

S-L.

## DETAILED SURVEY TOWER SCHEDULE

LINE NAME: 220 KV D/C Transmission line from upcoming  
400/220kv Sonapur GIS to 220 KV S/S at  
TATA Semiconductor Plant.

| SL NO | TOWER NO | TYPE OF TOWER   | REMARKS                                     | ANGLE OF DEVIATION | SPAN IN (M) | SEC LENG | CUMLTV. LENGTH | R.L   | SUM OF ADJ | WIND SPAN | WEIGHT SPAN IN (HOT) |       |        | WEIGHT SPAN IN (COLD) |       |        | Tension | TENTATIVE FOUNDATION TYPE | MAJOR CROSSING DETAIL                                                          | VILL NAME   | GPS CO-ORDINATE |             |
|-------|----------|-----------------|---------------------------------------------|--------------------|-------------|----------|----------------|-------|------------|-----------|----------------------|-------|--------|-----------------------|-------|--------|---------|---------------------------|--------------------------------------------------------------------------------|-------------|-----------------|-------------|
|       |          |                 |                                             |                    |             |          |                |       |            |           | LEFT                 | RIGHT | TOTAL  | LEFT                  | RIGHT | TOTAL  |         |                           |                                                                                |             | LONGITUDE       | LATITUDE    |
| 1     |          | Gantry          | Gantry at Sonapur S/S                       |                    | 137.2       |          |                | 76.56 | 50         | 25        |                      |       |        |                       |       |        |         |                           | Fencing, Boundary, Road, 220 KV DIC SARUSAJAI-SAMAGURI TL. LILO at SONAPUR S/S | CHHAMTAGAON | 92°00.30"       | 26°7'53.54" |
| 2     | 1/0      | Composite Tower | UG Cable Route Suggested from Gantry to 1/0 | 53°01'00"LT        | 215         | 50       | 50             | 72.85 | 265        | 132.5     |                      | 74.44 | 74.44  |                       | 38.71 | 38.71  |         | PS                        | Temporary Shed                                                                 | CHHAMTAGAON | 92°02.87"       | 26°7'55.9"  |
| 3     | 2/0      | DB+3            |                                             | 08°15'23"RT        | 265         | 215      | 265            | 73.93 | 484        | 242       | 140.56               | 76.47 | 217.03 | 176.29                | 13.76 | 190.05 |         | WET                       |                                                                                | CHHAMTAGAON | 92°06.3"        | 26°8'3"     |

|                                                                                   |                         |                                                                                   |                                                                                   |                         |
|-----------------------------------------------------------------------------------|-------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------|
|  |                         |  |  |                         |
| Checked By<br>AM (P&D)                                                            | Checked By<br>DGM (P&D) | Checked By<br>AGM (P&D)                                                           | Checked By<br>DGM (P&D)                                                           | Approved By<br>GM (P&D) |

APPROVED, subject to the condition that the approval conveyed herein neither relieves the contractor of his contractual obligations and his responsibilities, design details, performance particulars and conformity of the supplies with the Indian Statutory laws / IEC specifications as may be applicable, nor does limit the AEGCL's right under the contract



SURVEY & SUBMITTED BY:  
P.K.DUTTA & CO.

  
(ARNAB CHAKRABORTY)  
Asstt. General Manager  
Transmission Division  
AEGCL, Norengi, Guwahati-26

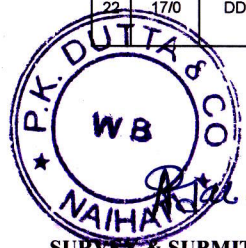
  
Deputy General Manager  
Lower Assam T&T Circle  
AEGCL, Norengi, Guwahati-26

APPROVED BY:  
A.E.G.C.L.

