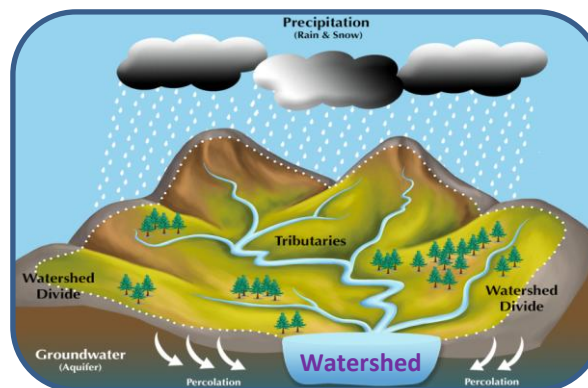


Government of Telangana – Forest Department



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

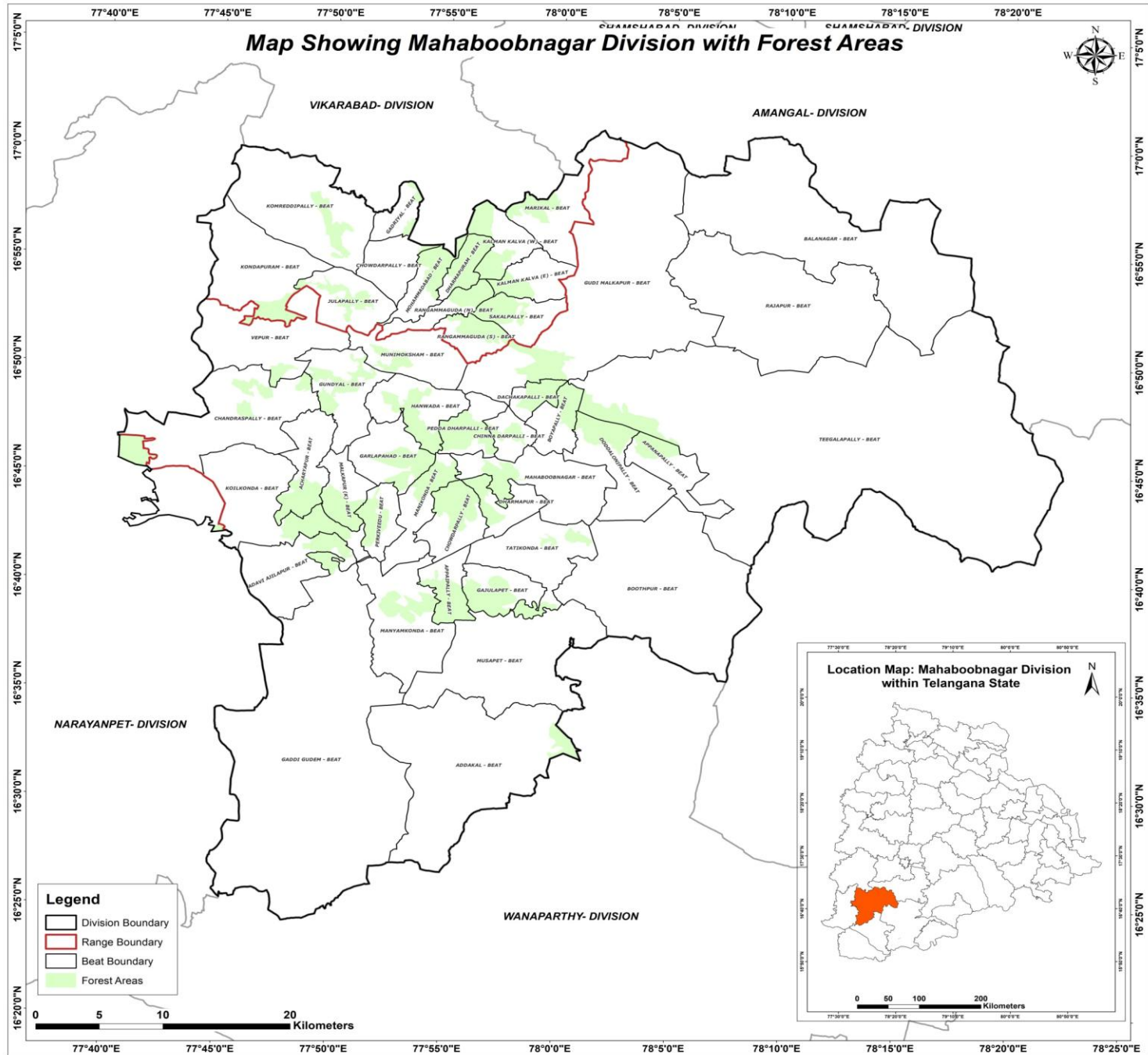


SITE SUITABILITY ANALYSIS FOR WATER HARVESTING STRUCTURES USING REMOTE SENSING & GIS

Circle: Jogulamba
District: Mahabubnagar
Division: Mahabubnagar

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

Map Showing Mahaboobnagar Division with Forest Areas



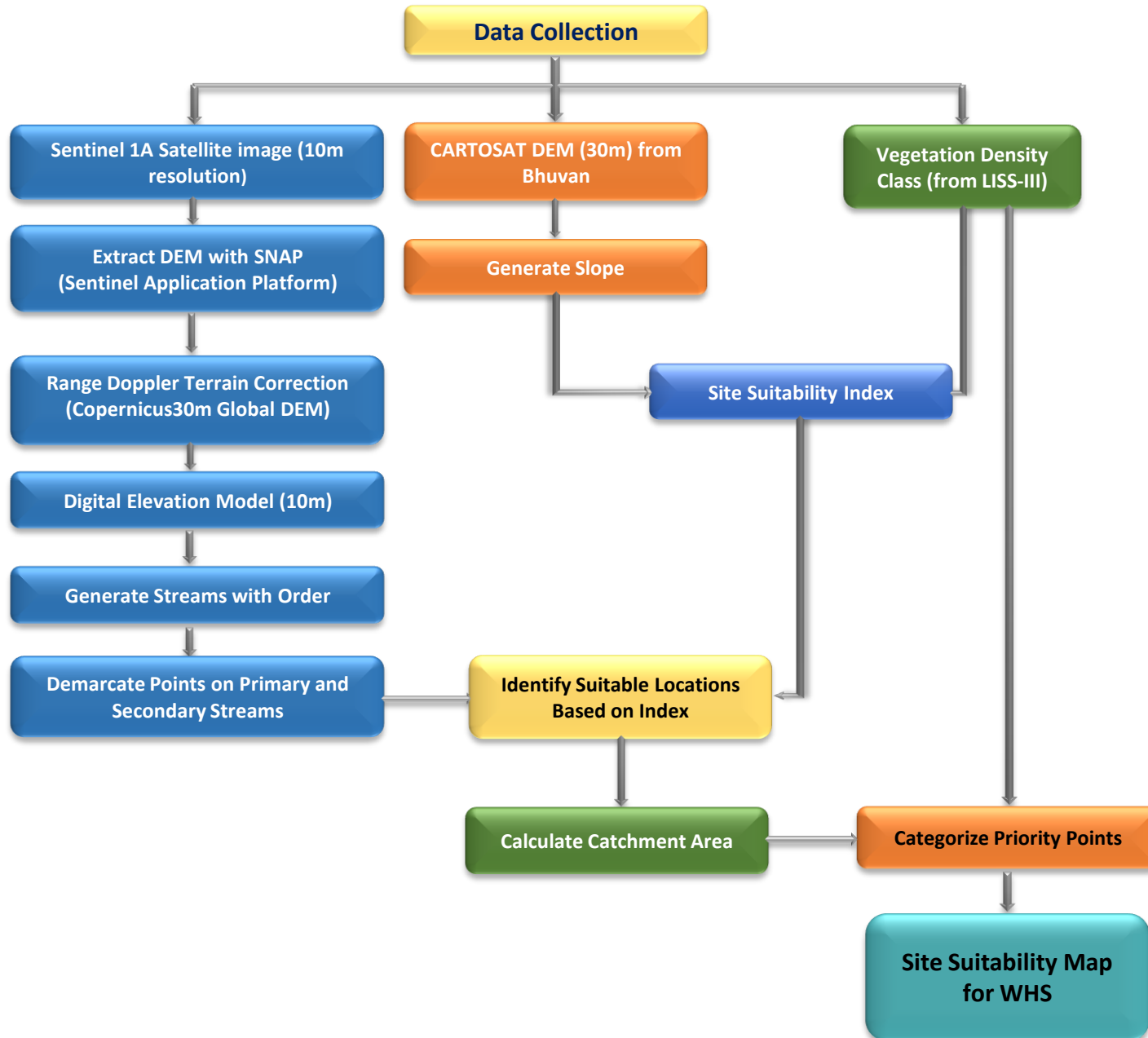
METHODOLOGY

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.



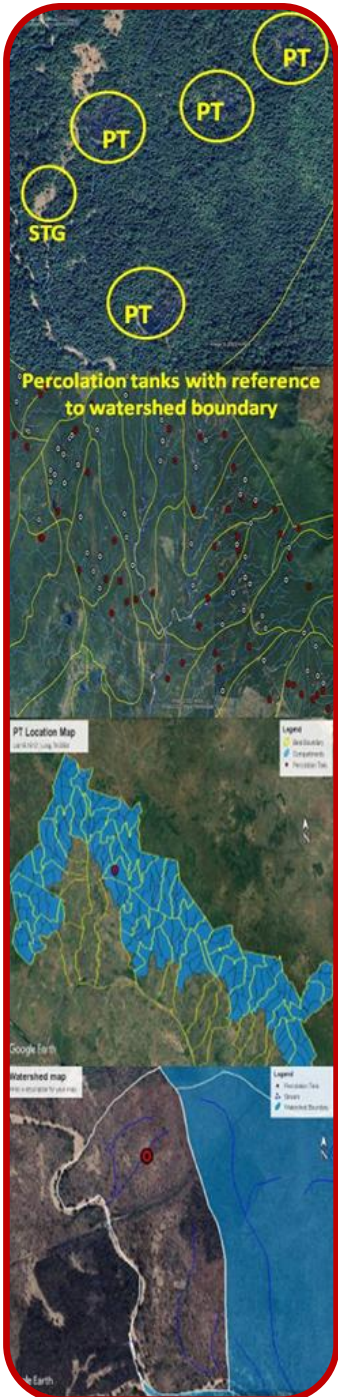
Suitability criteria for Check-Dams and Percolation Tanks (SITE SUITABILITY INDEX)

