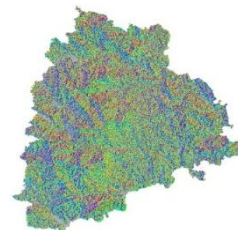
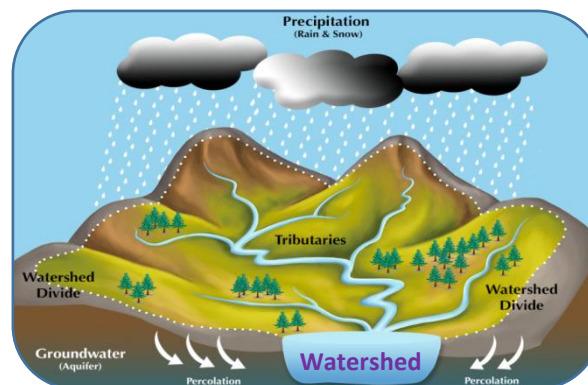


# Government of Telangana – Forest Department



## SITE SUITABILITY ANALYSIS FOR WATER HARVESTING STRUCTURES USING REMOTE SENSING & GIS



# **SITE SUITABILITY ANALYSIS FOR WATER HARVESTING STRUCTURES USING REMOTE SENSING & GIS**

**Circle: Kaleshwaram**  
**District: Peddapally**  
**Division: Peddapally**

**Prepared at Geomatics Centre  
O/o Prl.Chief Conservator of Forests  
Aranya Bhavan, Saifabad  
Hyderabad - 500004**



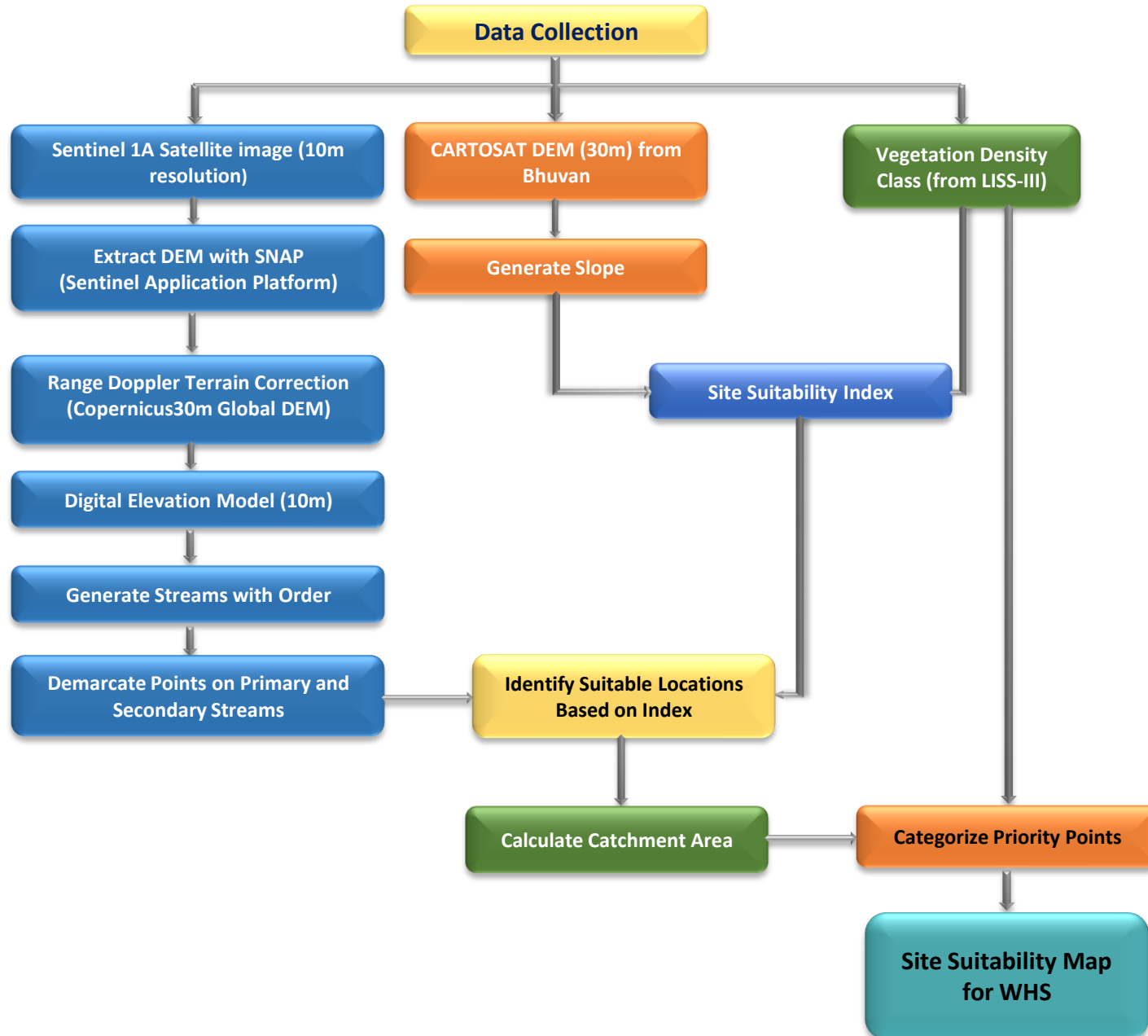
## METHODOLOGY

**Various methods are available to evaluate the suitability of locations for Percolation Tanks and other SMC structures using Arc GIS.**

- A common approach is to use Geographic Information System (GIS) tools to decide the suitability by analysing factors like topography, vegetation density, distance to water sources, and terrain slope.
- Data was gathered from various sources, including the Raster Sentinel data obtained from the Copernicus open access hub.
- Elevation values were applied to the raster data using the SNAP software to create a Digital Elevation Model (DEM).
- Using Arc GIS, streams were mapped based on DEM, and potential percolation tank sites were identified based on stream order.
- Slope data generated from the CARTOSAT 30 m DEM (Source: Bhuvan) were also included in the analysis.
- By overlaying these spatial datasets and applying specific criteria, GIS can help identify optimal locations for building percolation tanks.
- Once the best location is identified, the catchment area is determined.
- The location is then ranked on the basis of catchment area and vegetation cover, with rankings ranging from I to V.



# FLOW CHART FOR METHODOLOGY



## Guidelines for building Percolation Tanks:

- Refer to the Site Suitability Map given by the GIS Cell for suitable locations
- Choose the best location for constructing a percolation tank based on the ranking priority. The priority for treatment of the watershed should be based on stream order, with primary streams taking precedence over secondary streams and secondary streams taking precedence over tertiary streams. This phased approach will ensure effective management of the watershed.
- Field conditions such as local climate, slope, vegetation and soil type must be considered when determining the location. It is important to move either upstream or downstream for a distance of about 50M, depending on the specific conditions of the site.
- It is essential to follow the priority given in the map. If no specific points are indicated, site suitability should be considered a determining factor.
- Encroached areas were not considered when demarcating points for constructing the Percolation tank.
- In the field, where streams are found at the optimal location, a percolation tank can be built if a point is missing on the map.
- The catchment area should also be considered when estimating the construction requirements like length of the bund, height of the bund, wear width etc., after verifying with the actual field conditions.
- Planting native vegetation around the tank can stabilize the soil, prevent erosion, and improve water absorption. Use plants that are well suited to the local environment.



## Suitability criteria for Check-Dams and Percolation Tanks ( SITE SUITABILITY INDEX)

| Index               | Slope(Degrees) | Density Class |
|---------------------|----------------|---------------|
| Highly suitable     | 0-5            | Blank & Scrub |
| Moderately suitable | 0-5            | Open Forest   |
| Least suitable      | 0-5            | Dense Forest  |

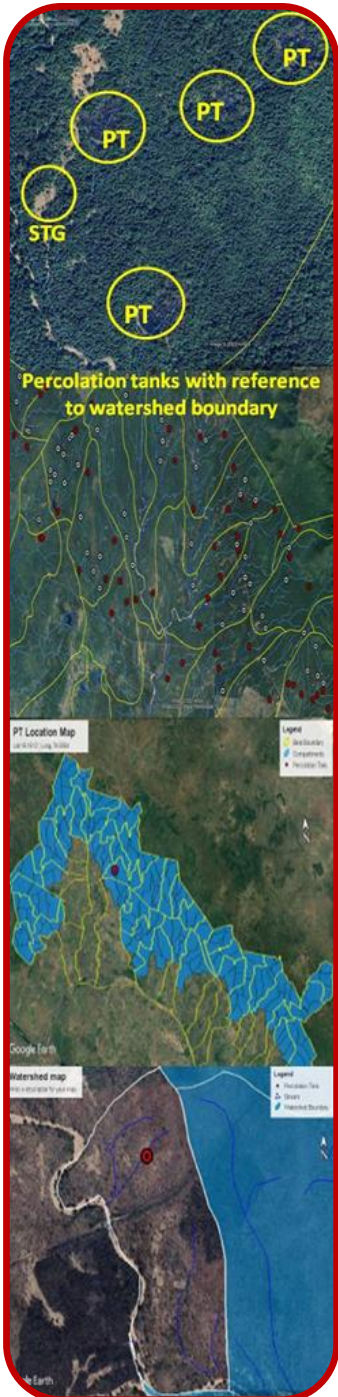
## Suitability criteria for Continuous/Staggered contour trenches

| Rank                | Slope classes (Degrees) | Density Classes       |
|---------------------|-------------------------|-----------------------|
| Highly Suitable     | >5 and <= 10            | Blanks                |
| Moderately Suitable | >5 and <= 10            | Scrub forest          |
| Least suitable      | >5 and <= 10            | Open forest           |
|                     | > 10 and < 25           | Blanks & scrubs       |
| MPTs and SGPs       | >5 and <= 10            | Dense Forest          |
|                     | > 10 and < 25           | Open and Dense forest |



## PRIORITY CLASSES FOR PERCOLATION TANK

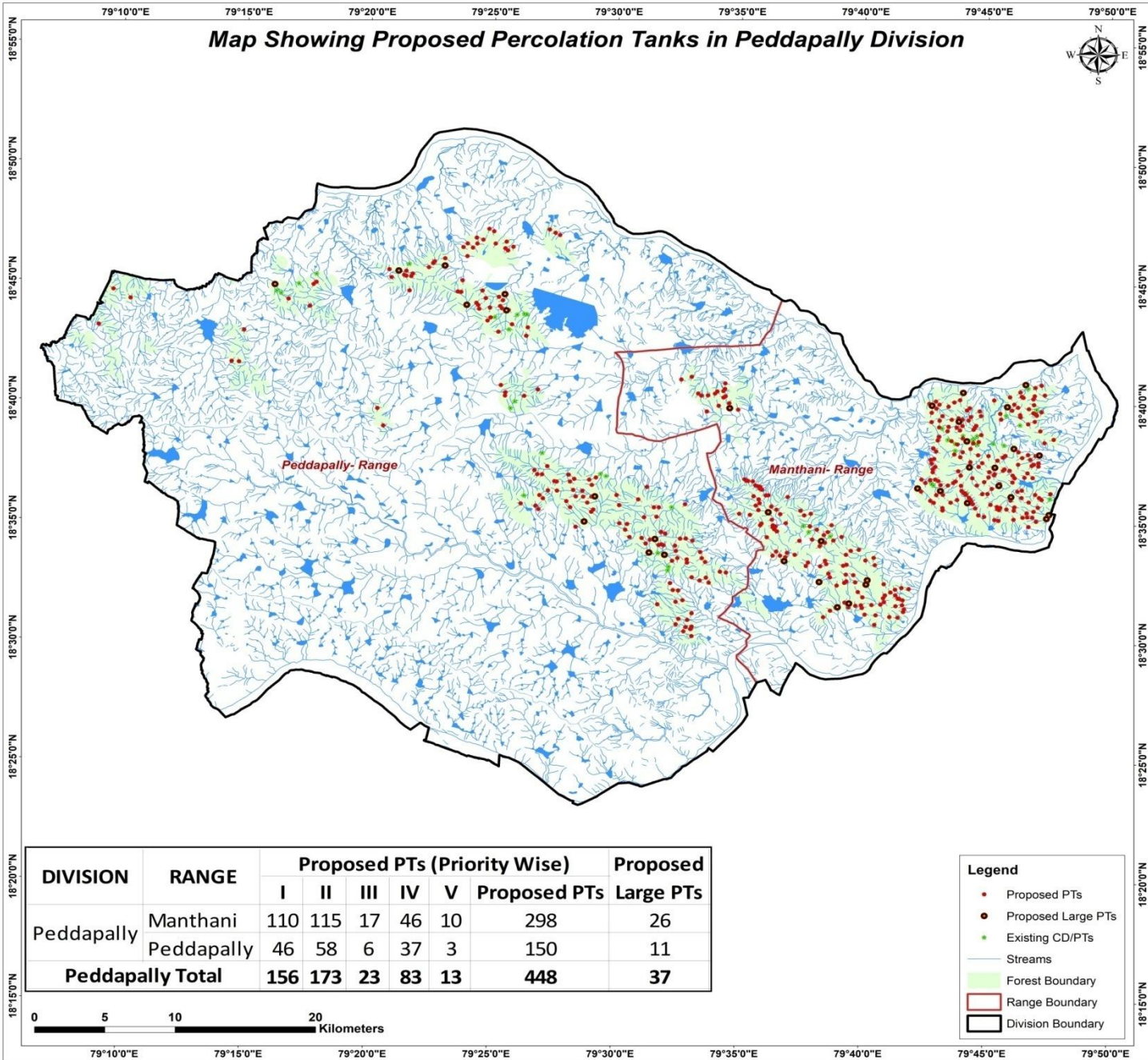
| Priority | Catchment Area(Ha) | Density Class |
|----------|--------------------|---------------|
| 1        | 0-25               | Scrub         |
|          | 0-25               | Blank         |
| 2        | 0-25               | Open Forest   |
|          | 25-50              | Blank         |
| 3        | 25-50              | Open Forest   |
|          | >50                | Scrub & blank |
| 4        | 0-25               | Dense Forest  |
|          | >50                | Open Forest   |
| 5        | 25-50              | Dense Forest  |
|          | >50                | Dense Forest  |







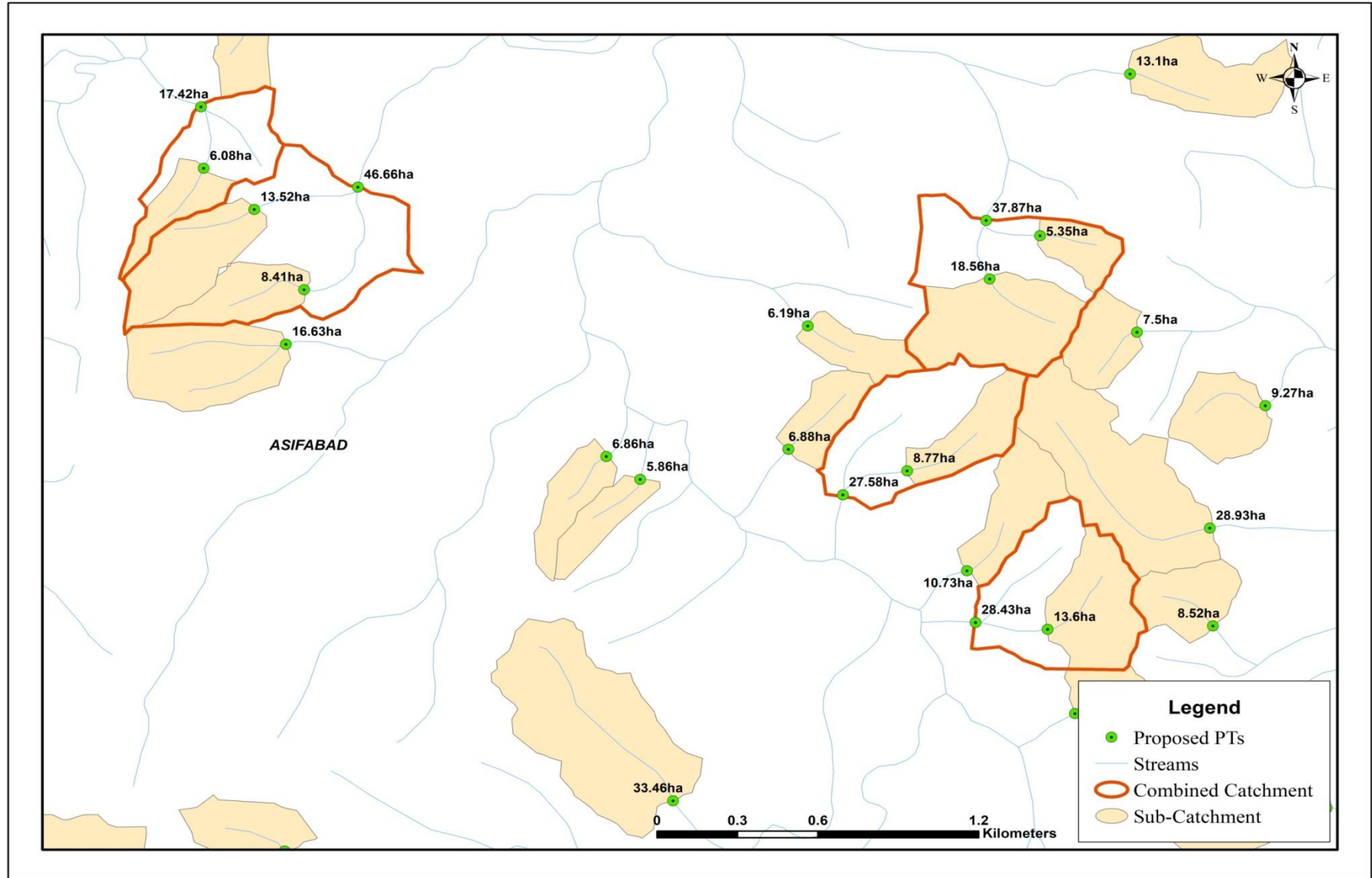
## Map Showing Proposed Percolation Tanks in Peddapally Division



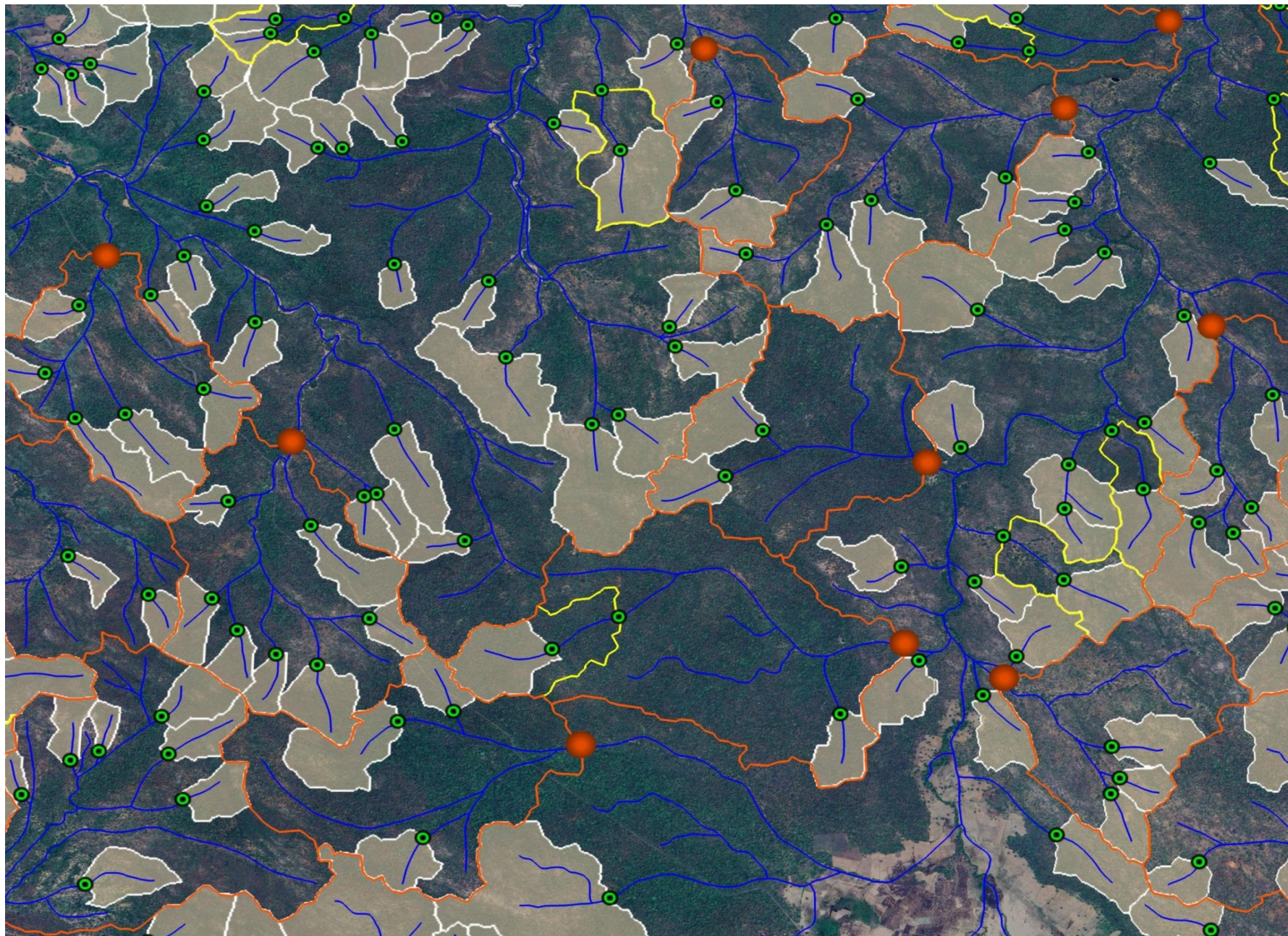
| DIVISION                | RANGE      | Proposed PTs (Priority Wise) |            |           |           |           | Proposed PTs | Proposed Large PTs |
|-------------------------|------------|------------------------------|------------|-----------|-----------|-----------|--------------|--------------------|
|                         |            | I                            | II         | III       | IV        | V         |              |                    |
| Peddapally              | Manthani   | 110                          | 115        | 17        | 46        | 10        | 298          | 26                 |
|                         | Peddapally | 46                           | 58         | 6         | 37        | 3         | 150          | 11                 |
| <b>Peddapally Total</b> |            | <b>156</b>                   | <b>173</b> | <b>23</b> | <b>83</b> | <b>13</b> | <b>448</b>   | <b>37</b>          |

- Legend**
- Proposed PTs
  - Proposed Large PTs
  - Existing CD/PTs
  - Streams
  - Forest Boundary
  - Range Boundary
  - Division Boundary

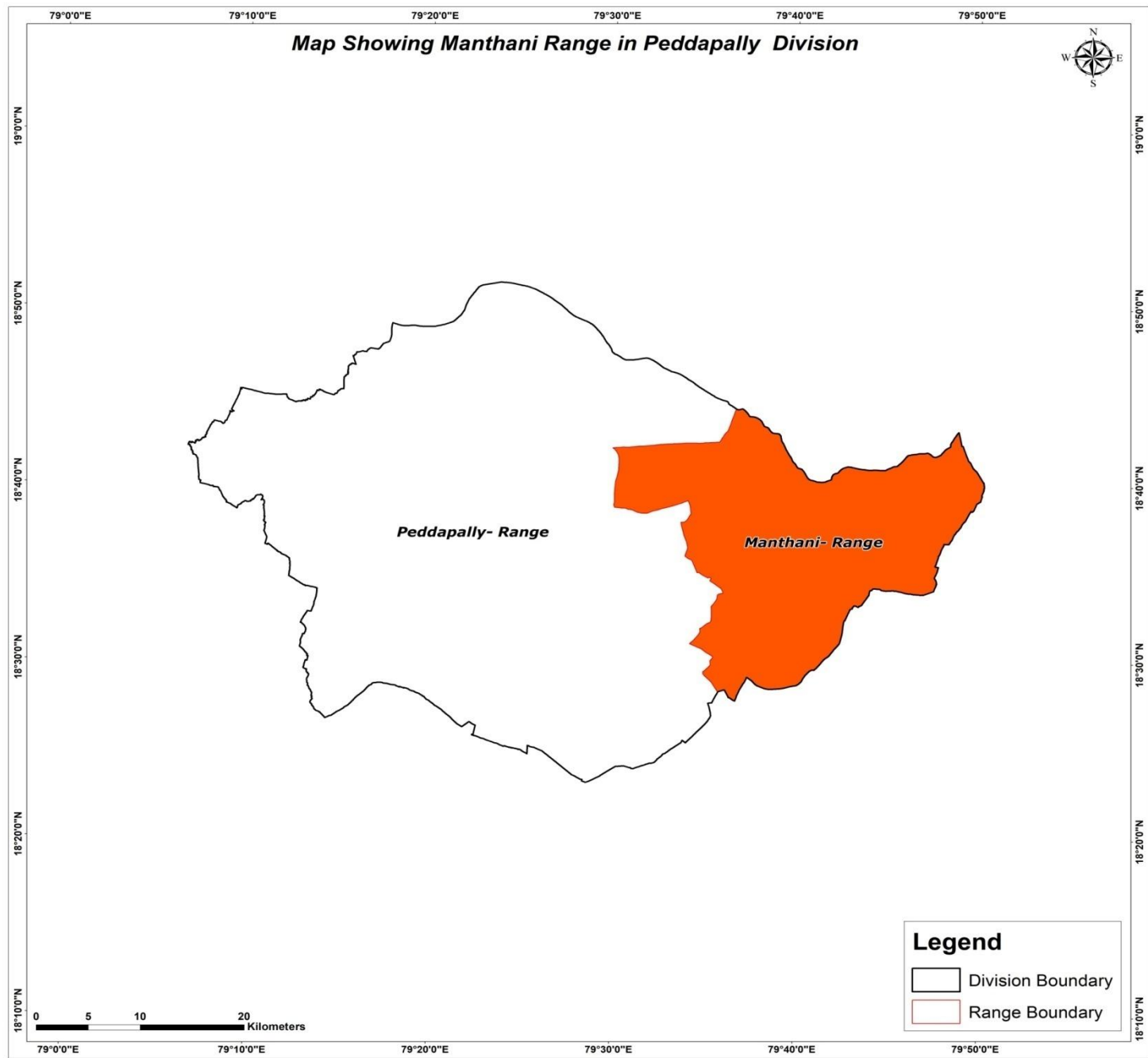
# CATCHMENT AREA



# Sample Catchment Map



# Map Showing Manthani Range in Peddapally Division



*Peddapally- Range*

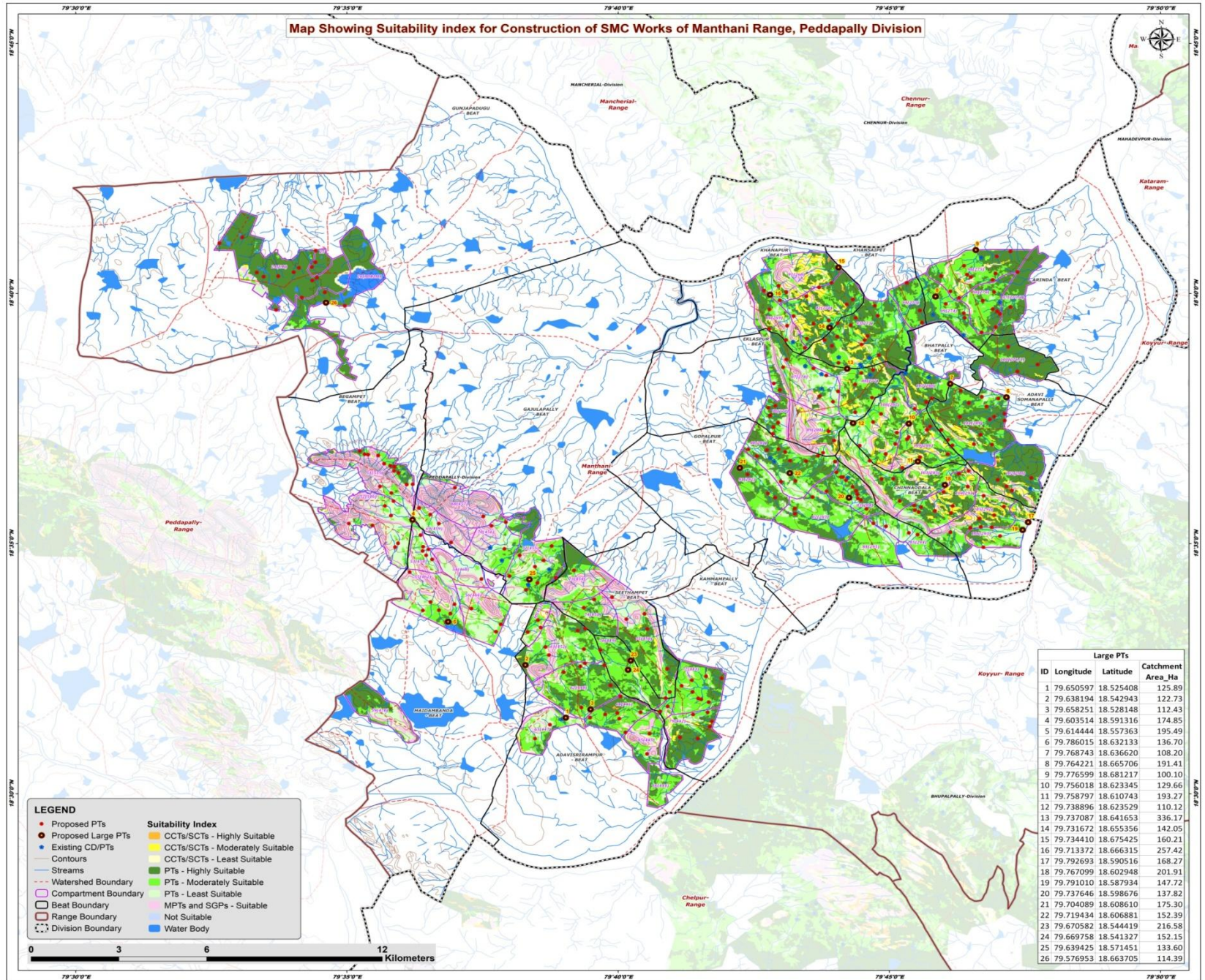
*Manthani- Range*

## Legend

-  Division Boundary
-  Range Boundary



Map Showing Suitability index for Construction of SMC Works of Manthani Range, Peddapally Division



**LEGEND**

- Proposed PTs
- Proposed Large PTs
- Existing CD/PTs
- Contours
- Streams
- - - Watershed Boundary
- Compartment Boundary
- Beat Boundary
- Range Boundary
- Division Boundary