| SL NO | TOWER NO | TYPE OF TOWER   | REMARKS                                                               | ANGLE OF DEVIATION | SPAN IN (M) | SEC. LENG. | CUMULV. LENGTH | R.L    | WIND SPAN | WEIGHT SPAN IN (HOT) |        |        | WEIGHT SPAN IN (COLD) |        |        | Tension | TENTATIVE FOUNDATION TYPE | MAJOR CROSSING DETAIL                                                          | VILL NAME   | GPS CO-ORDINATE |              |
|-------|----------|-----------------|-----------------------------------------------------------------------|--------------------|-------------|------------|----------------|--------|-----------|----------------------|--------|--------|-----------------------|--------|--------|---------|---------------------------|--------------------------------------------------------------------------------|-------------|-----------------|--------------|
|       |          |                 |                                                                       |                    |             |            |                |        |           | LEFT                 | RIGHT  | TOTAL  | LEFT                  | RIGHT  | TOTAL  |         |                           |                                                                                |             | WGS-84          |              |
|       |          |                 |                                                                       |                    |             |            |                |        |           |                      |        |        |                       |        |        |         |                           |                                                                                |             | LONGITUDE       | LATITUDE     |
| 1     |          | Gantry          | Gantry at Sonapur S/S                                                 |                    |             |            |                | 76.56  | 25        |                      |        |        |                       |        |        |         |                           |                                                                                |             |                 |              |
| 2     | 1/0      | Composite Tower | UG Cable Route Suggested from Gantry to 1/0                           | 53°01'00"LT        | 50          | 50         |                | 72.85  | 132.5     |                      | 74.44  | 74.44  |                       | 38.71  | 38.71  |         | PS                        | Fencing, Boundary, Road, 220 KV D/C SARUSAJAI-SAMAGURI TL. LILO at SONAPUR S/S | CHHAMTAGAON | 92°0'0.91"      | 26°7'56.49"  |
| 3     | 2/0      | DB+3            |                                                                       | 08°15'23"RT        | 215         | 215        | 265            | 73.93  | 242       | 140.56               | 76.47  | 217.03 | 176.29                | 13.76  | 190.05 |         | WET                       | Temporary Shed                                                                 | CHHAMTAGAON | 92°0'2.87"      | 26°7'55.9"   |
| 4     | 3/0      | DD+12           | Used DD tower due to Railway Crossing (1.5M RC Suggested)             | 11°27'19"LT        | 269         | 269        | 534            | 72.39  | 243.5     | 192.53               | 109.32 | 301.85 | 255.24                | 109.67 | 364.90 |         | PS                        |                                                                                | CHHAMTAGAON | 92°0'6.3"       | 26°8'3"      |
| 5     | 4/0      | DD+12           | 3.00M RC Suggested                                                    | 35°50'24"RT        | 218         | 218        | 752            | 70.85  | 294.5     | 108.68               | 176.86 | 285.54 | 108.33                | 167.52 | 275.86 |         | PS                        | RAILWAY, Oil Pipe Line, Vill Road, Fishery                                     | CHHAMTAGAON | 92°0'11.3"      | 26°8'10"     |
| 6     | 5/0      | DD+12           | 3.00M RC Suggested                                                    | 42°38'02"LT        | 371         | 371        | 1123           | 72.69  | 263       | 194.14               | 116.51 | 310.65 | 203.48                | 158.65 | 362.13 |         | PS                        | Fishery                                                                        | CHHAMTAGAON | 92°0'15.54"     | 26°8'16.73"  |
| 9     | 6/0      | DD+12           | Used DD tower due to Slack Tension                                    | 05°48'16"RT        | 155         | 155        | 1278           | 72.22  | 242.5     | 38.49                | 214.38 | 252.87 | -3.65                 | 249.16 | 245.51 |         | FS                        | 132KV DC SONAPUR - BAGHJAP TL, Fishery                                         | GAMURIA     | 92°0'27.7"      | 26°8'22.2"   |
| 10    | 6/1      | DD+3            | Used DD tower due to Slack Tension                                    |                    | 330         |            |                | 69.53  | 323       | 115.62               | 160.81 | 276.43 | 80.84                 | 163.85 | 244.69 |         | FS                        | Nala                                                                           |             | 92° 0'29.43"    | 26° 8'26.83" |
| 11    | 7/0      | DC+0            |                                                                       | 27°49'12"RT        | 316         | 646        | 1924           | 72.02  | 323       | 155.19               | 118.06 | 273.25 | 152.15                | 67.35  | 219.50 |         | FS                        |                                                                                | GAMURIA     | 92° 0'40.33"    | 26° 8'45.12" |
| 12    | 7/1      | DA+6            |                                                                       |                    | 330         |            |                | 74.91  | 327       | 211.94               | 166.62 | 378.56 | 262.65                | 171.62 | 434.27 |         | PS                        |                                                                                |             |                 |              |
| 13    | 8/0      | DD+3            |                                                                       | 30°41'5"LT         | 324         | 654        | 2578           | 77.05  | 303       | 157.38               | 153.54 | 310.92 | 152.38                | 167.09 | 319.47 |         | PS                        | 2Nos 11KV, Metal Road                                                          | GAMURIA     | 92° 0'59.80"    | 26° 8'52.10" |
| 14    | 9/0      | DD+0            |                                                                       | 44°51'52"RT        | 282         | 282        | 2860           | 78.02  | 284.5     | 128.46               | 115.76 | 244.21 | 114.91                | 85.78  | 200.69 |         | WET                       | Drain                                                                          | GAMURIA     | 92° 1'4.10"     | 26° 9'5.40"  |
| 15    | 10/0     | DC+3            |                                                                       | 22°33'22"LT        | 287         | 287        | 3147           | 79.59  | 266.5     | 171.24               | 105.93 | 277.17 | 201.22                | 87.49  | 288.71 |         | WET                       | Drain, LT Line, 11KV                                                           | GAMURIA     | 92° 1'13.80"    | 26° 9'8.60"  |
| 16    | 11/0     | DD+6            | Used DD tower due to Slack Tension                                    | 28°35'36"RT        | 246         | 246        | 3393           | 79     | 261.5     | 140.07               | 7.69   | 147.76 | 158.51                | -0.60  | 157.91 |         | WET                       | 2Nos Drain                                                                     | GAMURIA     | 92° 1'20.30"    | 26° 9'14.00" |
| 17    | 12/0     | DD+3            | 2Nos. 1.50M Unequal Leg required (Used DD tower due to Slack Tension) | 00°59'57"RT        | 277         | 277        | 3670           | 151.56 | 255.5     | 269.31               | 6.61   | 275.92 | 277.60                | -0.39  | 277.21 |         | DRY                       | 11KV, Metal Road                                                               | MALOI BARI  | 92° 1'29.99"    | 26° 9'16.19" |
| 18    | 13/0     | DD+0            | Used DD tower due to Slack Tension                                    | 10°18'26"LT        | 234         | 234        | 3904           | 204.15 | 303.5     | 227.39               | 209.02 | 436.41 | 234.39                | 214.74 | 449.13 |         | DRY                       |                                                                                | MALOI BARI  | 92° 1'38.18"    | 26° 9'17.90" |
| 19    | 14/0     | DD+3            | Used DD tower due to Slack Tension                                    | 03°04'42"LT        | 373         | 373        | 4277           | 192.25 | 321       | 163.98               | 179.84 | 343.82 | 158.26                | 228.83 | 387.09 |         | DRY                       | Tea Garden, 2Nos Tea Garden Road                                               | MALOI BARI  | 92° 1'50.50"    | 26° 9'22.70" |
| 20    | 15/0     | DB+0            | 2Nos. 1.50M Unequal Leg required                                      | 02°03'41"RT        | 269         | 269        | 4546           | 188.25 | 232       | 89.16                | 117.25 | 206.41 | 40.17                 | 138.58 | 178.76 |         | DRY                       | Tea Garden                                                                     | MALOI BARI  | 92° 1'59.18"    | 26° 9'26.59" |
| 21    | 16/0     | DD+0            |                                                                       | 31°34'07"RT        | 195         | 195        | 4741           | 186.04 | 183.5     | 77.75                | 188.70 | 266.45 | 56.42                 | 195.21 | 251.63 |         | DRY                       | Tamul Plantation                                                               | CHAKURIPARA | 92° 2'5.57"     | 26° 9'29.20" |
| 22    | 17/0     | DD+6            | 2Nos. 1.50M Unequal Leg required (Used DD tower due to Slack Tension) | 25°00'11"RT        | 172         | 172        | 4913           | 146.13 | 170       | -16.70               | 173.19 | 156.49 | -23.21                | 269.56 | 246.35 |         | DRY                       | Tamul Plantation, Pond                                                         | CHAKURIPARA | 92° 2'11.70"    | 26° 9'28.50" |

Deputy General Manager (Civil)  
AEGCL, Bijulee Bhawan  
Paltanbazar, Guwahati-1

NOTED: The contractor shall be responsible for the performance, particulars and conformity of the supplies with the Indian Statutory laws / IEC specifications as may be applicable, nor does limit the AEGCL's right under the contract.