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





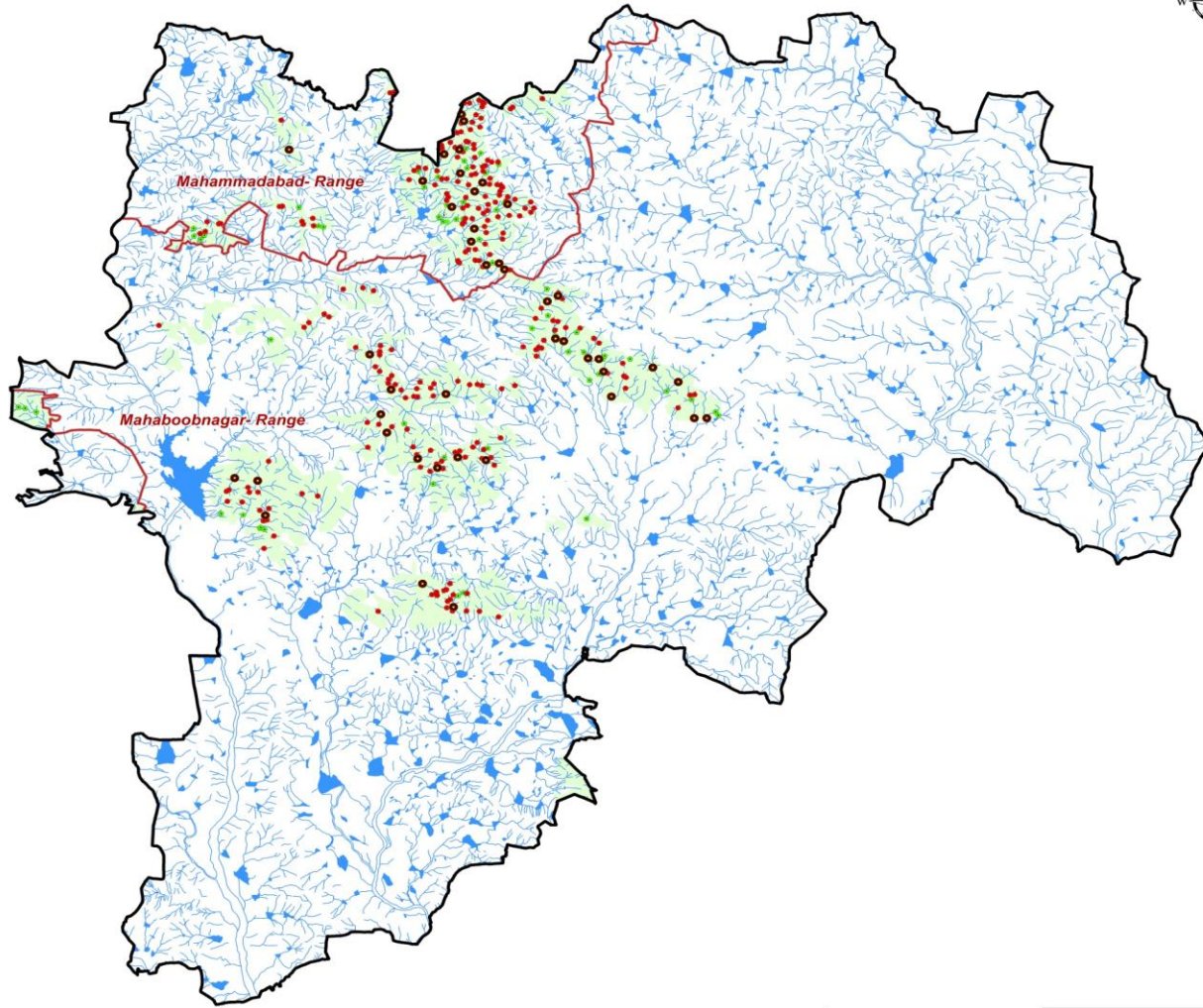
PRIORITY CLASSES FOR PERCOLATION TANK

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



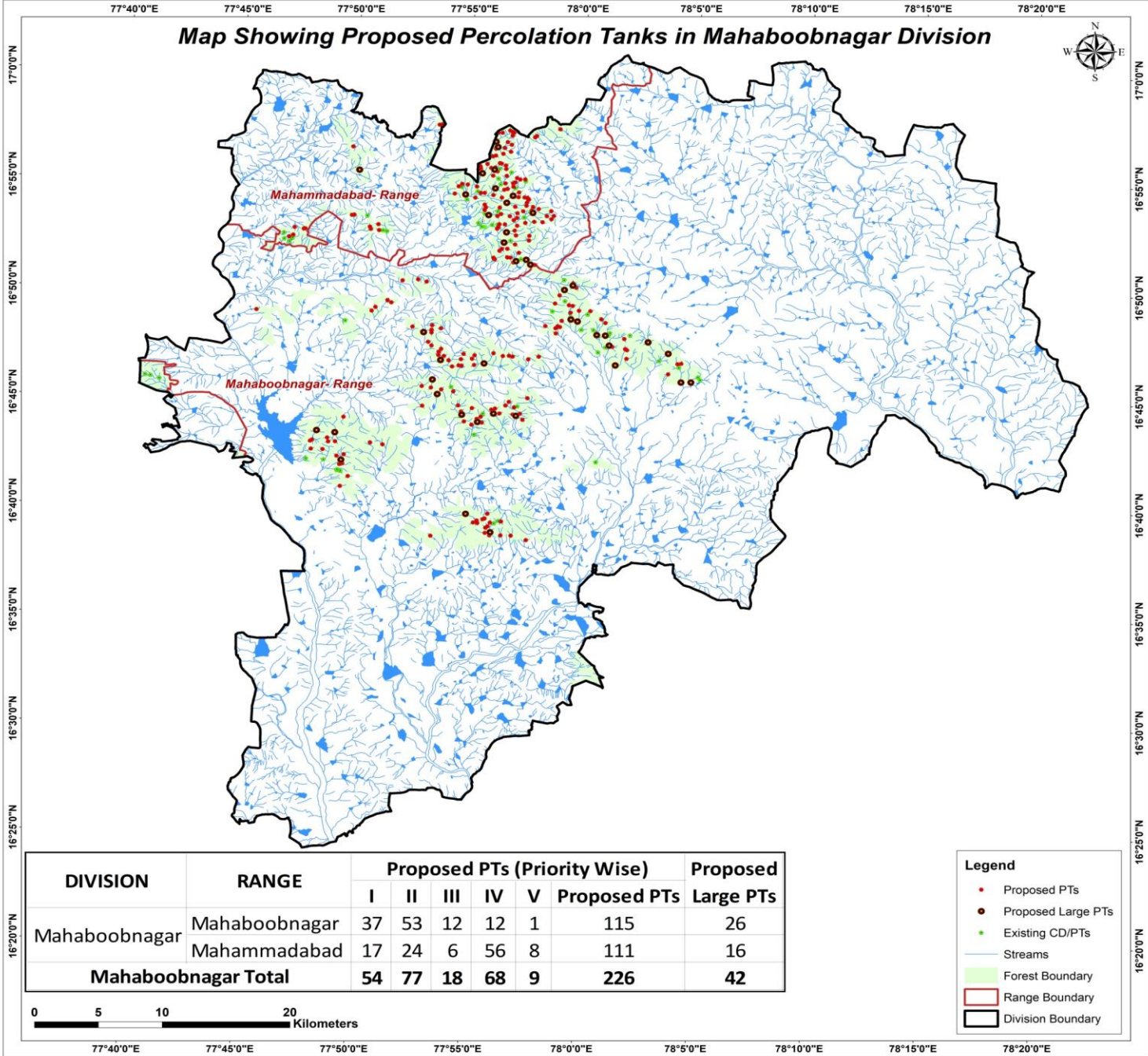


Map Showing Proposed Percolation Tanks in Mahaboobnagar Division

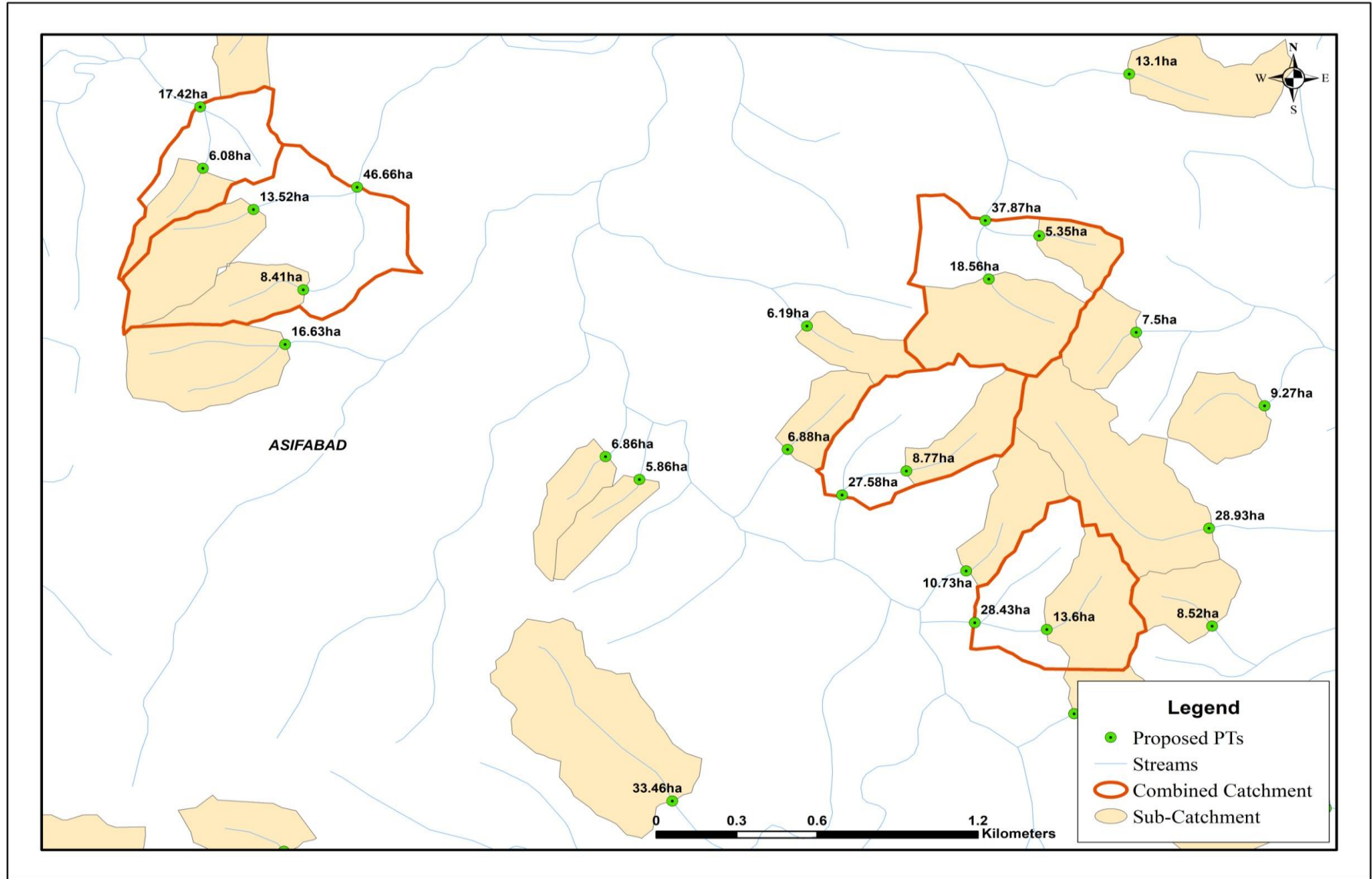


DIVISION	RANGE	Proposed PTs (Priority Wise)					Proposed Large PTs	
		I	II	III	IV	V		
Mahaboobnagar	Mahaboobnagar	37	53	12	12	1	115	26
	Mahammadabad	17	24	6	56	8	111	16
Mahaboobnagar Total		54	77	18	68	9	226	42