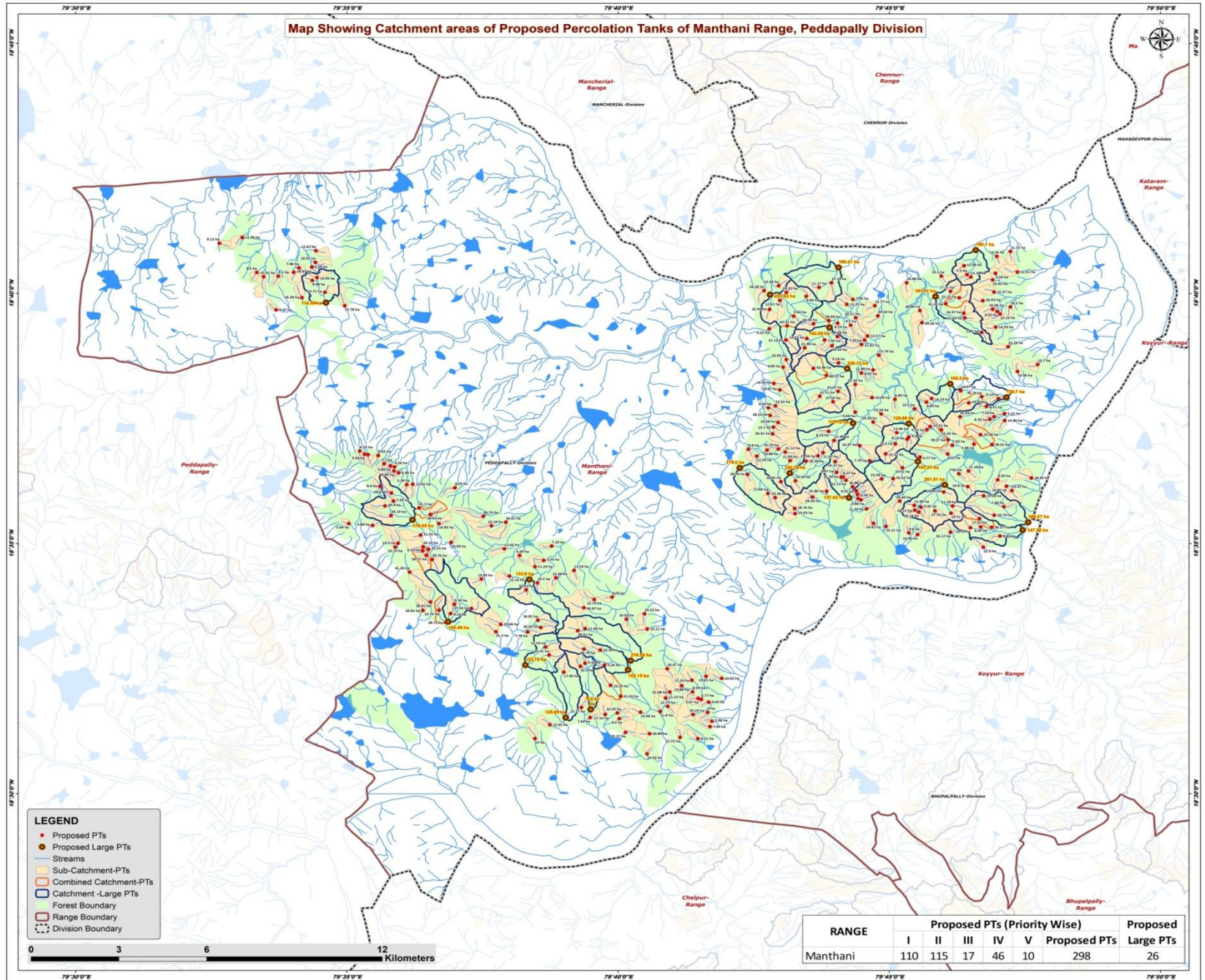
**Suitability Index**

- CCTs/SCTs - Highly Suitable
- CCTs/SCTs - Moderately Suitable
- CCTs/SCTs - Least Suitable
- PTs - Highly Suitable
- PTs - Moderately Suitable
- PTs - Least Suitable
- MPTs and SGPs - Suitable
- Not Suitable
- Water Body

| Large PTs |           |           |                   |
|-----------|-----------|-----------|-------------------|
| ID        | Longitude | Latitude  | Catchment Area_Ha |
| 1         | 79.650597 | 18.525408 | 125.89            |
| 2         | 79.638194 | 18.542943 | 122.73            |
| 3         | 79.658251 | 18.528148 | 112.43            |
| 4         | 79.603514 | 18.591316 | 174.85            |
| 5         | 79.614444 | 18.557363 | 195.49            |
| 6         | 79.786015 | 18.632133 | 136.70            |
| 7         | 79.768743 | 18.636620 | 108.20            |
| 8         | 79.764221 | 18.665706 | 191.41            |
| 9         | 79.776599 | 18.681217 | 100.10            |
| 10        | 79.756018 | 18.523345 | 129.66            |
| 11        | 79.758797 | 18.610743 | 193.27            |
| 12        | 79.738896 | 18.623529 | 110.12            |
| 13        | 79.737087 | 18.641653 | 336.17            |
| 14        | 79.731672 | 18.655356 | 142.05            |
| 15        | 79.734410 | 18.675425 | 160.21            |
| 16        | 79.713372 | 18.666315 | 257.42            |
| 17        | 79.792693 | 18.590516 | 168.27            |
| 18        | 79.767099 | 18.602948 | 201.91            |
| 19        | 79.791010 | 18.587934 | 147.72            |
| 20        | 79.737646 | 18.598676 | 137.82            |
| 21        | 79.704089 | 18.608610 | 175.30            |
| 22        | 79.719434 | 18.606881 | 152.39            |
| 23        | 79.670582 | 18.544419 | 216.98            |
| 24        | 79.669758 | 18.541327 | 152.15            |
| 25        | 79.639425 | 18.571451 | 133.60            |
| 26        | 79.576953 | 18.663705 | 114.39            |

0 3 6 12 Kilometers

Map Showing Catchment areas of Proposed Percolation Tanks of Manthani Range, Peddapally Division



- LEGEND**
- Proposed PTs
  - Proposed Large PTs
  - Streams
  - Sub-Catchment-PTs
  - Combined Catchment-PTs
  - Catchment-Large PTs
  - Forest Boundary
  - Range Boundary
  - - - Division Boundary

0 3 6 12 Kilometers

| RANGE    | Proposed PTs (Priority Wise) |     |     |    |    | Proposed Large PTs |
|----------|------------------------------|-----|-----|----|----|--------------------|
|          | I                            | II  | III | IV | V  |                    |
| Manthani | 110                          | 115 | 17  | 46 | 10 | 298                |

## Beat wise Abstract of Proposed PT's – Manthani Range

| S. No. | Beat           | Proposed PT's |
|--------|----------------|---------------|
| 1      | ADAVISRIRAMPUR | 25            |
| 2      | ARINDA         | 22            |
| 3      | BEGAMPET       | 20            |
| 4      | BHATPALLY      | 16            |
| 5      | CHINNAODALA    | 25            |
| 6      | EKLASPUR       | 23            |
| 7      | GAJULAPALLY    | 17            |
| 8      | GOPALPUR       | 32            |
| 9      | GUNJAPADUGU    | 16            |
| 10     | KAMMAMPALLY    | 17            |
| 11     | KHANAPUR       | 18            |
| 12     | KHANSAIPET     | 16            |
| 13     | MAIDAMBANDA    | 17            |
| 14     | SEETHAMPET     | 10            |
| 15     | SOMANPALLY     | 24            |
|        | <b>Total</b>   | <b>298</b>    |

## List of Proposed PTs – Manthani Range

| ID | Latitude  | Longitude | Catchment Area_Ha | Priority | Beat           | ID | Latitude  | Longitude | Catchment Area_Ha | Priority | Beat        | ID  | Latitude  | Longitude | Catchment Area_Ha | Priority | Beat       |
|----|-----------|-----------|-------------------|----------|----------------|----|-----------|-----------|-------------------|----------|-------------|-----|-----------|-----------|-------------------|----------|------------|
| 1  | 18.520090 | 79.676381 | 20.89             | I        | ADAVISRIRAMPUR | 41 | 18.603178 | 79.603596 | 12.92             | IV       | BEGAMPET    | 81  | 18.671270 | 79.781801 | 25.62             | II       | ARINDA     |
| 2  | 18.555068 | 79.656566 | 11.68             | I        | ADAVISRIRAMPUR | 42 | 18.583514 | 79.599058 | 15.20             | IV       | BEGAMPET    | 82  | 18.665302 | 79.771473 | 21.22             | II       | ARINDA     |
| 3  | 18.542484 | 79.655118 | 22.50             | I        | ADAVISRIRAMPUR | 43 | 18.602477 | 79.593512 | 9.90              | IV       | BEGAMPET    | 83  | 18.667466 | 79.768817 | 17.11             | II       | ARINDA     |
| 4  | 18.536189 | 79.664370 | 23.29             | I        | ADAVISRIRAMPUR | 44 | 18.612776 | 79.592956 | 9.03              | IV       | BEGAMPET    | 84  | 18.663264 | 79.767390 | 41.39             | V        | ARINDA     |
| 5  | 18.518452 | 79.641143 | 15.00             | II       | ADAVISRIRAMPUR | 45 | 18.592736 | 79.596929 | 34.19             | V        | BEGAMPET    | 85  | 18.622405 | 79.762580 | 17.21             | I        | BHATPALLY  |
| 6  | 18.528784 | 79.655414 | 12.77             | II       | ADAVISRIRAMPUR | 46 | 18.560078 | 79.615189 | 9.14              | II       | MAIDAMBANDA | 86  | 18.608659 | 79.754061 | 10.51             | I        | BHATPALLY  |
| 7  | 18.554400 | 79.654314 | 29.51             | II       | ADAVISRIRAMPUR | 47 | 18.561195 | 79.611662 | 13.73             | II       | MAIDAMBANDA | 87  | 18.613205 | 79.767962 | 6.21              | I        | BHATPALLY  |
| 8  | 18.526968 | 79.666482 | 14.29             | II       | ADAVISRIRAMPUR | 48 | 18.554048 | 79.629156 | 31.30             | III      | MAIDAMBANDA | 88  | 18.612184 | 79.759462 | 6.77              | I        | BHATPALLY  |
| 9  | 18.546257 | 79.645466 | 15.41             | II       | ADAVISRIRAMPUR | 49 | 18.563182 | 79.616414 | 8.76              | IV       | MAIDAMBANDA | 89  | 18.621336 | 79.761602 | 5.31              | I        | BHATPALLY  |
| 10 | 18.525422 | 79.658063 | 7.64              | II       | ADAVISRIRAMPUR | 50 | 18.563946 | 79.609034 | 18.41             | IV       | MAIDAMBANDA | 90  | 18.631469 | 79.751751 | 6.85              | I        | BHATPALLY  |
| 11 | 18.520514 | 79.668982 | 22.27             | II       | ADAVISRIRAMPUR | 51 | 18.586205 | 79.605990 | 21.52             | IV       | MAIDAMBANDA | 91  | 18.630520 | 79.761446 | 4.69              | I        | BHATPALLY  |
| 12 | 18.555453 | 79.642884 | 16.36             | II       | ADAVISRIRAMPUR | 52 | 18.578123 | 79.609554 | 20.76             | IV       | MAIDAMBANDA | 92  | 18.618195 | 79.755474 | 8.19              | II       | BHATPALLY  |
| 13 | 18.548943 | 79.644388 | 12.53             | II       | ADAVISRIRAMPUR | 53 | 18.579518 | 79.607695 | 18.72             | IV       | MAIDAMBANDA | 93  | 18.626622 | 79.747496 | 13.54             | II       | BHATPALLY  |
| 14 | 18.540551 | 79.649997 | 17.99             | II       | ADAVISRIRAMPUR | 54 | 18.556524 | 79.630629 | 23.66             | IV       | MAIDAMBANDA | 94  | 18.613293 | 79.748909 | 15.52             | II       | BHATPALLY  |
| 15 | 18.557869 | 79.642046 | 16.81             | II       | ADAVISRIRAMPUR | 55 | 18.582356 | 79.606787 | 20.19             | IV       | MAIDAMBANDA | 95  | 18.620344 | 79.752346 | 13.96             | II       | BHATPALLY  |
| 16 | 18.525088 | 79.667079 | 9.20              | II       | ADAVISRIRAMPUR | 56 | 18.561135 | 79.606711 | 10.81             | IV       | MAIDAMBANDA | 96  | 18.618893 | 79.756007 | 9.20              | II       | BHATPALLY  |
| 17 | 18.527229 | 79.673584 | 13.06             | II       | ADAVISRIRAMPUR | 57 | 18.580935 | 79.606628 | 6.53              | IV       | MAIDAMBANDA | 97  | 18.623905 | 79.745076 | 10.29             | II       | BHATPALLY  |
| 18 | 18.548252 | 79.656173 | 34.78             | III      | ADAVISRIRAMPUR | 58 | 18.571582 | 79.624685 | 13.95             | IV       | MAIDAMBANDA | 98  | 18.628312 | 79.757824 | 13.50             | II       | BHATPALLY  |
| 19 | 18.526506 | 79.662720 | 27.53             | III      | ADAVISRIRAMPUR | 59 | 18.561773 | 79.621609 | 27.54             | V        | MAIDAMBANDA | 99  | 18.616625 | 79.751879 | 25.60             | III      | BHATPALLY  |
| 20 | 18.513331 | 79.675583 | 10.53             | IV       | ADAVISRIRAMPUR | 60 | 18.573925 | 79.602645 | 41.26             | V        | MAIDAMBANDA | 100 | 18.616026 | 79.740909 | 16.97             | IV       | BHATPALLY  |
| 21 | 18.543534 | 79.656537 | 6.42              | IV       | ADAVISRIRAMPUR | 61 | 18.557161 | 79.613686 | 28.77             | II       | MAIDAMBANDA | 101 | 18.625663 | 79.782252 | 7.14              | I        | SOMANPALLY |
| 22 | 18.542943 | 79.662540 | 5.29              | IV       | ADAVISRIRAMPUR | 62 | 18.581508 | 79.608415 | 31.31             | V        | MAIDAMBANDA | 102 | 18.624383 | 79.785492 | 13.86             | I        | SOMANPALLY |
| 23 | 18.523069 | 79.645739 | 12.65             | IV       | ADAVISRIRAMPUR | 63 | 18.655530 | 79.782727 | 14.53             | I        | ARINDA      | 103 | 18.631721 | 79.763050 | 14.19             | I        | SOMANPALLY |
| 24 | 18.553932 | 79.638876 | 7.78              | IV       | ADAVISRIRAMPUR | 64 | 18.662241 | 79.787249 | 10.20             | I        | ARINDA      | 104 | 18.619669 | 79.778073 | 23.06             | I        | SOMANPALLY |
| 25 | 18.532504 | 79.667465 | 61.63             | III      | ADAVISRIRAMPUR | 65 | 18.660795 | 79.783208 | 9.07              | I        | ARINDA      | 105 | 18.629091 | 79.779893 | 6.71              | I        | SOMANPALLY |
| 26 | 18.606969 | 79.599250 | 6.48              | I        | BEGAMPET       | 66 | 18.658625 | 79.773188 | 15.43             | I        | ARINDA      | 106 | 18.630296 | 79.774466 | 19.45             | I        | SOMANPALLY |
| 27 | 18.614262 | 79.587317 | 6.25              | I        | BEGAMPET       | 67 | 18.664346 | 79.778745 | 24.63             | I        | ARINDA      | 107 | 18.604643 | 79.783359 | 8.59              | I        | SOMANPALLY |
| 28 | 18.608974 | 79.598016 | 4.56              | I        | BEGAMPET       | 68 | 18.673429 | 79.782668 | 5.58              | I        | ARINDA      | 108 | 18.631721 | 79.783555 | 9.13              | I        | SOMANPALLY |
| 29 | 18.609326 | 79.596702 | 5.89              | I        | BEGAMPET       | 69 | 18.653787 | 79.778387 | 11.20             | I        | ARINDA      | 109 | 18.601071 | 79.787702 | 15.47             | I        | SOMANPALLY |
| 30 | 18.613194 | 79.588776 | 5.34              | II       | BEGAMPET       | 70 | 18.679116 | 79.783056 | 13.43             | I        | ARINDA      | 110 | 18.602490 | 79.786053 | 14.85             | I        | SOMANPALLY |
| 31 | 18.595941 | 79.595052 | 20.50             | II       | BEGAMPET       | 71 | 18.672527 | 79.765997 | 14.10             | I        | ARINDA      | 111 | 18.605264 | 79.793694 | 18.93             | I        | SOMANPALLY |
| 32 | 18.607617 | 79.597837 | 5.85              | II       | BEGAMPET       | 72 | 18.673875 | 79.789411 | 21.41             | I        | ARINDA      | 112 | 18.626696 | 79.785444 | 5.22              | I        | SOMANPALLY |
| 33 | 18.610019 | 79.594793 | 5.70              | II       | BEGAMPET       | 73 | 18.659899 | 79.784102 | 12.22             | I        | ARINDA      | 113 | 18.640738 | 79.789399 | 13.06             | I        | SOMANPALLY |
| 34 | 18.589432 | 79.591214 | 5.89              | II       | BEGAMPET       | 74 | 18.680742 | 79.787244 | 11.72             | I        | ARINDA      | 114 | 18.624794 | 79.780897 | 8.35              | I        | SOMANPALLY |
| 35 | 18.613043 | 79.589841 | 6.41              | II       | BEGAMPET       | 75 | 18.661503 | 79.781794 | 16.06             | I        | ARINDA      | 115 | 18.648976 | 79.786536 | 23.28             | I        | SOMANPALLY |
| 36 | 18.597565 | 79.597669 | 7.95              | IV       | BEGAMPET       | 76 | 18.675965 | 79.772983 | 12.04             | II       | ARINDA      | 116 | 18.643074 | 79.795595 | 13.70             | I        | SOMANPALLY |
| 37 | 18.582251 | 79.598188 | 15.73             | IV       | BEGAMPET       | 77 | 18.672230 | 79.775084 | 11.39             | II       | ARINDA      | 117 | 18.634316 | 79.771991 | 14.37             | II       | SOMANPALLY |
| 38 | 18.590102 | 79.583964 | 5.69              | IV       | BEGAMPET       | 78 | 18.673006 | 79.773913 | 7.20              | II       | ARINDA      | 118 | 18.625646 | 79.771753 | 41.63             | II       | SOMANPALLY |
| 39 | 18.603068 | 79.601727 | 5.39              | IV       | BEGAMPET       | 79 | 18.667229 | 79.782214 | 15.37             | II       | ARINDA      | 119 | 18.616527 | 79.776051 | 5.98              | II       | SOMANPALLY |
| 40 | 18.600269 | 79.597021 | 18.07             | IV       | BEGAMPET       | 80 | 18.660178 | 79.772878 | 16.37             | II       | ARINDA      | 120 | 18.621321 | 79.766018 | 15.32             | II       | SOMANPALLY |

## List of Proposed PTs – Manthani Range

| ID  | Latitude  | Longitude | Catchment Area_Ha | Priority | Beat       | ID  | Latitude  | Longitude | Catchment Area_Ha | Priority | Beat        | ID  | Latitude  | Longitude | Catchment Area_Ha | Priority | Beat        |
|-----|-----------|-----------|-------------------|----------|------------|-----|-----------|-----------|-------------------|----------|-------------|-----|-----------|-----------|-------------------|----------|-------------|
| 121 | 18.616127 | 79.769388 | 5.93              | II       | SOMANPALLY | 161 | 18.668757 | 79.728438 | 11.17             | II       | KHANAPUR    | 201 | 18.588680 | 79.774945 | 23.41             | II       | CHINNAODALA |
| 122 | 18.632323 | 79.778428 | 35.76             | III      | SOMANPALLY | 162 | 18.651726 | 79.724667 | 14.33             | II       | KHANAPUR    | 202 | 18.605048 | 79.751223 | 42.62             | III      | CHINNAODALA |
| 123 | 18.616365 | 79.781596 | 49.01             | III      | SOMANPALLY | 163 | 18.659202 | 79.720593 | 5.44              | II       | KHANAPUR    | 203 | 18.592875 | 79.782280 | 29.79             | III      | CHINNAODALA |
| 124 | 18.617999 | 79.768100 | 78.27             | IV       | SOMANPALLY | 164 | 18.657687 | 79.731451 | 39.69             | III      | KHANAPUR    | 204 | 18.610988 | 79.744007 | 7.79              | IV       | CHINNAODALA |
| 125 | 18.620797 | 79.731382 | 8.23              | I        | EKLASPUR   | 165 | 18.655931 | 79.718635 | 42.31             | III      | KHANAPUR    | 205 | 18.582173 | 79.778919 | 12.30             | IV       | CHINNAODALA |
| 126 | 18.617756 | 79.733065 | 11.38             | I        | EKLASPUR   | 166 | 18.661045 | 79.759418 | 20.86             | I        | KHANSAIPET  | 206 | 18.588818 | 79.781507 | 30.57             | V        | CHINNAODALA |
| 127 | 18.632495 | 79.728669 | 21.51             | I        | EKLASPUR   | 167 | 18.646166 | 79.746813 | 15.74             | I        | KHANSAIPET  | 207 | 18.614556 | 79.712458 | 10.88             | I        | GOPALPUR    |
| 128 | 18.628628 | 79.712850 | 6.34              | I        | EKLASPUR   | 168 | 18.662659 | 79.745583 | 15.77             | I        | KHANSAIPET  | 208 | 18.604049 | 79.716712 | 18.02             | I        | GOPALPUR    |
| 129 | 18.626090 | 79.713394 | 18.21             | I        | EKLASPUR   | 169 | 18.652570 | 79.743339 | 12.57             | I        | KHANSAIPET  | 209 | 18.610841 | 79.724431 | 18.39             | I        | GOPALPUR    |
| 130 | 18.644742 | 79.718395 | 10.05             | I        | EKLASPUR   | 170 | 18.658654 | 79.739716 | 10.51             | I        | KHANSAIPET  | 210 | 18.593379 | 79.721074 | 14.03             | I        | GOPALPUR    |
| 131 | 18.641257 | 79.745073 | 11.89             | I        | EKLASPUR   | 171 | 18.659298 | 79.746517 | 20.18             | I        | KHANSAIPET  | 211 | 18.604308 | 79.721183 | 14.39             | I        | GOPALPUR    |
| 132 | 18.623755 | 79.715847 | 16.06             | II       | EKLASPUR   | 172 | 18.649753 | 79.741498 | 21.81             | I        | KHANSAIPET  | 212 | 18.606482 | 79.706447 | 18.76             | I        | GOPALPUR    |
| 133 | 18.622184 | 79.714449 | 13.70             | II       | EKLASPUR   | 173 | 18.651263 | 79.730148 | 7.93              | I        | KHANSAIPET  | 213 | 18.600941 | 79.739874 | 9.91              | I        | GOPALPUR    |
| 134 | 18.634129 | 79.734278 | 13.27             | II       | EKLASPUR   | 174 | 18.656184 | 79.738141 | 9.70              | I        | KHANSAIPET  | 214 | 18.612541 | 79.709336 | 12.03             | I        | GOPALPUR    |
| 135 | 18.636454 | 79.739565 | 22.24             | II       | EKLASPUR   | 175 | 18.649293 | 79.732412 | 14.43             | I        | KHANSAIPET  | 215 | 18.599797 | 79.740279 | 6.58              | I        | GOPALPUR    |
| 136 | 18.629319 | 79.715013 | 23.55             | II       | EKLASPUR   | 176 | 18.670305 | 79.755362 | 19.48             | I        | KHANSAIPET  | 216 | 18.610722 | 79.733356 | 14.37             | II       | GOPALPUR    |
| 137 | 18.613676 | 79.729677 | 11.07             | II       | EKLASPUR   | 177 | 18.656832 | 79.734125 | 8.74              | II       | KHANSAIPET  | 217 | 18.598741 | 79.714965 | 25.56             | II       | GOPALPUR    |
| 138 | 18.634592 | 79.716381 | 18.87             | II       | EKLASPUR   | 178 | 18.643616 | 79.734431 | 9.24              | II       | KHANSAIPET  | 218 | 18.614936 | 79.715934 | 15.19             | II       | GOPALPUR    |
| 139 | 18.640267 | 79.741443 | 4.97              | II       | EKLASPUR   | 179 | 18.652375 | 79.734069 | 7.48              | II       | KHANSAIPET  | 219 | 18.605551 | 79.735227 | 11.39             | II       | GOPALPUR    |
| 140 | 18.627182 | 79.739555 | 5.66              | II       | EKLASPUR   | 180 | 18.657000 | 79.760037 | 29.26             | II       | KHANSAIPET  | 220 | 18.607152 | 79.733782 | 9.97              | II       | GOPALPUR    |
| 141 | 18.632028 | 79.744732 | 13.09             | II       | EKLASPUR   | 181 | 18.651183 | 79.742425 | 7.34              | II       | KHANSAIPET  | 221 | 18.604509 | 79.736725 | 12.11             | II       | GOPALPUR    |
| 142 | 18.630646 | 79.732747 | 27.19             | III      | EKLASPUR   | 182 | 18.604973 | 79.747685 | 15.28             | I        | CHINNAODALA | 222 | 18.611044 | 79.719532 | 11.83             | II       | GOPALPUR    |
| 143 | 18.641752 | 79.726714 | 42.96             | III      | EKLASPUR   | 183 | 18.606678 | 79.771413 | 7.81              | I        | CHINNAODALA | 223 | 18.598909 | 79.726448 | 24.56             | II       | GOPALPUR    |
| 144 | 18.642190 | 79.717382 | 4.85              | IV       | EKLASPUR   | 184 | 18.596113 | 79.757671 | 11.96             | I        | CHINNAODALA | 224 | 18.586399 | 79.758702 | 14.85             | II       | GOPALPUR    |
| 145 | 18.636743 | 79.714532 | 14.49             | IV       | EKLASPUR   | 185 | 18.597549 | 79.753233 | 10.44             | I        | CHINNAODALA | 225 | 18.614830 | 79.706702 | 9.80              | II       | GOPALPUR    |
| 146 | 18.619980 | 79.714176 | 24.41             | IV       | EKLASPUR   | 186 | 18.595913 | 79.769467 | 11.29             | I        | CHINNAODALA | 226 | 18.597950 | 79.741327 | 9.88              | II       | GOPALPUR    |
| 147 | 18.639434 | 79.730683 | 84.57             | IV       | EKLASPUR   | 187 | 18.594531 | 79.757874 | 10.12             | I        | CHINNAODALA | 227 | 18.600816 | 79.730737 | 22.86             | II       | GOPALPUR    |
| 148 | 18.663094 | 79.736984 | 13.25             | I        | KHANAPUR   | 188 | 18.591745 | 79.777711 | 17.01             | I        | CHINNAODALA | 228 | 18.613909 | 79.718044 | 21.12             | II       | GOPALPUR    |
| 149 | 18.664761 | 79.738827 | 7.05              | I        | KHANAPUR   | 189 | 18.607601 | 79.774355 | 11.18             | II       | CHINNAODALA | 229 | 18.605577 | 79.735780 | 8.27              | II       | GOPALPUR    |
| 150 | 18.656657 | 79.726750 | 16.26             | I        | KHANAPUR   | 190 | 18.588956 | 79.778125 | 6.49              | II       | CHINNAODALA | 230 | 18.595094 | 79.720949 | 18.76             | II       | GOPALPUR    |
| 151 | 18.670310 | 79.732271 | 17.19             | I        | KHANAPUR   | 191 | 18.593558 | 79.768993 | 14.71             | II       | CHINNAODALA | 231 | 18.600147 | 79.712714 | 17.49             | II       | GOPALPUR    |
| 152 | 18.664437 | 79.716394 | 12.61             | I        | KHANAPUR   | 192 | 18.593910 | 79.759052 | 10.14             | II       | CHINNAODALA | 232 | 18.594948 | 79.743026 | 11.35             | II       | GOPALPUR    |
| 153 | 18.667665 | 79.711569 | 16.28             | I        | KHANAPUR   | 193 | 18.594316 | 79.764068 | 27.54             | II       | CHINNAODALA | 233 | 18.598420 | 79.740395 | 8.03              | II       | GOPALPUR    |
| 154 | 18.665765 | 79.724498 | 8.83              | I        | KHANAPUR   | 194 | 18.595704 | 79.785229 | 7.48              | II       | CHINNAODALA | 234 | 18.602319 | 79.738731 | 16.88             | II       | GOPALPUR    |
| 155 | 18.654954 | 79.713150 | 6.22              | I        | KHANAPUR   | 195 | 18.600589 | 79.766734 | 15.29             | II       | CHINNAODALA | 235 | 18.590167 | 79.745131 | 14.81             | IV       | GOPALPUR    |
| 156 | 18.648600 | 79.724022 | 21.99             | II       | KHANAPUR   | 196 | 18.602397 | 79.774136 | 10.80             | II       | CHINNAODALA | 236 | 18.612645 | 79.728120 | 11.56             | IV       | GOPALPUR    |
| 157 | 18.651261 | 79.718287 | 21.12             | II       | KHANAPUR   | 197 | 18.587189 | 79.768832 | 16.12             | II       | CHINNAODALA | 237 | 18.586958 | 79.756034 | 9.80              | IV       | GOPALPUR    |
| 158 | 18.669313 | 79.715998 | 12.54             | II       | KHANAPUR   | 198 | 18.585910 | 79.784052 | 8.42              | II       | CHINNAODALA | 238 | 18.589125 | 79.749003 | 25.21             | V        | GOPALPUR    |
| 159 | 18.667115 | 79.718394 | 14.52             | II       | KHANAPUR   | 199 | 18.599306 | 79.779040 | 13.28             | II       | CHINNAODALA | 239 | 18.538488 | 79.698551 | 10.92             | I        | KAMMAMPALLY |
| 160 | 18.661428 | 79.713211 | 22.45             | II       | KHANAPUR   | 200 | 18.595532 | 79.759771 | 9.26              | II       | CHINNAODALA | 240 | 18.522419 | 79.694953 | 7.04              | I        | KAMMAMPALLY |

## List of Proposed PTs – Manthani Range

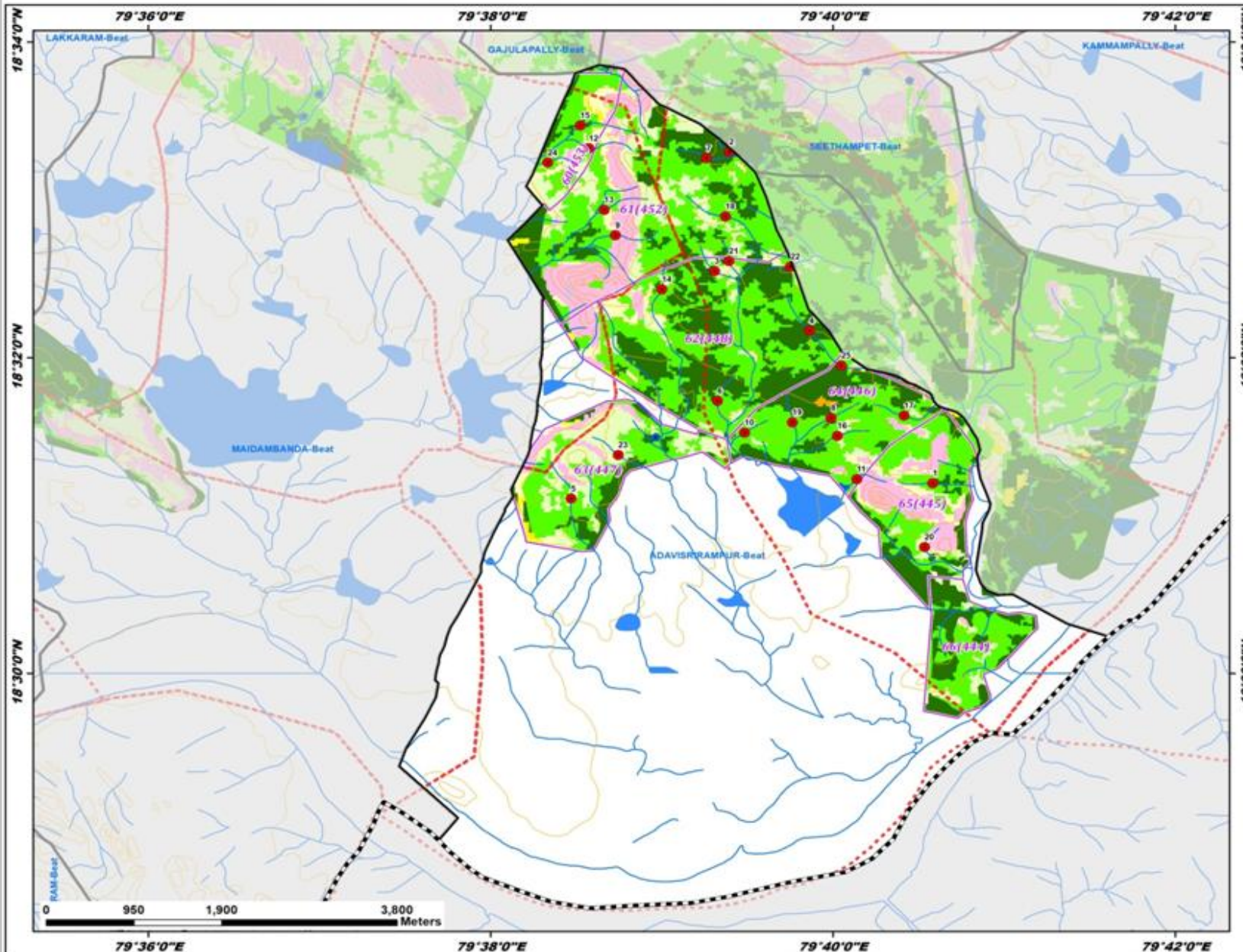
| ID  | Latitude  | Longitude | Catchment Area_Ha | Priority | Beat        |
|-----|-----------|-----------|-------------------|----------|-------------|
| 241 | 18.524215 | 79.695529 | 5.06              | I        | KAMMAMPALLY |
| 242 | 18.518416 | 79.691202 | 8.51              | I        | KAMMAMPALLY |
| 243 | 18.527181 | 79.694187 | 9.00              | II       | KAMMAMPALLY |
| 244 | 18.518846 | 79.685714 | 12.72             | II       | KAMMAMPALLY |
| 245 | 18.539185 | 79.693692 | 13.41             | II       | KAMMAMPALLY |
| 246 | 18.531501 | 79.692235 | 5.77              | II       | KAMMAMPALLY |
| 247 | 18.534009 | 79.689568 | 6.59              | II       | KAMMAMPALLY |
| 248 | 18.530591 | 79.694521 | 5.45              | II       | KAMMAMPALLY |
| 249 | 18.547908 | 79.661239 | 22.59             | II       | KAMMAMPALLY |
| 250 | 18.531839 | 79.691297 | 5.87              | II       | KAMMAMPALLY |
| 251 | 18.537883 | 79.689374 | 17.24             | II       | KAMMAMPALLY |
| 252 | 18.529186 | 79.681937 | 12.73             | II       | KAMMAMPALLY |
| 253 | 18.536026 | 79.686200 | 15.88             | II       | KAMMAMPALLY |
| 254 | 18.526477 | 79.689749 | 29.25             | III      | KAMMAMPALLY |
| 255 | 18.527476 | 79.679623 | 11.60             | IV       | KAMMAMPALLY |
| 256 | 18.541703 | 79.681768 | 18.47             | I        | SEETHAMPET  |
| 257 | 18.554963 | 79.675653 | 15.11             | I        | SEETHAMPET  |
| 258 | 18.560006 | 79.674809 | 10.22             | II       | SEETHAMPET  |
| 259 | 18.531961 | 79.681309 | 11.22             | II       | SEETHAMPET  |
| 260 | 18.574464 | 79.653126 | 11.18             | II       | SEETHAMPET  |
| 261 | 18.564802 | 79.659341 | 12.75             | II       | SEETHAMPET  |
| 262 | 18.533957 | 79.682575 | 31.08             | III      | SEETHAMPET  |
| 263 | 18.562033 | 79.656141 | 45.97             | III      | SEETHAMPET  |
| 264 | 18.558242 | 79.669260 | 10.02             | IV       | SEETHAMPET  |
| 265 | 18.565576 | 79.664844 | 8.03              | IV       | SEETHAMPET  |
| 266 | 18.570316 | 79.641911 | 10.50             | I        | GAJULAPALLY |
| 267 | 18.571998 | 79.647592 | 13.36             | I        | GAJULAPALLY |
| 268 | 18.572574 | 79.633291 | 12.16             | II       | GAJULAPALLY |
| 269 | 18.579455 | 79.636405 | 6.49              | II       | GAJULAPALLY |
| 270 | 18.582575 | 79.646280 | 7.18              | II       | GAJULAPALLY |
| 271 | 18.567997 | 79.638426 | 32.51             | III      | GAJULAPALLY |
| 272 | 18.581659 | 79.631760 | 12.65             | IV       | GAJULAPALLY |
| 273 | 18.577793 | 79.643827 | 5.55              | IV       | GAJULAPALLY |
| 274 | 18.589338 | 79.627770 | 19.18             | IV       | GAJULAPALLY |
| 275 | 18.602029 | 79.616558 | 8.29              | IV       | GAJULAPALLY |
| 276 | 18.583796 | 79.615397 | 10.03             | IV       | GAJULAPALLY |
| 277 | 18.590073 | 79.611622 | 10.83             | IV       | GAJULAPALLY |
| 278 | 18.575708 | 79.641133 | 11.24             | IV       | GAJULAPALLY |
| 279 | 18.593107 | 79.609015 | 16.33             | IV       | GAJULAPALLY |
| 280 | 18.592473 | 79.625291 | 28.74             | V        | GAJULAPALLY |

| ID  | Latitude  | Longitude | Catchment Area_Ha | Priority | Beat        |
|-----|-----------|-----------|-------------------|----------|-------------|
| 281 | 18.590520 | 79.632218 | 33.51             | V        | GAJULAPALLY |
| 282 | 18.595266 | 79.605545 | 31.50             | V        | GAJULAPALLY |
| 283 | 18.661263 | 79.561626 | 8.37              | I        | GUNJAPADUGU |
| 284 | 18.671068 | 79.572716 | 8.98              | I        | GUNJAPADUGU |
| 285 | 18.672328 | 79.557788 | 22.01             | I        | GUNJAPADUGU |
| 286 | 18.662644 | 79.582697 | 15.78             | I        | GUNJAPADUGU |
| 287 | 18.683510 | 79.544165 | 9.13              | I        | GUNJAPADUGU |
| 288 | 18.672496 | 79.562280 | 9.10              | I        | GUNJAPADUGU |
| 289 | 18.677140 | 79.573680 | 10.01             | I        | GUNJAPADUGU |
| 290 | 18.665344 | 79.569552 | 16.39             | I        | GUNJAPADUGU |
| 291 | 18.675263 | 79.568610 | 7.86              | I        | GUNJAPADUGU |
| 292 | 18.667118 | 79.576593 | 13.71             | I        | GUNJAPADUGU |
| 293 | 18.675549 | 79.572569 | 6.28              | I        | GUNJAPADUGU |
| 294 | 18.681005 | 79.573822 | 12.62             | I        | GUNJAPADUGU |
| 295 | 18.673787 | 79.567039 | 18.47             | I        | GUNJAPADUGU |
| 296 | 18.672034 | 79.574156 | 13.95             | I        | GUNJAPADUGU |
| 297 | 18.673732 | 79.555687 | 8.50              | I        | GUNJAPADUGU |
| 298 | 18.685409 | 79.551198 | 11.96             | I        | GUNJAPADUGU |