SURVEY & SUBMITTED BY  
P.K.DUTTA & CO.

(ARNAB CHAKRABORTY)  
Asstt. General Manager  
Guwahati Transmission Division  
AEGCL, Narengi, Guwahati- 26

Deputy General Manager  
Lower Assam T & T Circle  
AEGCL Narengi, Ghy-26

CHECKED BY:  
A.E.G.C.L.

|                        |                        |                         |                         |                         |
|------------------------|------------------------|-------------------------|-------------------------|-------------------------|
|                        |                        |                         |                         |                         |
| Checked By<br>AM (P&D) | Checked By<br>DM (P&D) | Checked By<br>AGM (P&D) | Checked By<br>DGM (P&D) | Approved By<br>GM (P&D) |

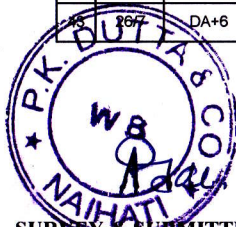
SP- Short Pilder  
C- Carlson.

APPROVED BY:  
A.E.G.C.L.

\* Change T-26/4 from A to B type.

APPROVED, subject to the condition that the approval conveyed herein neither relieves the contractor of his contractual obligations and his responsibilities, design details, performance particulars and conformity of the supplies with the Indian Statutory laws / IEC specifications as may be applicable nor does limit the A.E.G.C.L.'s right.

| SL NO | TOWER NO | TYPE OF TOWER | REMARKS                                                               | ANGLE OF DEVIATION | SPAN IN (M) | SEC. LENG. | CUMLTV. LENGTH | R.L    | WIND SPAN | WEIGHT SPAN IN (HOT) |        |        | WEIGHT SPAN IN (COLD) |        |        | Tension                           | FOUNDATION TYPE | MAJOR CROSSING DETAIL               | VILL NAME   | GPS CO-ORDINATE |              |
|-------|----------|---------------|-----------------------------------------------------------------------|--------------------|-------------|------------|----------------|--------|-----------|----------------------|--------|--------|-----------------------|--------|--------|-----------------------------------|-----------------|-------------------------------------|-------------|-----------------|--------------|
|       |          |               |                                                                       |                    |             |            |                |        |           | LEFT                 | RIGHT  | TOTAL  | LEFT                  | RIGHT  | TOTAL  |                                   |                 |                                     |             | WGS-84          |              |
|       |          |               |                                                                       |                    |             |            |                |        |           |                      |        |        |                       |        |        |                                   |                 |                                     |             | LONGITUDE       | LATITUDE     |
| 22    | 17/0     | DD+6          | 2Nos. 1.50M Unequal Leg required (Used DD tower due to Slack Tension) | 25°00'11"RT        |             |            |                | 146.13 | 170       | -16.70               | 173.19 | 156.49 | -23.21                | 269.56 | 246.35 |                                   | DRY             |                                     | CHAKURIPARA | 92° 2'11.70"    | 26° 9'28.50" |
| 23    | 18/0     | DD+15         |                                                                       | 02°12'24"RT        | 168         | 168        | 5081           | 128.53 | 212       | -5.19                | 171.63 | 166.44 | -101.56               | 218.76 | 117.21 |                                   | DRY             | LT Line, RCC Road, 11KV, Drain      | CHAKURIPARA | 92° 2'16.80"    | 26° 9'25.60" |
| 24    | 19/0     | DD+12         |                                                                       | 38°51'31"LT        | 256         | 256        | 5337           | 125.12 | 267       | 84.37                | 44.25  | 128.62 | 37.24                 | 20.19  | 57.43  | Slack Tension 1390.72KG at 32° NW | DRY             |                                     | CHAKURIPARA | 92° 2'24.40"    | 26° 9'20.90" |
| 25    | 20/0     | DD+3          | Used DD tower due to Slack Tension                                    | 22°33'48"LT        | 278         | 278        | 5615           | 162.03 | 274.5     | 233.75               | 166.75 | 400.50 | 257.81                | 200.51 | 458.31 |                                   | DRY             |                                     | CHAKURIPARA | 92° 2'34.40"    | 26° 9'21.60" |
| 26    | 21/0     | DD+3          | 2Nos. 3.00M Unequal Leg required (Used DD tower due to Slack Tension) | 00°50'11"RT        | 271         | 271        | 5886           | 157.17 | 285.5     | 104.25               | 219.71 | 323.97 | 70.49                 | 237.41 | 307.91 | Slack Tension 1390.72KG at 32° NW | DRY             | Pond                                | CHAKURIPARA | 92° 2'43.10"    | 26° 9'25.60" |
| 27    | 22/0     | DD+9          | Used DD tower due to Slack Tension                                    | 12°38'50"RT        | 300         | 300        | 6186           | 129.01 | 268.5     | 80.29                | 212.88 | 293.16 | 62.59                 | 218.86 | 281.45 | Slack Tension 695.36 KG at 32° NW | DRY             |                                     | BERARPAR    | 92° 2'52.80"    | 26° 9'29.90" |
| 28    | 23/0     | DD+9          |                                                                       | 47°07'39"RT        | 237         | 237        | 6423           | 86.07  | 268.5     | 24.12                | 213.07 | 237.19 | 18.14                 | 281.22 | 299.36 |                                   | DRY             | LT Line                             | BERARPAR    | 92° 3'1.10"     | 26° 9'31.70" |
| 29    | 24/0     | DC+3          |                                                                       | 24°51'58"RT        | 300         | 300        | 6723           | 81.21  | 291       | 86.93                | 134.27 | 221.19 | 18.78                 | 126.99 | 145.77 |                                   | PS              | 2Nos Pond, 11KV, Metal Road         | BERARPAR    | 92° 3'10.10"    | 26° 9'26.30" |
| 30    | 25/0     | DD+6          |                                                                       | 30°26'47"LT        | 282         | 282        | 7005           | 79.3   | 301       | 147.73               | 187.28 | 335.01 | 155.01                | 216.75 | 371.76 |                                   | PS              | 11KV, Drain                         | BERARPAR    | 92° 3'15.40"    | 26° 9'18.50" |
| 31    | 25/1     | DA+3          |                                                                       |                    | 320         |            |                | 77.29  | 325       | 132.72               | 180.15 | 312.87 | 103.25                | 196.52 | 299.77 |                                   | PS              | Metal Road, 2Nos 11KV               |             |                 |              |
| 32    | 25/2     | DA+3          |                                                                       |                    | 330         |            |                | 74.42  | 330       | 149.85               | 184.85 | 334.70 | 133.48                | 206.30 | 339.78 |                                   | PS              | Pond, Ditch                         |             |                 |              |
| 33    | 25/3     | DA+0          |                                                                       |                    | 330         |            |                | 73.66  | 322.5     | 145.15               | 148.93 | 294.07 | 123.70                | 139.66 | 263.36 |                                   | PS              | Pond, Low Land                      |             |                 |              |
| 34    | 25/4     | DA+0          |                                                                       |                    | 315         |            |                | 75.21  | 305       | 166.07               | 152.87 | 318.95 | 175.34                | 158.68 | 334.02 |                                   | PS              | 2Nos Drain, Ditch, Low Land         |             |                 |              |
| 35    | 25/5     | DA+0          |                                                                       |                    | 295         |            |                | 74.3   | 302.5     | 142.13               | 156.69 | 298.81 | 136.32                | 158.51 | 294.83 |                                   | PS              |                                     |             |                 |              |
| 36    | 26/0     | DC+0          | 1.5M RC Suggested                                                     | 19°25'00"LT        | 310         | 1900       | 8905           | 72.5   | 247.5     | 153.31               | 75.83  | 229.14 | 151.49                | 57.82  | 209.31 |                                   | PS              | Pond, Ditch, Drain                  | TETELIGURI  | 92° 4'15.79"    | 26° 8'49.47" |
| 37    | 26/1     | DA+3          |                                                                       |                    | 185         |            |                | 72.77  | 227.5     | 109.17               | 126.55 | 235.72 | 127.18                | 117.41 | 244.59 |                                   | FS              |                                     |             |                 |              |
| 38    | 26/2     | DA+3          |                                                                       |                    | 270         |            |                | 74.08  | 285       | 143.45               | 127.23 | 270.69 | 152.59                | 102.64 | 255.22 |                                   | FS              | Ditch, Nala, Pond                   |             |                 |              |
| 39    | 26/3     | DA+6          |                                                                       |                    | 300         |            |                | 75     | 315       | 172.77               | 190.92 | 363.69 | 197.36                | 218.93 | 416.30 |                                   | FS              |                                     |             |                 |              |
| 40    | 26/4     | DA+0          | 1.5M RC Suggested                                                     |                    | 330         |            |                | 74.59  | 325       | 139.08               | 153.36 | 292.43 | 111.07                | 146.18 | 257.25 |                                   | FS              | LT Line, Metal Road, 33KV, Low Land |             |                 |              |
| 41    | 26/5     | DA+3          |                                                                       |                    | 320         |            |                | 74.31  | 325       | 166.64               | 165.00 | 331.64 | 173.82                | 165.00 | 338.82 |                                   | FS              | Low Land                            |             |                 |              |
| 42    | 26/6     | DA+3          |                                                                       |                    | 330         |            |                | 74.31  | 330       | 165.00               | 142.19 | 307.19 | 165.00                | 117.55 | 282.55 |                                   | FS              | Drain                               |             |                 |              |
| 43    | 26/7     | DA+6          |                                                                       |                    | 330         |            |                | 75.63  | 323       | 187.81               | 181.71 | 369.52 | 212.45                | 207.33 | 419.78 |                                   | FS              | Pond, LT Line                       |             |                 |              |