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



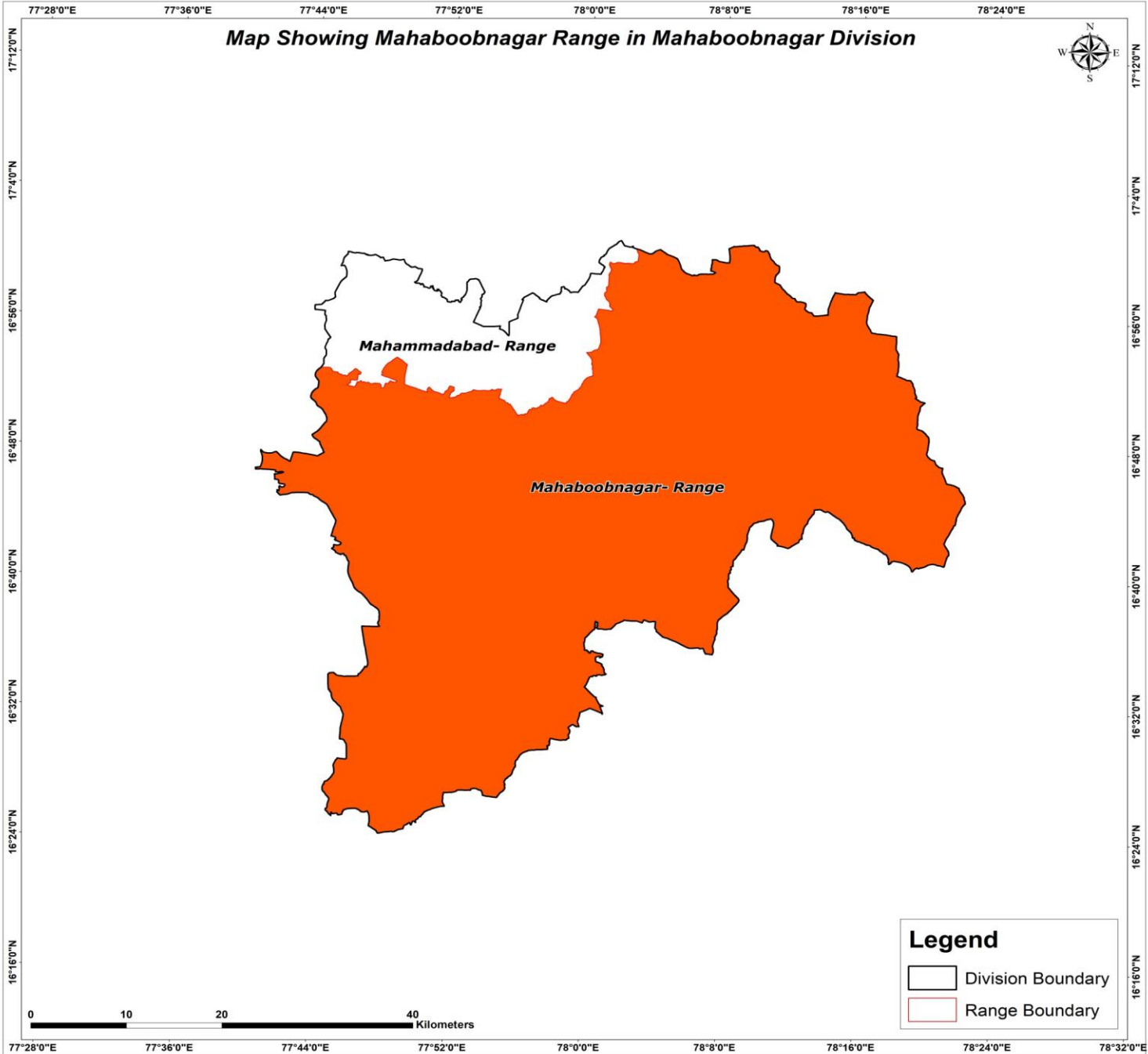
CATCHMENT AREA



Sample Catchment Map



Map Showing Mahaboobnagar Range in Mahaboobnagar Division



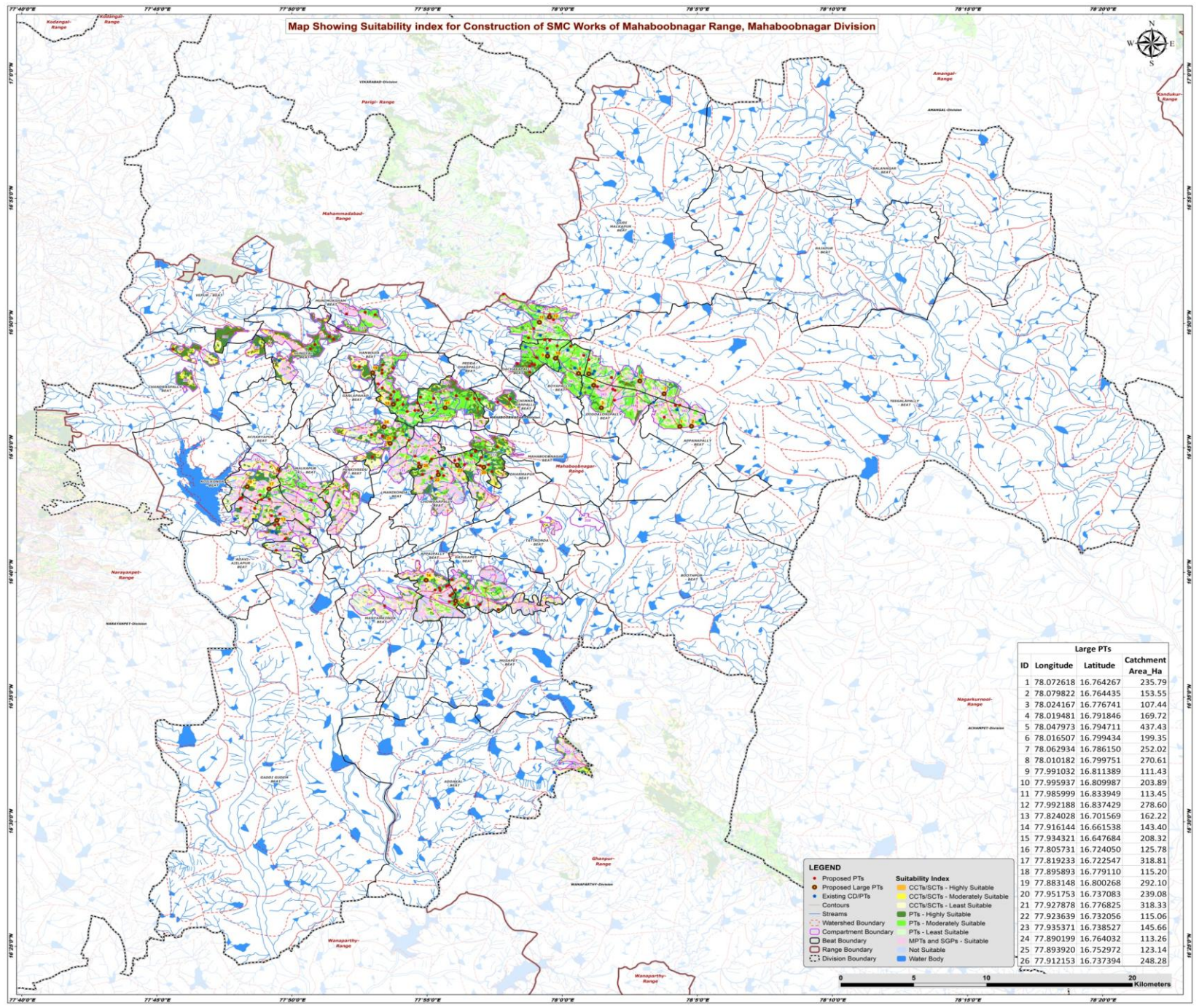
Mahammadabad- Range

Mahaboobnagar- Range

Legend

-  Division Boundary
-  Range Boundary

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



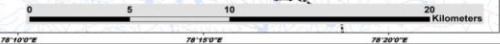
Large PTs			
ID	Longitude	Latitude	Catchment Area_Ha
1	78.072618	16.764267	235.79
2	78.079822	16.764435	153.55
3	78.024167	16.776741	107.44
4	78.019481	16.791846	169.72
5	78.047973	16.794711	437.43
6	78.016507	16.799434	199.35
7	78.062934	16.786150	252.02
8	78.010182	16.799751	270.61
9	77.991032	16.811389	111.43
10	77.995937	16.809987	203.89
11	77.985999	16.833949	113.45
12	77.992188	16.837429	278.60
13	77.824028	16.701569	162.22
14	77.916144	16.661538	143.40
15	77.934321	16.647684	208.32
16	77.805731	16.724050	125.78
17	77.819233	16.722547	318.81
18	77.895893	16.779110	115.20
19	77.883148	16.800268	292.10
20	77.951753	16.737083	239.08
21	77.927878	16.776825	318.33
22	77.923639	16.732056	115.06
23	77.935371	16.738527	145.66
24	77.890199	16.764032	113.26
25	77.893920	16.752972	123.14
26	77.912153	16.737394	248.28

LEGEND

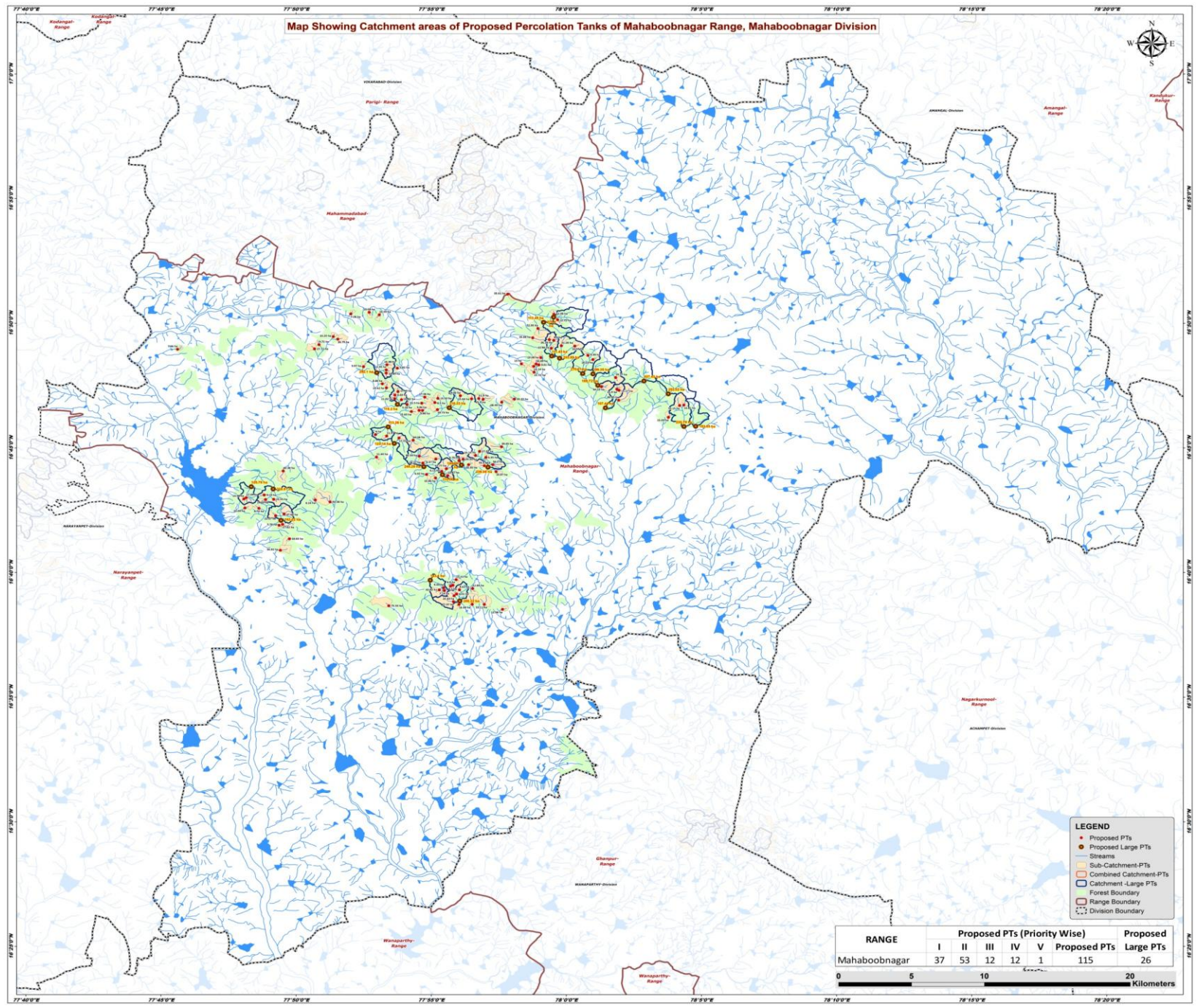
- Proposed PTs
- Existing CD/PTs
- Contours
- Streams
- - - Watershed Boundary
- ▭ Compartment Boundary
- ▭ Beat Boundary
- ▭ Range Boundary
- ▭ Division Boundary

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

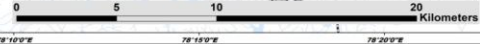


Map Showing Catchment areas of Proposed Percolation Tanks of Mahaboobnagar Range, Mahaboobnagar Division



- 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		
Mahaboobnagar	37	53	12	12	1	115	26



Beat wise Abstract of Proposed PT's – Mahabubnagar Range

S. No.	Beat	Proposed PT's
1	ACHARYAPUR	4
2	ADAVI AJILAPUR	3
3	APPAIPALLY	9
4	APPANAPALLY	2
5	BOYAPALLY	2
6	CHANDRASPALLY	1
7	CHINNA DARPALLI	3
8	CHOWDARPALLY	6
9	DACHAKAPALLI	10
10	DHARMAPUR	6
11	DODDALONIPALLY	4
12	GADDI GUEDEM	1
13	GAJULAPET	6
14	GARLAPAHAD	5
15	GUDI MALKAPUR	5
16	GUNDYAL	4
17	HANWADA	16
18	KOILKONDA	6
19	MAHABOONNAGAR	4
20	MALKAPUR-K	2
21	MANIKONDA	2
22	MANYAMKONDA	1
23	MUNIMOKSHAM	3
24	PEDDA DHARPALLI	7
25	TEEGALAPALLY	3
	Total	115

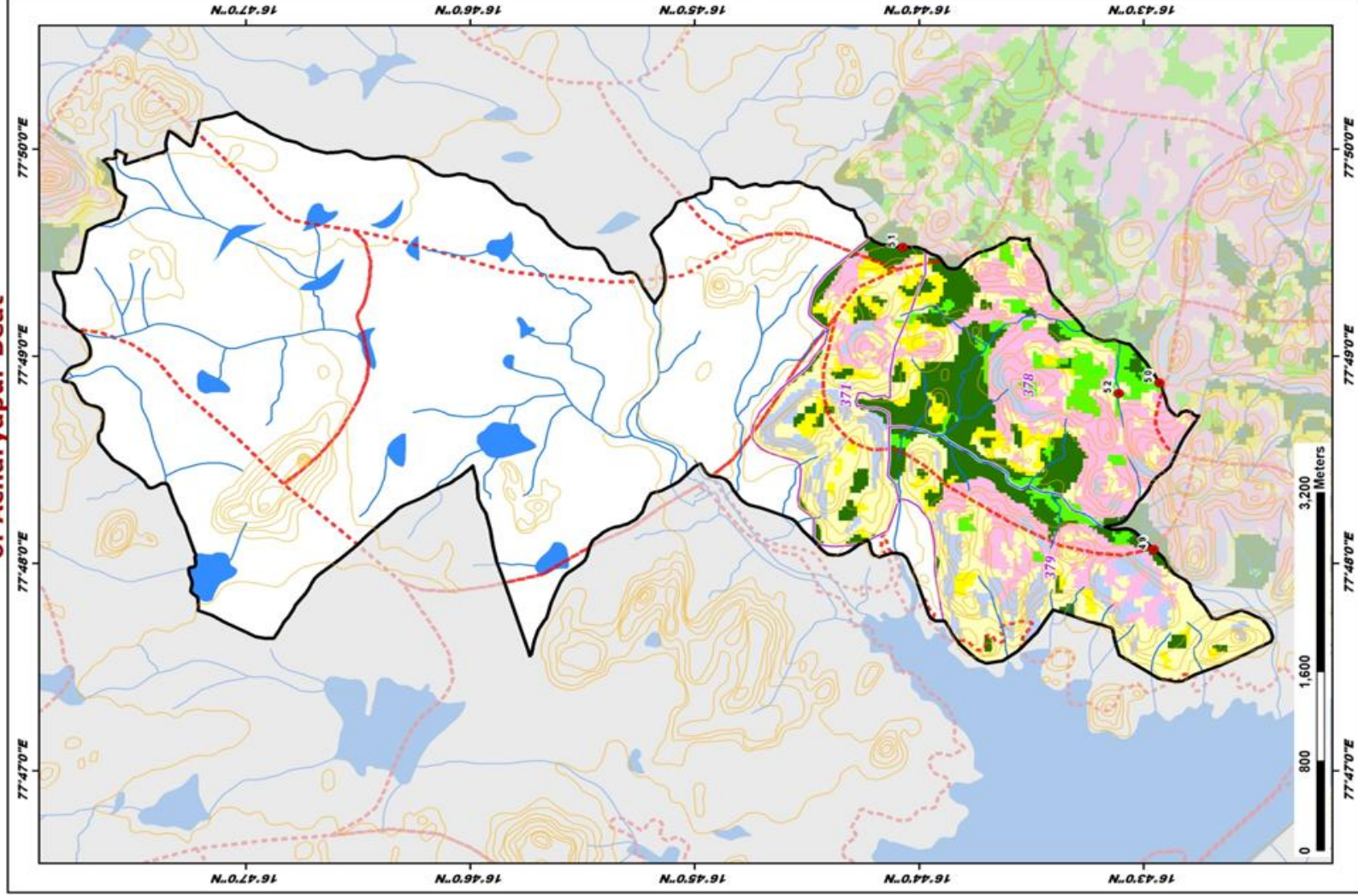
List of Proposed PTs – Mahaboobnagar Range