# Map Showing Suitability index for Construction of SMC Works of A Davisirampur Beat



Division : Peddapally  
Range : Manthani



| ID | Latitude  | Longitude | Catchment Area_ha | Priority |
|----|-----------|-----------|-------------------|----------|
| 1  | 18.520090 | 79.676381 | 20.89             | I        |
| 2  | 18.555068 | 79.656566 | 11.68             | I        |
| 3  | 18.542484 | 79.655118 | 22.50             | I        |
| 4  | 18.536189 | 79.664370 | 23.29             | I        |
| 5  | 18.518452 | 79.641143 | 15.00             | II       |
| 6  | 18.528784 | 79.655414 | 12.77             | II       |
| 7  | 18.554400 | 79.654314 | 29.51             | II       |
| 8  | 18.526968 | 79.666482 | 14.29             | II       |
| 9  | 18.546257 | 79.645466 | 15.41             | II       |
| 10 | 18.525422 | 79.658063 | 7.64              | II       |
| 11 | 18.520514 | 79.668982 | 22.27             | II       |
| 12 | 18.555453 | 79.642884 | 16.36             | II       |
| 13 | 18.548943 | 79.644388 | 12.53             | II       |
| 14 | 18.540551 | 79.649997 | 17.99             | II       |
| 15 | 18.557869 | 79.642046 | 16.81             | II       |
| 16 | 18.525088 | 79.667079 | 9.20              | II       |
| 17 | 18.527229 | 79.673584 | 13.06             | II       |
| 18 | 18.548252 | 79.656173 | 34.78             | III      |
| 19 | 18.526506 | 79.662720 | 27.53             | III      |
| 20 | 18.513331 | 79.675583 | 10.53             | IV       |
| 21 | 18.543534 | 79.656537 | 6.42              | IV       |
| 22 | 18.542943 | 79.662540 | 5.29              | IV       |
| 23 | 18.523069 | 79.645739 | 12.65             | IV       |
| 24 | 18.553932 | 79.638876 | 7.78              | IV       |
| 25 | 18.532504 | 79.667465 | 61.63             | III      |

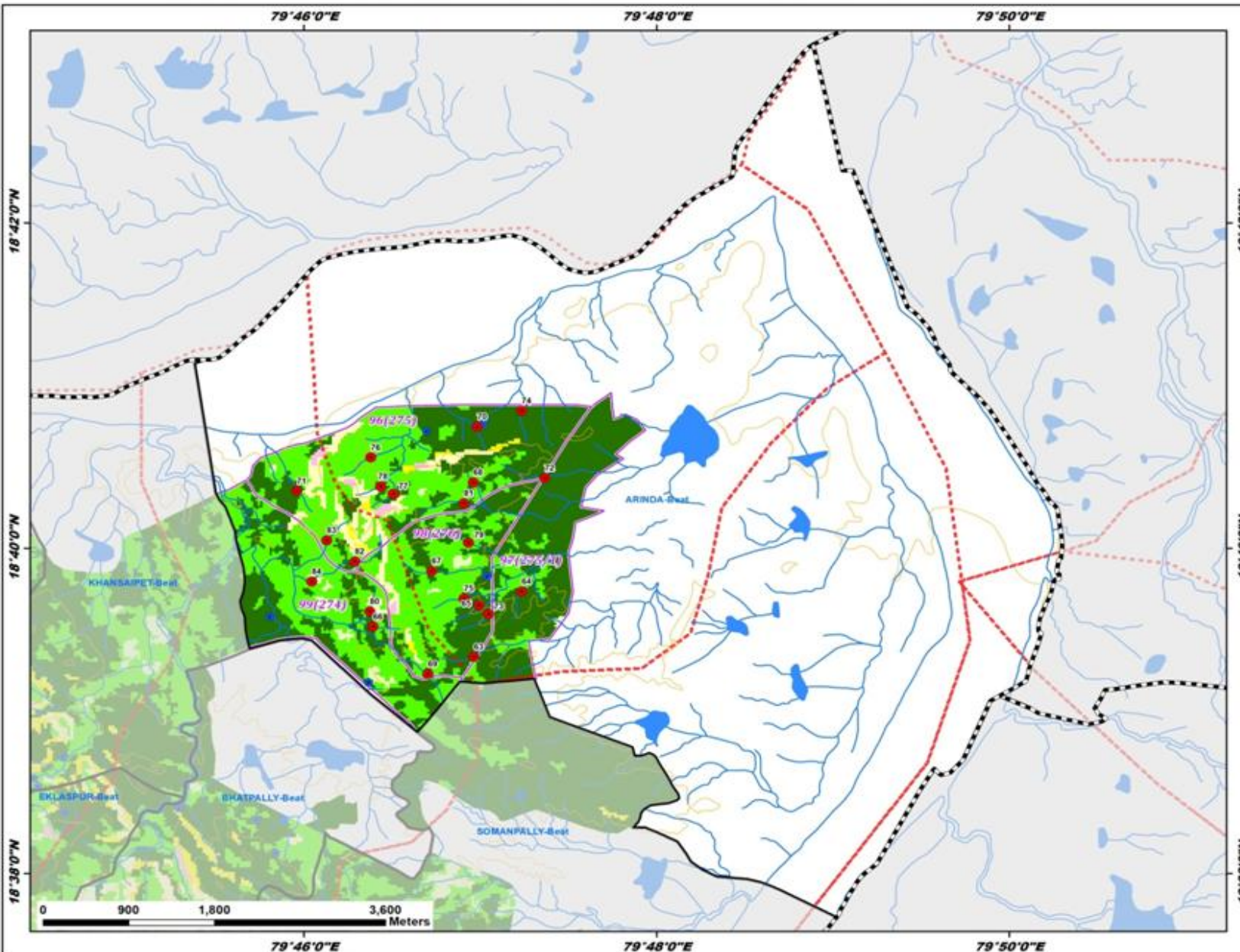
### Legend

- Proposed PTs
  - Existing CD/PTs
  - Contours
  - Streams
  - Watershed Boundary
  - Compartment Boundary
  - Beat Boundary
  - Division Boundary
- ### Suitability Index
- CCTs/SCTs - Highly Suitable
  - CCTs/SCTs - Moderately Suitable
  - CCTs/SCTs - Least Suitable
  - PTs - Highly Suitable
  - PTs - Moderately Suitable
  - PTs - Least Suitable
  - MPTs and SGPs - Suitable
  - Not Suitable
  - Water Body

# Map Showing Suitability index for Construction of SMC Works of Arinda Beat



Division : Peddapally  
Range : Manthani



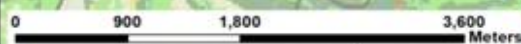
| ID | Latitude  | Longitude | Catchment Area_ha | Priority |
|----|-----------|-----------|-------------------|----------|
| 63 | 18.655530 | 79.782727 | 14.53             | I        |
| 64 | 18.662241 | 79.787249 | 10.20             | I        |
| 65 | 18.660795 | 79.783208 | 9.07              | I        |
| 66 | 18.658625 | 79.773188 | 15.43             | I        |
| 67 | 18.664346 | 79.778745 | 24.63             | I        |
| 68 | 18.673429 | 79.782668 | 5.58              | I        |
| 69 | 18.653787 | 79.778387 | 11.20             | I        |
| 70 | 18.679116 | 79.783056 | 13.43             | I        |
| 71 | 18.672527 | 79.765997 | 14.10             | I        |
| 72 | 18.673875 | 79.789411 | 21.41             | I        |
| 73 | 18.659899 | 79.784102 | 12.22             | I        |
| 74 | 18.680742 | 79.787244 | 11.72             | I        |
| 75 | 18.661503 | 79.781794 | 16.06             | I        |
| 76 | 18.675965 | 79.772983 | 12.04             | II       |
| 77 | 18.672230 | 79.775084 | 11.39             | II       |
| 78 | 18.673006 | 79.773913 | 7.20              | II       |
| 79 | 18.667229 | 79.782214 | 15.37             | II       |
| 80 | 18.660178 | 79.772878 | 16.37             | II       |
| 81 | 18.671270 | 79.781801 | 25.62             | II       |
| 82 | 18.665302 | 79.771473 | 21.22             | II       |
| 83 | 18.667466 | 79.768817 | 17.11             | II       |
| 84 | 18.663264 | 79.767390 | 41.39             | V        |

**Legend**

- Proposed PTs
- Existing CD/PTs
- Contours
- Streams
- Watershed Boundary
- Compartment Boundary
- Beat Boundary
- Division Boundary

**Suitability Index**

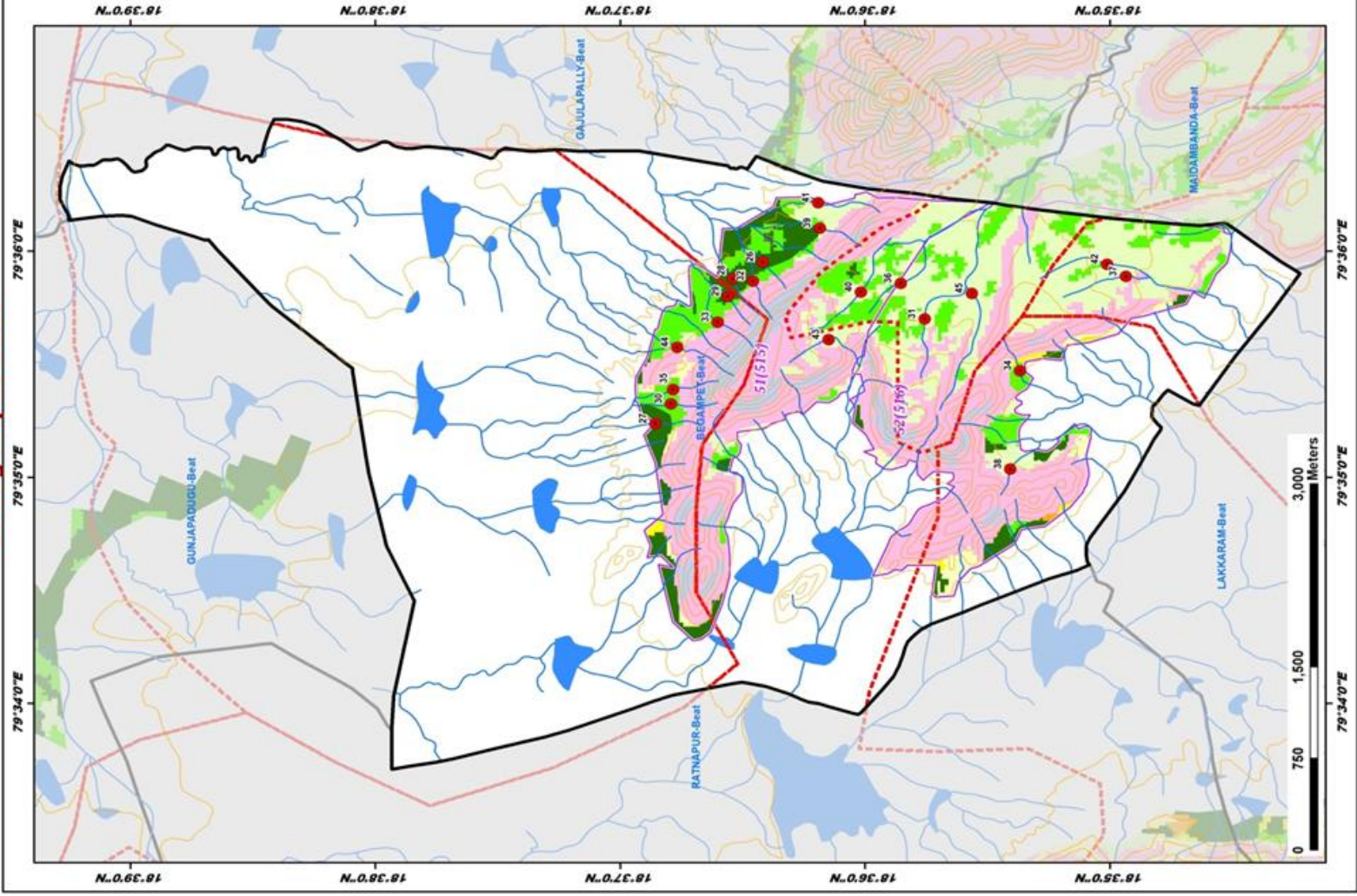
- CCTs/SCTs - Highly Suitable
- CCTs/SCTs - Moderately Suitable
- CCTs/SCTs - Least Suitable
- PTs - Highly Suitable
- PTs - Moderately Suitable
- PTs - Least Suitable
- MPTs and SGPs - Suitable
- Not Suitable
- Water Body



# Map Showing Suitability Index for Construction of SMC Works of Begampet Beat



Division : Peddapally  
Range : Manthani



| ID | Latitude  | Longitude | Catchment Area_ha | Priority |
|----|-----------|-----------|-------------------|----------|
| 26 | 18.606969 | 79.599250 | 6.48              | I        |
| 27 | 18.614262 | 79.587317 | 6.25              | I        |
| 28 | 18.608974 | 79.598016 | 4.56              | I        |
| 29 | 18.609326 | 79.596702 | 5.89              | I        |
| 30 | 18.613194 | 79.588776 | 5.34              | II       |
| 31 | 18.595941 | 79.595052 | 20.50             | II       |
| 32 | 18.607617 | 79.597837 | 5.85              | II       |
| 33 | 18.610019 | 79.594793 | 5.70              | II       |
| 34 | 18.589432 | 79.591214 | 5.89              | II       |
| 35 | 18.613043 | 79.589841 | 6.41              | II       |
| 36 | 18.597565 | 79.597669 | 7.95              | IV       |
| 37 | 18.582251 | 79.598188 | 15.73             | IV       |
| 38 | 18.590102 | 79.583964 | 5.69              | IV       |
| 39 | 18.603068 | 79.601727 | 5.39              | IV       |
| 40 | 18.600269 | 79.597021 | 18.07             | IV       |
| 41 | 18.603178 | 79.603596 | 12.92             | IV       |
| 42 | 18.583514 | 79.599058 | 15.20             | IV       |
| 43 | 18.602477 | 79.593512 | 9.90              | IV       |
| 44 | 18.612776 | 79.592956 | 9.03              | IV       |
| 45 | 18.592736 | 79.596929 | 34.19             | V        |

**LEGEND**

- Proposed PTs (Red dot)
- Existing CDPTs (Blue dot)
- Contours (Thin grey line)
- Streams (Blue line)
- Watershed Boundary (Dashed red line)
- Compartment Boundary (Dotted red line)
- Beat Boundary (Thick black line)
- Division Boundary (Dashed black line)

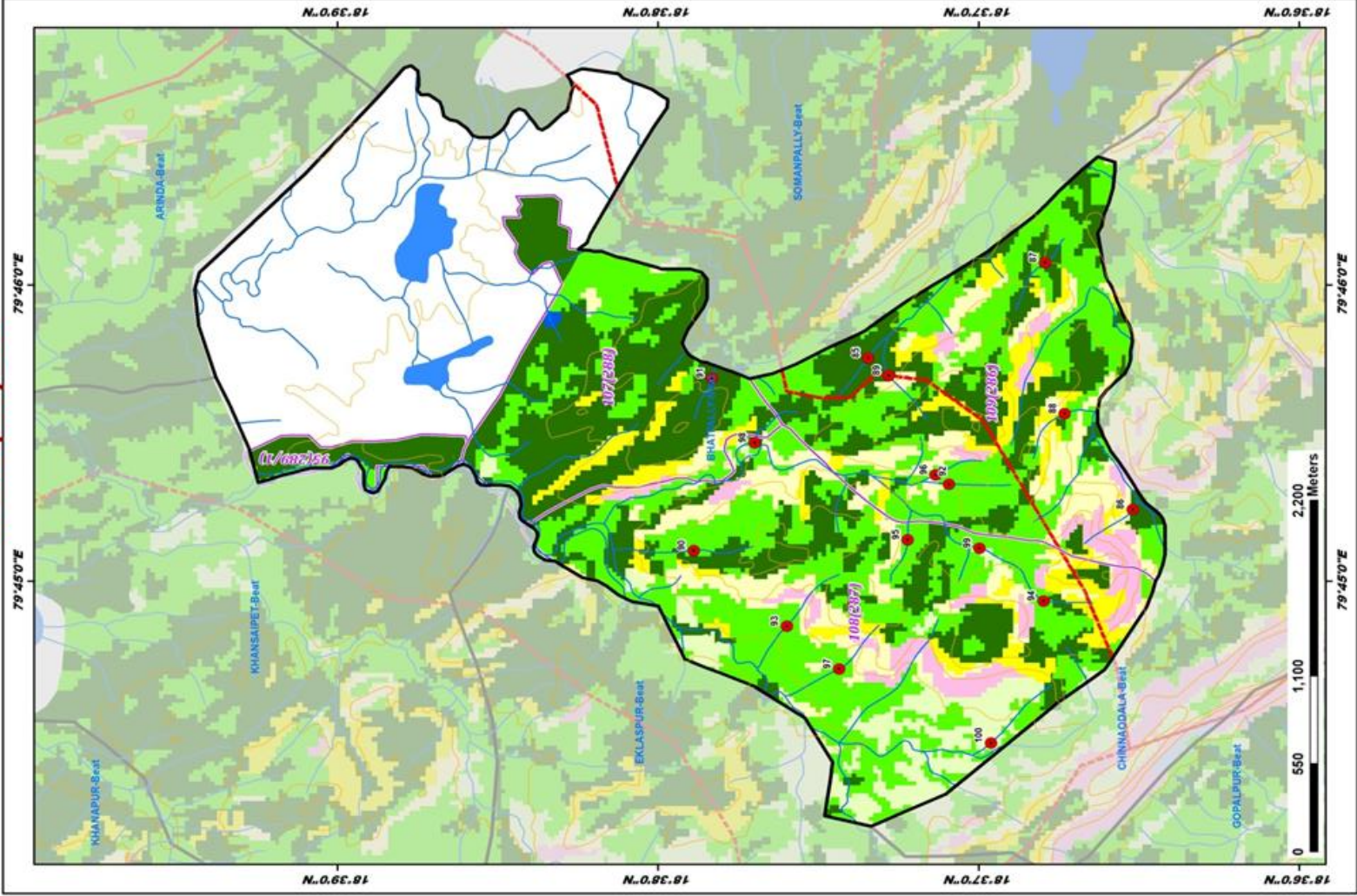
**Suitability Index**

- CCTe/SCTs - Highly Suitable (Orange)
- CCTe/SCTs - Moderately Suitable (Yellow)
- CCTe/SCTs - Least Suitable (Light Green)
- PTs - Highly Suitable (Dark Green)
- PTs - Moderately Suitable (Medium Green)
- PTs - Least Suitable (Light Green)
- MPTs and SGP - Suitable (Pink)
- Not Suitable (Light Blue)
- Water Body (Dark Blue)

# Map Showing Suitability Index for Construction of SMC Works of Bhatpally Beat



Division : Peddapally  
Range : Manthani



| ID  | Latitude  | Longitude | Catchment Area_ha | Priority |
|-----|-----------|-----------|-------------------|----------|
| 85  | 18.622405 | 79.762580 | 17.21             | I        |
| 86  | 18.608659 | 79.754061 | 10.51             | I        |
| 87  | 18.613205 | 79.767962 | 6.21              | I        |
| 88  | 18.612184 | 79.759462 | 6.77              | I        |
| 89  | 18.621336 | 79.761602 | 5.31              | I        |
| 90  | 18.631469 | 79.751751 | 6.85              | I        |
| 91  | 18.630520 | 79.761446 | 4.69              | I        |
| 92  | 18.618195 | 79.755474 | 8.19              | II       |
| 93  | 18.626622 | 79.747496 | 13.54             | II       |
| 94  | 18.613293 | 79.748909 | 15.52             | II       |
| 95  | 18.620344 | 79.752346 | 13.96             | II       |
| 96  | 18.618893 | 79.756007 | 9.20              | II       |
| 97  | 18.623905 | 79.745076 | 10.29             | II       |
| 98  | 18.628312 | 79.757824 | 13.50             | II       |
| 99  | 18.616625 | 79.751879 | 25.60             | III      |
| 100 | 18.616026 | 79.749909 | 16.97             | IV       |

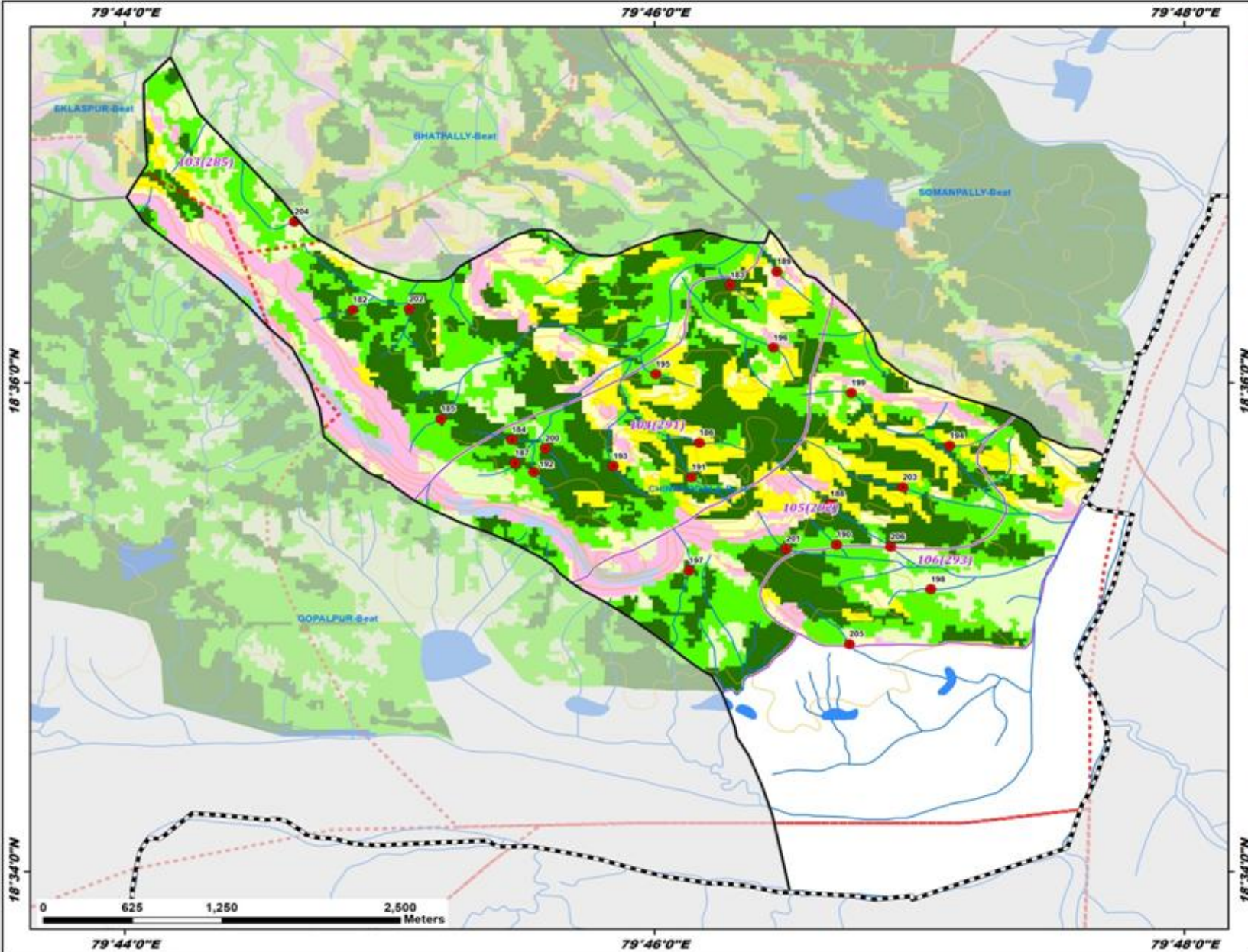
## LEGEND

- Proposed PTs (Red dot)
  - Existing CD/PTs (Blue dot)
  - Contours (Thin grey line)
  - Streams (Blue line)
  - Watershed Boundary (Dashed red line)
  - Compartment Boundary (Dotted red line)
  - Beat Boundary (Thick black line)
  - Division Boundary (Thick black line)
- ### Suitability Index
- CCTe/SCTs - Highly Suitable (Dark Green)
  - CCTe/SCTs - Moderately Suitable (Light Green)
  - CCTe/SCTs - Least Suitable (Yellow)
  - PTs - Highly Suitable (Dark Green)
  - PTs - Moderately Suitable (Light Green)
  - PTs - Least Suitable (Yellow)
  - MPTs and SGPs - Suitable (Pink)
  - Not Suitable (Light Blue)
  - Water Body (Dark Blue)

# Map Showing Suitability index for Construction of SMC Works of Chinnaodala Beat



Division : Peddapally  
Range : Manthani



| ID  | Latitude  | Longitude | Catchment Area_ha | Priority |
|-----|-----------|-----------|-------------------|----------|
| 182 | 18.604973 | 79.747685 | 15.28             | I        |
| 183 | 18.606678 | 79.771413 | 7.81              | I        |
| 184 | 18.596113 | 79.757671 | 11.96             | I        |
| 185 | 18.597549 | 79.753233 | 10.44             | I        |
| 186 | 18.595913 | 79.769467 | 11.29             | I        |
| 187 | 18.594531 | 79.757874 | 10.12             | I        |
| 188 | 18.591745 | 79.777711 | 17.01             | I        |
| 189 | 18.607601 | 79.774355 | 11.18             | II       |
| 190 | 18.588956 | 79.778125 | 6.49              | II       |
| 191 | 18.593558 | 79.768993 | 14.71             | II       |
| 192 | 18.593910 | 79.759052 | 10.14             | II       |
| 193 | 18.594316 | 79.764068 | 27.54             | II       |
| 194 | 18.595704 | 79.785229 | 7.48              | II       |
| 195 | 18.600589 | 79.766734 | 15.29             | II       |
| 196 | 18.602397 | 79.774136 | 10.80             | II       |
| 197 | 18.587189 | 79.768832 | 16.12             | II       |
| 198 | 18.585910 | 79.784052 | 8.42              | II       |
| 199 | 18.599306 | 79.779040 | 13.28             | II       |
| 200 | 18.595532 | 79.759771 | 9.26              | II       |
| 201 | 18.588680 | 79.774945 | 23.41             | II       |
| 202 | 18.605048 | 79.751223 | 42.62             | III      |
| 203 | 18.592875 | 79.782280 | 29.79             | III      |
| 204 | 18.610988 | 79.744007 | 7.79              | IV       |
| 205 | 18.582173 | 79.778919 | 12.30             | IV       |
| 206 | 18.588818 | 79.781507 | 30.57             | V        |

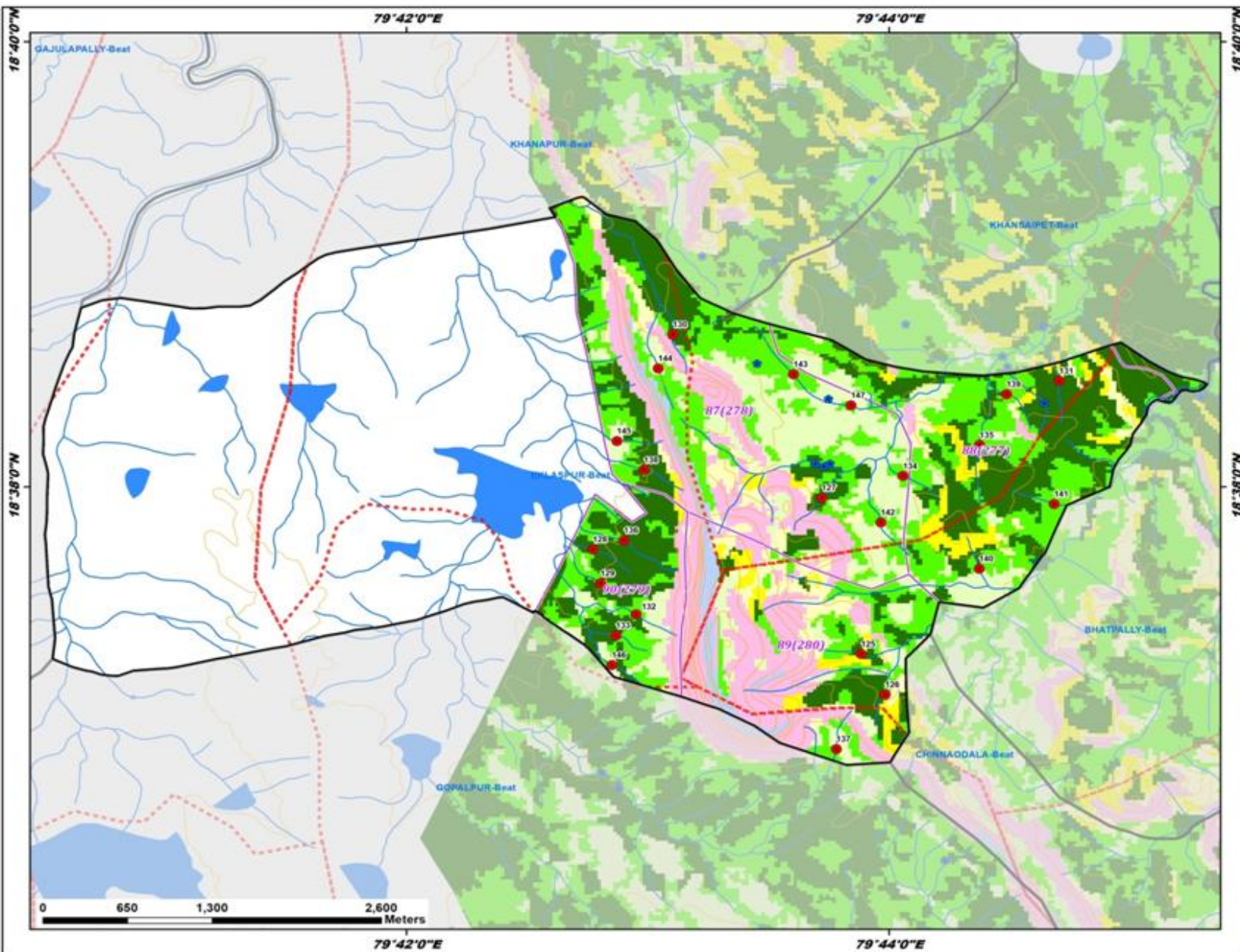
## Legend

- Proposed PTs
  - Existing CD/PTs
  - Contours
  - Streams
  - Watershed Boundary
  - Compartment Boundary
  - Beat Boundary
  - Division Boundary
- ### Suitability Index
- CCTs/SCTs - Highly Suitable
  - CCTs/SCTs - Moderately Suitable
  - CCTs/SCTs - Least Suitable
  - PTs - Highly Suitable
  - PTs - Moderately Suitable
  - PTs - Least Suitable
  - MPTs and SGPs - Suitable
  - Not Suitable
  - Water Body

