Done |
|           | Forest Crossing    |        |               |



**PROGRESS**

|                   |                      |
|-------------------|----------------------|
| <b>Foundation</b> | 10 / 269             |
| <b>Erection</b>   | 1 / 269              |
| <b>Earthing</b>   | 0 / 269              |
| <b>Stringing</b>  | 0.000 km / 91.813 km |

**132 kV S/C Kambang - Mechuka line**

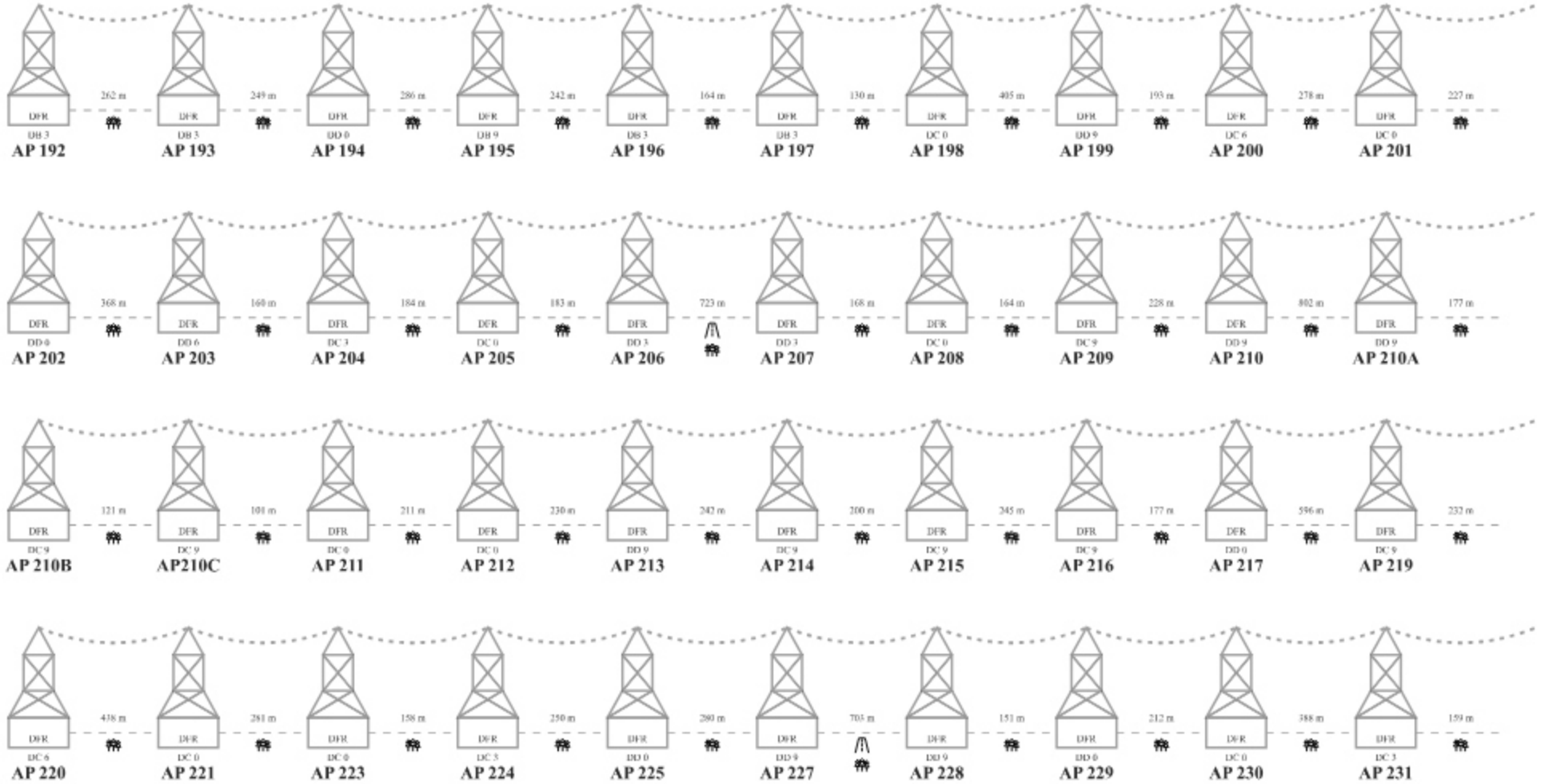
LARSEN And TOUBRO LIMITED

Page 5 / 7 (Locations: AP 192 to AP 231)

Progress data as on Tuesday, June 9, 2026

**LEGEND**

| Crossings |                    | Status |               |
|-----------|--------------------|--------|---------------|
|           | Road Crossing      |        | Completed     |
|           | Rail Crossing      |        | In Progress   |
|           | River Crossing     |        | Right of Way  |
|           | Powerline Crossing |        | Farthing Done |
|           | Forest Crossing    |        |               |



**PROGRESS**

|                   |                      |
|-------------------|----------------------|
| <b>Foundation</b> | 10 / 269             |
| <b>Erection</b>   | 1 / 269              |
| <b>Earthing</b>   | 0 / 269              |
| <b>Stringing</b>  | 0.000 km / 91.813 km |