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	16.770462	78.063033	15.03	II	APPANAPALLY	41	16.647205	77.930492	77.97	IV	APPAIPALLY	81	16.799984	77.888968	14.89	II	HANWADA
2	16.778335	78.069900	53.15	IV	APPANAPALLY	42	16.661876	77.932097	13.21	I	GAJULAPET	82	16.775113	77.909269	5.46	II	HANWADA
3	16.789285	78.031244	15.90	II	DODDALONIPALLY	43	16.642015	77.960675	12.98	I	GAJULAPET	83	16.782185	77.898356	10.82	II	HANWADA
4	16.788463	78.032570	15.17	II	DODDALONIPALLY	44	16.655076	77.934131	8.62	II	GAJULAPET	84	16.779874	77.910880	22.50	II	HANWADA
5	16.790968	78.021759	44.19	III	DODDALONIPALLY	45	16.655993	77.942222	12.84	II	GAJULAPET	85	16.802127	77.888967	12.95	II	HANWADA
6	16.781860	78.032310	82.85	V	DODDALONIPALLY	46	16.645335	77.949454	53.11	III	GAJULAPET	86	16.785361	77.894363	6.69	II	HANWADA
7	16.778605	78.072528	13.81	II	TEEGALAPALLY	47	16.645367	77.942008	53.19	III	GAJULAPET	87	16.787620	77.896189	17.49	II	HANWADA
8	16.809075	78.016458	10.23	II	TEEGALAPALLY	48	16.644411	77.890560	75.55	IV	MANYAMKONDA	88	16.792830	77.886557	8.86	II	HANWADA
9	16.797000	78.030494	29.27	III	TEEGALAPALLY	49	16.715909	77.801149	13.98	I	ACHARYAPUR	89	16.734122	77.956686	10.07	I	MAHABOONAGAR
10	16.818054	78.005311	33.95	III	BOYAPALLY	50	16.715479	77.814534	14.85	II	ACHARYAPUR	90	16.743597	77.950395	6.35	I	MAHABOONAGAR
11	16.811826	78.013408	9.39	IV	BOYAPALLY	51	16.734529	77.825442	40.38	II	ACHARYAPUR	91	16.750729	77.960107	39.05	II	MAHABOONAGAR
12	16.804513	77.979948	10.14	I	DACHAKAPALLI	52	16.718497	77.813698	9.19	II	ACHARYAPUR	92	16.738754	77.954697	34.20	III	MAHABOONAGAR
13	16.806093	77.981441	16.49	I	DACHAKAPALLI	53	16.815937	77.760218	7.66	I	CHANDRASAPALLY	93	16.839003	77.884703	10.59	II	MUNIMOKSHAM
14	16.806222	77.972355	13.00	I	DACHAKAPALLI	54	16.819001	77.847471	9.72	I	GUNDYAL	94	16.840649	77.878479	10.58	II	MUNIMOKSHAM
15	16.805490	77.983102	9.01	II	DACHAKAPALLI	55	16.824405	77.856306	10.25	I	GUNDYAL	95	16.839569	77.867114	7.08	II	MUNIMOKSHAM
16	16.810327	77.984347	19.08	II	DACHAKAPALLI	56	16.822700	77.859082	26.79	II	GUNDYAL	96	16.782785	77.941615	15.64	I	PEDDA DHARPALLI
17	16.800644	77.980155	21.71	II	DACHAKAPALLI	57	16.816173	77.844748	27.72	III	GUNDYAL	97	16.784836	77.934667	19.04	II	PEDDA DHARPALLI
18	16.822368	77.989538	26.24	III	DACHAKAPALLI	58	16.709823	77.801807	22.04	I	KOILKONDA	98	16.775599	77.920576	18.73	II	PEDDA DHARPALLI
19	16.818270	77.997001	31.28	III	DACHAKAPALLI	59	16.709593	77.810430	8.74	I	KOILKONDA	99	16.783964	77.912711	17.36	II	PEDDA DHARPALLI
20	16.821853	77.992331	8.20	IV	DACHAKAPALLI	60	16.715645	77.819569	23.55	I	KOILKONDA	100	16.783092	77.920844	13.32	II	PEDDA DHARPALLI
21	16.816581	77.990737	13.98	IV	DACHAKAPALLI	61	16.716756	77.802624	17.04	I	KOILKONDA	101	16.782995	77.946066	11.40	II	PEDDA DHARPALLI
22	16.823595	77.979320	33.68	II	GUDI MALKAPUR	62	16.704624	77.820804	22.47	I	KOILKONDA	102	16.780322	77.918981	8.50	II	PEDDA DHARPALLI
23	16.839267	77.992347	12.08	II	GUDI MALKAPUR	63	16.705815	77.825981	47.68	II	KOILKONDA	103	16.732252	77.913828	6.42	I	CHOWDARPALLY
24	16.835721	77.994635	12.75	II	GUDI MALKAPUR	64	16.782598	77.968003	20.33	I	CHINNA DARPALLI	104	16.742538	77.919547	6.37	II	CHOWDARPALLY
25	16.852802	77.963860	33.61	III	GUDI MALKAPUR	65	16.780552	77.960240	28.49	II	CHINNA DARPALLI	105	16.729852	77.919394	10.86	II	CHOWDARPALLY
26	16.829829	77.982564	52.95	IV	GUDI MALKAPUR	66	16.782483	77.948764	25.90	III	CHINNA DARPALLI	106	16.731522	77.926932	13.87	II	CHOWDARPALLY
27	16.698236	77.822879	5.76	I	ADAVI AJILAPUR	67	16.742414	77.936409	24.43	II	DHARMAPUR	107	16.736026	77.926077	62.77	IV	CHOWDARPALLY
28	16.689201	77.829260	18.65	I	ADAVI AJILAPUR	68	16.744914	77.944085	16.14	II	DHARMAPUR	108	16.734351	77.923224	6.13	IV	CHOWDARPALLY
29	16.698873	77.825051	27.82	II	ADAVI AJILAPUR	69	16.738056	77.949507	33.67	II	DHARMAPUR	109	16.757957	77.889210	11.97	I	GARLAPAHAD
30	16.681552	77.823665	34.92	II	GADDI GUEDEM	70	16.738775	77.939750	20.95	II	DHARMAPUR	110	16.756613	77.896832	17.57	I	GARLAPAHAD
31	16.715155	77.845196	6.16	II	MALKAPUR-K	71	16.741497	77.933814	6.76	II	DHARMAPUR	111	16.743842	77.882954	11.44	I	GARLAPAHAD
32	16.713872	77.854314	92.38	IV	MALKAPUR-K	72	16.747674	77.946518	27.92	II	DHARMAPUR	112	16.758898	77.882384	6.00	I	GARLAPAHAD
33	16.652281	77.932401	6.01	I	APPAIPALLY	73	16.805568	77.889380	16.48	I	HANWADA	113	16.755145	77.905581	64.66	IV	GARLAPAHAD
34	16.658205	77.930126	6.80	I	APPAIPALLY	74	16.782902	77.894218	11.02	I	HANWADA	114	16.739832	77.911514	24.37	II	MANIKONDA
35	16.657594	77.928662	6.50	I	APPAIPALLY	75	16.803292	77.895820	5.82	I	HANWADA	115	16.744469	77.909340	80.59	IV	MANIKONDA
36	16.645261	77.933834	16.68	I	APPAIPALLY	76	16.790114	77.889049	14.62	I	HANWADA						
37	16.651147	77.930842	22.64	I	APPAIPALLY	77	16.774281	77.904486	15.63	I	HANWADA						
38	16.654586	77.924803	7.14	II	APPAIPALLY	78	16.778944	77.901787	5.26	I	HANWADA						
39	16.656532	77.924370	9.49	II	APPAIPALLY	79	16.804303	77.874916	9.97	I	HANWADA						
40	16.655022	77.921671	42.82	III	APPAIPALLY	80	16.775010	77.911354	5.96	II	HANWADA						

Map Showing Suitability Index for Construction of SMC Works of Acharyapur Beat



Division : Mahaboobnagar
Range : Mahaboobnagar



ID	Latitude	Longitude	Catchment	
			Area_Ha	Priority
49	16.715909	77.801149	13.98	I
50	16.715479	77.814534	14.85	II
51	16.734529	77.825442	40.38	II
52	16.718497	77.813698	9.19	II

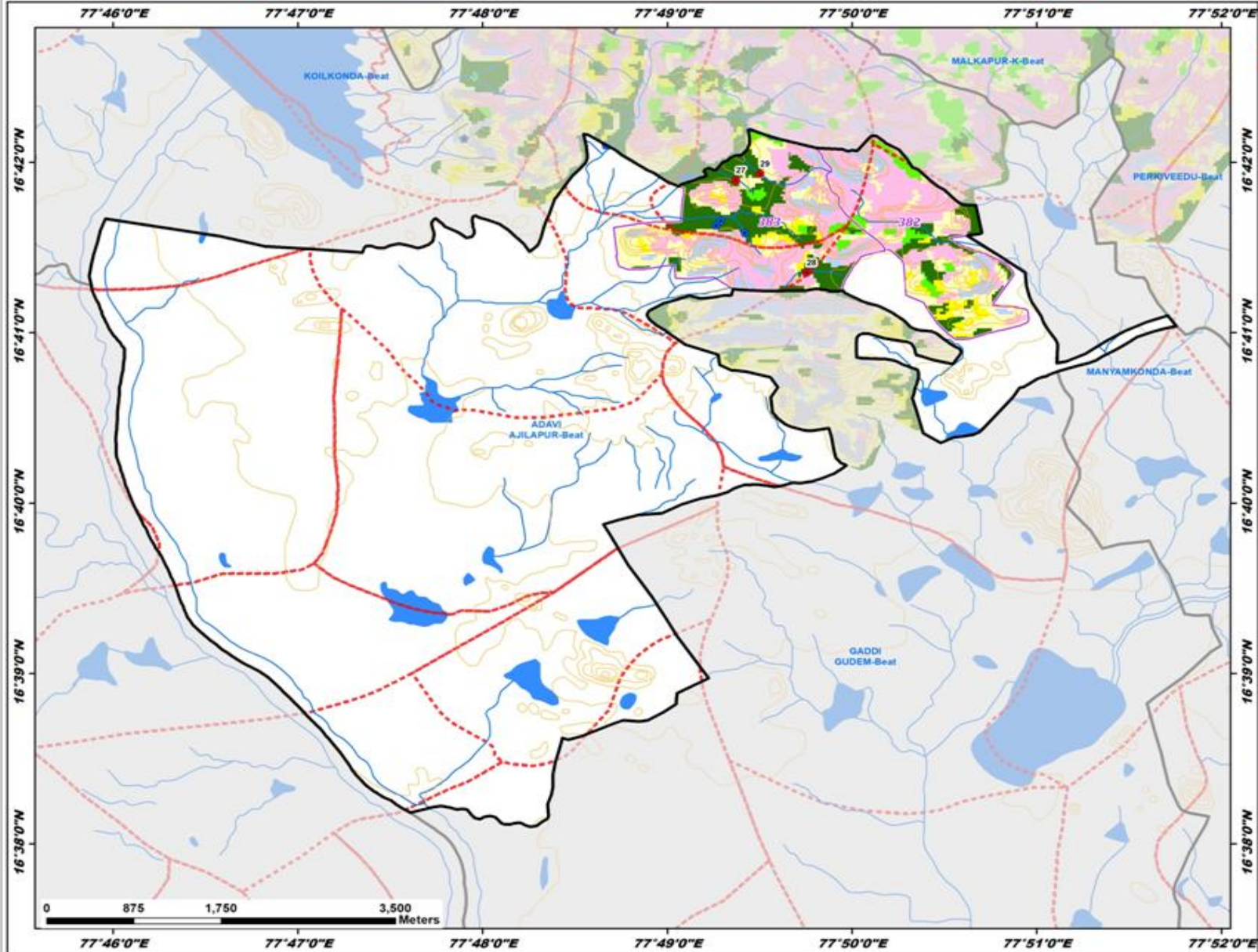
LEGEND

- 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 SGP's - Suitable
 - Not Suitable
 - Water Body

Map Showing Suitability index for Construction of SMC Works of Adavi Ajilapur Beat



Division : Mahaboobnagar
Range : Mahaboobnagar



ID	Latitude	Longitude	Catchment Area_Ha	Priority
27	16.698236	77.822879	5.76	I
28	16.689201	77.829260	18.65	I
29	16.698873	77.825051	27.82	II