# Map Showing Suitability index for Construction of SMC Works of Eklaspur Beat

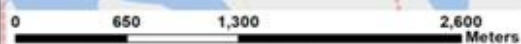


Division : Peddapally  
Range : Manthani



| ID  | Latitude  | Longitude | Catchment Area_ha | Priority |
|-----|-----------|-----------|-------------------|----------|
| 125 | 18.620797 | 79.731382 | 8.23              | I        |
| 126 | 18.617756 | 79.733065 | 11.38             | I        |
| 127 | 18.632495 | 79.728669 | 21.51             | I        |
| 128 | 18.628628 | 79.712850 | 6.34              | I        |
| 129 | 18.626090 | 79.713394 | 18.21             | I        |
| 130 | 18.644742 | 79.718395 | 10.05             | I        |
| 131 | 18.641257 | 79.745073 | 11.89             | I        |
| 132 | 18.623755 | 79.715847 | 16.06             | II       |
| 133 | 18.622184 | 79.714449 | 13.70             | II       |
| 134 | 18.634129 | 79.734278 | 13.27             | II       |
| 135 | 18.636454 | 79.739565 | 22.24             | II       |
| 136 | 18.629319 | 79.715013 | 23.55             | II       |
| 137 | 18.613676 | 79.729677 | 11.07             | II       |
| 138 | 18.634592 | 79.716381 | 18.87             | II       |
| 139 | 18.640267 | 79.741443 | 4.97              | II       |
| 140 | 18.627182 | 79.739555 | 5.66              | II       |
| 141 | 18.632028 | 79.744732 | 13.09             | II       |
| 142 | 18.630646 | 79.732747 | 27.19             | III      |
| 143 | 18.641752 | 79.726714 | 42.96             | III      |
| 144 | 18.642190 | 79.717382 | 4.85              | IV       |
| 145 | 18.636743 | 79.714532 | 14.49             | IV       |
| 146 | 18.619980 | 79.714176 | 24.41             | IV       |
| 147 | 18.639434 | 79.730683 | 84.57             | IV       |

- Legend**
- Proposed PTs
  - Existing CD/PTs
  - Contours
  - Streams
  - Watershed Boundary
  - Compartment Boundary
  - Beat Boundary
  - Division Boundary
- Suitability Index**
- CCTs/SCTs - Highly Suitable
  - CCTs/SCTs - Moderately Suitable
  - CCTs/SCTs - Least Suitable
  - PTs - Highly Suitable
  - PTs - Moderately Suitable
  - PTs - Least Suitable
  - MPTs and SGPs - Suitable
  - Not Suitable
  - Water Body

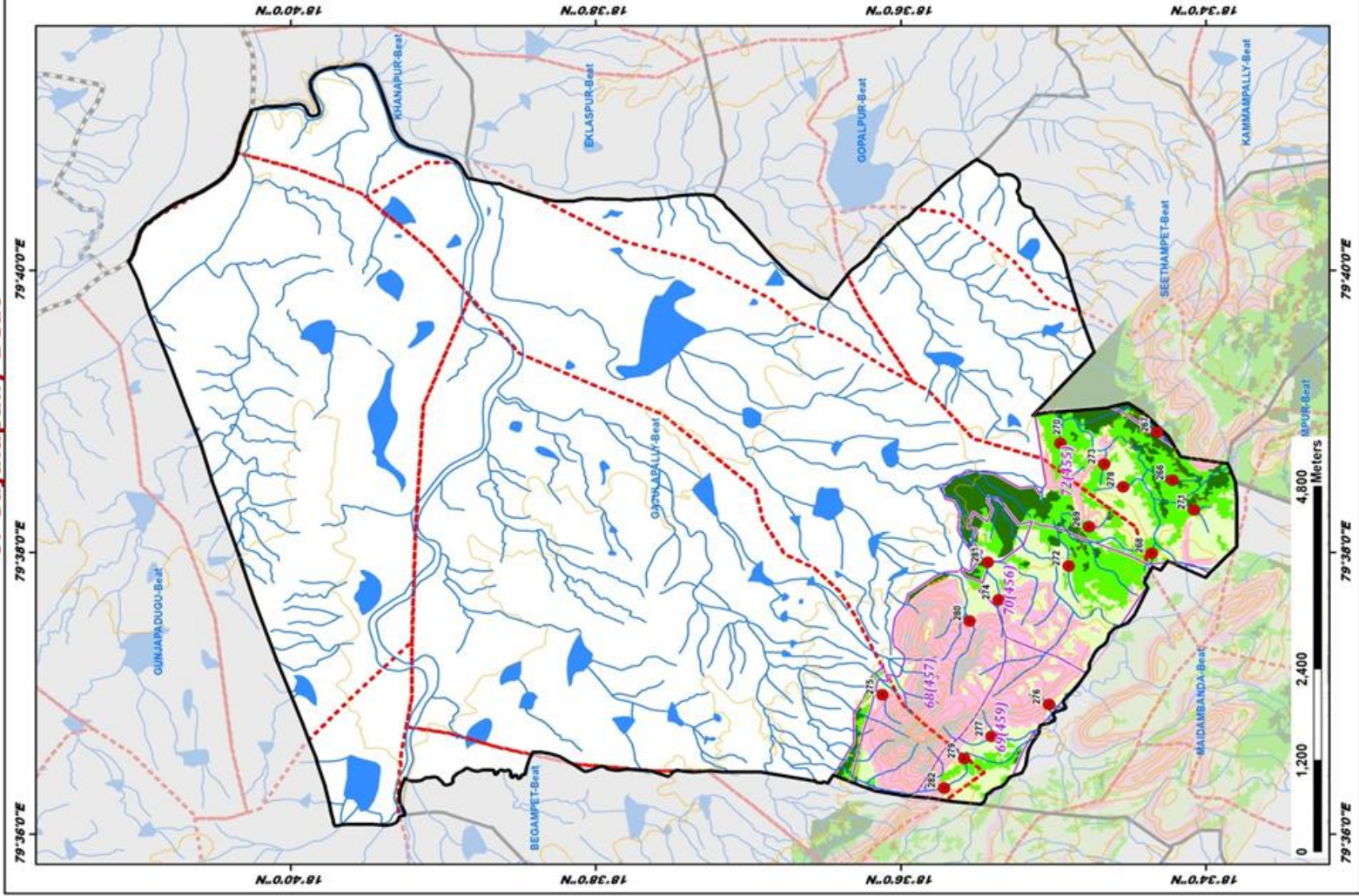


79°42'0"E 79°44'0"E

# Map Showing Suitability Index for Construction of SMC Works of Gajulapally Beat



Division : Peddapally  
Range : Manthani

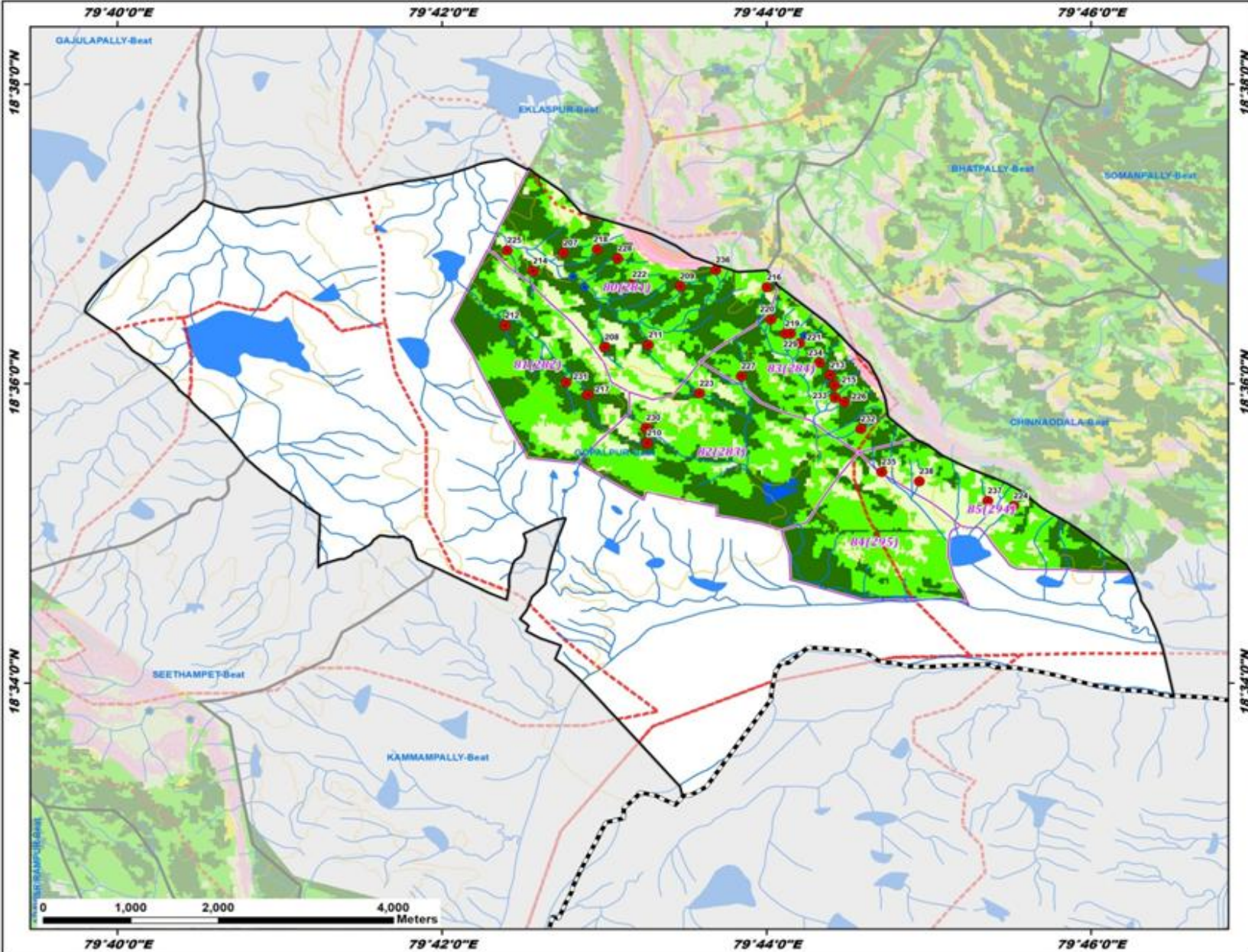


| ID  | Latitude  | Longitude | Catchment Area, ha | Priority |
|-----|-----------|-----------|--------------------|----------|
| 266 | 18.570316 | 79.641911 | 10.50              | I        |
| 267 | 18.571998 | 79.647592 | 13.36              | I        |
| 268 | 18.572574 | 79.633291 | 12.16              | II       |
| 269 | 18.579455 | 79.636405 | 6.49               | II       |
| 270 | 18.582575 | 79.646280 | 7.18               | II       |
| 271 | 18.567997 | 79.639426 | 32.51              | III      |
| 272 | 18.581659 | 79.631760 | 12.65              | IV       |
| 273 | 18.577793 | 79.643827 | 5.55               | IV       |
| 274 | 18.589338 | 79.627770 | 19.18              | IV       |
| 275 | 18.600229 | 79.616558 | 8.29               | IV       |
| 276 | 18.583796 | 79.615397 | 10.03              | IV       |
| 277 | 18.590073 | 79.611622 | 10.83              | IV       |
| 278 | 18.575708 | 79.641133 | 11.24              | IV       |
| 279 | 18.593107 | 79.609015 | 16.33              | IV       |
| 280 | 18.592473 | 79.625291 | 28.74              | IV       |
| 281 | 18.596520 | 79.632218 | 33.51              | V        |
| 282 | 18.595266 | 79.605545 | 31.50              | V        |

### LEGEND

- Proposed PTs
  - Existing CD/PTs
  - Contours
  - Streams
  - Watershed Boundary
  - Compartment Boundary
  - Beat Boundary
  - Division Boundary
- ### Suitability Index
- CCTe/SCTs - Highly Suitable
  - CCTe/SCTs - Moderately Suitable
  - CCTe/SCTs - Least Suitable
  - PTs - Highly Suitable
  - PTs - Moderately Suitable
  - PTs - Least Suitable
  - MPTs and SGPs - Suitable
  - Not Suitable
  - Water Body

# Map Showing Suitability index for Construction of SMC Works of Gopalpur Beat



Division : Peddapally  
Range : Manthani

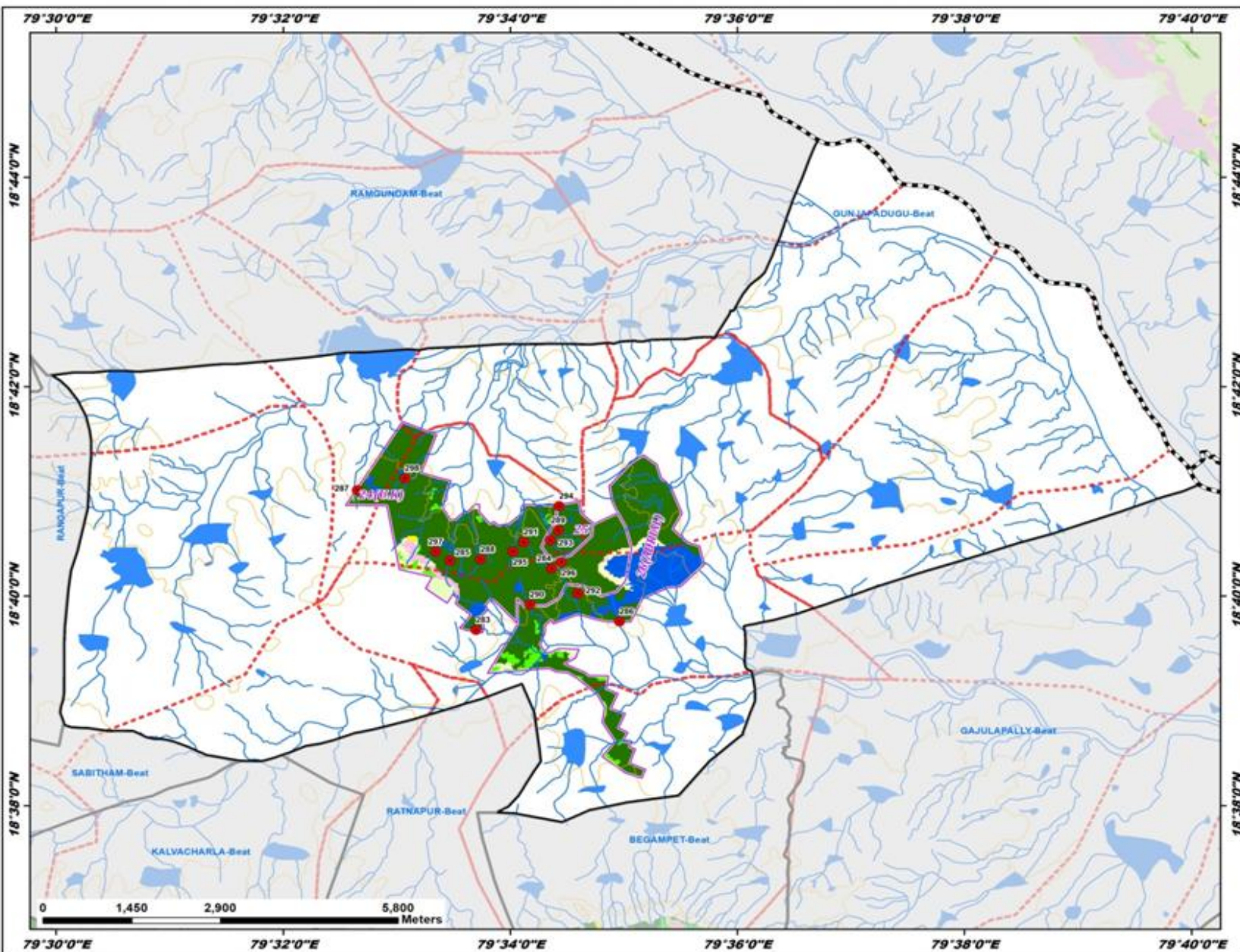
| ID  | Latitude  | Longitude | Catchment Area_ha | Priority |
|-----|-----------|-----------|-------------------|----------|
| 207 | 18.614556 | 79.712458 | 10.88             | I        |
| 208 | 18.604049 | 79.716712 | 18.02             | I        |
| 209 | 18.610841 | 79.724431 | 18.39             | I        |
| 210 | 18.593379 | 79.721074 | 14.03             | I        |
| 211 | 18.604308 | 79.721183 | 14.39             | I        |
| 212 | 18.606482 | 79.706447 | 18.76             | I        |
| 213 | 18.600941 | 79.739874 | 9.91              | I        |
| 214 | 18.612541 | 79.709336 | 12.03             | I        |
| 215 | 18.599797 | 79.740279 | 6.58              | I        |
| 216 | 18.610722 | 79.733356 | 14.37             | II       |
| 217 | 18.598741 | 79.714965 | 25.56             | II       |
| 218 | 18.614936 | 79.715934 | 15.19             | II       |
| 219 | 18.605551 | 79.735227 | 11.39             | II       |
| 220 | 18.607152 | 79.733782 | 9.97              | II       |
| 221 | 18.604909 | 79.736725 | 12.11             | II       |
| 222 | 18.611044 | 79.719532 | 11.83             | II       |
| 223 | 18.598909 | 79.726448 | 24.56             | II       |
| 224 | 18.586399 | 79.758702 | 14.85             | II       |
| 225 | 18.614830 | 79.706702 | 9.80              | II       |
| 226 | 18.597950 | 79.741327 | 9.88              | II       |
| 227 | 18.600816 | 79.730737 | 22.86             | II       |
| 228 | 18.613909 | 79.718044 | 21.12             | II       |
| 229 | 18.605577 | 79.735780 | 8.27              | II       |
| 230 | 18.595094 | 79.720949 | 18.76             | II       |
| 231 | 18.600147 | 79.712714 | 17.49             | II       |
| 232 | 18.594948 | 79.743026 | 11.35             | II       |
| 233 | 18.598420 | 79.740395 | 8.03              | II       |
| 234 | 18.602319 | 79.738731 | 16.88             | II       |
| 235 | 18.590157 | 79.745131 | 14.81             | IV       |
| 236 | 18.612645 | 79.728120 | 11.56             | IV       |
| 237 | 18.586958 | 79.756034 | 9.80              | IV       |
| 238 | 18.589125 | 79.749003 | 25.21             | V        |

- Legend**
- Proposed PTs
  - Existing CD/PTs
  - Contours
  - Streams
  - - - Watershed Boundary
  - ▭ Compartment Boundary
  - ▭ Beat Boundary
  - ▭ Division Boundary
- Suitability Index**
- CCTs/SCTs - Highly Suitable
  - CCTs/SCTs - Moderately Suitable
  - CCTs/SCTs - Least Suitable
  - PTs - Highly Suitable
  - PTs - Moderately Suitable
  - PTs - Least Suitable
  - MPTs and SGPs - Suitable
  - Not Suitable
  - Water Body

# Map Showing Suitability index for Construction of SMC Works of Gunjapadugu Beat



Division : Peddapally  
Range : Manthani



| ID  | Latitude  | Longitude | Catchment Area_ha | Priority |
|-----|-----------|-----------|-------------------|----------|
| 283 | 18.661263 | 79.561626 | 8.37              | I        |
| 284 | 18.671068 | 79.572716 | 8.98              | I        |
| 285 | 18.672328 | 79.557788 | 22.01             | I        |
| 286 | 18.662644 | 79.582697 | 15.78             | I        |
| 287 | 18.683510 | 79.544165 | 9.13              | I        |
| 288 | 18.672496 | 79.562280 | 9.10              | I        |
| 289 | 18.677140 | 79.573680 | 10.01             | I        |
| 290 | 18.665344 | 79.569552 | 16.39             | I        |
| 291 | 18.675263 | 79.568610 | 7.86              | I        |
| 292 | 18.667118 | 79.576593 | 13.71             | I        |
| 293 | 18.675549 | 79.572569 | 6.28              | I        |
| 294 | 18.681005 | 79.573822 | 12.62             | I        |
| 295 | 18.673787 | 79.567039 | 18.47             | I        |
| 296 | 18.672014 | 79.574156 | 13.95             | I        |
| 297 | 18.673732 | 79.555687 | 8.50              | I        |
| 298 | 18.685409 | 79.551198 | 11.96             | I        |

**Legend**

- Proposed PTs
- Existing CD/PTs
- Contours
- Streams
- Watershed Boundary
- Compartment Boundary
- Beat Boundary
- Division Boundary

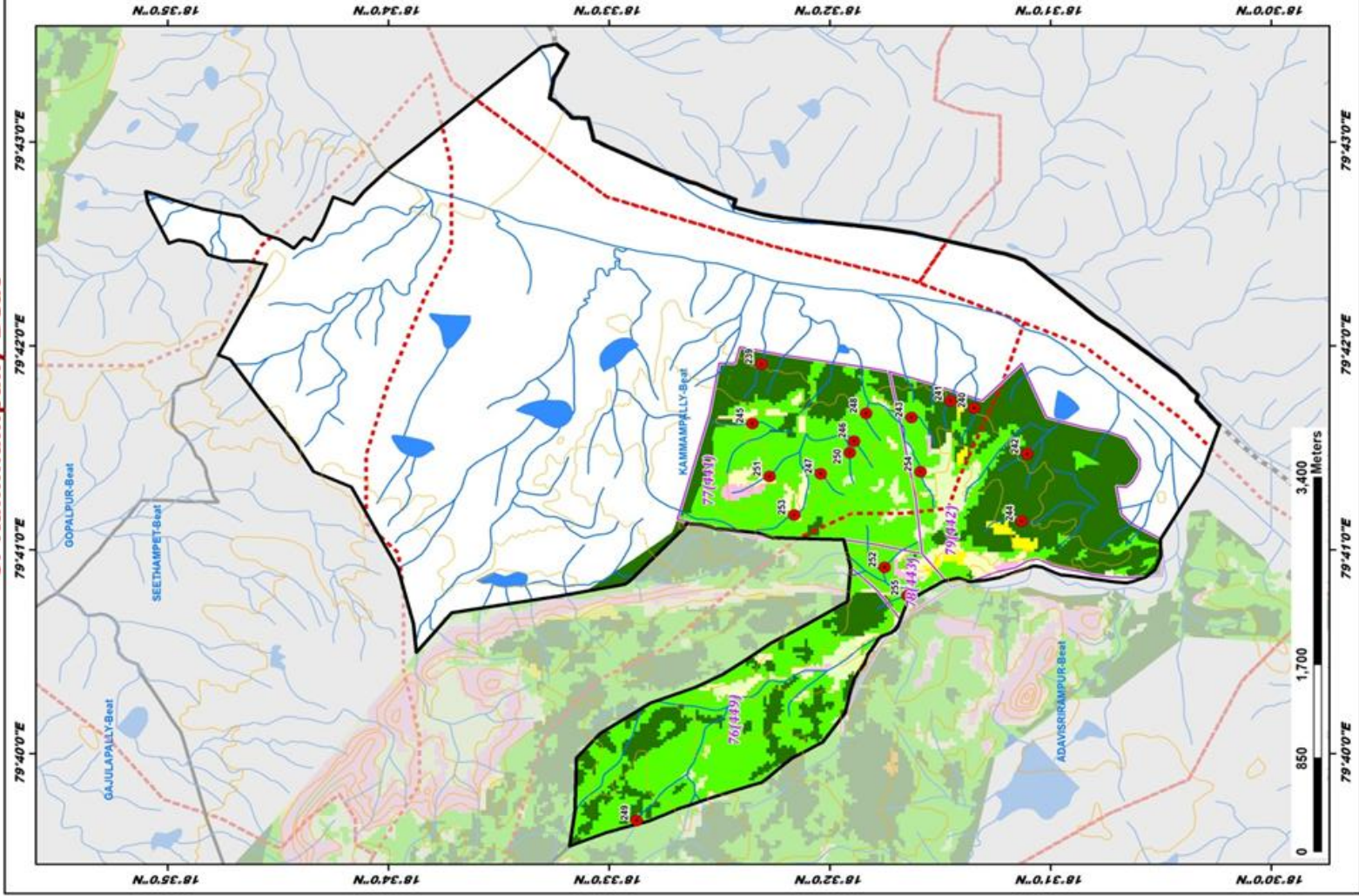
**Suitability Index**

- CCTs/SCTs - Highly Suitable
- CCTs/SCTs - Moderately Suitable
- CCTs/SCTs - Least Suitable
- PTs - Highly Suitable
- PTs - Moderately Suitable
- PTs - Least Suitable
- MPTs and SGPs - Suitable
- Not Suitable
- Water Body

# Map Showing Suitability Index for Construction of SMC Works of Kammampally Beat



Division : Peddapally  
Range : Manthani



| ID  | Latitude  | Longitude | Catchment Area_ha | Priority |
|-----|-----------|-----------|-------------------|----------|
| 239 | 18.538488 | 79.698551 | 10.92             | I        |
| 240 | 18.522419 | 79.694953 | 7.04              | I        |
| 241 | 18.524215 | 79.695529 | 5.06              | I        |
| 242 | 18.518416 | 79.691202 | 8.51              | I        |
| 243 | 18.527181 | 79.694187 | 9.00              | II       |
| 244 | 18.518846 | 79.685714 | 12.72             | II       |
| 245 | 18.539185 | 79.693692 | 13.41             | II       |
| 246 | 18.531501 | 79.692235 | 5.77              | II       |
| 247 | 18.534009 | 79.689568 | 6.59              | II       |
| 248 | 18.530591 | 79.694521 | 5.45              | II       |
| 249 | 18.547908 | 79.661239 | 21.59             | II       |
| 250 | 18.531839 | 79.691297 | 5.87              | II       |
| 251 | 18.537883 | 79.689374 | 17.24             | II       |
| 252 | 18.529186 | 79.681937 | 12.73             | II       |
| 253 | 18.536026 | 79.686200 | 15.88             | II       |
| 254 | 18.526477 | 79.689749 | 29.25             | III      |
| 255 | 18.527476 | 79.679623 | 11.60             | IV       |

## LEGEND

- Proposed PTIs
- Existing CD/PTIs
- Contours
- Streams
- Watershed Boundary
- Compartment Boundary
- Beat Boundary
- Division Boundary

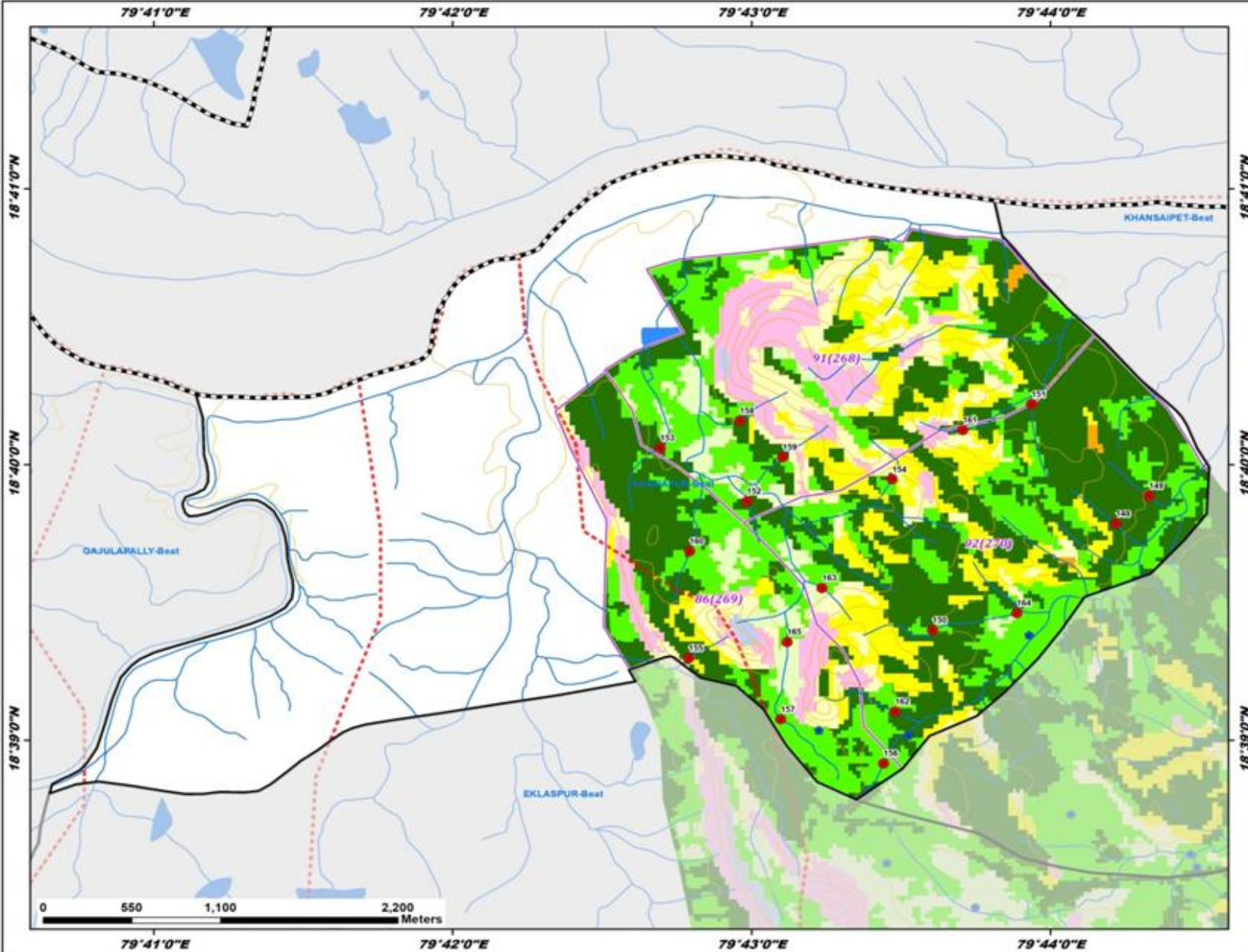
## Suitability Index

- CCTe/SCTs - Highly Suitable
- CCTe/SCTs - Moderately Suitable
- CCTe/SCTs - Least Suitable
- PTIs - Highly Suitable
- PTIs - Moderately Suitable
- PTIs - Least Suitable
- MPTIs and SGPs - Suitable
- Not Suitable
- Water Body

# Map Showing Suitability index for Construction of SMC Works of Khanapur Beat



Division : Peddapally  
Range : Manthani



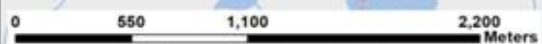
| ID  | Latitude  | Longitude | Catchment Area_ha | Priority |
|-----|-----------|-----------|-------------------|----------|
| 148 | 18.663094 | 79.736984 | 13.25             | I        |
| 149 | 18.664761 | 79.738827 | 7.05              | I        |
| 150 | 18.656657 | 79.726750 | 16.26             | I        |
| 151 | 18.670310 | 79.732271 | 17.19             | I        |
| 152 | 18.664437 | 79.716394 | 12.61             | I        |
| 153 | 18.667665 | 79.711569 | 16.28             | I        |
| 154 | 18.665765 | 79.724498 | 8.83              | I        |
| 155 | 18.654954 | 79.713150 | 6.22              | I        |
| 156 | 18.648600 | 79.724022 | 21.99             | II       |
| 157 | 18.651261 | 79.718287 | 21.12             | II       |
| 158 | 18.669313 | 79.715998 | 12.54             | II       |
| 159 | 18.667115 | 79.718394 | 14.52             | II       |
| 160 | 18.661428 | 79.713211 | 22.45             | II       |
| 161 | 18.668757 | 79.728438 | 11.17             | II       |
| 162 | 18.651726 | 79.724667 | 14.33             | II       |
| 163 | 18.659202 | 79.720593 | 5.44              | II       |
| 164 | 18.657687 | 79.731451 | 39.69             | III      |
| 165 | 18.655931 | 79.718635 | 42.31             | III      |

**Legend**

- Proposed PTs
- Existing CD/PTs
- Contours
- Streams
- Watershed Boundary
- Compartment Boundary
- Beat Boundary
- Division Boundary

**Suitability Index**

- CCTs/SCTs - Highly Suitable
- CCTs/SCTs - Moderately Suitable
- CCTs/SCTs - Least Suitable
- PTs - Highly Suitable
- PTs - Moderately Suitable
- PTs - Least Suitable
- MPTs and SGPs - Suitable
- Not Suitable
- Water Body



