

# PIPE LINE CROSSING THROUGH FOREST

## VIRUDHACHALAM ALIGNMENT

| Chainage | Easting    | Northing    | Degree,Minute Second |                   | Degree,Decimal |             |
|----------|------------|-------------|----------------------|-------------------|----------------|-------------|
|          |            |             | Latitude             | Longitute         | Latitude       | Longitute   |
| 0        | 316988.436 | 1270062.031 | 11°29' 3.442"N       | 79°19' 19.7977" E | 11.48428944    | 79.32216603 |
| 30       | 316986.300 | 1270032.214 | 11°29' 2.4712"N      | 79°19' 19.733 "E  | 11.48401979    | 79.32214805 |
| 60       | 316982.866 | 1270002.434 | 11°29' 1.5015"N      | 79°19' 19.625 4"E | 11.48375040    | 79.32211817 |
| 90       | 316976.577 | 1269973.179 | 11°29' 0.5482"N      | 79°19' 19.423 5"E | 11.48348561    | 79.32206209 |
| 120      | 316967.981 | 1269944.437 | 11°28' 59.6112"N     | 79°19' 19.1 454"E | 11.48322534    | 79.32198484 |
| 150      | 316959.291 | 1269915.779 | 11°28' 58.6769"N     | 79°19' 18.8 642"E | 11.48296582    | 79.32190673 |
| 180      | 316952.459 | 1269886.622 | 11°28' 57.7268"N     | 79°19' 18.6 444"E | 11.48270188    | 79.32184567 |
| 210      | 316948.394 | 1269856.969 | 11°28' 56.761"N      | 79°19' 18.51 6"E  | 11.48243361    | 79.32181000 |
| 240      | 316947.242 | 1269826.996 | 11°28' 55.7854"N     | 79°19' 18.4 838"E | 11.48216260    | 79.32180104 |
| 270      | 316946.420 | 1269797.012 | 11°28' 54.8094"N     | 79°19' 18.4 624"E | 11.48189151    | 79.32179511 |
| 300      | 316944.255 | 1269767.092 | 11°28' 53.8353"N     | 79°19' 18.3 967"E | 11.48162092    | 79.32177687 |
| 330      | 316942.730 | 1269737.135 | 11°28' 52.8601"N     | 79°19' 18.3 522"E | 11.48135004    | 79.32176450 |
| 360      | 316941.545 | 1269707.159 | 11°28' 51.8844"N     | 79°19' 18.3 189"E | 11.48107900    | 79.32175524 |
| 390      | 316940.166 | 1269677.192 | 11°28' 50.9089"N     | 79°19' 18.2 791"E | 11.48080803    | 79.32174420 |
| 420      | 316938.426 | 1269647.257 | 11°28' 49.9344"N     | 79°19' 18.2 275"E | 11.48053733    | 79.32172985 |
| 450      | 316936.989 | 1269617.313 | 11°28' 48.9596"N     | 79°19' 18.1 858"E | 11.48026656    | 79.32171828 |
| 480      | 316936.402 | 1269587.330 | 11°28' 47.9838"N     | 79°19' 18.1 722"E | 11.47999549    | 79.32171451 |
| 510      | 316935.498 | 1269557.361 | 11°28' 47.0083"N     | 79°19' 18.1 482"E | 11.47972453    | 79.32170782 |
| 540      | 316934.584 | 1269527.386 | 11°28' 46.0327"N     | 79°19' 18.1 238"E | 11.47945351    | 79.32170105 |
| 570      | 316933.921 | 1269497.394 | 11°28' 45.0565"N     | 79°19' 18.1 077"E | 11.47918236    | 79.32169657 |
| 600      | 316933.066 | 1269467.408 | 11°28' 44.0805"N     | 79°19' 18.0 852"E | 11.47891124    | 79.32169034 |
| 630      | 316931.825 | 1269437.433 | 11°28' 43.1048"N     | 79°19' 18.0 5"E   | 11.47864021    | 79.32168057 |
| 660      | 316930.467 | 1269407.465 | 11°28' 42.1292"N     | 79°19' 18.0 11"E  | 11.47836923    | 79.32166972 |
| 690      | 316929.186 | 1269377.495 | 11°28' 41.1537"N     | 79°19' 17.9 745"E | 11.47809824    | 79.32165959 |
| 720      | 316927.977 | 1269347.526 | 11°28' 40.1782"N     | 79°19' 17.9 404"E | 11.47782727    | 79.32165011 |
| 750      | 316926.764 | 1269317.557 | 11°28' 39.2026"N     | 79°19' 17.9 061"E | 11.47755629    | 79.32164059 |
| 780      | 316925.758 | 1269287.574 | 11°28' 38.2267"N     | 79°19' 17.8 787"E | 11.47728519    | 79.32163297 |
| 810      | 316924.566 | 1269257.598 | 11°28' 37.251"N      | 79°19' 17.84 51"E | 11.47701415    | 79.32162365 |
| 840      | 316923.384 | 1269227.621 | 11°28' 36.2752"N     | 79°19' 17.8 119"E | 11.47674310    | 79.32161442 |
| 870      | 316922.435 | 1269197.637 | 11°28' 35.2992"N     | 79°19' 17.7 864"E | 11.47647200    | 79.32160732 |
| 900      | 316921.560 | 1269167.651 | 11°28' 34.3232"N     | 79°19' 17.7 633"E | 11.47620089    | 79.32160091 |
| 930      | 316920.513 | 1269137.670 | 11°28' 33.3473"N     | 79°19' 17.7 345"E | 11.47592981    | 79.32159291 |
| 960      | 316919.384 | 1269107.694 | 11°28' 32.3716"N     | 79°19' 17.7 03"E  | 11.47565878    | 79.32158417 |
| 990      | 316918.233 | 1269077.919 | 11°28' 31.4024"N     | 79°19' 17.6 708"E | 11.47538955    | 79.32157521 |
| 1020     | 316917.313 | 1269048.037 | 11°28' 30.4298"N     | 79°19' 17. 6461"E | 11.47511938    | 79.32156837 |
| 1050     | 316916.392 | 1269018.099 | 11°28' 29.4553"N     | 79°19' 17. 6215"E | 11.47484870    | 79.32156153 |