(ARNAB CHAKRABORTY)  
Asstt. General Manager  
Guwahati Transmission Division  
AEGCL, Narengi, Guwahati- 26

Deputy General Manager  
Lower Assam T & T Circle  
AEGCL Narengi, Ghy-26

CHECKED BY:  
A.E.G.C.L.

|                         |                        |                         |                        |                         |
|-------------------------|------------------------|-------------------------|------------------------|-------------------------|
|                         |                        |                         |                        |                         |
| Checked By<br>AGM (P&D) | Checked By<br>DM (P&D) | Checked By<br>AGM (P&D) | Checked By<br>DM (P&D) | Approved By<br>GM (P&D) |

SP- Short Pile  
C- Caisson

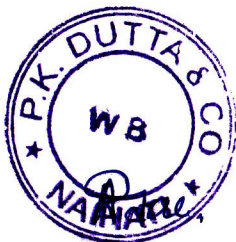
APPROVED BY:  
A.E.G.C.L.

Deputy General Manager (Civil)  
AEGCL, Bijules Bhawan  
Guwahati, Guwahati-1

\* Change T-26/12 from A to B type  
 \* Change T-27/4 from A to B type  
 \* Change T-27/7 from A to B type.

APPROVED, subject to the condition that the approval conveyed herein neither relieves the contractor of his contractual obligations and his responsibilities, design details, performance particulars and conformity of the supplies with the Indian Statutory laws / IEC specifications as may be applicable, nor does limit AEGCL's right under the contract.