79°41'0"E      79°42'0"E      79°43'0"E      79°44'0"E

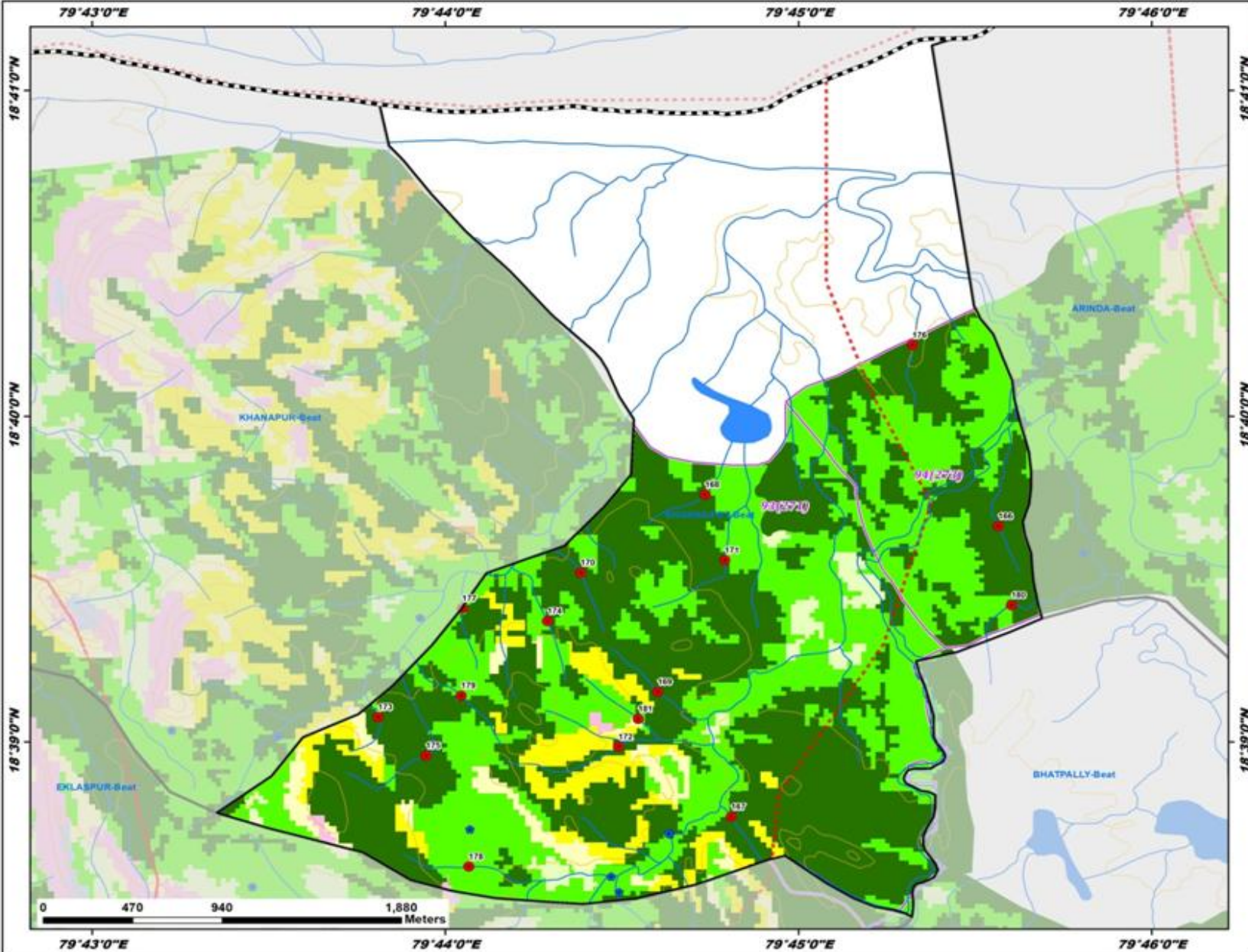
18°41'0"N  
18°40'0"N  
18°39'0"N

18°41'0"N  
18°40'0"N  
18°39'0"N

# Map Showing Suitability index for Construction of SMC Works of Khansaipet Beat



Division : Peddapally  
Range : Manthani



| ID  | Latitude  | Longitude | Catchment Area_ha | Priority |
|-----|-----------|-----------|-------------------|----------|
| 166 | 18.661045 | 79.759418 | 20.86             | I        |
| 167 | 18.646166 | 79.746813 | 15.74             | I        |
| 168 | 18.662659 | 79.745583 | 15.77             | I        |
| 169 | 18.652570 | 79.743339 | 12.57             | I        |
| 170 | 18.658654 | 79.739716 | 10.51             | I        |
| 171 | 18.659298 | 79.746517 | 20.18             | I        |
| 172 | 18.649753 | 79.741498 | 21.81             | I        |
| 173 | 18.651263 | 79.730148 | 7.93              | I        |
| 174 | 18.656184 | 79.738141 | 9.70              | I        |
| 175 | 18.649293 | 79.732412 | 14.43             | I        |
| 176 | 18.670305 | 79.755362 | 19.48             | I        |
| 177 | 18.656832 | 79.734125 | 8.74              | II       |
| 178 | 18.643616 | 79.734431 | 9.24              | II       |
| 179 | 18.652375 | 79.734069 | 7.48              | II       |
| 180 | 18.657000 | 79.760037 | 29.26             | II       |
| 181 | 18.651183 | 79.742425 | 7.34              | II       |

**Legend**

- Proposed PTs
- Existing CD/PTs
- Contours
- Streams
- ⋯ Watershed Boundary
- ⋯ Compartment Boundary
- ⋯ Beat Boundary
- ⋯ Division Boundary

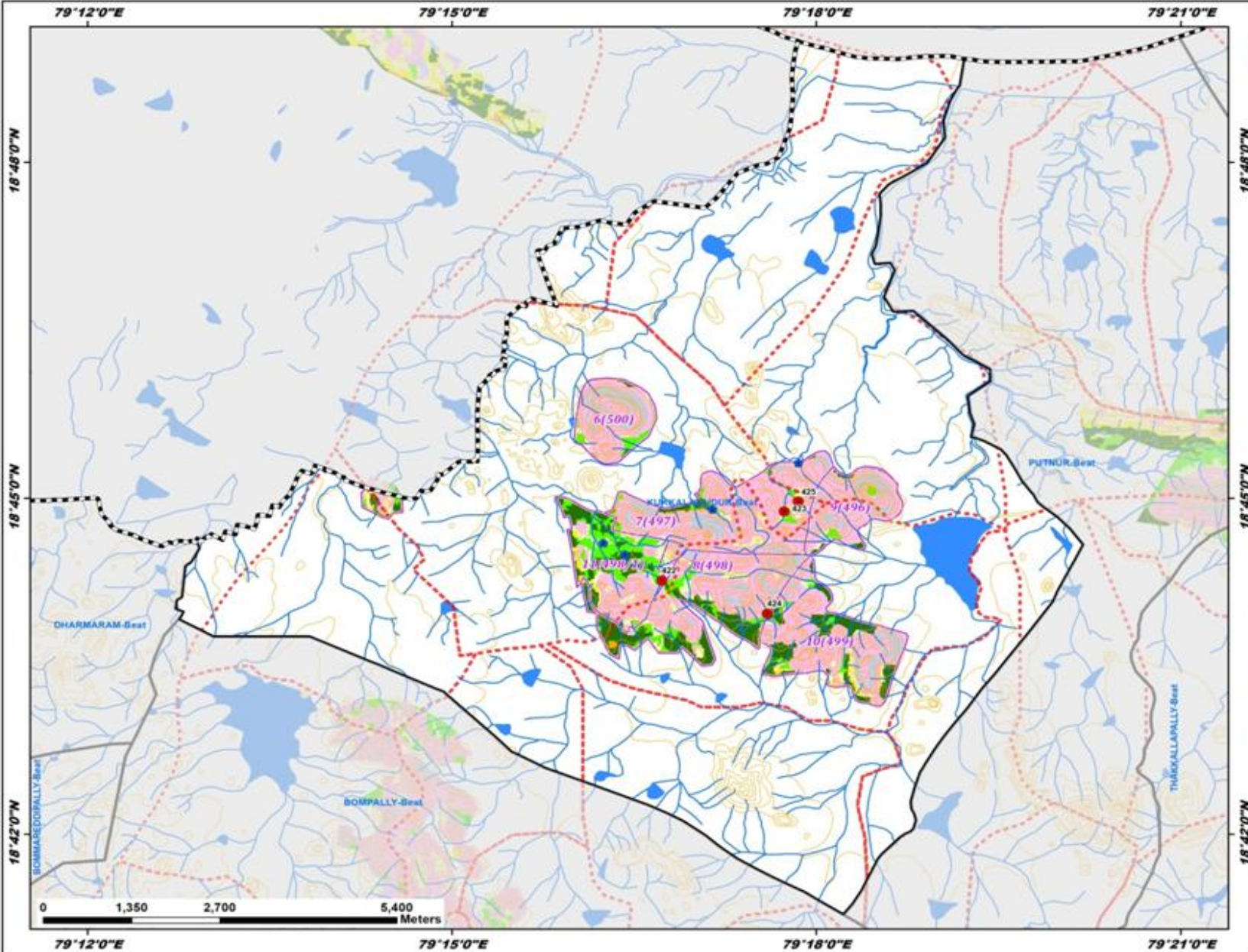
**Suitability Index**

- CCTs/SCTs - Highly Suitable
- CCTs/SCTs - Moderately Suitable
- CCTs/SCTs - Least Suitable
- PTs - Highly Suitable
- PTs - Moderately Suitable
- PTs - Least Suitable
- MPTs and SGPs - Suitable
- Not Suitable
- Water Body

# Map Showing Suitability index for Construction of SMC Works of Kukkalagudur Beat



Division : Peddapally  
Range : Manthani



| ID  | Latitude  | Longitude | Catchment Area_ha | Priority |
|-----|-----------|-----------|-------------------|----------|
| 422 | 18.737697 | 79.278780 | 10.57             | II       |
| 423 | 18.748033 | 79.295568 | 9.26              | II       |
| 424 | 18.732803 | 79.293258 | 9.87              | IV       |
| 425 | 18.749513 | 79.297520 | 12.27             | IV       |

**Legend**

- Proposed PTs
- Existing CD/PTs
- Contours
- Streams
- Watershed Boundary
- Compartment Boundary
- Beat Boundary
- Division Boundary

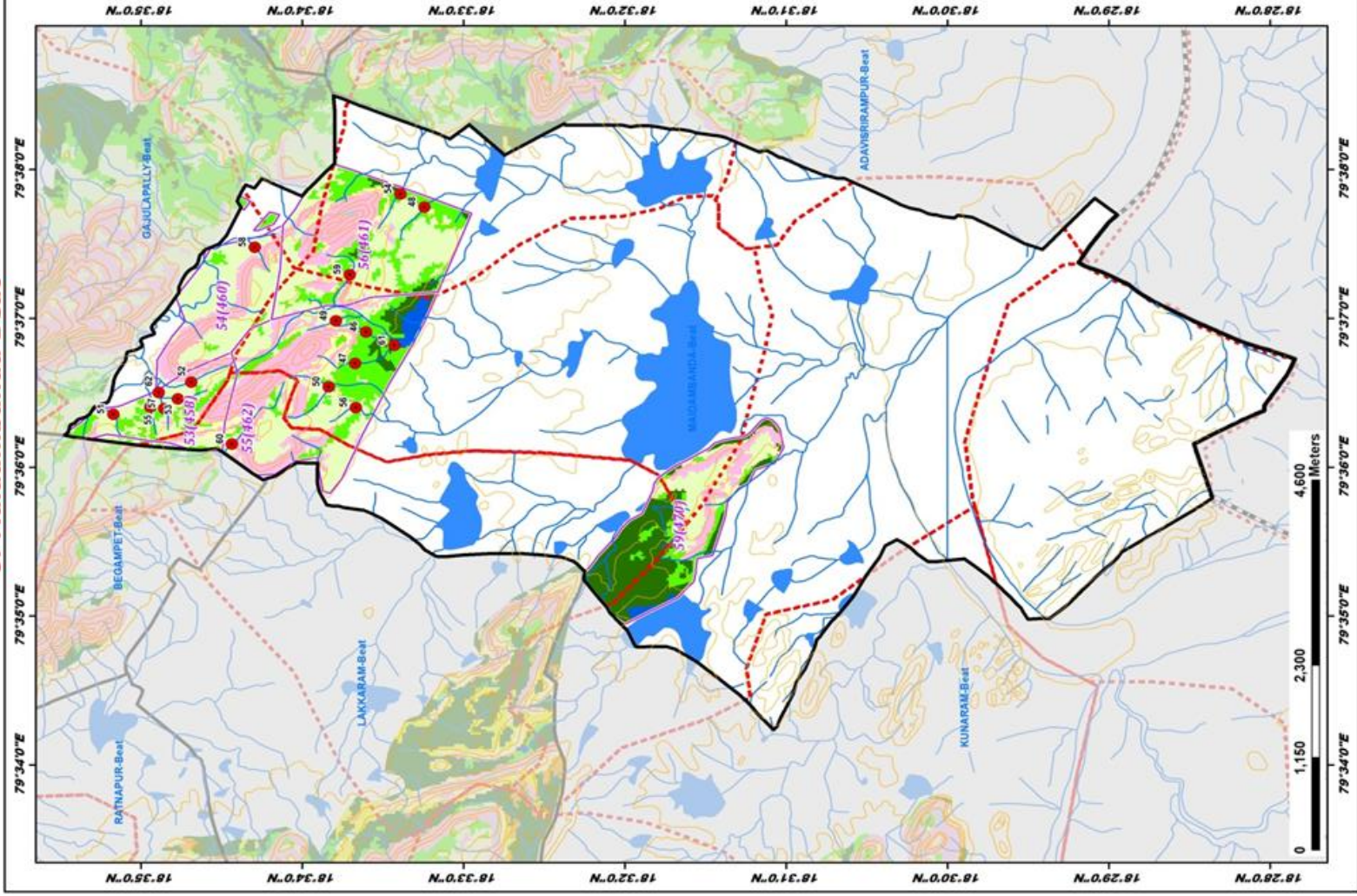
**Suitability Index**

- CCTs/SCTs - Highly Suitable
- CCTs/SCTs - Moderately Suitable
- CCTs/SCTs - Least Suitable
- PTs - Highly Suitable
- PTs - Moderately Suitable
- PTs - Least Suitable
- MPTs and SGPs - Suitable
- Not Suitable
- Water Body

# Map Showing Suitability Index for Construction of SMC Works of Maidambanda Beat



Division : Peddapally  
Range : Manthani



| ID | Latitude  | Longitude | Catchment Area_ha | Priority |
|----|-----------|-----------|-------------------|----------|
| 46 | 18.560078 | 79.615189 | 9.14              | II       |
| 47 | 18.561195 | 79.611662 | 13.73             | II       |
| 48 | 18.554048 | 79.629156 | 31.30             | III      |
| 49 | 18.563182 | 79.616414 | 8.76              | IV       |
| 50 | 18.563946 | 79.609034 | 18.41             | IV       |
| 51 | 18.586205 | 79.609990 | 21.52             | IV       |
| 52 | 18.578123 | 79.609554 | 20.76             | IV       |
| 53 | 18.579518 | 79.607695 | 18.72             | IV       |
| 54 | 18.565524 | 79.630629 | 23.66             | IV       |
| 55 | 18.582356 | 79.606787 | 20.19             | IV       |
| 56 | 18.561135 | 79.606711 | 10.81             | IV       |
| 57 | 18.580935 | 79.606628 | 6.53              | IV       |
| 58 | 18.571582 | 79.624685 | 13.95             | V        |
| 59 | 18.561773 | 79.621609 | 27.54             | V        |
| 60 | 18.573925 | 79.607645 | 41.26             | V        |
| 61 | 18.557161 | 79.613686 | 28.77             | II       |
| 62 | 18.581508 | 79.608415 | 31.31             | V        |

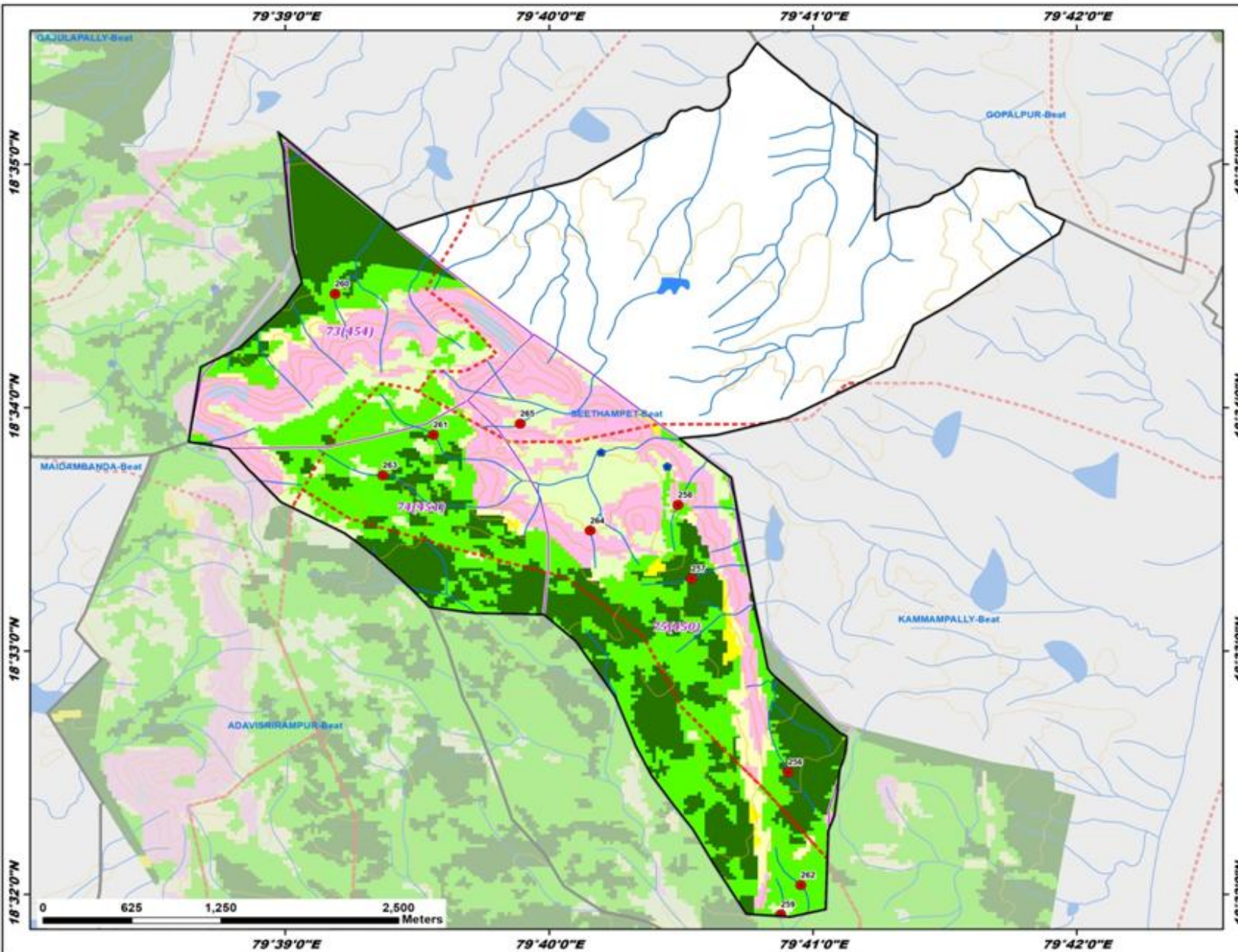
## LEGEND

- Proposed PTs
  - Existing CD/PTs
  - Contours
  - Streams
  - Watershed Boundary
  - Compartment Boundary
  - Beat Boundary
  - Division Boundary
- ### Suitability Index
- CCTe/SCTs - Highly Suitable
  - CCTe/SCTs - Moderately Suitable
  - CCTe/SCTs - Least Suitable
  - PTs - Highly Suitable
  - PTs - Moderately Suitable
  - PTs - Least Suitable
  - MPTs and SGPs - Suitable
  - Not Suitable
  - Water Body

# Map Showing Suitability index for Construction of SMC Works of Seethampet Beat



Division : Peddapally  
Range : Manthani



| ID  | Latitude  | Longitude | Catchment Area_ha | Priority |
|-----|-----------|-----------|-------------------|----------|
| 256 | 18.541703 | 79.681768 | 18.47             | I        |
| 257 | 18.554963 | 79.675653 | 15.11             | I        |
| 258 | 18.560006 | 79.674809 | 10.22             | II       |
| 259 | 18.531961 | 79.681309 | 11.22             | II       |
| 260 | 18.574464 | 79.653126 | 11.18             | II       |
| 261 | 18.564802 | 79.659341 | 12.75             | II       |
| 262 | 18.533957 | 79.682575 | 31.08             | III      |
| 263 | 18.562033 | 79.656141 | 45.97             | III      |
| 264 | 18.558242 | 79.669260 | 10.02             | IV       |
| 265 | 18.565576 | 79.664844 | 8.03              | IV       |

**Legend**

- Proposed PTs (Red dot)
- Existing CD/PTs (Blue dot)
- Contours (Brown line)
- Streams (Blue line)
- Watershed Boundary (Dashed red line)
- Compartment Boundary (Pink outline)
- Beat Boundary (Black outline)
- Division Boundary (Dashed black line)

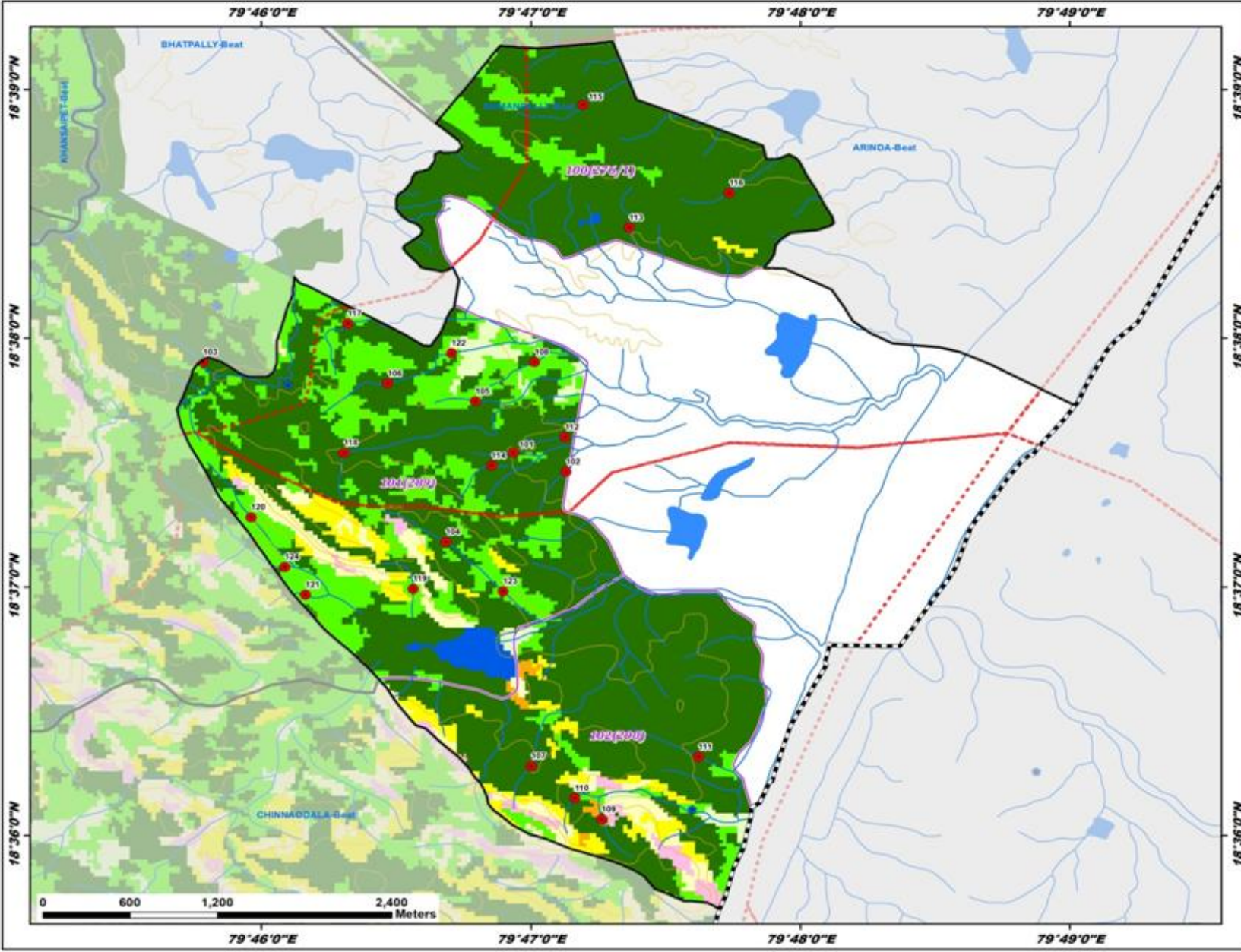
**Suitability Index**

- CCTs/SCTs - Highly Suitable (Orange)
- CCTs/SCTs - Moderately Suitable (Yellow)
- CCTs/SCTs - Least Suitable (Light Green)
- PTs - Highly Suitable (Dark Green)
- PTs - Moderately Suitable (Light Green)
- PTs - Least Suitable (Light Green)
- MPTs and SGPs - Suitable (Pink)
- Not Suitable (Light Blue)
- Water Body (Blue)

# Map Showing Suitability index for Construction of SMC Works of Somanpally Beat



Division : Peddapally  
Range : Manthani



| ID  | Latitude  | Longitude | Catchment Area_ha | Priority |
|-----|-----------|-----------|-------------------|----------|
| 101 | 18.625663 | 79.782252 | 7.14              | I        |
| 102 | 18.624383 | 79.785492 | 13.86             | I        |
| 103 | 18.631721 | 79.763050 | 14.19             | I        |
| 104 | 18.619669 | 79.778073 | 23.06             | I        |
| 105 | 18.629091 | 79.779893 | 6.71              | I        |
| 106 | 18.630296 | 79.774466 | 19.45             | I        |
| 107 | 18.604643 | 79.783359 | 8.59              | I        |
| 108 | 18.631721 | 79.783555 | 9.13              | I        |
| 109 | 18.601071 | 79.787702 | 15.47             | I        |
| 110 | 18.602490 | 79.786053 | 14.85             | I        |
| 111 | 18.605264 | 79.793694 | 18.93             | I        |
| 112 | 18.626696 | 79.785444 | 5.22              | I        |
| 113 | 18.640738 | 79.789399 | 13.06             | I        |
| 114 | 18.624794 | 79.780897 | 8.35              | I        |
| 115 | 18.648976 | 79.786536 | 23.28             | I        |
| 116 | 18.643074 | 79.795595 | 13.70             | I        |
| 117 | 18.634316 | 79.771991 | 14.37             | II       |
| 118 | 18.625646 | 79.771753 | 41.63             | II       |
| 119 | 18.616527 | 79.776051 | 5.98              | II       |
| 120 | 18.621321 | 79.766018 | 15.32             | II       |
| 121 | 18.616127 | 79.769388 | 5.93              | II       |
| 122 | 18.632323 | 79.778428 | 35.76             | III      |
| 123 | 18.616365 | 79.781596 | 49.01             | III      |
| 124 | 18.617999 | 79.768100 | 78.27             | IV       |

**Legend**

- Proposed PTs
- Existing CD/PTs
- Contours
- Streams
- Watershed Boundary
- Compartment Boundary
- Beat Boundary
- Division Boundary

**Suitability Index**

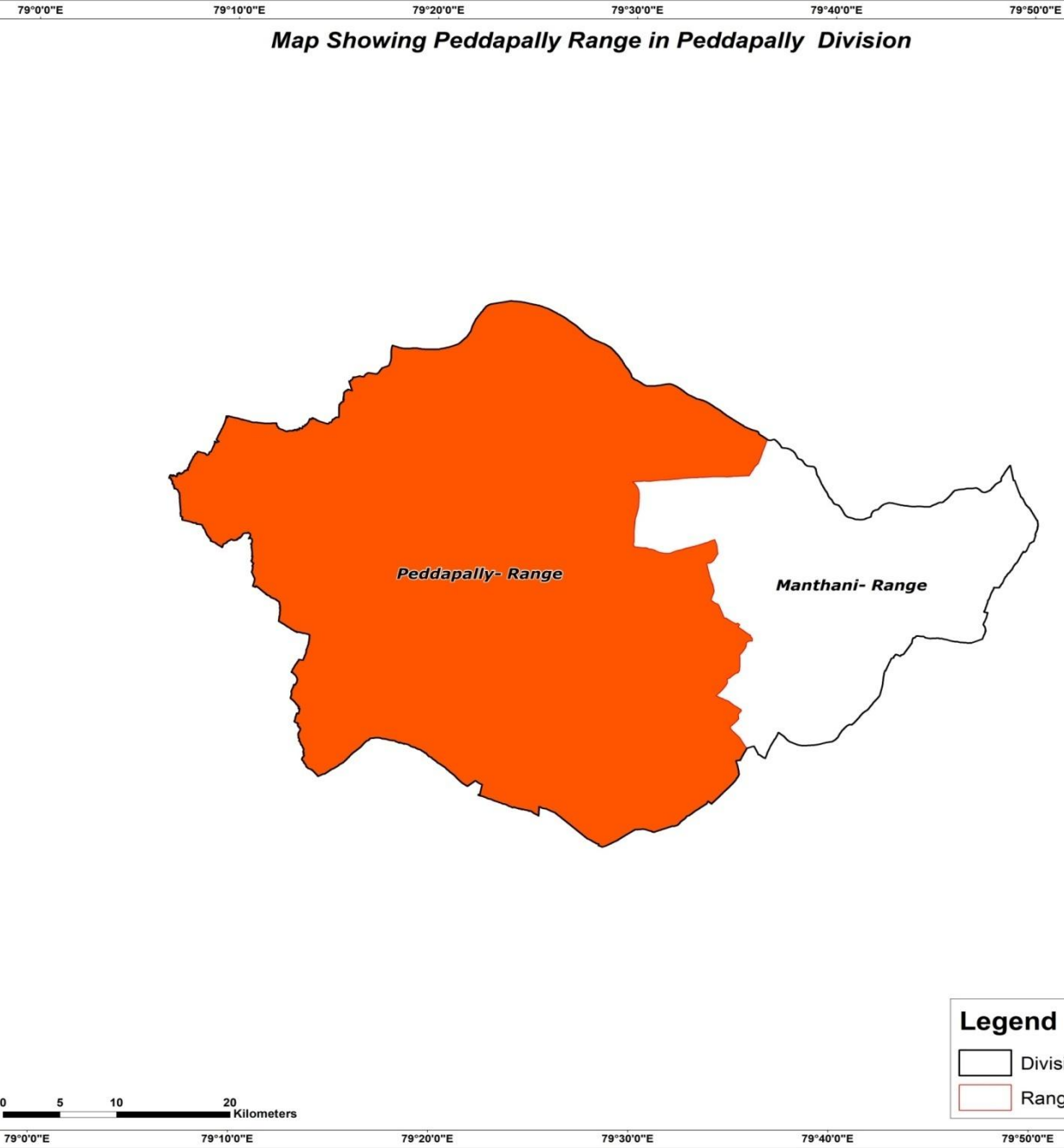
- CCTs/SCTs - Highly Suitable
- CCTs/SCTs - Moderately Suitable
- CCTs/SCTs - Least Suitable
- PTs - Highly Suitable
- PTs - Moderately Suitable
- PTs - Least Suitable
- MPTs and SGPs - Suitable
- Not Suitable
- Water Body