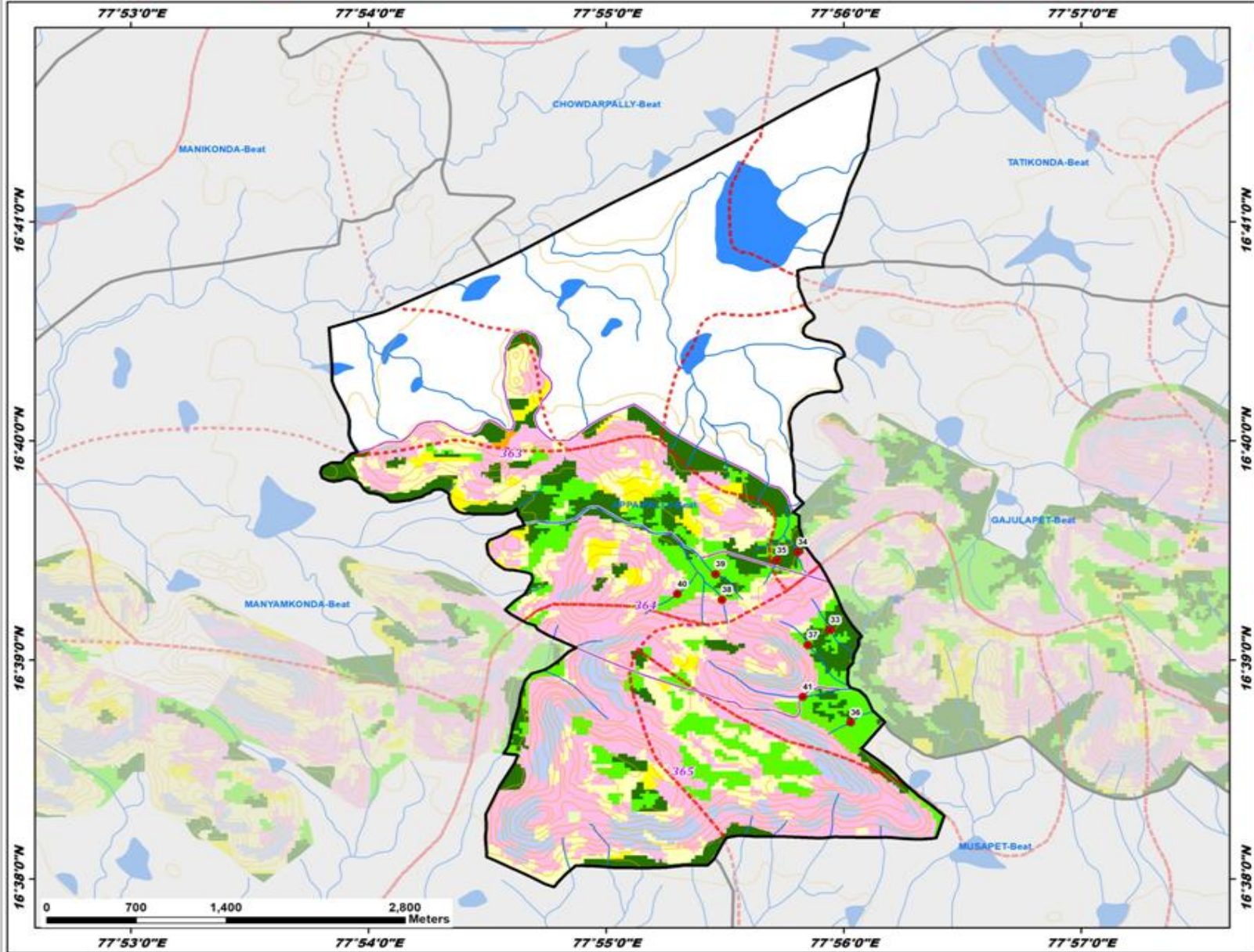
Legend

- 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 Appaipally Beat



Division : Mahaboobnagar
Range : Mahaboobnagar



ID	Latitude	Longitude	Catchment Area_Ha	Priority
33	16.652281	77.932401	6.01	I
34	16.658205	77.930126	6.80	I
35	16.657594	77.928662	6.50	I
36	16.645261	77.933834	16.68	I
37	16.651147	77.930842	22.64	I
38	16.654586	77.924803	7.14	II
39	16.656532	77.924370	9.49	II
40	16.655022	77.921671	42.82	III
41	16.647205	77.930492	77.97	IV

Legend

- Proposed_PTs
- Existing CD/PTs
- Contours
- Streams
- Watershed Boundary
- Compartment Boundary
- Beat_Boundary
- Division Boundary

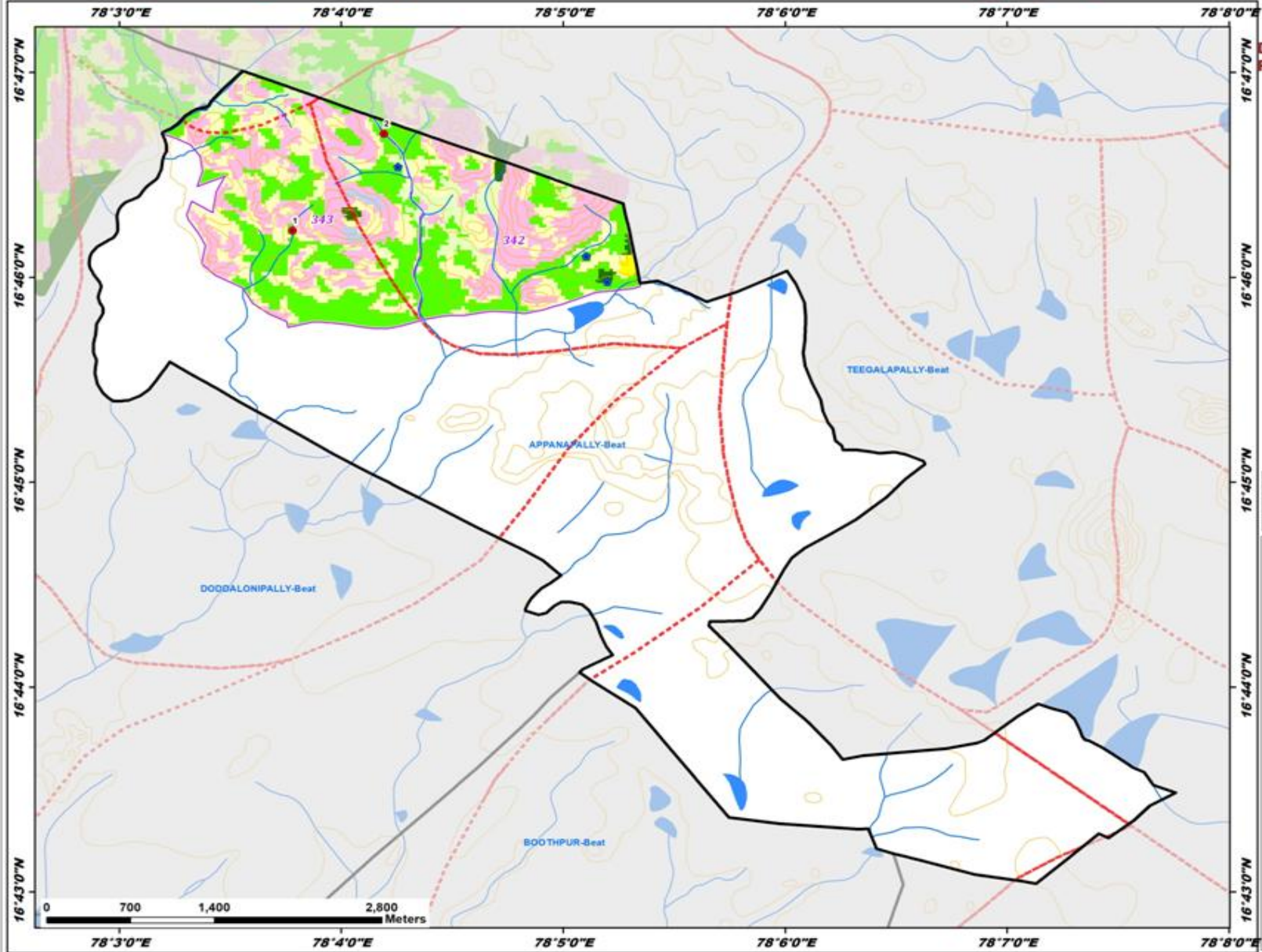
Suitability Index

- 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 Appanapally Beat



Division : Mahaboobnagar
Range : Mahaboobnagar



ID	Latitude	Longitude	Catchment Area_Ha	Priority
1	16.770462	78.063033	15.03	II
2	16.778335	78.069900	53.15	IV

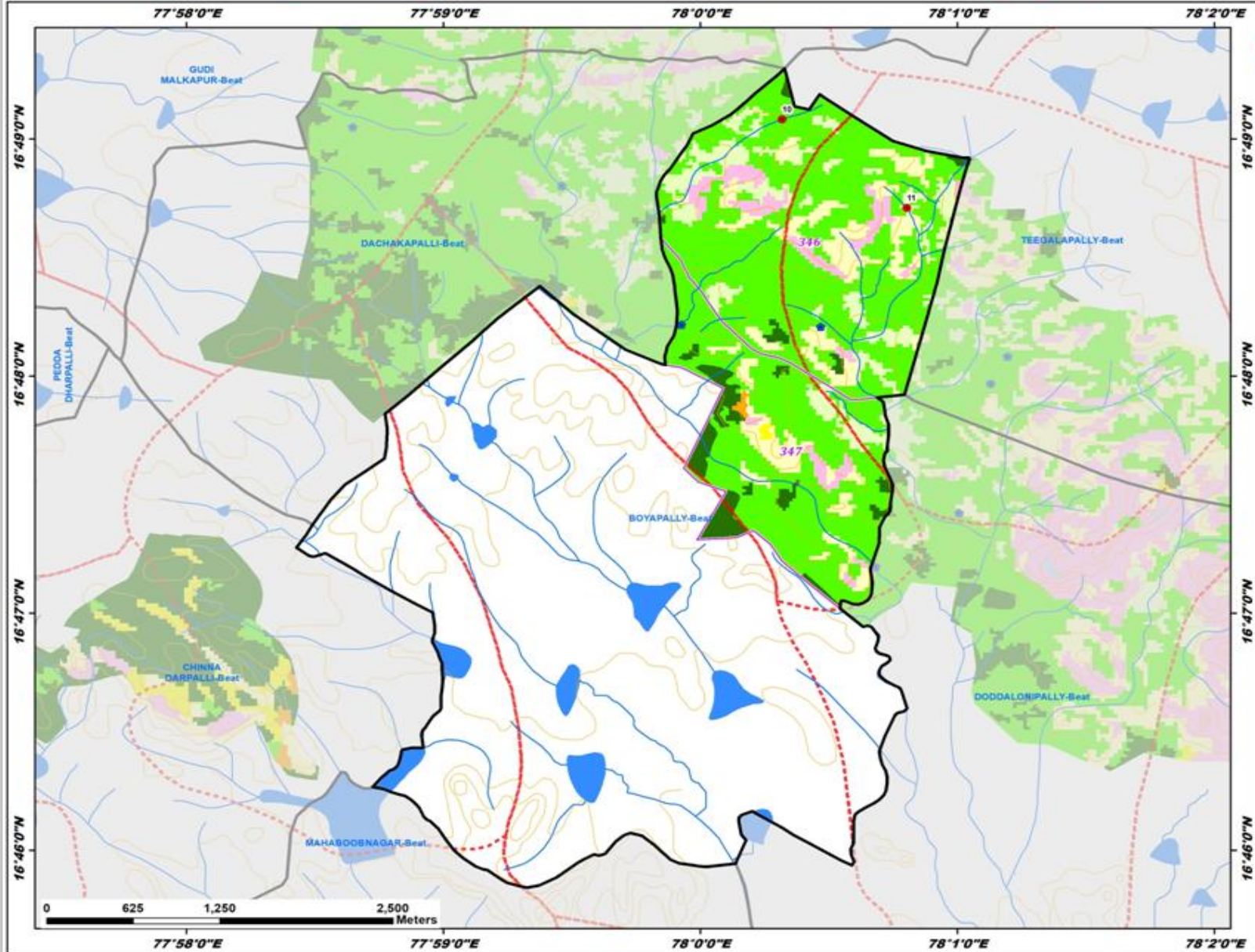
Legend

- 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 SGPts - Suitable
 - Not Suitable
 - Water Body

Map Showing Suitability index for Construction of SMC Works of Boyapally Beat



Division : Mahaboobnagar
Range : Mahaboobnagar



ID	Latitude	Longitude	Catchment Area_Ha	Priority
10	16.818054	78.005311	33.95	III
11	16.811826	78.013408	9.39	IV

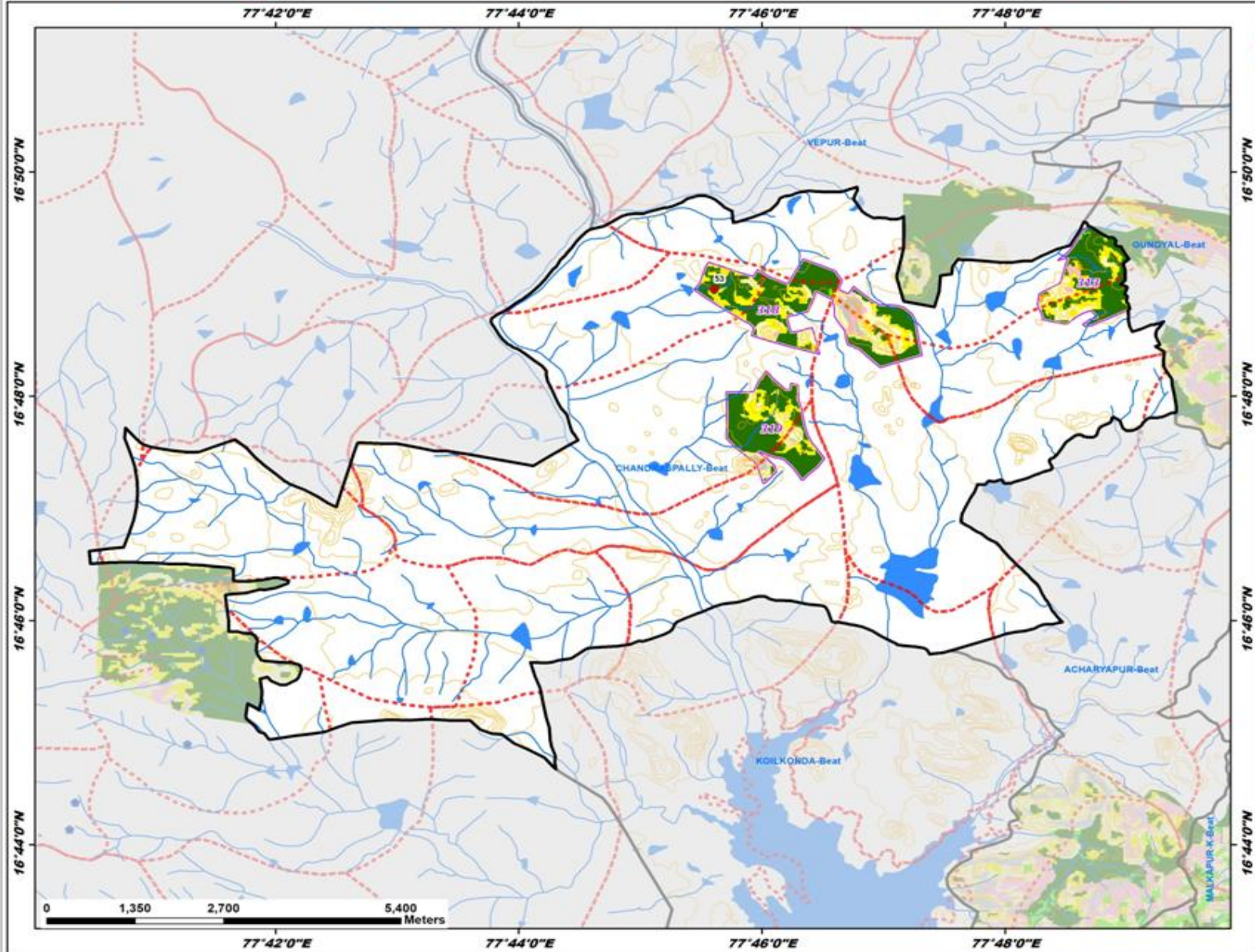
Legend

- 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 Chandraspally Beat



Division : Mahaboobnagar
Range : Mahaboobnagar



ID	Latitude	Longitude	Catchment Area Ha	Priority
53	16.815937	77.760218	7.66	I

Legend

- Proposed_PTs
- Existing CD/PTs
- Contours
- Streams
- - - Watershed Boundary
- Compartment Boundary
- Beat_Boundary
- - - Division Boundary