| SL NO | TOWER NO | TYPE OF TOWER | REMARKS            | ANGLE OF DEVIATION | SPAN IN (M) | SEC. LENG. | CUMLTV. LENGTH | R.L   | WIND SPAN | WEIGHT SPAN IN (HOT) |        |        | WEIGHT SPAN IN (COLD) |        |        | Tension | TENTATIVE FOUNDATION TYPE | MAJOR CROSSING DETAIL            | VILL NAME  | GPS CO-ORDINATE |              |
|-------|----------|---------------|--------------------|--------------------|-------------|------------|----------------|-------|-----------|----------------------|--------|--------|-----------------------|--------|--------|---------|---------------------------|----------------------------------|------------|-----------------|--------------|
|       |          |               |                    |                    |             |            |                |       |           | LEFT                 | RIGHT  | TOTAL  | LEFT                  | RIGHT  | TOTAL  |         |                           |                                  |            | WGS-84          |              |
|       |          |               |                    |                    |             |            |                |       |           |                      |        |        |                       |        |        |         |                           |                                  |            | LONGITUDE       | LATITUDE     |
| 43    | 26/7     | DA+6          |                    |                    | 316         |            |                | 75.63 | 323       | 187.81               | 181.71 | 369.52 | 212.45                | 207.33 | 419.78 |         | FS                        | Pond, Vill Road                  |            |                 |              |
| 44    | 26/8     | DB+3          | As a section tower |                    | 237         |            |                | 74.33 | 276.5     | 134.29               | 116.15 | 250.44 | 108.67                | 113.61 | 222.28 |         | FS                        | Pond, Vill Road, Drain           |            |                 |              |
| 45    | 26/9     | DA+3          |                    |                    | 330         |            |                | 74.65 | 283.5     | 120.85               | 177.35 | 298.21 | 123.39                | 190.70 | 314.10 |         | FS                        | Ditch, Pond, Low Land            |            |                 |              |
| 46    | 26/10    | DA+0          | 1.5M RC Suggested  |                    | 330         |            |                | 73.81 | 330       | 152.65               | 150.32 | 302.97 | 139.30                | 134.46 | 273.76 |         | C                         | Low Land                         |            |                 |              |
| 47    | 26/11    | DA+3          |                    |                    | 330         |            |                | 75.09 | 330       | 179.68               | 183.69 | 363.37 | 195.54                | 203.88 | 399.42 |         | C                         |                                  |            |                 |              |
| 48    | 26/12    | DA+0          | B+0                |                    | 330         |            |                | 74.55 | 330       | 146.31               | 149.69 | 296.00 | 126.12                | 133.15 | 259.26 |         | C                         | Pond                             |            |                 |              |
| 49    | 26/13    | DA+3          |                    |                    | 330         |            |                | 74.45 | 330       | 180.31               | 177.94 | 358.25 | 196.85                | 191.91 | 388.77 |         | FS                        | 2Nos Drain                       |            |                 |              |
| 50    | 26/14    | DA+0          |                    |                    | 306         |            |                | 75    | 318       | 152.06               | 157.33 | 309.39 | 138.09                | 162.00 | 300.09 |         | FS                        | Pond                             |            |                 |              |
| 51    | 26/15    | DA+0          |                    |                    | 178         | 4752       | 13657          | 74.24 | 242       | 148.67               | 101.04 | 249.71 | 144.00                | 114.05 | 258.05 |         | FS                        |                                  |            |                 |              |
| 52    | 27/0     | DC+0          |                    | 23°05'45"LT        | 316         |            |                | 73.01 | 247       | 76.96                | 134.18 | 211.14 | 63.95                 | 108.45 | 172.40 |         | FS                        | Nala, Vill Road                  | TETELIGURI | 92° 7'4.95"     | 26° 8'26.27" |
| 53    | 27/1     | DA+3          |                    |                    | 325         |            |                | 74.33 | 320.5     | 181.82               | 177.19 | 359.01 | 207.55                | 193.06 | 400.61 |         | FS                        |                                  |            |                 |              |
| 54    | 27/2     | DA+0          |                    |                    | 310         |            |                | 74.59 | 317.5     | 147.81               | 154.10 | 301.91 | 131.94                | 153.13 | 285.07 |         | FS                        | Drain                            |            |                 |              |
| 55    | 27/3     | DA+0          |                    |                    | 325         |            |                | 74.75 | 317.5     | 155.90               | 149.42 | 305.32 | 156.87                | 135.29 | 292.16 |         | FS                        |                                  |            |                 |              |
| 56    | 27/4     | DA+3          | B+3                |                    | 330         |            |                | 74.19 | 327.5     | 175.58               | 178.67 | 354.26 | 189.71                | 193.45 | 383.16 |         | FS                        |                                  |            |                 |              |
| 57    | 27/5     | DA+0          |                    |                    | 306         |            |                | 74.6  | 318       | 151.33               | 149.93 | 301.25 | 136.55                | 146.60 | 283.15 |         | FS                        |                                  |            |                 |              |
| 58    | 27/6     | DA+0          |                    |                    | 295         |            |                | 75.14 | 300.5     | 156.07               | 131.79 | 287.86 | 159.40                | 114.82 | 274.21 |         | FS                        | Pond, Vill Road, Low Land, Ditch |            |                 |              |
| 59    | 27/7     | DA+3          | B+3                |                    | 330         | 2537       | 16194          | 74.8  | 312.5     | 163.21               | 132.21 | 295.42 | 180.18                | 96.79  | 276.97 |         | FS                        | Drain                            |            |                 |              |
| 60    | 28/0     | DD+9          |                    | 35°49'05"RT        | 256         | 256        | 16450          | 75.01 | 293       | 197.79               | 69.40  | 267.19 | 233.21                | 6.09   | 239.30 |         | FS                        | Drain, Pond, LT Line, Vill Road  | TETELIGURI | 92° 8'33.39"    | 26° 8'46.83" |
| 61    | 29/0     | DD+15         | 1.5M RC Suggested  | 34°33'00"RT        | 206         | 206        | 16656          | 76.12 | 231       | 186.60               | 139.45 | 326.05 | 249.91                | 178.84 | 428.75 |         | FS                        | 132KV DC SONAPUR - BAGHJAP TL    | 2NO OUJARI | 92° 8'41.99"    | 26° 8'43.79" |
| 62    | 30/0     | DD+12         | 1.5M RC Suggested  | 54°30'17"LT        | 222         | 222        | 16878          | 74.81 | 214       | 66.55                | 179.36 | 245.91 | 27.16                 | 253.22 | 280.38 |         | FS                        |                                  | 3NO OUJARI | 92° 8'46.13"    | 26° 8'38.26" |
| 63    | 31/0     | DC+6          |                    | 21°35'01"LT        | 332         | 332        | 17210          | 73.6  | 277       | 42.64                | 194.86 | 237.51 | -31.22                | 226.05 | 194.83 |         | PS                        | 2Nos 11KV, Metal Road            | 3NO OUJARI | 92° 8'54.10"    | 26° 8'38.08" |
| 64    | 32/0     | DD+0          |                    | 36°33'35"RT        |             |            |                | 74.1  | 331       | 137.14               | 144.30 | 281.44 | 105.95                | 121.94 | 227.89 |         | PS                        |                                  | 3NO OUJARI | 92° 9'5.30"     | 26° 8'41.79" |



(ARNAB CHAKRABORTY)  
 Asstt. General Manager  
 Guwahati Transmission Division  
 AEGCL, Narengi, Guwahati- 26

Deputy General Manager  
 Lower Assam T & T Circle  
 AEGCL Narengi, Ghy-26

SURVEY & SUBMITTED BY:  
 P.K.DUTTA & CO.