# Map Showing Peddapally Range in Peddapally Division



18°00'N  
18°50'N  
18°40'N  
18°30'N  
18°20'N  
18°10'N


18°00'N  
18°50'N  
18°40'N  
18°30'N  
18°20'N  
18°10'N



*Peddapally- Range*

*Manthani- Range*

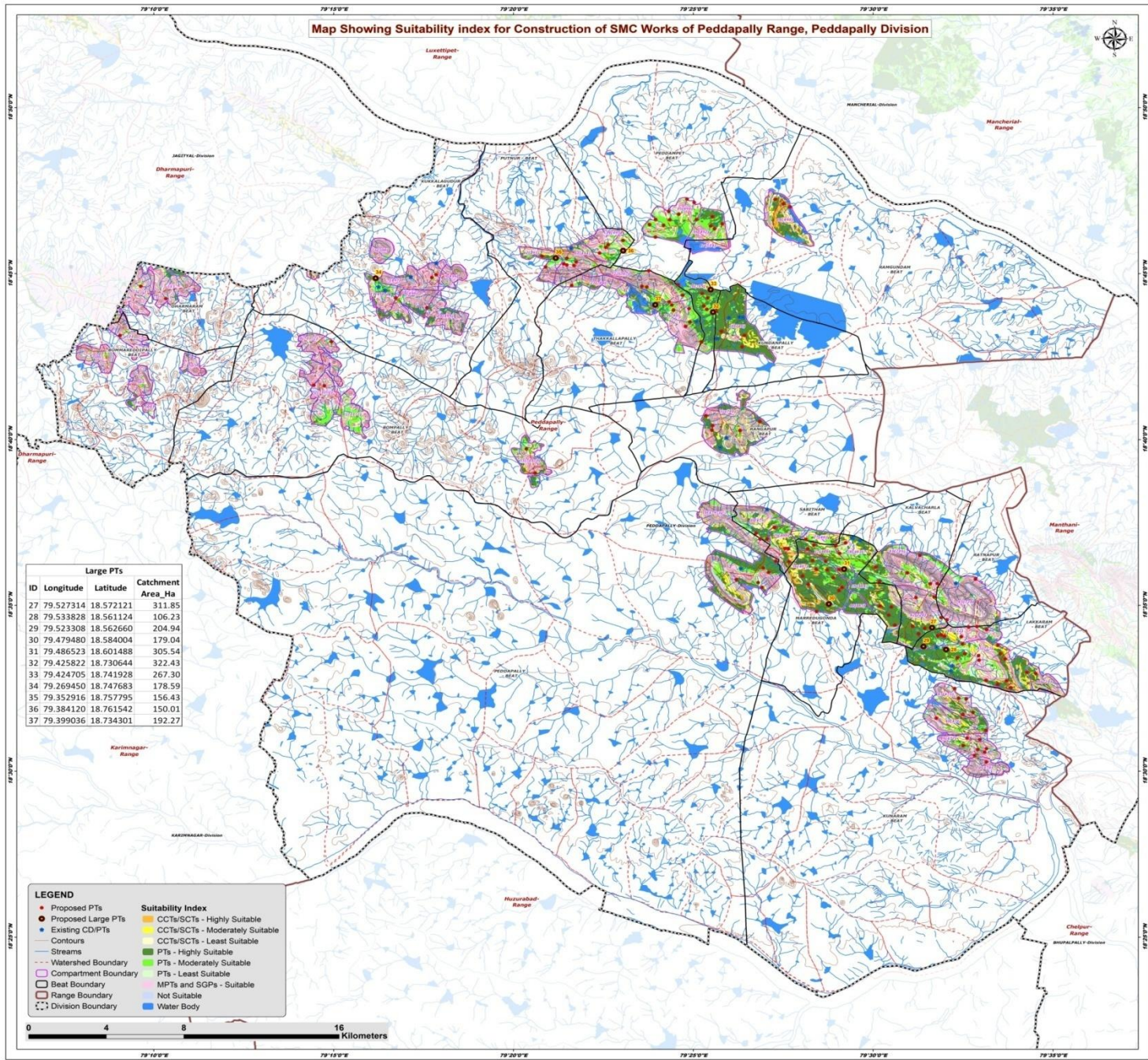
## Legend

-  Division Boundary
-  Range Boundary

0 5 10 20 Kilometers

79°0'0"E 79°10'0"E 79°20'0"E 79°30'0"E 79°40'0"E 79°50'0"E

Map Showing Suitability index for Construction of SMC Works of Peddapally Range, Peddapally Division



| ID | Longitude | Latitude  | Catchment Area_Ha |
|----|-----------|-----------|-------------------|
| 27 | 79.527314 | 18.572121 | 311.85            |
| 28 | 79.533828 | 18.561124 | 106.23            |
| 29 | 79.523308 | 18.562660 | 204.94            |
| 30 | 79.479480 | 18.584004 | 179.04            |
| 31 | 79.486523 | 18.601488 | 305.54            |
| 32 | 79.425822 | 18.730644 | 322.43            |
| 33 | 79.424705 | 18.741928 | 267.30            |
| 34 | 79.269450 | 18.747683 | 178.59            |
| 35 | 79.352916 | 18.757795 | 156.43            |
| 36 | 79.384120 | 18.761542 | 150.01            |
| 37 | 79.399036 | 18.734301 | 192.27            |

**LEGEND**

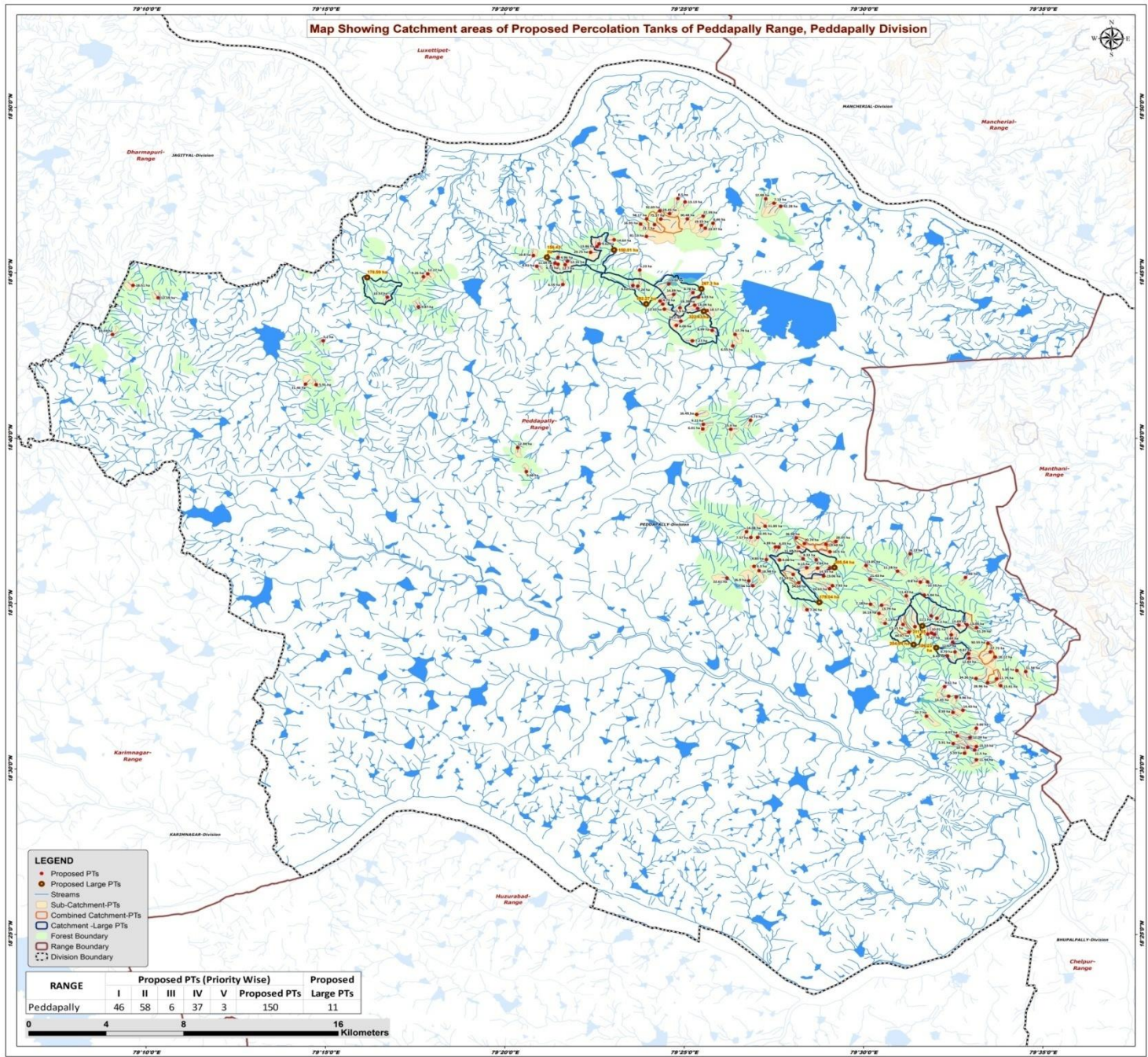
- Proposed PTs
- Proposed Large PTs
- Existing CD/PTs
- Contours
- Streams
- Watershed Boundary
- Compartment Boundary
- Beat Boundary
- Range Boundary
- - - Division Boundary

**Suitability Index**

- CCTs/SCTs - Highly Suitable
- CCTs/SCTs - Moderately Suitable
- CCTs/SCTs - Least Suitable
- PTs - Highly Suitable
- PTs - Moderately Suitable
- PTs - Least Suitable
- MPTs and SGPs - Suitable
- Not Suitable
- Water Body



Map Showing Catchment areas of Proposed Percolation Tanks of Peddapally Range, Peddapally Division



- LEGEND**
- Proposed PTs
  - Proposed Large PTs
  - Streams
  - Sub-Catchment-PTs
  - Combined Catchment-PTs
  - Catchment-Large PTs
  - Forest Boundary
  - Range Boundary
  - Division Boundary

| RANGE      | Proposed PTs (Priority Wise) |    |     |    |   | Proposed PTs | Proposed Large PTs |
|------------|------------------------------|----|-----|----|---|--------------|--------------------|
|            | I                            | II | III | IV | V |              |                    |
| Peddapally | 46                           | 58 | 6   | 37 | 3 | 150          | 11                 |

0 4 8 16 Kilometers

## Beat wise Abstract of Proposed PT's – Peddapally Range

| S. No. | Beat            | Proposed PT's |
|--------|-----------------|---------------|
| 1      | BOMMAREDDIPALLY | 1             |
| 2      | BOMPALLY        | 5             |
| 3      | DHARMARAM       | 2             |
| 4      | KALVACHARLA     | 12            |
| 5      | KANNALA         | 5             |
| 6      | KUKKALAGUDUR    | 4             |
| 7      | KUNARAM         | 15            |
| 8      | KUNDANPALLY     | 4             |
| 9      | LAKKARAM        | 21            |
| 10     | MARREDUGONDA    | 20            |
| 11     | PEDDAMPET       | 14            |
| 12     | PEDDAPALLY      | 7             |
| 13     | PUTNUR          | 11            |
| 14     | RAMGUNDAM       | 3             |
| 15     | RANGAPUR        | 5             |
| 16     | RATNAPUR        | 2             |
| 17     | SABITHAM        | 7             |
| 18     | THAKKALLAPALLY  | 12            |
|        | <b>Total</b>    | <b>150</b>    |

## List of Proposed PTs – Peddapally Range

| ID  | Latitude  | Longitude | Catchment Area_Ha | Priority | Beat            | ID  | Latitude  | Longitude | Catchment Area_Ha | Priority | Beat         | ID  | Latitude  | Longitude | Catchment Area_Ha | Priority | Beat        |
|-----|-----------|-----------|-------------------|----------|-----------------|-----|-----------|-----------|-------------------|----------|--------------|-----|-----------|-----------|-------------------|----------|-------------|
| 299 | 18.718924 | 79.151035 | 10.03             | IV       | BOMMAREDDIPALLY | 339 | 18.545423 | 79.561818 | 11.79             | I        | LAKKARAM     | 379 | 18.649801 | 79.343387 | 9.48              | I        | BOMPALLY    |
| 300 | 18.743644 | 79.160610 | 18.51             | IV       | DHARMARAM       | 340 | 18.563920 | 79.541451 | 11.67             | I        | LAKKARAM     | 380 | 18.715799 | 79.248988 | 5.20              | II       | BOMPALLY    |
| 301 | 18.737408 | 79.172263 | 12.59             | IV       | DHARMARAM       | 341 | 18.556408 | 79.561239 | 18.12             | I        | LAKKARAM     | 381 | 18.693913 | 79.240791 | 21.46             | II       | BOMPALLY    |
| 302 | 18.572803 | 79.518363 | 17.15             | I        | KALVACHARLA     | 342 | 18.541955 | 79.563740 | 15.41             | I        | LAKKARAM     | 382 | 18.661940 | 79.339364 | 12.94             | II       | BOMPALLY    |
| 303 | 18.599695 | 79.515810 | 11.28             | II       | KALVACHARLA     | 343 | 18.567985 | 79.529852 | 7.27              | I        | LAKKARAM     | 383 | 18.693617 | 79.245729 | 5.91              | IV       | BOMPALLY    |
| 304 | 18.608423 | 79.521681 | 6.13              | II       | KALVACHARLA     | 344 | 18.549659 | 79.571293 | 5.85              | I        | LAKKARAM     | 384 | 18.616709 | 79.447693 | 7.57              | I        | PEDDAPALLY  |
| 305 | 18.571717 | 79.523932 | 34.89             | II       | KALVACHARLA     | 345 | 18.558980 | 79.542552 | 9.79              | I        | LAKKARAM     | 385 | 18.605532 | 79.454901 | 4.85              | I        | PEDDAPALLY  |
| 306 | 18.587609 | 79.528254 | 5.84              | II       | KALVACHARLA     | 346 | 18.567834 | 79.533078 | 7.89              | I        | LAKKARAM     | 386 | 18.602126 | 79.449138 | 6.30              | II       | PEDDAPALLY  |
| 307 | 18.602548 | 79.501192 | 13.85             | II       | KALVACHARLA     | 347 | 18.545637 | 79.552302 | 34.36             | II       | LAKKARAM     | 387 | 18.592373 | 79.448533 | 7.56              | II       | PEDDAPALLY  |
| 308 | 18.595534 | 79.503043 | 21.43             | II       | KALVACHARLA     | 348 | 18.549106 | 79.575389 | 11.56             | II       | LAKKARAM     | 388 | 18.599948 | 79.451533 | 18.98             | IV       | PEDDAPALLY  |
| 309 | 18.594289 | 79.529796 | 10.59             | IV       | KALVACHARLA     | 349 | 18.557008 | 79.539003 | 8.49              | II       | LAKKARAM     | 389 | 18.596215 | 79.436603 | 22.61             | IV       | PEDDAPALLY  |
| 310 | 18.577153 | 79.531427 | 11.10             | IV       | KALVACHARLA     | 350 | 18.558993 | 79.558952 | 37.73             | II       | LAKKARAM     | 390 | 18.594794 | 79.446714 | 26.90             | V        | PEDDAPALLY  |
| 311 | 18.587270 | 79.519842 | 11.42             | IV       | KALVACHARLA     | 351 | 18.567608 | 79.540815 | 18.89             | II       | LAKKARAM     | 391 | 18.673678 | 79.425600 | 9.22              | I        | RANGAPUR    |
| 312 | 18.594208 | 79.526458 | 9.80              | IV       | KALVACHARLA     | 352 | 18.572681 | 79.548118 | 13.09             | IV       | LAKKARAM     | 392 | 18.678666 | 79.422502 | 16.49             | I        | RANGAPUR    |
| 313 | 18.568987 | 79.521098 | 44.97             | II       | KALVACHARLA     | 353 | 18.572481 | 79.544291 | 13.69             | IV       | LAKKARAM     | 393 | 18.675698 | 79.447514 | 9.73              | I        | RANGAPUR    |
| 314 | 18.596511 | 79.547407 | 7.66              | II       | RATNAPUR        | 354 | 18.555801 | 79.549043 | 12.83             | IV       | LAKKARAM     | 394 | 18.671330 | 79.425317 | 6.01              | II       | RANGAPUR    |
| 315 | 18.575991 | 79.534142 | 6.20              | IV       | RATNAPUR        | 355 | 18.558064 | 79.548874 | 9.87              | IV       | LAKKARAM     | 395 | 18.671202 | 79.438329 | 15.40             | II       | RANGAPUR    |
| 316 | 18.605321 | 79.460997 | 9.08              | I        | SABITHAM        | 356 | 18.543495 | 79.557678 | 28.96             | II       | LAKKARAM     | 396 | 18.740009 | 79.420709 | 8.78              | I        | KANNALA     |
| 317 | 18.611705 | 79.460728 | 6.03              | I        | SABITHAM        | 357 | 18.563286 | 79.557823 | 50.55             | IV       | LAKKARAM     | 397 | 18.744417 | 79.409611 | 11.34             | I        | KANNALA     |
| 318 | 18.616661 | 79.450844 | 10.95             | I        | SABITHAM        | 358 | 18.571189 | 79.552559 | 31.29             | V        | LAKKARAM     | 398 | 18.737769 | 79.423372 | 6.03              | I        | KANNALA     |
| 319 | 18.611897 | 79.459151 | 4.89              | I        | SABITHAM        | 359 | 18.598044 | 79.467360 | 21.54             | I        | MARREDUGONDA | 399 | 18.732031 | 79.422953 | 13.04             | II       | KANNALA     |
| 320 | 18.619563 | 79.445694 | 14.08             | II       | SABITHAM        | 360 | 18.580213 | 79.473780 | 7.36              | I        | MARREDUGONDA | 400 | 18.733692 | 79.421548 | 16.39             | II       | KANNALA     |
| 321 | 18.622362 | 79.454345 | 31.89             | III      | SABITHAM        | 361 | 18.592356 | 79.485599 | 7.93              | I        | MARREDUGONDA | 401 | 18.718976 | 79.440351 | 17.79             | I        | KUNDANPALLY |
| 322 | 18.616516 | 79.468752 | 36.98             | III      | SABITHAM        | 362 | 18.601404 | 79.473651 | 9.15              | I        | MARREDUGONDA | 402 | 18.713150 | 79.439295 | 6.55              | I        | KUNDANPALLY |
| 323 | 18.520561 | 79.552435 | 9.66              | I        | KUNARAM         | 363 | 18.605905 | 79.471976 | 8.33              | I        | MARREDUGONDA | 403 | 18.720997 | 79.429677 | 8.99              | I        | KUNDANPALLY |
| 324 | 18.512841 | 79.541695 | 5.91              | I        | KUNARAM         | 364 | 18.605427 | 79.478032 | 4.84              | I        | MARREDUGONDA | 404 | 18.730980 | 79.427317 | 18.17             | II       | KUNDANPALLY |
| 325 | 18.528508 | 79.541602 | 9.39              | I        | KUNARAM         | 365 | 18.578406 | 79.507210 | 16.18             | I        | MARREDUGONDA | 405 | 18.772439 | 79.426524 | 23.97             | I        | PEDDAMPET   |
| 326 | 18.507945 | 79.546955 | 5.33              | II       | KUNARAM         | 366 | 18.582979 | 79.503263 | 7.18              | I        | MARREDUGONDA | 406 | 18.777153 | 79.418155 | 30.48             | II       | PEDDAMPET   |
| 327 | 18.511310 | 79.552498 | 15.53             | II       | KUNARAM         | 367 | 18.611701 | 79.469720 | 11.69             | I        | MARREDUGONDA | 407 | 18.773935 | 79.424702 | 19.33             | II       | PEDDAMPET   |
| 328 | 18.529599 | 79.546261 | 14.43             | II       | KUNARAM         | 368 | 18.573403 | 79.510086 | 7.13              | I        | MARREDUGONDA | 408 | 18.775000 | 79.430107 | 8.46              | II       | PEDDAMPET   |
| 329 | 18.536677 | 79.539629 | 13.45             | IV       | KUNARAM         | 369 | 18.582495 | 79.508445 | 13.79             | I        | MARREDUGONDA | 409 | 18.778568 | 79.425537 | 27.39             | II       | PEDDAMPET   |
| 330 | 18.515909 | 79.549513 | 11.09             | IV       | KUNARAM         | 370 | 18.590790 | 79.484216 | 24.63             | I        | MARREDUGONDA | 410 | 18.774574 | 79.396405 | 16.95             | II       | PEDDAMPET   |
| 331 | 18.541543 | 79.537748 | 9.61              | IV       | KUNARAM         | 371 | 18.601303 | 79.484328 | 14.35             | I        | MARREDUGONDA | 411 | 18.774284 | 79.402904 | 21.70             | II       | PEDDAMPET   |
| 332 | 18.509578 | 79.551685 | 11.50             | IV       | KUNARAM         | 372 | 18.613603 | 79.472588 | 20.74             | II       | MARREDUGONDA | 412 | 18.779829 | 79.409875 | 19.43             | II       | PEDDAMPET   |
| 333 | 18.510945 | 79.548484 | 10.00             | IV       | KUNARAM         | 373 | 18.609465 | 79.484441 | 16.50             | II       | MARREDUGONDA | 413 | 18.768328 | 79.399132 | 81.13             | III      | PEDDAMPET   |
| 334 | 18.536351 | 79.543149 | 9.96              | IV       | KUNARAM         | 374 | 18.597184 | 79.481508 | 13.06             | II       | MARREDUGONDA | 414 | 18.787443 | 79.413801 | 8.50              | IV       | PEDDAMPET   |
| 335 | 18.504662 | 79.552455 | 11.94             | IV       | KUNARAM         | 375 | 18.613187 | 79.482611 | 19.48             | II       | MARREDUGONDA | 415 | 18.785720 | 79.417124 | 13.13             | IV       | PEDDAMPET   |
| 336 | 18.526648 | 79.529291 | 20.70             | IV       | KUNARAM         | 376 | 18.601238 | 79.478694 | 40.18             | II       | MARREDUGONDA | 416 | 18.777073 | 79.405825 | 75.57             | IV       | PEDDAMPET   |
| 337 | 18.516659 | 79.543561 | 6.07              | IV       | KUNARAM         | 377 | 18.593906 | 79.469933 | 54.66             | III      | MARREDUGONDA | 417 | 18.777176 | 79.399248 | 58.17             | IV       | PEDDAMPET   |
| 338 | 18.568497 | 79.531646 | 10.01             | I        | LAKKARAM        | 378 | 18.614712 | 79.487210 | 28.05             | III      | MARREDUGONDA | 418 | 18.781202 | 79.405333 | 92.69             | V        | PEDDAMPET   |

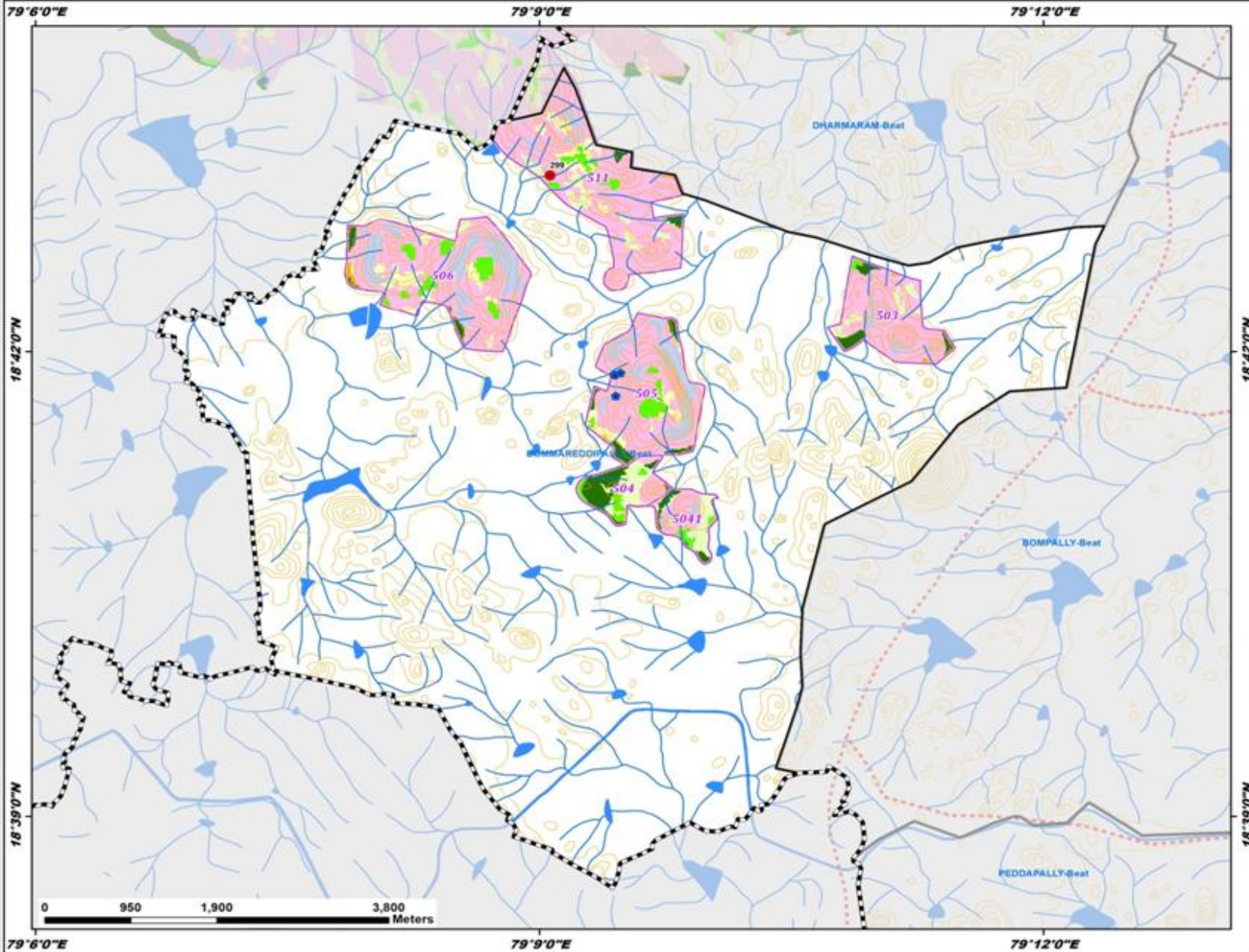
## List of Proposed PTs – Peddapally Range

| ID  | Latitude  | Longitude | Catchment Area_Ha | Priority | Beat           |
|-----|-----------|-----------|-------------------|----------|----------------|
| 419 | 18.787291 | 79.454595 | 12.66             | I        | RAMGUNDAM      |
| 420 | 18.785063 | 79.458459 | 7.13              | I        | RAMGUNDAM      |
| 421 | 18.783525 | 79.461540 | 42.28             | II       | RAMGUNDAM      |
| 422 | 18.737697 | 79.278780 | 10.57             | II       | KUKKALAGUDUR   |
| 423 | 18.748033 | 79.295568 | 9.26              | II       | KUKKALAGUDUR   |
| 424 | 18.732803 | 79.293258 | 9.87              | IV       | KUKKALAGUDUR   |
| 425 | 18.749513 | 79.297520 | 12.27             | IV       | KUKKALAGUDUR   |
| 426 | 18.758676 | 79.346623 | 10.80             | I        | PUTNUR         |
| 427 | 18.757725 | 79.358049 | 4.96              | II       | PUTNUR         |
| 428 | 18.763198 | 79.376133 | 13.86             | II       | PUTNUR         |
| 429 | 18.764550 | 79.377194 | 9.62              | II       | PUTNUR         |
| 430 | 18.766673 | 79.384139 | 14.64             | II       | PUTNUR         |
| 431 | 18.755840 | 79.362416 | 12.16             | II       | PUTNUR         |
| 432 | 18.760354 | 79.373231 | 29.75             | III      | PUTNUR         |
| 433 | 18.754080 | 79.361394 | 12.70             | IV       | PUTNUR         |
| 434 | 18.754329 | 79.358062 | 6.74              | IV       | PUTNUR         |
| 435 | 18.754889 | 79.356630 | 11.04             | IV       | PUTNUR         |
| 436 | 18.753285 | 79.348191 | 8.91              | IV       | PUTNUR         |
| 437 | 18.731682 | 79.407445 | 12.32             | II       | THAKKALLAPALLY |
| 438 | 18.732439 | 79.414732 | 15.90             | II       | THAKKALLAPALLY |
| 439 | 18.735800 | 79.405497 | 4.73              | II       | THAKKALLAPALLY |
| 440 | 18.734250 | 79.406729 | 10.27             | II       | THAKKALLAPALLY |
| 441 | 18.751438 | 79.396042 | 5.23              | II       | THAKKALLAPALLY |
| 442 | 18.744085 | 79.360290 | 6.55              | II       | THAKKALLAPALLY |
| 443 | 18.715754 | 79.420540 | 7.27              | II       | THAKKALLAPALLY |
| 444 | 18.743625 | 79.392869 | 4.52              | II       | THAKKALLAPALLY |
| 445 | 18.743282 | 79.395130 | 7.24              | II       | THAKKALLAPALLY |
| 446 | 18.725671 | 79.415123 | 24.20             | II       | THAKKALLAPALLY |
| 447 | 18.723504 | 79.413071 | 6.06              | IV       | THAKKALLAPALLY |
| 448 | 18.739143 | 79.411823 | 14.89             | IV       | THAKKALLAPALLY |

# Map Showing Suitability index for Construction of SMC Works of Bommareddipally Beat



Division : Peddapally  
Range : Peddapally



| ID  | Latitude  | Longitude | Catchment Area_ha | Priority |
|-----|-----------|-----------|-------------------|----------|
| 299 | 18.718924 | 79.151035 | 10.03             | IV       |

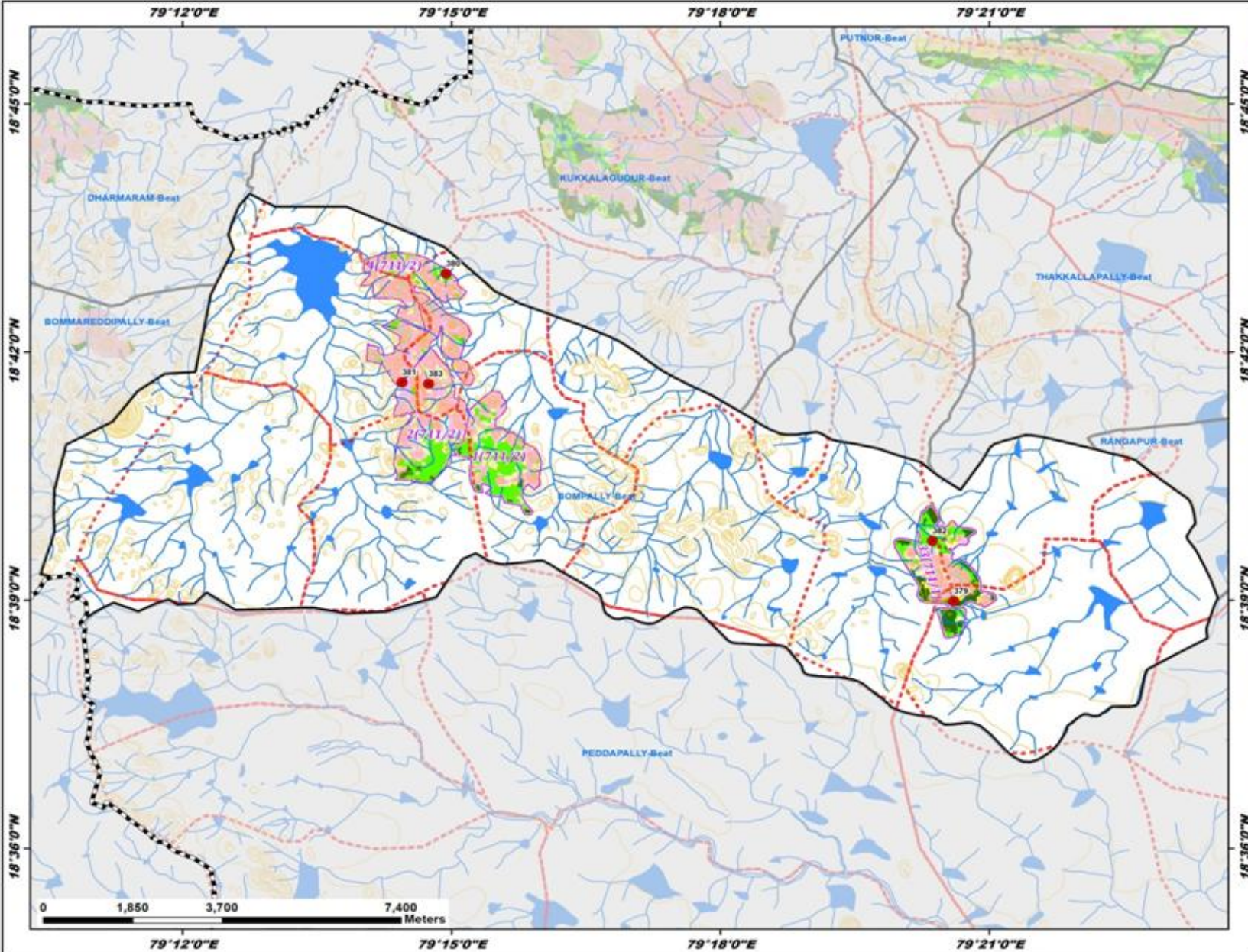
## Legend

- Proposed PTs
  - Existing CD/PTs
  - Contours
  - Streams
  - Watershed Boundary
  - Compartment Boundary
  - Beat Boundary
  - Division Boundary
- ### Suitability Index
- CCTs/SCTs - Highly Suitable
  - CCTs/SCTs - Moderately Suitable
  - CCTs/SCTs - Least Suitable
  - PTs - Highly Suitable
  - PTs - Moderately Suitable
  - PTs - Least Suitable
  - MPTs and SGPs - Suitable
  - Not Suitable
  - Water Body

# Map Showing Suitability index for Construction of SMC Works of Bompally Beat



Division : Peddapally  
Range : Peddapally



| ID  | Latitude  | Longitude | Catchment Area_ha | Priority |
|-----|-----------|-----------|-------------------|----------|
| 379 | 18.649801 | 79.343387 | 9.48              | I        |
| 380 | 18.715799 | 79.248988 | 5.20              | II       |
| 381 | 18.693913 | 79.240791 | 21.46             | II       |
| 382 | 18.661940 | 79.339364 | 12.94             | II       |
| 383 | 18.693617 | 79.245729 | 5.91              | IV       |

**Legend**

- Proposed PTs
- Existing CD/PTs
- Contours
- Streams
- Watershed Boundary
- Compartment Boundary
- Beat Boundary
- Division Boundary