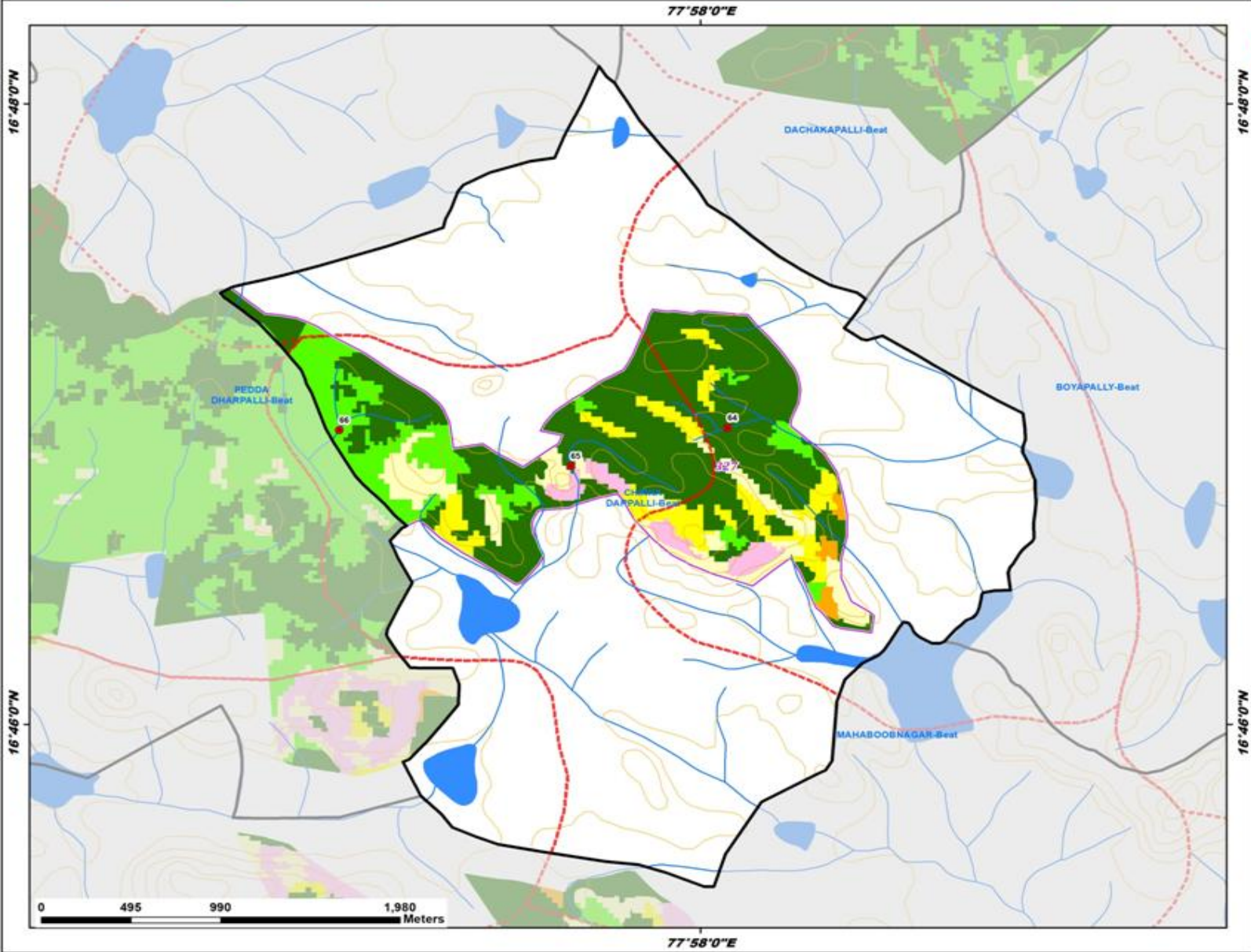
Suitability Index

- 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 Chinna Darpalli Beat



Division : Mahaboobnagar
Range : Mahaboobnagar



ID	Latitude	Longitude	Catchment Area_Ha	Priority
64	16.782598	77.968003	20.33	I
65	16.780552	77.960240	28.49	II
66	16.782483	77.948764	25.90	III

Legend

- Proposed_PTs
- Existing CD/PTs
- Contours
- Streams
- Watershed Boundary
- Compartment Boundary
- Beat_Boundary
- Division Boundary

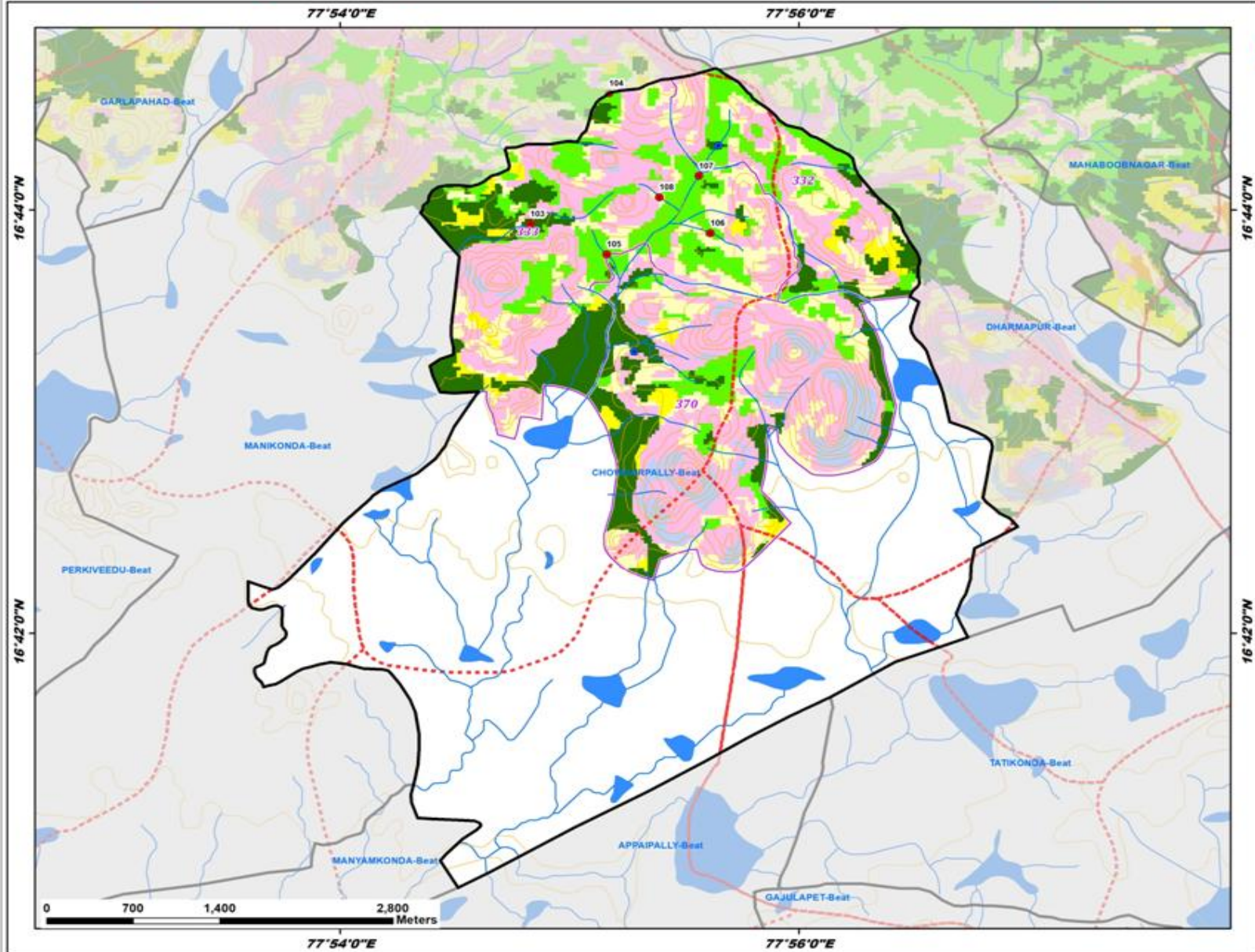
Suitability Index

- 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 Chowdapally Beat



Division : Mahaboobnagar
Range : Mahaboobnagar



ID	Latitude	Longitude	Catchment Area_Ha	Priority
103	16.732252	77.913828	6.42	I
104	16.742538	77.919547	6.37	II
105	16.729852	77.919394	30.86	II
106	16.731522	77.926932	13.87	II
107	16.736026	77.926077	62.77	IV
108	16.734351	77.923224	6.13	IV

Legend

- Proposed_PTs
- Existing CD/PTs
- Contours
- Streams
- Watershed Boundary
- Compartment Boundary
- Beat_Boundary
- Division Boundary

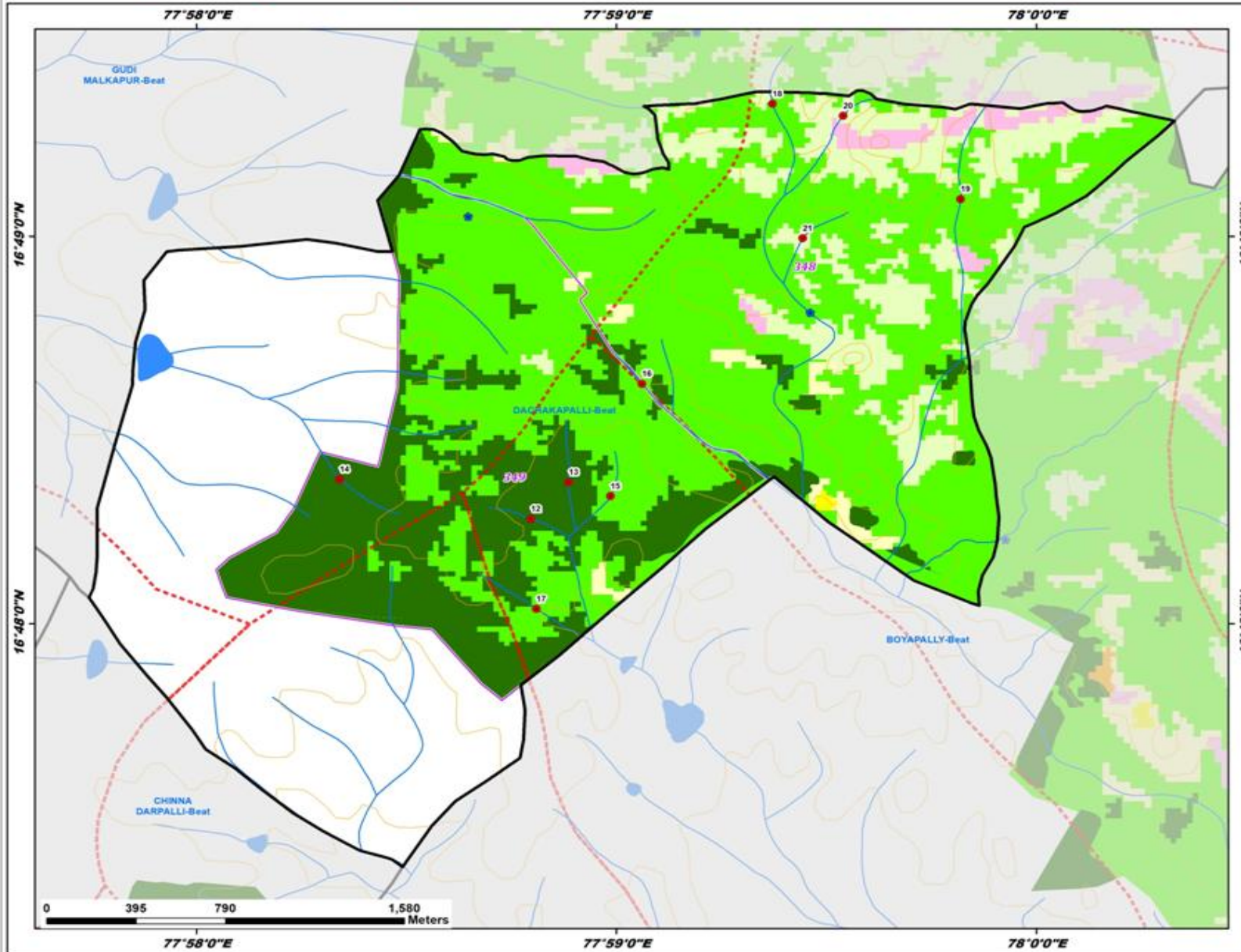
Suitability Index

- 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 Dachakapalli Beat



Division : Mahaboobnagar
Range : Mahaboobnagar



ID	Latitude	Longitude	Catchment Area_Ha	Priority
12	16.804513	77.979948	10.14	I
13	16.806093	77.981441	16.49	I
14	16.806222	77.972355	13.00	I
15	16.805490	77.983102	9.01	II
16	16.810327	77.984347	19.08	II
17	16.800644	77.980155	21.71	II
18	16.822368	77.989538	26.24	III
19	16.818270	77.997001	31.28	III
20	16.821853	77.992331	8.20	IV
21	16.816581	77.990737	13.98	IV