CHECKED BY:  
 A.E.G.C.L.

|                          |                        |                         |                         |                         |
|--------------------------|------------------------|-------------------------|-------------------------|-------------------------|
|                          |                        |                         |                         |                         |
| Checked By<br>Asst (P&D) | Checked By<br>DM (P&D) | Checked By<br>AGM (P&D) | Checked By<br>DOM (P&D) | Approved By<br>GM (P&D) |

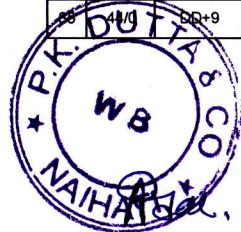
SP-Short Pile  
 C-Caisson

APPROVED BY:  
 A.E.G.C.L.

Deputy General Manager (Civil)  
 AEGCL, Bijulee Bhawan  
 Paltanbazar, Guwahati-1

APPROVED, subject to the condition that the approval conveyed herein neither relieves the contractor of his contractual obligations and his responsibilities, design details, performance particulars and conformity of the supplies with the Indian Statutory laws / IEC specifications as may be applicable, nor does limit the AEGCL's right under the contract.

| SL NO | TOWER NO | TYPE OF TOWER | REMARKS                                                | ANGLE OF DEVIATION | SPAN IN (M) | SEC. LENG. | CUMLTV. LENGTH | R.L   | WIND SPAN | WEIGHT SPAN IN (HOT) |        |        | WEIGHT SPAN IN (COLD) |        |        | Tension | FOUNDATION TYPE | MAJOR CROSSING DETAIL                          | VILL NAME     | GPS CO-ORDINATE |              |
|-------|----------|---------------|--------------------------------------------------------|--------------------|-------------|------------|----------------|-------|-----------|----------------------|--------|--------|-----------------------|--------|--------|---------|-----------------|------------------------------------------------|---------------|-----------------|--------------|
|       |          |               |                                                        |                    |             |            |                |       |           | LEFT                 | RIGHT  | TOTAL  | LEFT                  | RIGHT  | TOTAL  |         |                 |                                                |               | WGS-84          |              |
|       |          |               |                                                        |                    |             |            |                |       |           |                      |        |        |                       |        |        |         |                 |                                                |               | LONGITUDE       | LATITUDE     |
| 64    | 32/0     | DD+0          |                                                        | 36°33'35"RT        |             |            |                | 74.1  | 331       | 137.14               | 144.30 | 281.44 | 105.95                | 121.94 | 227.89 |         | PS              |                                                | 3NO OIJARI    | 92° 9'5.30"     | 26° 8'41.79" |
| 65    | 32/1     | DA+3          |                                                        |                    | 330         |            |                | 75.02 | 309.5     | 185.70               | 165.12 | 350.81 | 208.06                | 187.40 | 395.45 |         | PS              |                                                |               |                 |              |
| 66    | 33/0     | DD+0          | 1.5M RC Suggested                                      | 33°28'53"LT        | 289         | 619        | 17829          | 73.1  | 312       | 123.88               | 157.31 | 281.19 | 101.60                | 146.29 | 247.90 |         | FS              | LT Line, Vill Road                             | 3NO OIJARI    | 92° 9'26.67"    | 26° 8'36.11" |
| 67    | 33/1     | DB+0          | Used DB Tower due to Single Span (1.5M RC Suggested)   |                    | 335         |            |                | 75.06 | 334.5     | 177.69               | 169.92 | 347.62 | 188.71                | 173.08 | 361.79 |         | FS              |                                                |               |                 |              |
| 68    | 34/0     | DC+0          | 1.5M RC Suggested                                      | 20°39'05"RT        | 334         | 669        | 18498          | 74.5  | 322       | 164.08               | 149.21 | 313.29 | 160.92                | 142.96 | 303.88 |         | FS              | Low Land                                       | GURIPATHAR    | 92° 9'49.69"    | 26° 8'42.49" |
| 69    | 34/1     | DA+0          |                                                        |                    | 310         |            |                | 77.03 | 318.5     | 160.79               | 161.95 | 322.74 | 167.04                | 160.29 | 327.33 |         | C               |                                                |               |                 |              |
| 70    | 34/2     | DA+3          |                                                        |                    | 327         |            |                | 74.32 | 305       | 165.05               | 137.31 | 302.36 | 166.71                | 132.79 | 299.50 |         | FS              | Nala, Pond                                     |               |                 |              |
| 71    | 35/0     | DC+3          | 1.5M RC Suggested                                      | 20°34'46"LT        | 283         | 920        | 19418          | 73.5  | 309       | 145.69               | 164.85 | 310.53 | 150.21                | 161.98 | 312.19 |         | FS              | 11KV                                           | 2NO DUNGABARI | 92°10'22.76"    | 26° 8'40.62" |