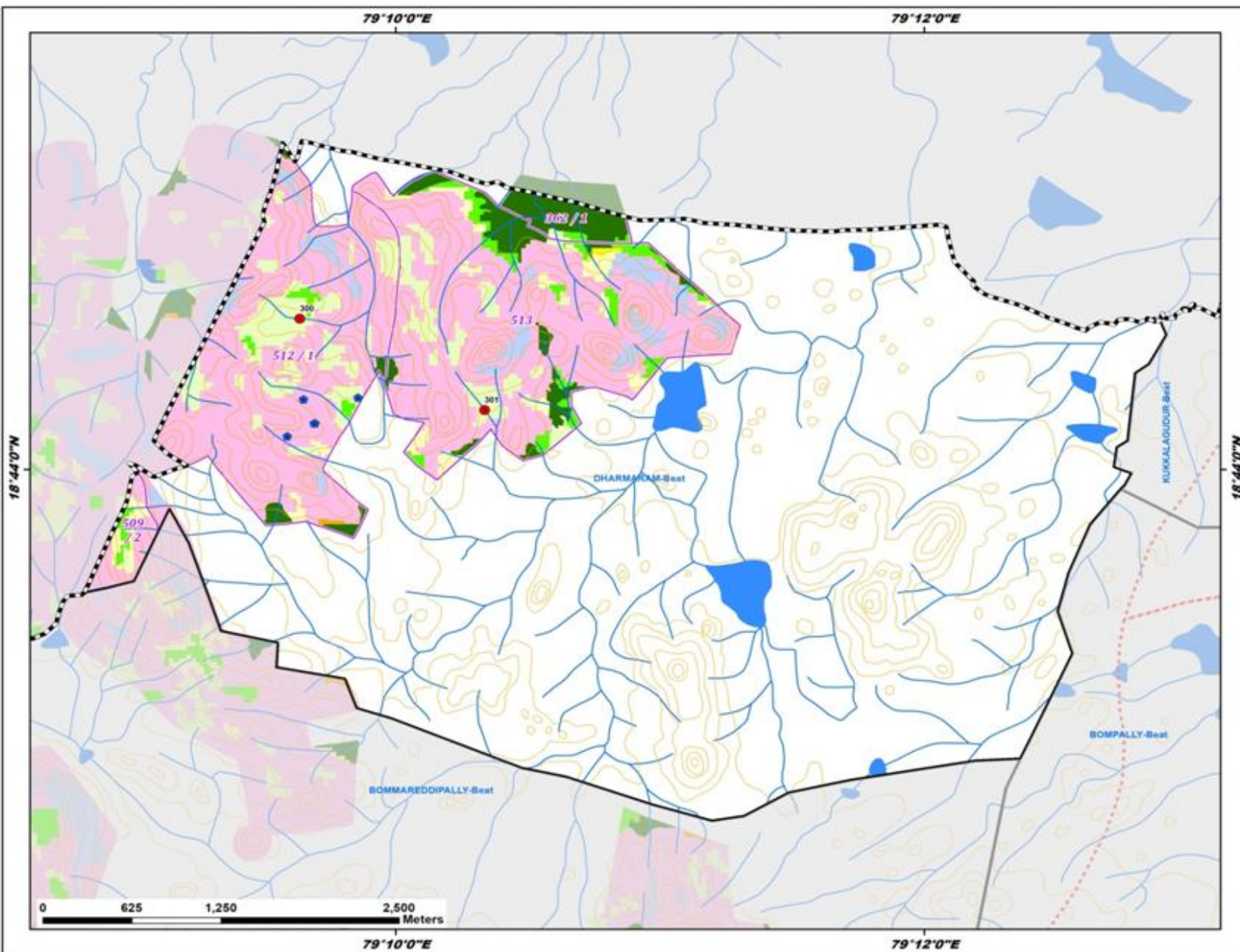
**Suitability Index**

- CCTs/SCTs - Highly Suitable
- CCTs/SCTs - Moderately Suitable
- CCTs/SCTs - Least Suitable
- PTs - Highly Suitable
- PTs - Moderately Suitable
- PTs - Least Suitable
- MPTs and SGPs - Suitable
- Not Suitable
- Water Body

# Map Showing Suitability index for Construction of SMC Works of Dharmaram Beat



Division : Peddapally  
Range : Peddapally



| ID  | Latitude  | Longitude | Catchment Area_ha | Priority |
|-----|-----------|-----------|-------------------|----------|
| 300 | 18.743644 | 79.160610 | 18.51             | IV       |
| 301 | 18.737408 | 79.172263 | 12.59             | IV       |

**Legend**

- Proposed PTs
- Existing CD/PTs
- Contours
- Streams
- Watershed Boundary
- Compartment Boundary
- Beat Boundary
- Division Boundary

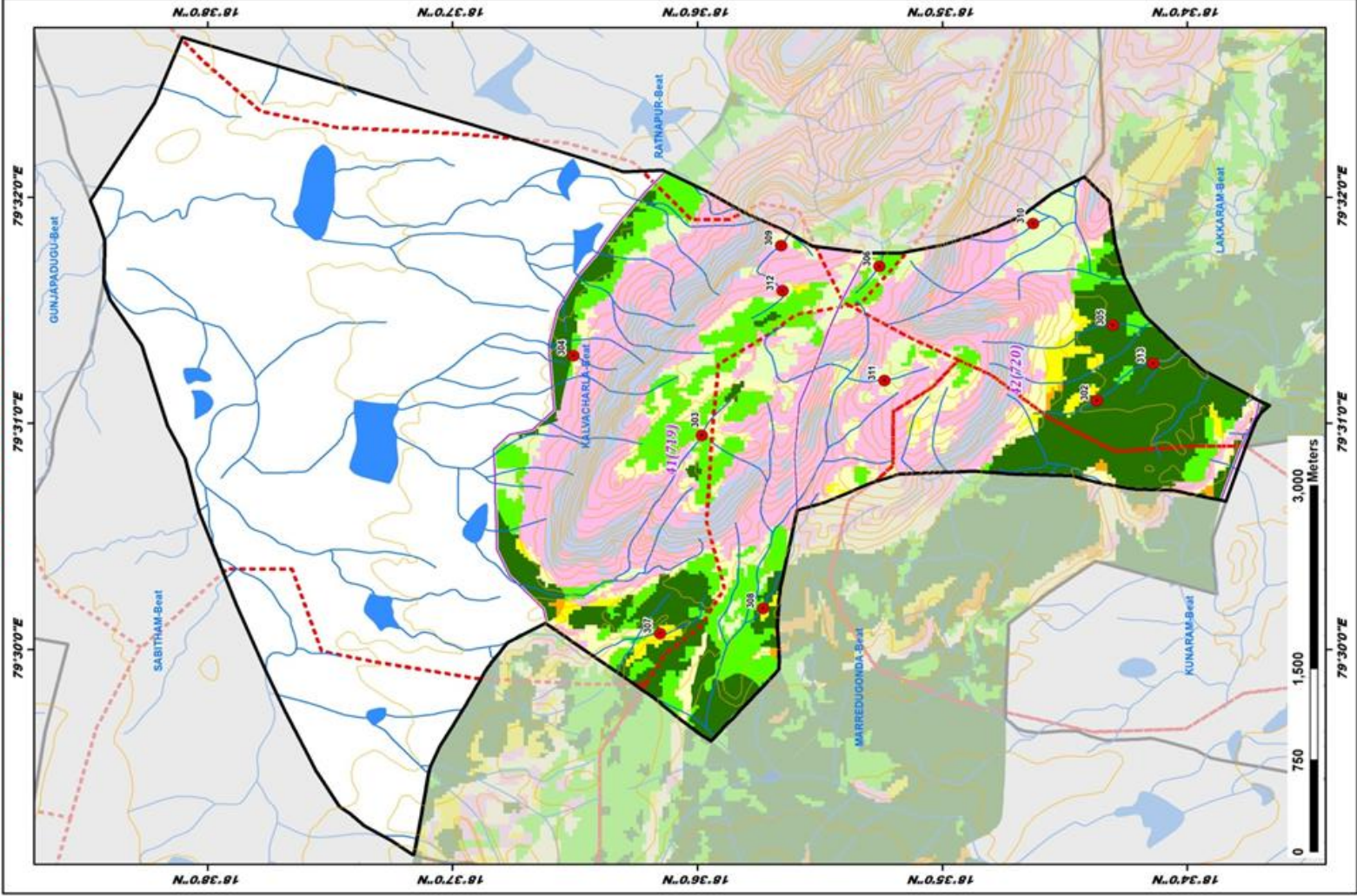
**Suitability Index**

- CCTs/SCTs - Highly Suitable
- CCTs/SCTs - Moderately Suitable
- CCTs/SCTs - Least Suitable
- PTs - Highly Suitable
- PTs - Moderately Suitable
- PTs - Least Suitable
- MPTs and SGPs - Suitable
- Not Suitable
- Water Body

# Map Showing Suitability Index for Construction of SMC Works of Kalvacharla Beat



Division : Peddapally  
Range : Peddapally



| ID  | Latitude  | Longitude | Catchment Area_ha | Priority |
|-----|-----------|-----------|-------------------|----------|
| 302 | 18.572803 | 79.518363 | 17.15             | I        |
| 303 | 18.599695 | 79.515810 | 11.28             | II       |
| 304 | 18.608423 | 79.521681 | 6.13              | II       |
| 305 | 18.571717 | 79.529932 | 34.89             | II       |
| 306 | 18.587609 | 79.528254 | 5.84              | II       |
| 307 | 18.602548 | 79.501192 | 13.85             | II       |
| 308 | 18.595534 | 79.503043 | 21.43             | II       |
| 309 | 18.594289 | 79.529796 | 10.59             | IV       |
| 310 | 18.577153 | 79.531427 | 11.10             | IV       |
| 311 | 18.587270 | 79.519842 | 11.42             | IV       |
| 312 | 18.594208 | 79.526458 | 9.80              | IV       |
| 313 | 18.568987 | 79.521098 | 44.97             | II       |

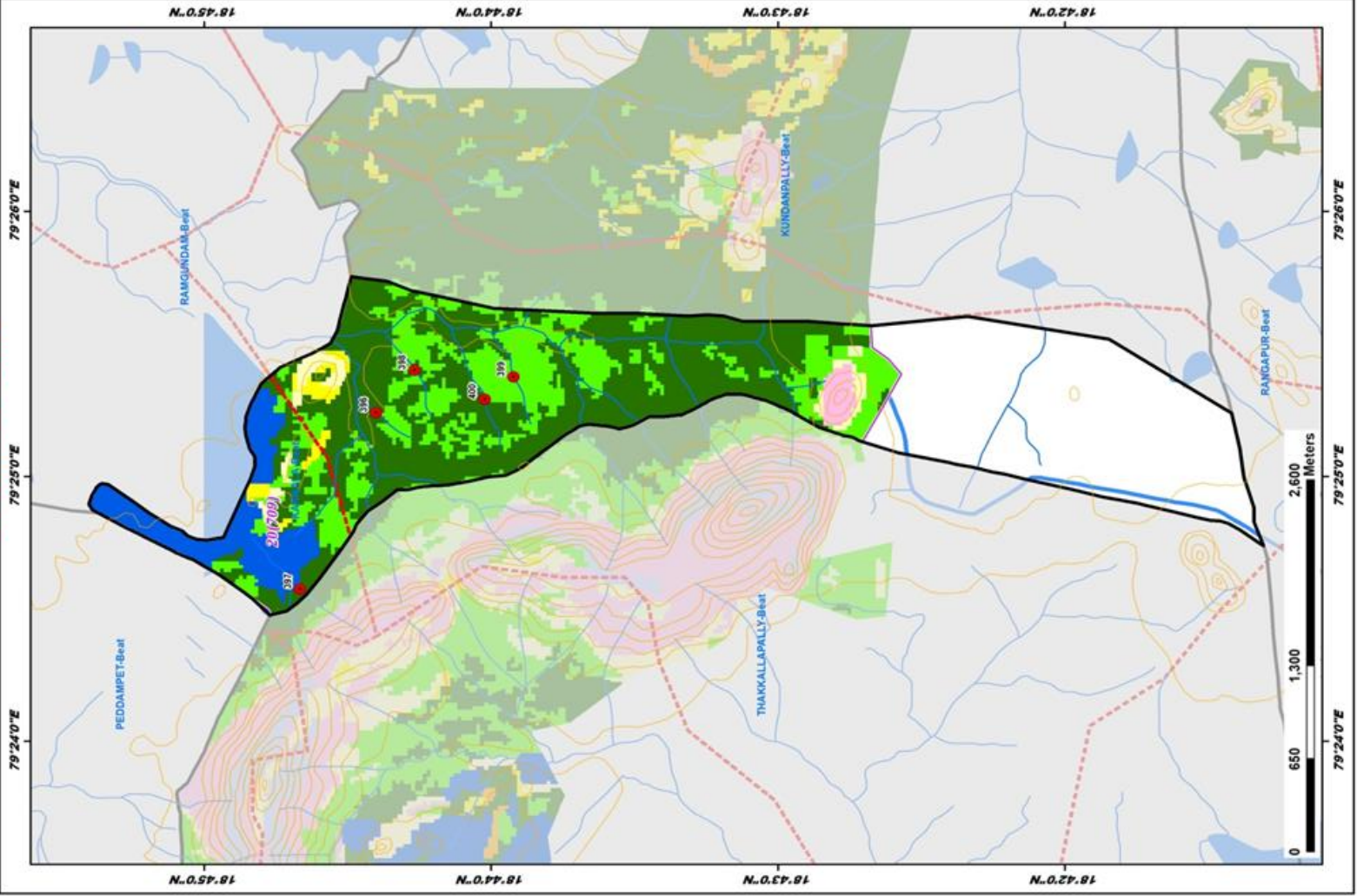
## LEGEND

- Proposed PTs
  - Existing CD/PTs
  - Contours
  - Streams
  - Watershed Boundary
  - Compartment Boundary
  - Beat Boundary
  - Division Boundary
- ### Suitability Index
- CCTe/SCTs - Highly Suitable
  - CCTe/SCTs - Moderately Suitable
  - CCTe/SCTs - Least Suitable
  - PTs - Highly Suitable
  - PTs - Moderately Suitable
  - PTs - Least Suitable
  - MPTs and SGPs - Suitable
  - Not Suitable
  - Water Body

# Map Showing Suitability Index for Construction of SMC Works of Kannala Beat



Division : Peddapally  
Range : Peddapally



| ID  | Latitude  | Longitude | Catchment Area, ha | Priority |
|-----|-----------|-----------|--------------------|----------|
| 396 | 18.740009 | 79.420709 | 8.78               | I        |
| 397 | 18.744417 | 79.409611 | 11.34              | I        |
| 398 | 18.737769 | 79.423372 | 6.03               | I        |
| 399 | 18.732031 | 79.422953 | 13.04              | II       |
| 400 | 18.733692 | 79.421548 | 16.39              | II       |

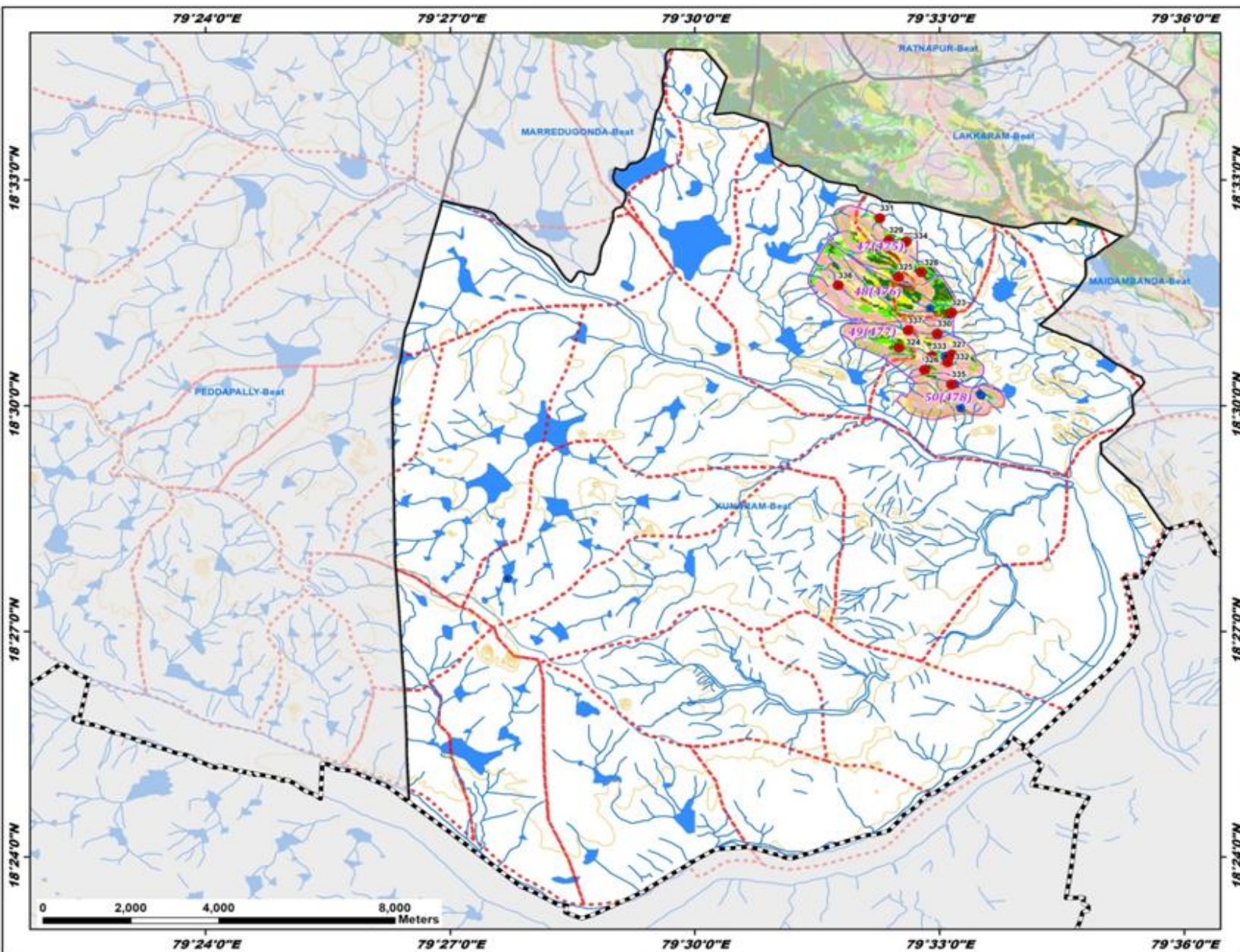
## LEGEND

- Proposed PTs
  - Existing CD/PTs
  - Contours
  - Streams
  - Watershed Boundary
  - Compartment Boundary
  - Beat Boundary
  - Division Boundary
- Suitability Index**
- CCTe/SCTs - Highly Suitable
  - CCTe/SCTs - Moderately Suitable
  - CCTe/SCTs - Least Suitable
  - PTs - Highly Suitable
  - PTs - Moderately Suitable
  - PTs - Least Suitable
  - MPTs and SGPs - Suitable
  - Not Suitable
  - Water Body

# Map Showing Suitability index for Construction of SMC Works of Kunaram Beat



Division : Peddapally  
Range : Peddapally



| ID  | Latitude  | Longitude | Catchment Area_ha | Priority |
|-----|-----------|-----------|-------------------|----------|
| 323 | 18.520561 | 79.552435 | 9.66              | I        |
| 324 | 18.512841 | 79.541695 | 5.91              | I        |
| 325 | 18.528508 | 79.541602 | 9.39              | I        |
| 326 | 18.507945 | 79.546955 | 5.33              | II       |
| 327 | 18.511310 | 79.552498 | 15.53             | II       |
| 328 | 18.529599 | 79.546261 | 14.43             | II       |
| 329 | 18.536677 | 79.539629 | 13.45             | IV       |
| 330 | 18.515909 | 79.549513 | 11.09             | IV       |
| 331 | 18.541543 | 79.537748 | 9.61              | IV       |
| 332 | 18.509578 | 79.551685 | 11.50             | IV       |
| 333 | 18.510945 | 79.548484 | 10.00             | IV       |
| 334 | 18.536351 | 79.543149 | 9.96              | IV       |
| 335 | 18.504662 | 79.552455 | 11.94             | IV       |
| 336 | 18.526648 | 79.529291 | 20.70             | IV       |
| 337 | 18.516659 | 79.543561 | 6.07              | IV       |

**Legend**

- Proposed PTs
- Existing CD/PTs
- Contours
- Streams
- Watershed Boundary
- Compartment Boundary
- Beat Boundary
- Division Boundary

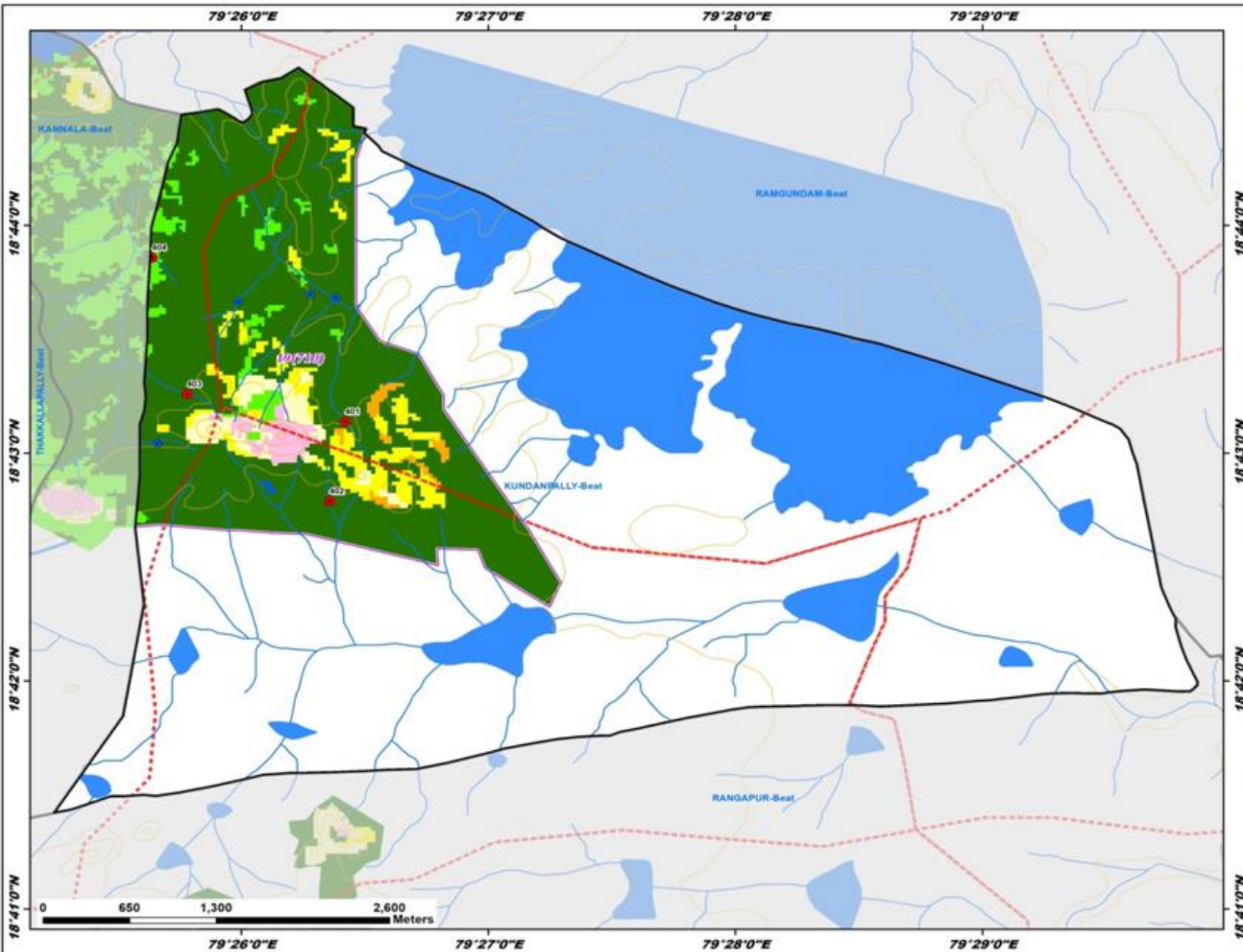
**Suitability Index**

- CCTs/SCTs - Highly Suitable
- CCTs/SCTs - Moderately Suitable
- CCTs/SCTs - Least Suitable
- PTs - Highly Suitable
- PTs - Moderately Suitable
- PTs - Least Suitable
- MPTs and SGPs - Suitable
- Not Suitable
- Water Body

# Map Showing Suitability index for Construction of SMC Works of Kundanpally Beat



Division : Peddapally  
Range : Peddapally



| ID  | Latitude  | Longitude | Catchment Area_ha | Priority |
|-----|-----------|-----------|-------------------|----------|
| 401 | 18.718976 | 79.440351 | 17.79             | I        |
| 402 | 18.713150 | 79.439295 | 6.55              | I        |
| 403 | 18.720997 | 79.429677 | 8.99              | I        |
| 404 | 18.730980 | 79.427317 | 18.17             | II       |

**Legend**

- Proposed PTs
- Existing CD/PTs
- Contours
- Streams
- - - Watershed Boundary
- Compartment Boundary
- Beat Boundary
- Division Boundary

**Suitability Index**

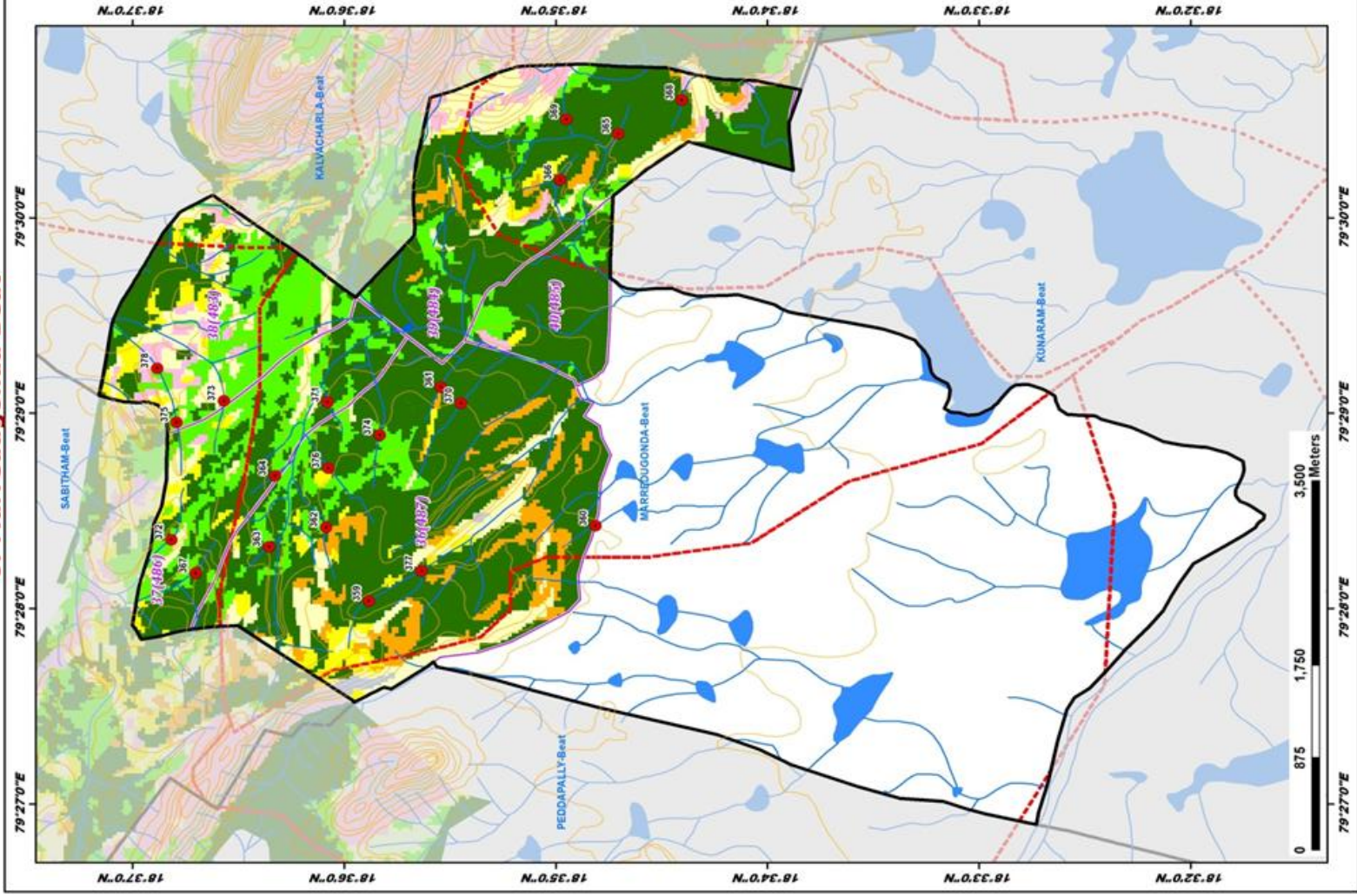
- CCTs/SCTs - Highly Suitable
- CCTs/SCTs - Moderately Suitable
- CCTs/SCTs - Least Suitable
- PTs - Highly Suitable
- PTs - Moderately Suitable
- PTs - Least Suitable
- MPTs and SGPs - Suitable
- Not Suitable
- Water Body



# Map Showing Suitability Index for Construction of SMC Works of Marredugonda Beat



Division : Peddapally  
Range : Peddapally



| ID  | Latitude  | Longitude | Catchment Area_ha | Priority |
|-----|-----------|-----------|-------------------|----------|
| 359 | 18.598044 | 79.467360 | 21.54             | I        |
| 360 | 18.580213 | 79.473780 | 7.36              | I        |
| 361 | 18.592356 | 79.485599 | 7.93              | I        |
| 362 | 18.601004 | 79.472651 | 9.15              | I        |
| 363 | 18.605905 | 79.471976 | 8.33              | I        |
| 364 | 18.605427 | 79.478032 | 4.84              | I        |
| 365 | 18.578406 | 79.507210 | 16.18             | I        |
| 366 | 18.582979 | 79.503263 | 7.18              | I        |
| 367 | 18.611701 | 79.469770 | 11.69             | I        |
| 368 | 18.579403 | 79.510086 | 7.13              | I        |
| 369 | 18.582495 | 79.508445 | 13.79             | I        |
| 370 | 18.590790 | 79.484216 | 24.63             | I        |
| 371 | 18.601303 | 79.484328 | 14.35             | I        |
| 372 | 18.613603 | 79.472588 | 20.74             | II       |
| 373 | 18.609465 | 79.484441 | 16.50             | II       |
| 374 | 18.597184 | 79.481508 | 13.06             | II       |
| 375 | 18.613187 | 79.482611 | 19.48             | II       |
| 376 | 18.601238 | 79.478694 | 40.18             | II       |
| 377 | 18.593906 | 79.469933 | 54.66             | III      |
| 378 | 18.614712 | 79.487210 | 28.05             | III      |

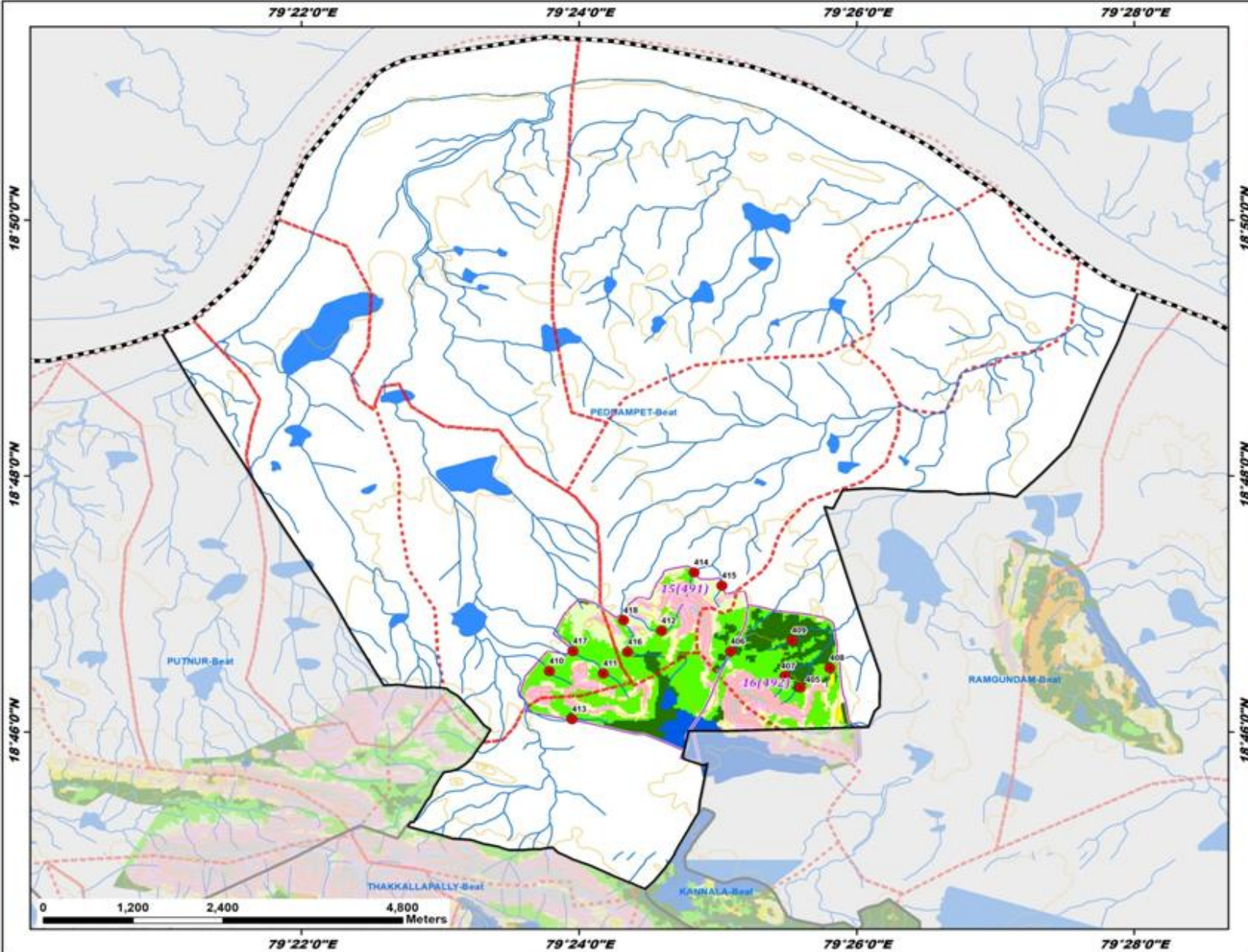
## LEGEND

- Proposed PTs
  - Existing CDPTs
  - Contours
  - Streams
  - Watershed Boundary
  - Compartment Boundary
  - Beat Boundary
  - Division Boundary
- ### Suitability Index
- CCTe/SCTs - Highly Suitable
  - CCTe/SCTs - Moderately Suitable
  - CCTe/SCTs - Least Suitable
  - PTs - Highly Suitable
  - PTs - Moderately Suitable
  - PTs - Least Suitable
  - MPTs and SGPs - Suitable
  - Not Suitable
  - Water Body