**132 kV S/C Kambang - Mechuka line**

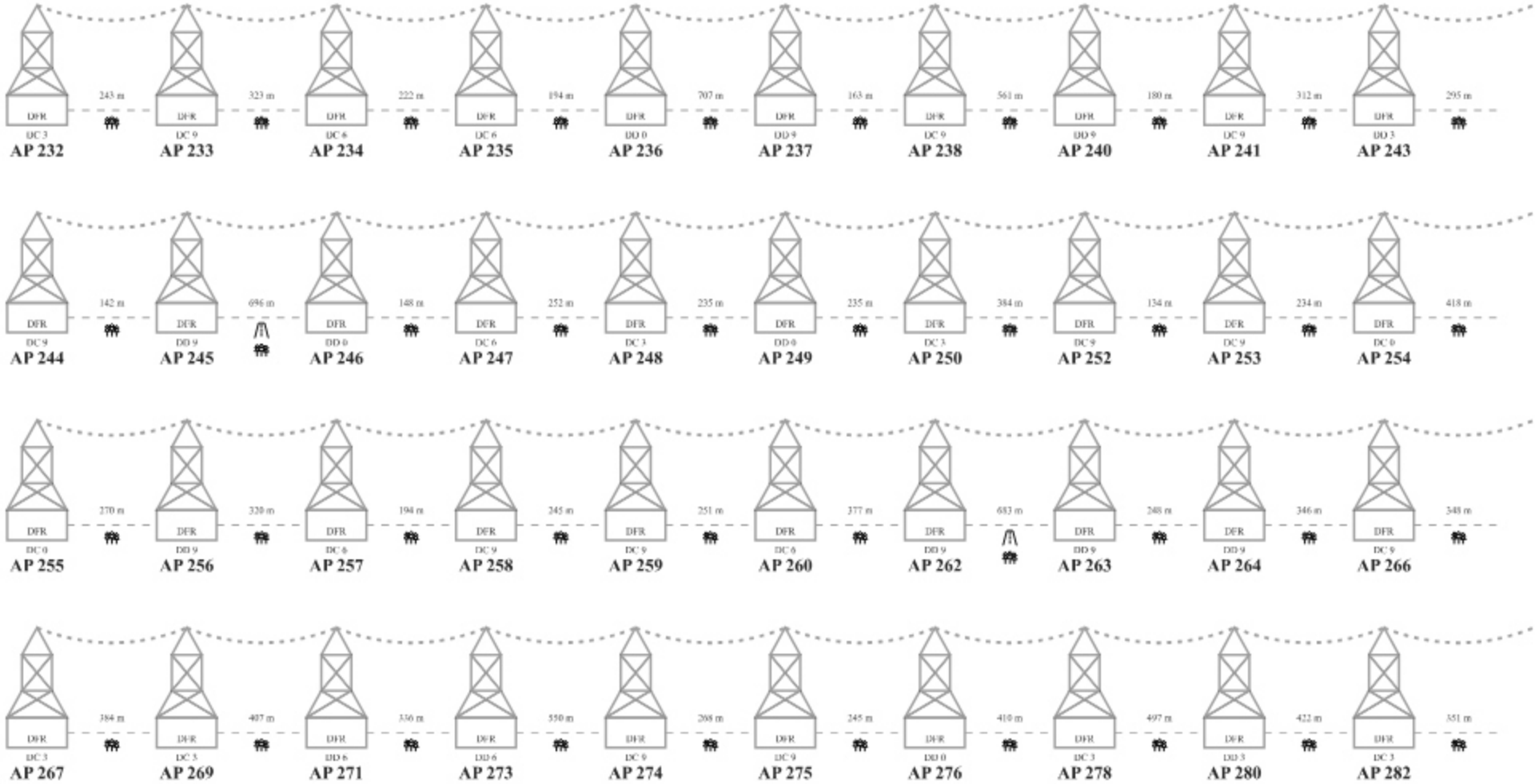
LARSEN And TOUBRO LIMITED

Page 6 / 7 (Locations: AP 232 to AP 282)

Progress data as on Tuesday, June 9, 2026

**LEGEND**

| Crossings |                    | Status |               |
|-----------|--------------------|--------|---------------|
|           | Road Crossing      |        | Completed     |
|           | Rail Crossing      |        | In Progress   |
|           | River Crossing     |        | Right of Way  |
|           | Powerline Crossing |        | Farthing Done |
|           | Forest Crossing    |        |               |



**PROGRESS**

|                   |                      |
|-------------------|----------------------|
| <b>Foundation</b> | 10 / 269             |
| <b>Erection</b>   | 1 / 269              |
| <b>Earthing</b>   | 0 / 269              |
| <b>Stringing</b>  | 0.000 km / 91.813 km |

**132 kV S/C Kambang - Mechuka line**

LARSEN And TOUBRO LIMITED

Page 7 / 7 (Locations: AP 283 to AP 322)

Progress data as on Tuesday, June 9, 2026

**LEGEND**

| Crossings |                    | Status |               |
|-----------|--------------------|--------|---------------|
|           | Road Crossing      |        | Completed     |
|           | Rail Crossing      |        | In Progress   |
|           | River Crossing     |        | Right of Way  |
|           | Powerline Crossing |        | Earthing Done |
|           | Forest Crossing    |        |               |