| 72    | 36/0     | DD+3          | 1.5M RC Suggested                                      | 33°38'44"RT        | 335         | 335        | 19753          | 74.01 | 340       | 170.15               | 184.22 | 354.37 | 173.02                | 196.88 | 369.89 |         | C               | Fishery, 11KV                                  | 2NO DUNGABARI | 92°10'34.28"    | 26° 8'43.80" |
| 73    | 37/0     | DD+0          | 1.5M RC Suggested                                      | 46°28'41"LT        | 345         | 345        | 20098          | 74.69 | 322.5     | 160.78               | 130.08 | 290.86 | 148.12                | 108.56 | 256.68 |         | SP              | Fishery                                        | 2NO DUNGABARI | 92°10'46.19"    | 26° 8'40.58" |
| 74    | 37/1     | DA+3          | 3.0M RC Suggested                                      |                    | 300         |            |                | 73.62 | 287.5     | 169.92               | 167.34 | 337.26 | 191.44                | 199.58 | 391.03 |         | SP              | Fishery, RCC Road, 11KV, Low Land              |               |                 |              |
| 75    | 38/0     | DC+0          | 1.5M RC Suggested                                      | 17°7'39"RT         | 275         | 575        | 20673          | 73.41 | 282       | 107.66               | 119.30 | 226.96 | 75.42                 | 92.07  | 167.49 |         | FS              | Low Land, ishery                               | 2NO DUNGABARI | 92°11'4.17"     | 26° 8'49.88" |
| 76    | 38/1     | DA+3          | 3.0M RC Suggested                                      |                    | 289         |            |                | 73.09 | 302       | 169.70               | 177.30 | 347.00 | 196.93                | 198.70 | 395.62 |         | SP              | Low Land, Fishery, 11KV, Vill Road             |               |                 |              |
| 77    | 39/0     | DC+0          | 1.5M RC Suggested                                      | 28°16'43"LT        | 315         | 604        | 21277          | 74.01 | 295       | 137.70               | 110.76 | 248.46 | 116.30                | 81.88  | 198.18 |         | SP              | Low Land, Fishery                              | 2NO DUNGABARI | 92°11'25.39"    | 26° 8'54.20" |
| 78    | 39/1     | DA+3          | 3.0M RC Suggested                                      |                    | 275         |            |                | 73.73 | 296       | 164.24               | 149.93 | 314.16 | 193.12                | 140.66 | 333.79 |         | C               | Low Land, Fishery, Vill Road                   |               |                 |              |
| 79    | 40/0     | DD+6          | 1.5M RC Suggested                                      | 42°43'48"RT        | 317         | 592        | 21869          | 73.79 | 335       | 167.07               | 206.31 | 373.39 | 176.34                | 238.52 | 414.86 |         | SP              | Fishery, Nala, Vill Road, LT Line, 11KV        | KAKARJALAH    | 92°11'41.47"    | 26° 9'6.80"  |
| 80    | 40/1     | DB+0          | Used DB Tower due to Single Span (3.0M RC Suggested)   |                    | 353         |            |                | 75.25 | 351.5     | 146.69               | 128.90 | 275.59 | 114.48                | 79.10  | 193.58 |         | FS              | Fishery                                        |               |                 |              |
| 81    | 41/0     | DC+9          | 1.5M RC Suggested                                      | 23°15'7"RT         | 350         | 703        | 22572          | 74.01 | 346.5     | 221.10               | 125.78 | 346.88 | 270.90                | 76.39  | 347.29 |         | SP              | Fishery                                        | KAKARJALAH    | 92°12'6.79"     | 26° 9'6.10"  |
| 82    | 42/0     | DD+18         | 1.5M RC Suggested                                      | 48°2'23"RT         | 343         | 343        | 22915          | 74.01 | 301       | 217.22               | 76.83  | 294.04 | 266.61                | 19.92  | 286.53 |         | SP              | Fishery, 11KV, RCC Road                        | KAKARJALAH    | 92°12'17.99"    | 26° 9'1.38"  |
| 83    | 43/0     | DD+25         | Used DD tower due to Slack Tension (1.5M RC Suggested) | 14°46'53"LT        | 259         | 259        | 23174          | 74.84 | 292.5     | 182.17               | 219.77 | 401.95 | 239.08                | 234.18 | 473.27 |         | FS              | Fishery, Low Land, 220 KV DC MISA - BYRNHAT TL | CHENIMARI     | 92°12'20.71"    | 26° 8'53.33" |
| 84    | 43/1     | DD+9          | Used DD tower due to Slack Tension                     |                    | 326         |            |                | 72.73 | 289       | 106.23               | 133.54 | 239.76 | 91.82                 | 141.68 | 233.49 |         | FS              | Low Land                                       |               |                 |              |
| 85    | 44/0     | DD+9          |                                                        | 37°01'57"LT        | 252         | 578        | 23752          | 71.64 | 224       | 118.46               | 83.24  | 201.71 | 110.32                | 67.30  | 177.62 |         | FS              | Low Land                                       | CHENIMARI     | 92°12'31.65"    | 26° 8'37.35" |