# Map Showing Suitability index for Construction of SMC Works of Peddampet Beat



Division : Peddapally  
Range : Peddapally



| ID  | Latitude  | Longitude | Catchment Area_ha | Priority |
|-----|-----------|-----------|-------------------|----------|
| 359 | 18.598044 | 79.467360 | 21.54             | I        |
| 360 | 18.580213 | 79.473780 | 7.36              | I        |
| 361 | 18.592356 | 79.485599 | 7.93              | I        |
| 362 | 18.601404 | 79.473651 | 9.15              | I        |
| 363 | 18.605905 | 79.471976 | 8.33              | I        |
| 364 | 18.605427 | 79.478032 | 4.84              | I        |
| 365 | 18.578406 | 79.507210 | 16.18             | I        |
| 366 | 18.582979 | 79.503263 | 7.18              | I        |
| 367 | 18.611701 | 79.469720 | 11.69             | I        |
| 368 | 18.573403 | 79.510086 | 7.13              | I        |
| 369 | 18.582495 | 79.508445 | 13.79             | I        |
| 370 | 18.590790 | 79.484216 | 24.63             | I        |
| 371 | 18.601303 | 79.484328 | 14.35             | I        |
| 372 | 18.613603 | 79.472588 | 20.74             | II       |
| 373 | 18.609465 | 79.484441 | 16.50             | II       |
| 374 | 18.597184 | 79.481508 | 13.06             | II       |
| 375 | 18.613187 | 79.482611 | 19.48             | II       |
| 376 | 18.601238 | 79.478694 | 40.18             | II       |
| 377 | 18.593906 | 79.469933 | 54.66             | III      |
| 378 | 18.614712 | 79.487210 | 28.05             | III      |

**Legend**

- Proposed PTs
- Existing CD/PTs
- Contours
- Streams
- - - Watershed Boundary
- Compartment Boundary
- Beat Boundary
- - - Division Boundary

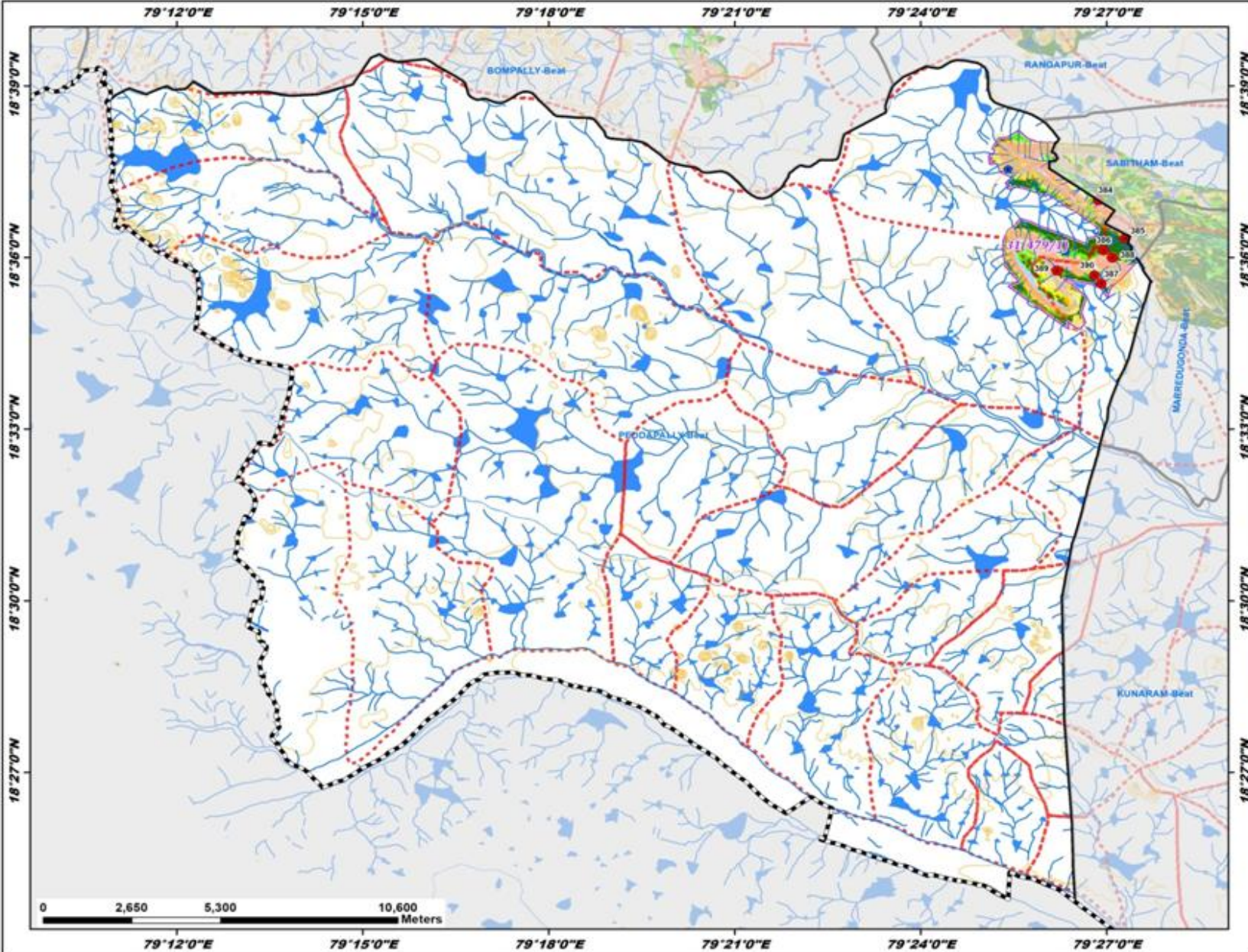
**Suitability Index**

- CCTs/SCTs - Highly Suitable
- CCTs/SCTs - Moderately Suitable
- CCTs/SCTs - Least Suitable
- PTs - Highly Suitable
- PTs - Moderately Suitable
- PTs - Least Suitable
- MPTs and SGPs - Suitable
- Not Suitable
- Water Body

# Map Showing Suitability index for Construction of SMC Works of Peddapally Beat



Division : Peddapally  
Range : Peddapally



| ID  | Latitude  | Longitude | Catchment Area_ha | Priority |
|-----|-----------|-----------|-------------------|----------|
| 384 | 18.616709 | 79.447693 | 7.57              | I        |
| 385 | 18.605532 | 79.454901 | 4.85              | I        |
| 386 | 18.602126 | 79.449138 | 6.30              | II       |
| 387 | 18.592373 | 79.448533 | 7.56              | II       |
| 388 | 18.599948 | 79.451533 | 18.98             | IV       |
| 389 | 18.596215 | 79.436603 | 22.61             | IV       |
| 390 | 18.594794 | 79.446714 | 26.90             | V        |

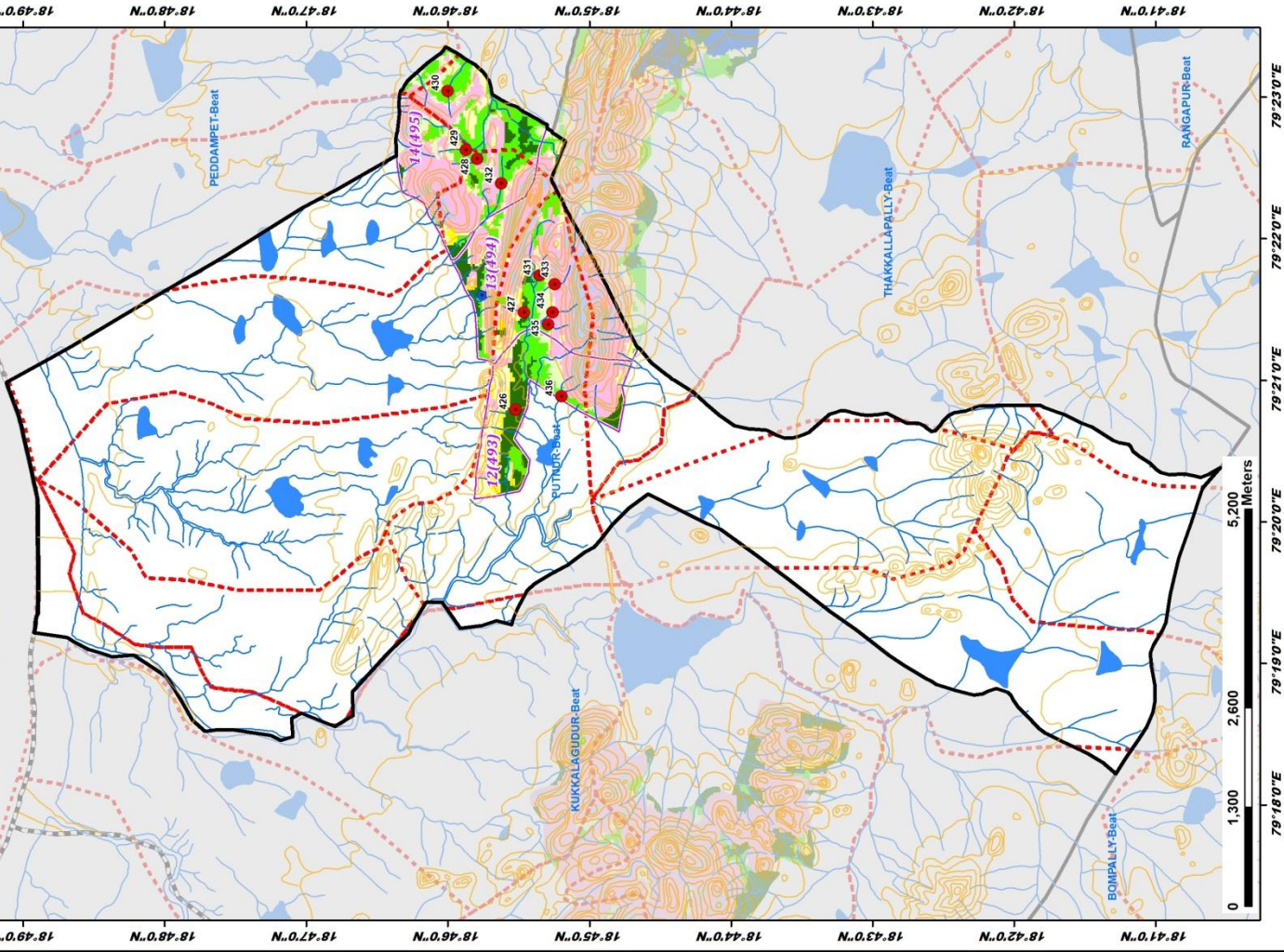
**Legend**

- Proposed PTs
- Existing CD/PTs
- Contours
- Streams
- Watershed Boundary
- Compartment Boundary
- Beat Boundary
- Division Boundary

**Suitability Index**

- CCTs/SCTs - Highly Suitable
- CCTs/SCTs - Moderately Suitable
- CCTs/SCTs - Least Suitable
- PTs - Highly Suitable
- PTs - Moderately Suitable
- PTs - Least Suitable
- MPTs and SGPs - Suitable
- Not Suitable
- Water Body

# Map Showing Suitability Index for Construction of SMC Works of Putnur Beat



Division : Peddapally  
Range : Peddapally



| ID  | Latitude  | Longitude | Catchment Area_sq | Priority |
|-----|-----------|-----------|-------------------|----------|
| 426 | 18.758676 | 79.346623 | 10.80             | I        |
| 427 | 18.757725 | 79.358049 | 4.96              | II       |
| 428 | 18.763198 | 79.376133 | 13.86             | II       |
| 429 | 18.764550 | 79.377194 | 9.62              | II       |
| 430 | 18.766673 | 79.384139 | 14.64             | II       |
| 431 | 18.755840 | 79.362416 | 12.16             | II       |
| 432 | 18.760354 | 79.373231 | 29.75             | III      |
| 433 | 18.754080 | 79.361394 | 12.70             | IV       |
| 434 | 18.754329 | 79.358062 | 6.74              | IV       |
| 435 | 18.754889 | 79.356630 | 11.04             | IV       |
| 436 | 18.753285 | 79.348191 | 8.91              | IV       |

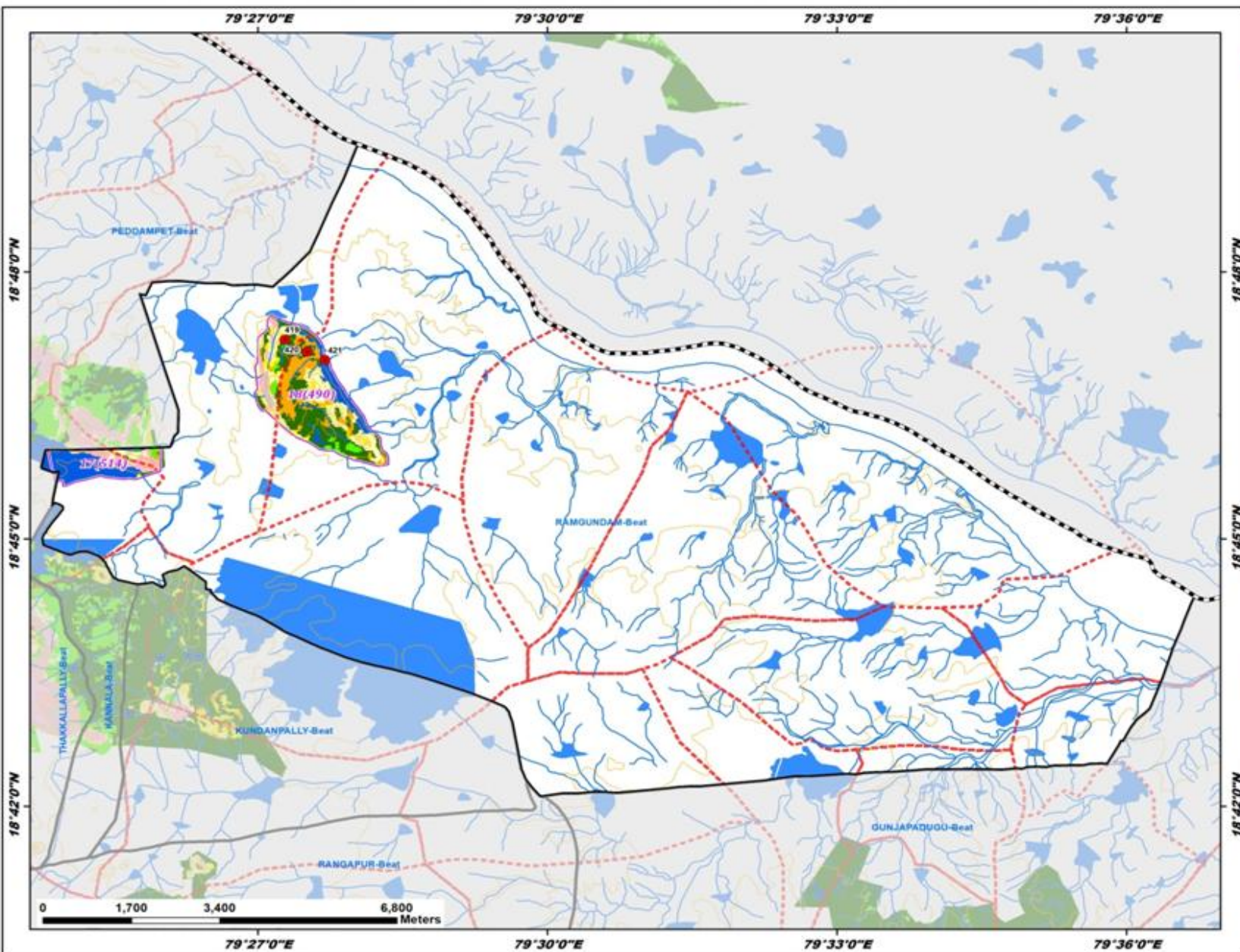
## LEGEND

- Proposed PTs (Red dot)
- Existing CD/PTs (Blue dot)
- Contours (Yellow line)
- Streams (Blue line)
- Watershed Boundary (Dashed red line)
- Compartment Boundary (Dotted red line)
- Beat Boundary (Solid black line)
- Division Boundary (Dashed grey line)
- Suitability Index**
  - Highly Suitable (Red)
  - Moderately Suitable (Orange)
  - Least Suitable (Yellow)
  - Not Suitable (Light Green)
  - MPTs and SGPs - Suitable (Pink)
  - Not Suitable (Light Blue)
  - Water Body (Blue)

# Map Showing Suitability index for Construction of SMC Works of Ramgundam Beat



Division : Peddapally  
Range : Peddapally



| ID  | Latitude  | Longitude | Catchment Area_ha | Priority |
|-----|-----------|-----------|-------------------|----------|
| 419 | 18.787291 | 79.454595 | 12.66             | I        |
| 420 | 18.785063 | 79.458459 | 7.13              | I        |
| 421 | 18.783525 | 79.461540 | 42.28             | II       |

**Legend**

- Proposed PTs
- Existing CD/PTs
- Contours
- Streams
- - - Watershed Boundary
- - - Compartment Boundary
- ▭ Beat Boundary
- - - Division Boundary

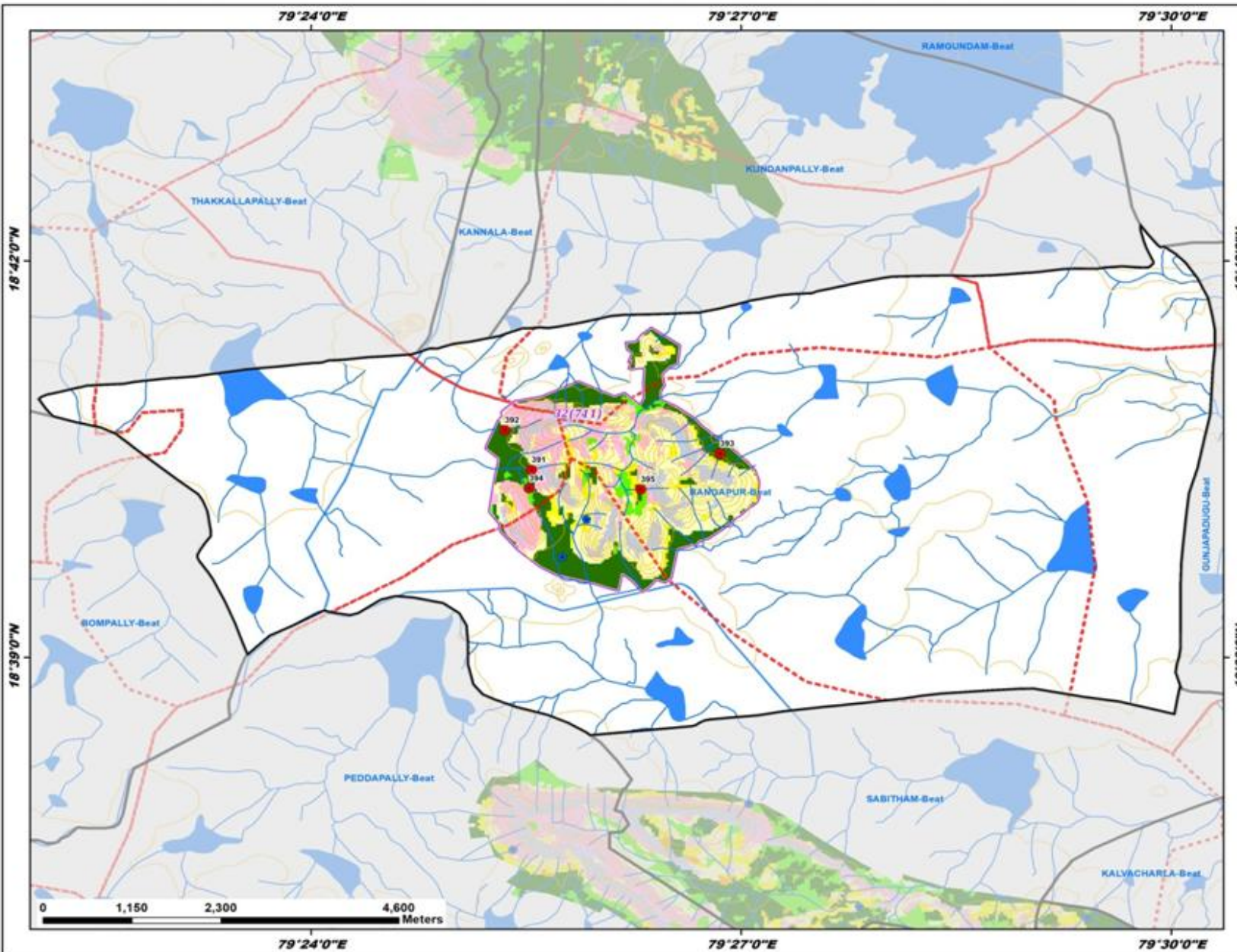
**Suitability Index**

- CCTs/SCTs - Highly Suitable
- CCTs/SCTs - Moderately Suitable
- CCTs/SCTs - Least Suitable
- PTs - Highly Suitable
- PTs - Moderately Suitable
- PTs - Least Suitable
- MPTs and SGPs - Suitable
- Not Suitable
- Water Body

# Map Showing Suitability index for Construction of SMC Works of Rangapur Beat



Division : Peddapally  
Range : Peddapally



| ID  | Latitude  | Longitude | Catchment Area_ha | Priority |
|-----|-----------|-----------|-------------------|----------|
| 391 | 18.673678 | 79.425600 | 9.22              | I        |
| 392 | 18.678666 | 79.422502 | 16.49             | I        |
| 393 | 18.675698 | 79.447514 | 9.73              | I        |
| 394 | 18.671330 | 79.425317 | 6.01              | II       |
| 395 | 18.671202 | 79.438329 | 15.40             | II       |

**Legend**

- Proposed PTs
- Existing CD/PTs
- Contours
- Streams
- - - Watershed Boundary
- - - Compartment Boundary
- Beat Boundary
- - - Division Boundary

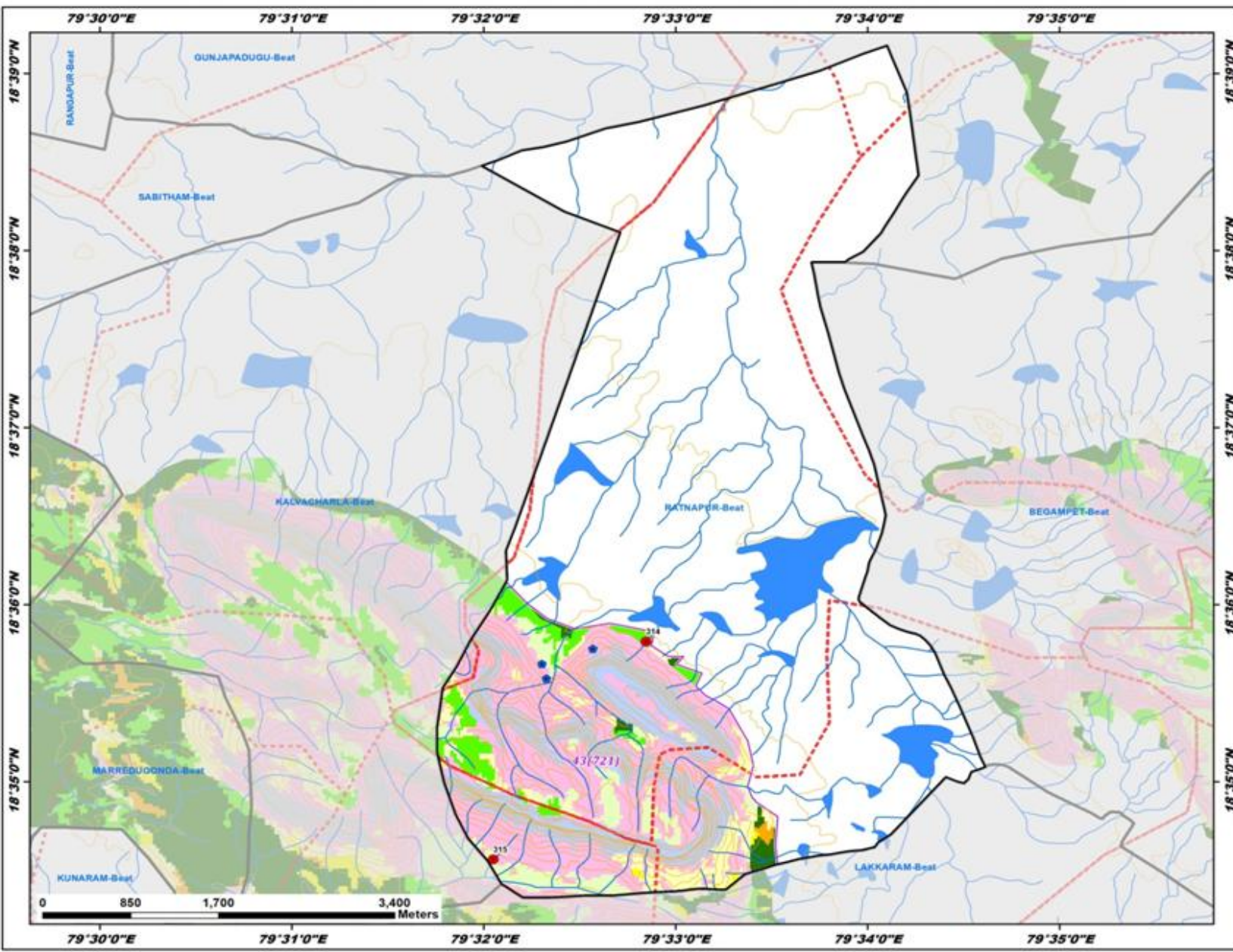
**Suitability Index**

- CCTs/SCTs - Highly Suitable
- CCTs/SCTs - Moderately Suitable
- CCTs/SCTs - Least Suitable
- PTs - Highly Suitable
- PTs - Moderately Suitable
- PTs - Least Suitable
- MPTs and SGPs - Suitable
- Not Suitable
- Water Body

# Map Showing Suitability index for Construction of SMC Works of Ratnapur Beat



Division : Peddapally  
Range : Peddapally



| ID  | Latitude  | Longitude | Catchment Area_ha | Priority |
|-----|-----------|-----------|-------------------|----------|
| 314 | 18.596511 | 79.547407 | 7.66              | II       |
| 315 | 18.575991 | 79.534142 | 6.20              | IV       |

**Legend**

- Proposed PTs
- Existing CD/PTs
- Contours
- Streams
- Watershed Boundary
- Compartment Boundary
- Beat Boundary
- Division Boundary

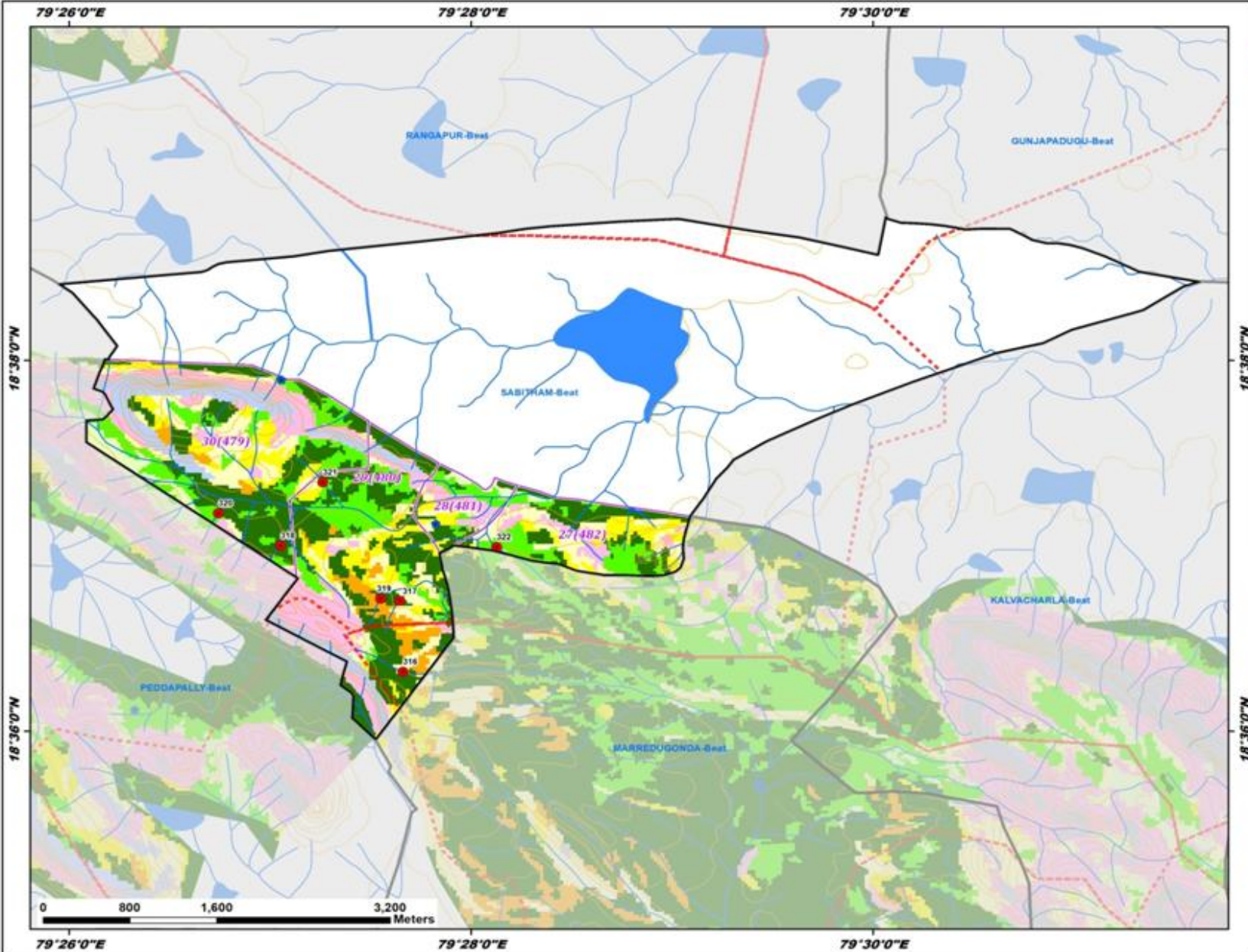
**Suitability Index**

- CCTs/SCTs - Highly Suitable
- CCTs/SCTs - Moderately Suitable
- CCTs/SCTs - Least Suitable
- PTs - Highly Suitable
- PTs - Moderately Suitable
- PTs - Least Suitable
- MPTs and SGPs - Suitable
- Not Suitable
- Water Body

# Map Showing Suitability index for Construction of SMC Works of Sabitham Beat



Division : Peddapally  
Range : Peddapally



| ID  | Latitude  | Longitude | Catchment Area_ha | Priority |
|-----|-----------|-----------|-------------------|----------|
| 316 | 18.605321 | 79.460997 | 9.08              | I        |
| 317 | 18.611705 | 79.460728 | 6.03              | I        |
| 318 | 18.616661 | 79.450844 | 10.95             | I        |
| 319 | 18.618897 | 79.459151 | 4.89              | I        |
| 320 | 18.619563 | 79.445694 | 14.08             | II       |
| 321 | 18.622362 | 79.454345 | 31.89             | III      |
| 322 | 18.616516 | 79.468752 | 36.98             | III      |

**Legend**

- Proposed PTs
- Existing CD/PTs
- Contours
- Streams
- Watershed Boundary
- Compartment Boundary
- Beat Boundary
- Division Boundary

**Suitability Index**

- CCTs/SCTs - Highly Suitable
- CCTs/SCTs - Moderately Suitable
- CCTs/SCTs - Least Suitable
- PTs - Highly Suitable
- PTs - Moderately Suitable
- PTs - Least Suitable
- MPTs and SGPs - Suitable
- Not Suitable
- Water Body