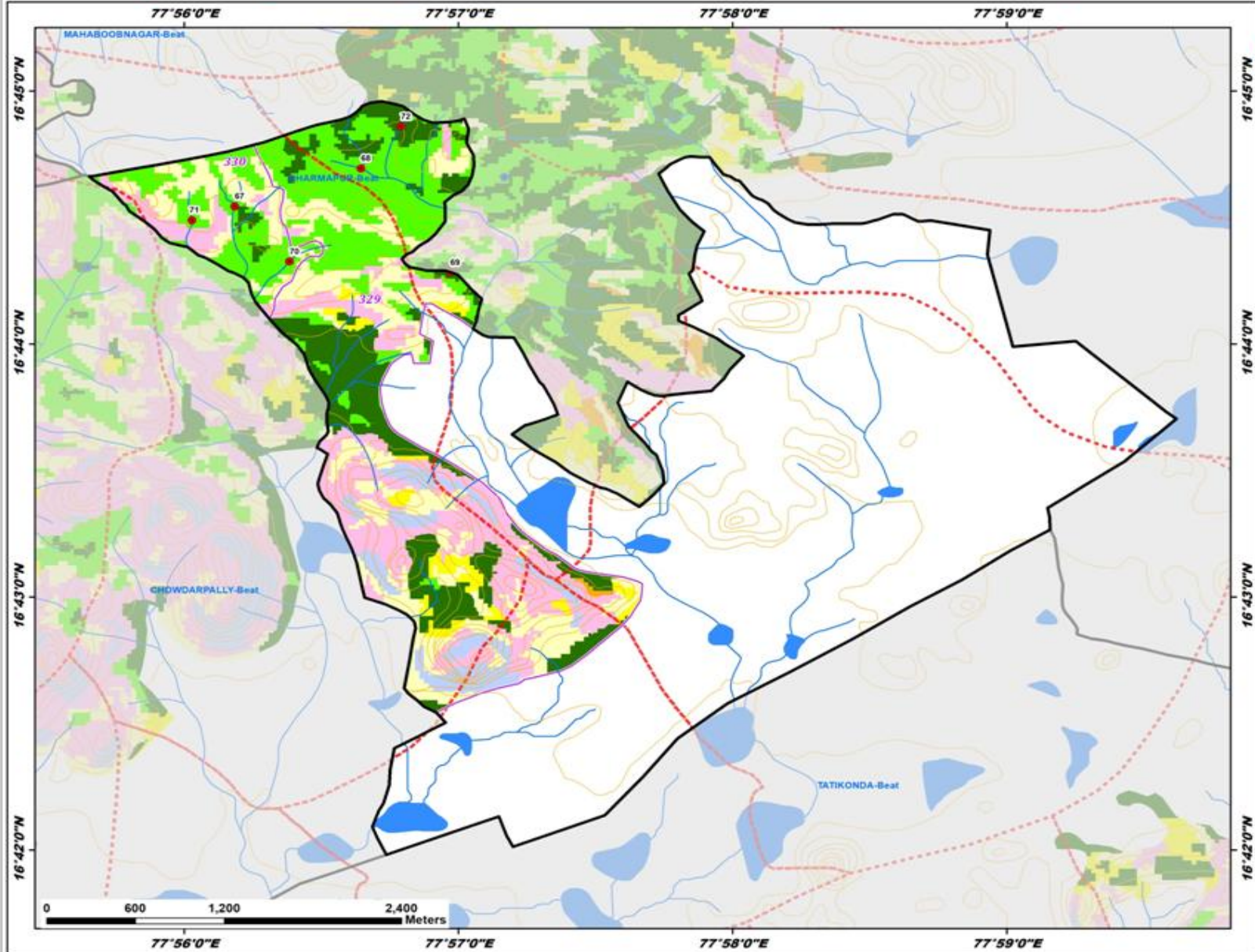
Legend

- 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 Dharmapur Beat



Division : Mahaboobnagar
Range : Mahaboobnagar



ID	Latitude	Longitude	Catchment Area_Ha	Priority
67	16.742414	77.936409	24.43	II
68	16.744914	77.944085	16.14	II
69	16.738056	77.949507	33.67	II
70	16.738775	77.939750	20.95	II
71	16.741497	77.933814	6.76	II
72	16.747674	77.946518	27.92	II

Legend

- Proposed_PTs
- Existing CD/PTs
- Contours
- Streams
- Watershed Boundary
- Compartment Boundary
- Beat_Boundary
- Division Boundary

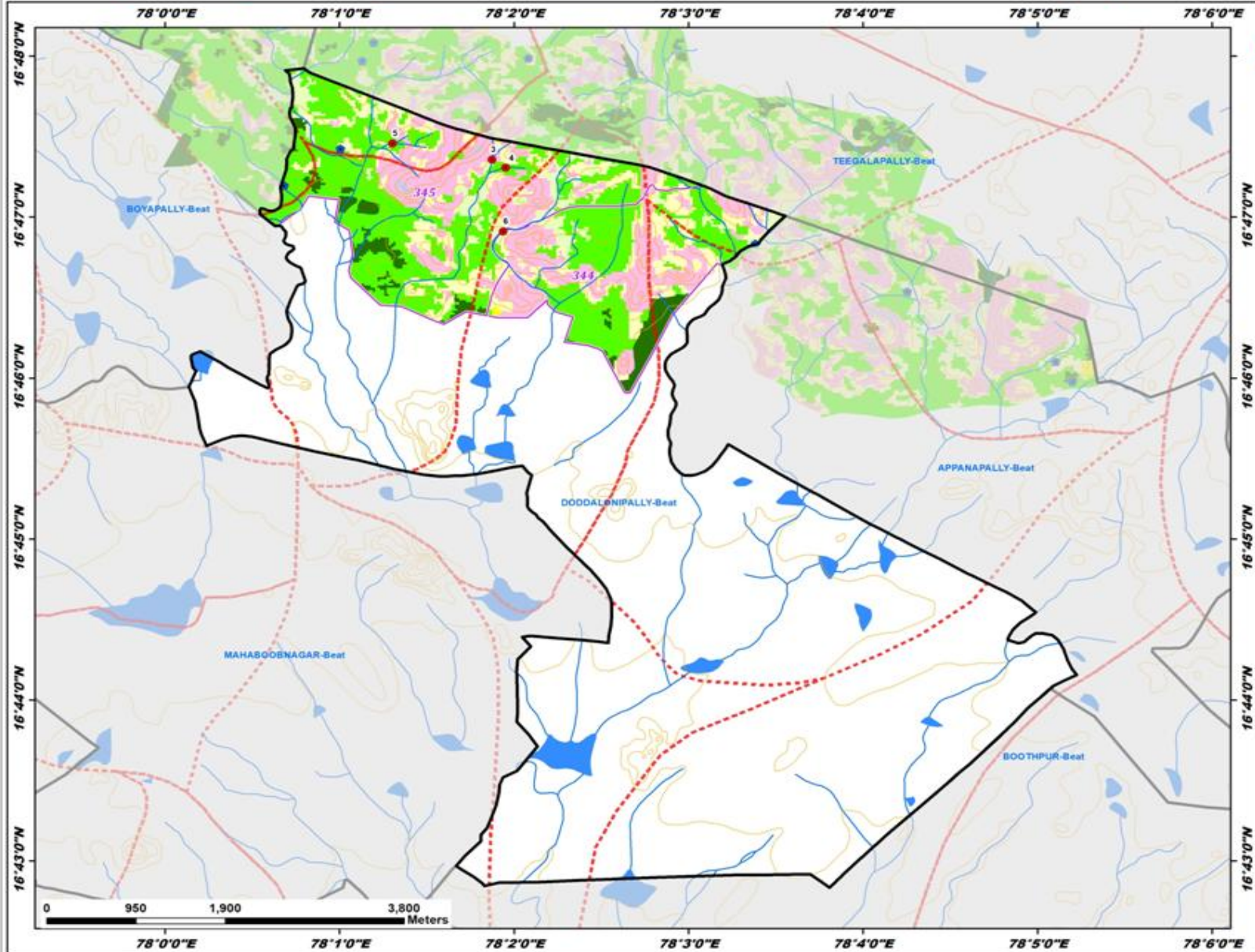
Suitability Index

- 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 Doddalonipally Beat



Division : Mahaboobnagar
Range : Mahaboobnagar



ID	Latitude	Longitude	Catchment Area_Ha	Priority
3	16.789285	78.031244	15.90	II
4	16.788463	78.032570	15.17	II
5	16.790968	78.021759	44.19	III
6	16.781860	78.032310	82.85	V

Legend

- Proposed_PTs
- Existing CD/PTs
- Contours
- Streams
- - - Watershed Boundary
- Compartment Boundary
- Beat_Boundary
- - - Division Boundary

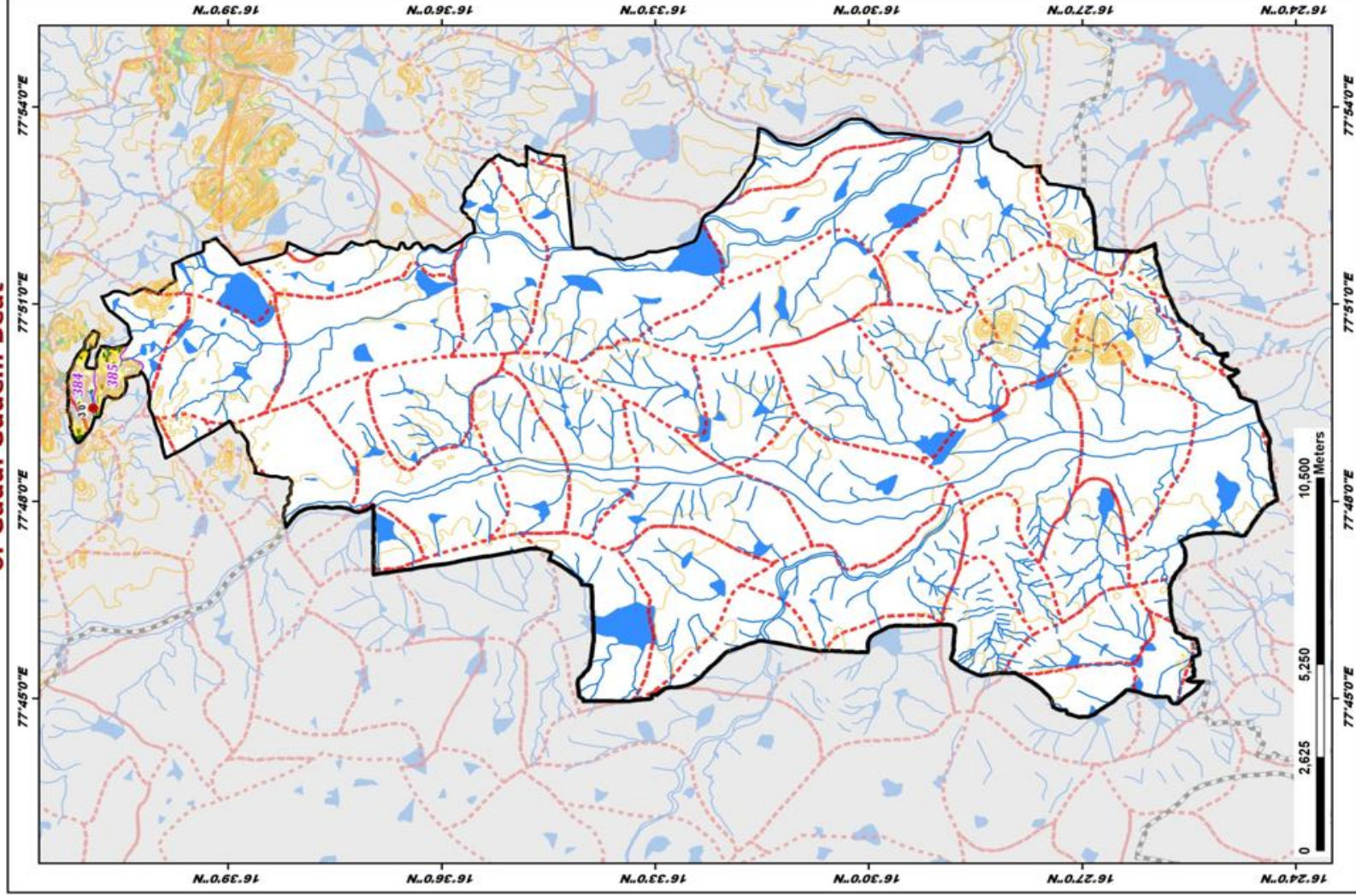
Suitability Index

- 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 Gaddi Gudem Beat



Division : Mahaboobnagar
Range : Mahaboobnagar



ID	Latitude	Longitude	Catchment Area, Ha	Priority
30	16.681552	77.823665	34.92	II