SURVEY & SUBMITTED BY:  
P.K.DUTTA & CO.

(ARNAB CHAKRABORTY)  
Asstt. General Manager  
Guwahati Transmission Division  
AEGCL, Narengi, Guwahati- 26

Deputy General Manager  
Lower Assam T & T Circle  
AEGCL Narengi, Ghy-26

CHECKED BY:  
A.E.G.C.L.

|                        |                         |                         |                        |                         |
|------------------------|-------------------------|-------------------------|------------------------|-------------------------|
| SP                     | SP                      | SP                      | SP                     | SP                      |
| Checked By<br>DM (P&D) | Checked By<br>AGM (P&D) | Checked By<br>BGM (P&D) | Checked By<br>GM (P&D) | Approved By<br>GM (P&D) |

SP-Short Pile  
C-Corision

APPROVED BY:  
A.E.G.C.L.

Deputy General Manager (Civil)  
AEGCL, Bijulee Bhawan  
Paltanbari, Guwahati-1

APPROVED, subject to the condition that the approval conveyed herein neither relieves the contractor of his contractual obligations and his responsibilities, design details, performance particulars and conformity of the supplies with the Indian Statutory laws / IEC

| SL NO | TOWER NO | TYPE OF TOWER | REMARKS                               | ANGLE OF DEVIATION | SPAN IN (M) | SEC. LENG. | CUMLTV. LENGTH | R.L   | WIND SPAN | WEIGHT SPAN IN (HOT) |        |        | WEIGHT SPAN IN (COLD) |        |        | REMARK REGARDING SLACK TENSION     | FOUNDATION TYPE | MAJOR CROSSING                                                       | VILL NAME    | GPS CO-ORDINATE |              |
|-------|----------|---------------|---------------------------------------|--------------------|-------------|------------|----------------|-------|-----------|----------------------|--------|--------|-----------------------|--------|--------|------------------------------------|-----------------|----------------------------------------------------------------------|--------------|-----------------|--------------|
|       |          |               |                                       |                    |             |            |                |       |           | LEFT                 | RIGHT  | TOTAL  | LEFT                  | RIGHT  | TOTAL  |                                    |                 |                                                                      |              | WGS-84          |              |
| 85    | 44/0     | DD+9          |                                       | 37°01'57"LT        |             |            |                | 71.64 | 224       | 118.46               | 83.24  | 201.71 | 110.32                | 67.30  | 177.62 |                                    | FS              | Low Land, 11KV, NH-715A, LT Line                                     | CHENIMARI    | 92°12'31.65"    | 26° 8'37.35" |
| 86    | 45/0     | DC+9          | 1.5M RC Suggested                     | 22°57'09"RT        | 196         | 196        | 23948          | 71.8  | 265.5     | 112.76               | 175.30 | 288.06 | 128.70                | 183.73 | 312.43 |                                    | FS              | Low Land, 33KV                                                       | CHENIMARI    | 92°12'38.23"    | 26° 8'35.04" |
| 87    | 46/0     | DD+9          | Used DD tower due to Slack Tension    | 13°44'20"RT        | 335         | 335        | 24283          | 71.8  | 337.5     | 159.70               | 113.05 | 272.75 | 151.27                | 72.94  | 224.21 | Slack Tension 2433.76 KG at 32° NW | FS              | Low Land, Pond, Nala, Boundary, LT Line, Metal Road, 11KV, Vill Road | BELGURI      | 92°12'46.89"    | 26° 8'27.44" |
| 88    | 47/0     | DD+15         |                                       | 42°45'48"RT        | 340         | 340        | 24623          | 79.69 | 279       | 226.95               | 36.03  | 262.98 | 267.06                | -42.81 | 224.25 |                                    | FS              | 220 KV DC LANGPI-SARUSAJAI T/L                                       | BELGURI      | 92°12'53.38"    | 26° 8'18.08" |
| 89    | 48/0     | DD+25         | Used DD tower due to Slack Tension    | 18°38'48"RT        | 218         | 218        | 24841          | 78.82 | 230       | 181.97               | 184.30 | 366.27 | 260.81                | 200.36 | 461.17 | Slack Tension 1390.72KG at 32° NW  | FS              | Vill Road                                                            | BELGURI      | 92°12'51.93"    | 26° 8'11.13" |
| 90    | 49/0     | DD+9          | 1.5M RC Suggested                     | 33°15'44"LT        | 242         | 242        | 25083          | 77.09 | 282       | 57.70                | 169.60 | 227.31 | 41.64                 | 178.90 | 220.53 |                                    | FS              | Oil Pipe Line, Pond, 11KV, RCC Road                                  | BELGURI      | 92°12'47.65"    | 26° 8'4.27"  |
| 91    | 50/0     | DB+6          |                                       | 02°28'50"LT        | 322         | 322        | 25405          | 80    | 365       | 152.40               | 189.99 | 342.39 | 143.10                | 174.86 | 317.96 |                                    | C               | Low Land, Vill Road                                                  | NAKHULAGRANT | 92°12'48.44"    | 26° 7'53.84" |
| 92    | 51/0     | DD+9          | Used DD tower due to Railway Crossing | 01°43'09"LT        | 408         | 408        | 25813          | 80.28 | 275       | 218.01               | 92.23  | 310.23 | 233.14                | 115.16 | 348.30 |                                    | FS              | Drain, RAILWAY                                                       | NAKHULAGRANT | 92°12'50.08"    | 26° 7'40.65" |
| 93    | 52/0     | DD+9          |                                       | 46°20'02"LT        | 142         | 142        | 25955          | 78.55 | 229       | 49.77                | 143.83 | 193.60 | 26.84                 | 128.52 | 155.36 |                                    | C               | Drain, 33KV, 11KV                                                    | NAKHULAGRANT | 92°12'50.81"    | 26°7'36.2"   |
| 94    | 53/0     | DB+9          | D+9                                   | 06°18'05"RT        | 316         | 316        | 26271          | 81.12 | 225       | 172.17               | 11.48  | 183.65 | 187.48                | -48.51 | 138.97 |                                    | C               | Vill Road, Drain, 11KV, NH-27, Boundary                              | NAKHULAGRANT | 92°12'59.8"     | 26°7'30.1"   |
| 95    | 54/0     | DC+0          | D+0                                   | 17°25'27"LT        | 134         | 134        | 26405          | 94.39 | 96        | 122.52               | -27.47 | 95.05  | 182.51                | -88.49 | 94.01  |                                    | PS              |                                                                      | NAKHULAGRANT | 92°13'3.16"     | 26°7'27.15"  |
| 96    | 55/0     | DD+0          |                                       | 33°36'28"LT        | 58          | 58         | 26463          | 96.27 | 43        | 85.47                | 38.89  | 124.37 | 146.49                | 65.78  | 212.28 |                                    | PS              |                                                                      | JAGI ROAD    | 92°13'5.1"      | 26°7'26.4"   |
| 97    | Gantry   | Gantry        | Gantry at TATA Semiconductor Plant    |                    | 28          | 28         | 26491          | 95.87 | 14        | -10.89               |        | -10.89 | -37.78                |        | -37.78 |                                    |                 |                                                                      | JAGI ROAD    | 92°13'5.5"      | 26°7'26.6"   |

\* Change T- 45/0 from C to D type

\* Change T- 53/0 from B to D type

\* Change T- 54/0 from C to D type.

\* Proposed foundations of all the towers shall be as per site condition & shall be approved by civil wing of AEGCL in consultation with field officials.



(ARNAB CHAKRABORTY)  
Asstt. General Manager  
Guwahati Transmission Division  
AEGCL, Narengi, Guwahati- 26

Deputy General Manager  
Lower Assam T & T Circle  
AEGCL Narengi, Ghy-26

|                        |                   |                         |                         |                         |
|------------------------|-------------------|-------------------------|-------------------------|-------------------------|
|                        |                   |                         |                         |                         |
| Checked By<br>AM (P&D) | Check<br>DM (P&D) | Checked By<br>AGM (P&D) | Checked By<br>DGM (P&D) | Approved By<br>GM (P&D) |

SP-Short Pile  
C-Cannon