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|----------|------------|-------------|----------------------|-------------------|----------------|-------------|
|          |            |             | Latitude             | Longitute         | Latitude       | Longitute   |
| 1080     | 316914.491 | 1268988.164 | 11°28' 28.4808"N     | 79°19' 17. 5646"E | 11.47457799    | 79.32154571 |
| 1110     | 316913.143 | 1268958.195 | 11°28' 27.5052"N     | 79°19' 17. 5258"E | 11.47430700    | 79.32153496 |
| 1140     | 316911.879 | 1268928.222 | 11°28' 26.5296"N     | 79°19' 17. 4899"E | 11.47403599    | 79.32152497 |
| 1170     | 316911.102 | 1268898.235 | 11°28' 25.5535"N     | 79°19' 17. 47"E   | 11.47376487    | 79.32151945 |
| 1200     | 316910.872 | 1268868.238 | 11°28' 24.5773"N     | 79°19' 17. 4682"E | 11.47349369    | 79.32151895 |
| 1230     | 316913.146 | 1268838.361 | 11°28' 23.6054"N     | 79°19' 17. 549"E  | 11.47322373    | 79.32154139 |
| 1260     | 316917.548 | 1268808.688 | 11°28' 22.6406"N     | 79°19' 17. 6999"E | 11.47295572    | 79.32158331 |
| 1290     | 316923.120 | 1268779.210 | 11°28' 21.6823"N     | 79°19' 17. 8894"E | 11.47268954    | 79.32163595 |
| 1320     | 316927.905 | 1268749.605 | 11°28' 20.7198"N     | 79°19' 18. 053"E  | 11.47242217    | 79.32168139 |
| 1350     | 316931.958 | 1268719.880 | 11°28' 19.7532"N     | 79°19' 18. 1924"E | 11.47215367    | 79.32172012 |
| 1380     | 316934.306 | 1268689.992 | 11°28' 18.781"N      | 79°19' 18.2 757"E | 11.47188361    | 79.32174324 |
| 1410     | 316933.574 | 1268660.001 | 11°28' 17.8049"N     | 79°19' 18. 2573"E | 11.47161246    | 79.32173813 |
| 1440     | 316932.750 | 1268630.013 | 11°28' 16.8288"N     | 79°19' 18. 2358"E | 11.47134133    | 79.32173218 |
| 1470     | 316931.622 | 1268600.039 | 11°28' 15.8531"N     | 79°19' 18. 2044"E | 11.47107031    | 79.32172344 |
| 1496.146 | 316930.981 | 1268573.325 | 11°28' 14.9836"N     | 79°19' 18.1884"E  | 11.47082879    | 79.32171899 |