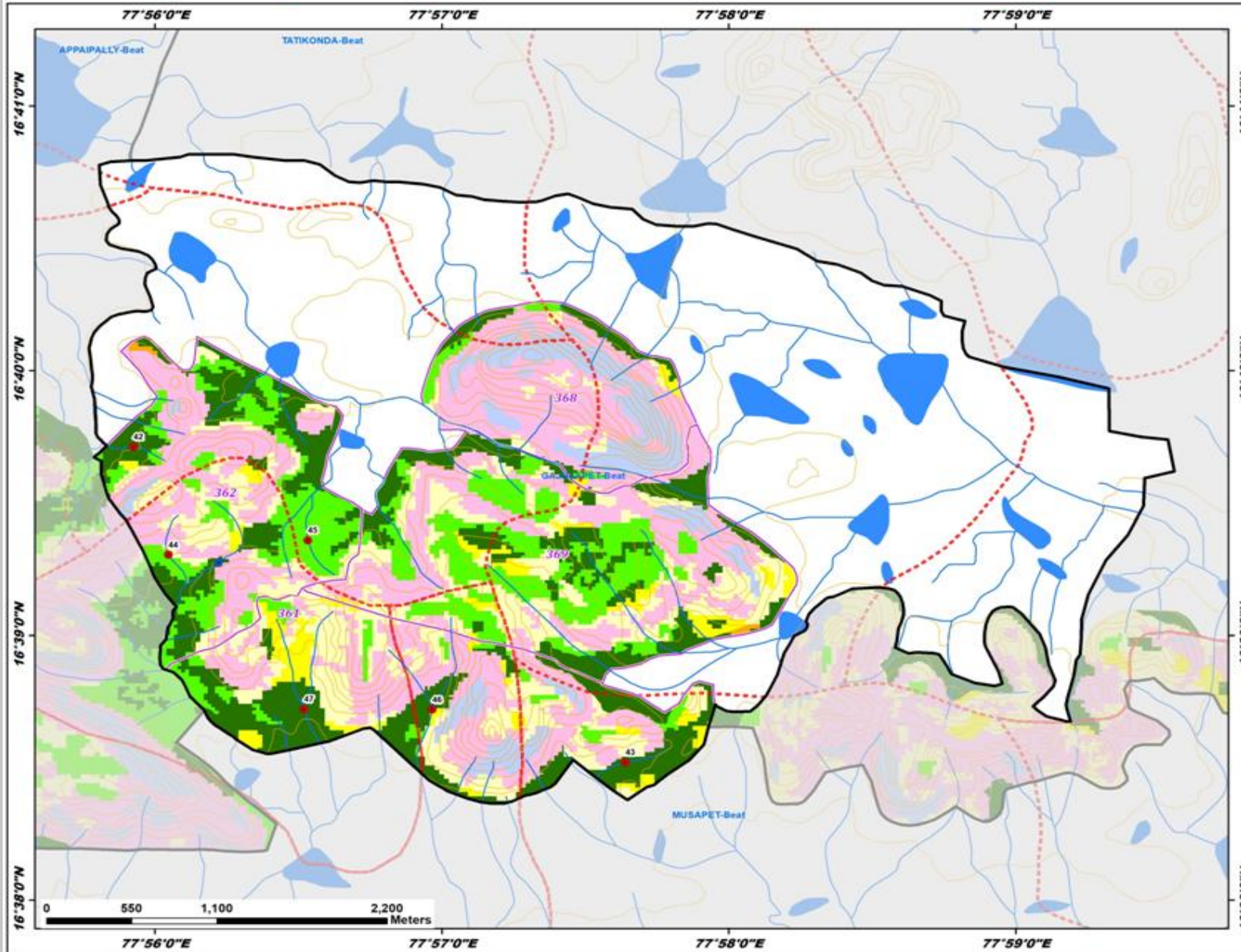
LEGEND

- 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 Gajulapet Beat



Division : Mahaboobnagar
Range : Mahaboobnagar



ID	Latitude	Longitude	Catchment Area Ha	Priority
42	16.661876	77.932097	13.21	I
43	16.642015	77.960675	12.98	I
44	16.655076	77.934133	8.62	II
45	16.655993	77.942222	12.84	II
46	16.645335	77.949454	53.11	III
47	16.645367	77.942008	53.19	III

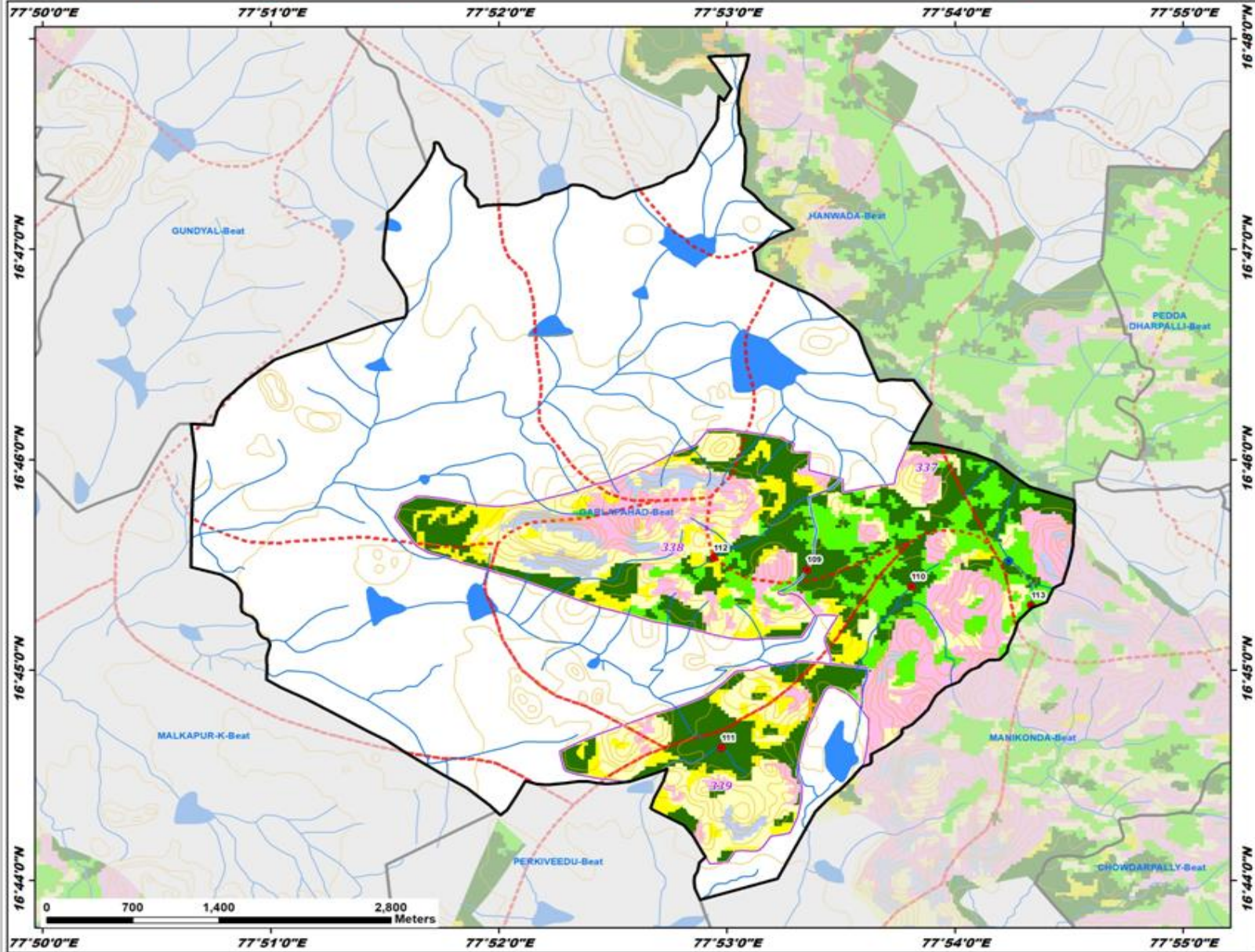
Legend

- 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 SGP - Suitable
 - Not Suitable
 - Water Body

Map Showing Suitability index for Construction of SMC Works of Garlapahad Beat



Division : Mahaboobnagar
Range : Mahaboobnagar

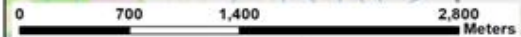


ID	Latitude	Longitude	Catchment Area_Ha	Priority
109	16.757957	77.889210	11.97	I
110	16.756613	77.896832	17.57	I
111	16.743842	77.882954	11.44	I
112	16.758896	77.882384	6.00	I
113	16.755145	77.905581	64.66	IV

Legend

- Proposed_PTs
- Existing CD/PTs
- Contours
- Streams
- - - Watershed Boundary
- Compartment Boundary
- Beat_Boundary
- - - Division Boundary

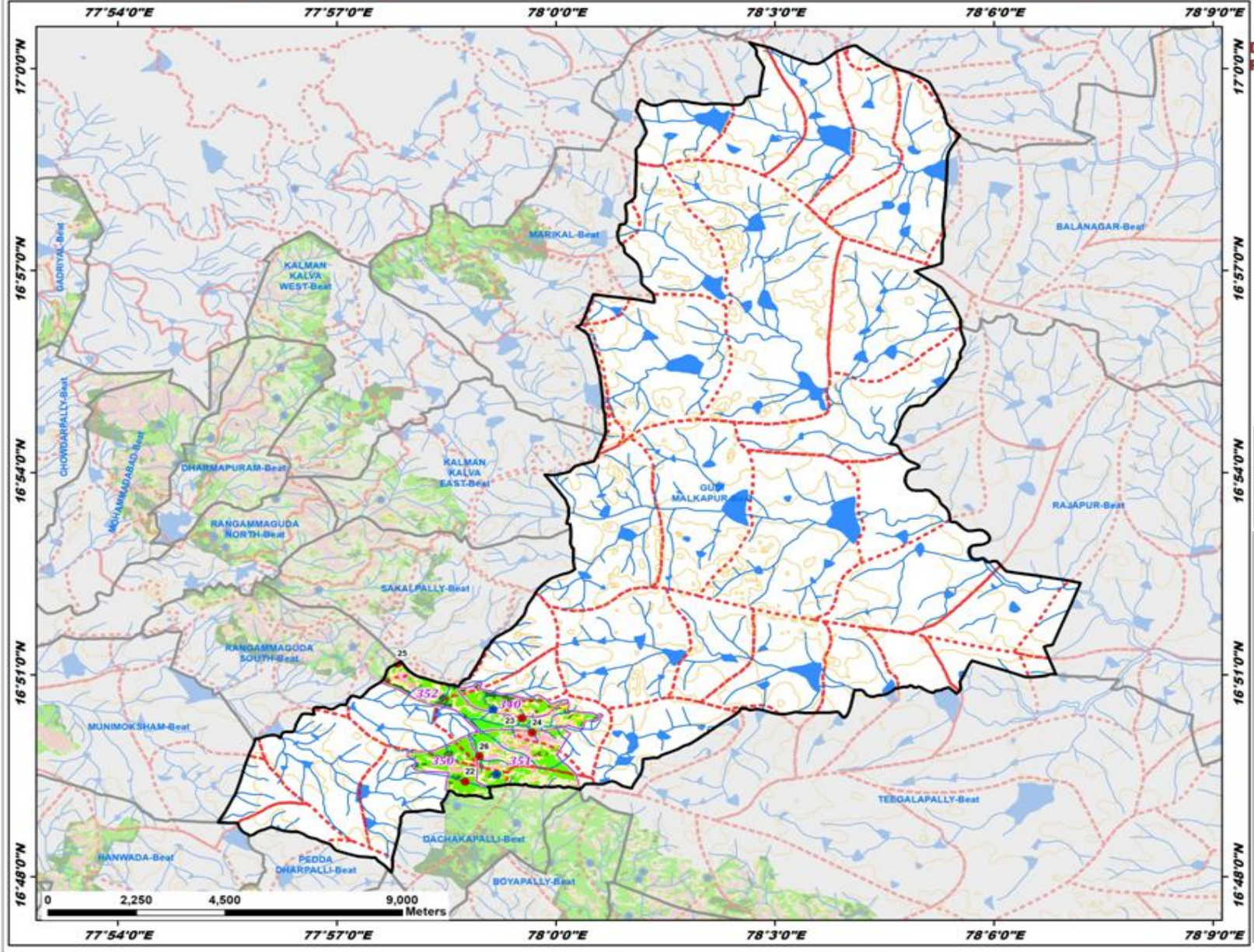
- ### Suitability Index
- CCTs/SCTs - Highly Suitable
 - CCTs/SCTs - Moderately Suitable
 - CCTs/SCTs - Least Suitable
 - PTs - Highly Suitable
 - PTs - Moderately Suitable
 - PTs - Least Suitable
 - MPTs and SGPs - Suitable
 - Not Suitable
 - Water Body



Map Showing Suitability index for Construction of SMC Works of Gudi Malkapur Beat



Division : Mahaboobnagar
Range : Mahaboobnagar



ID	Latitude	Longitude	Catchment Area_Ha	Priority
22	16.823595	77.979320	33.68	II
23	16.839267	77.992347	12.08	II
24	16.835721	77.994635	12.75	II
25	16.852802	77.963860	33.61	III
26	16.829829	77.982564	52.95	IV

Legend

- Proposed_PTs
- Existing CD/PTs
- Contours
- Streams
- Watershed Boundary
- Compartment Boundary
- Beat_Boundary
- Division Boundary

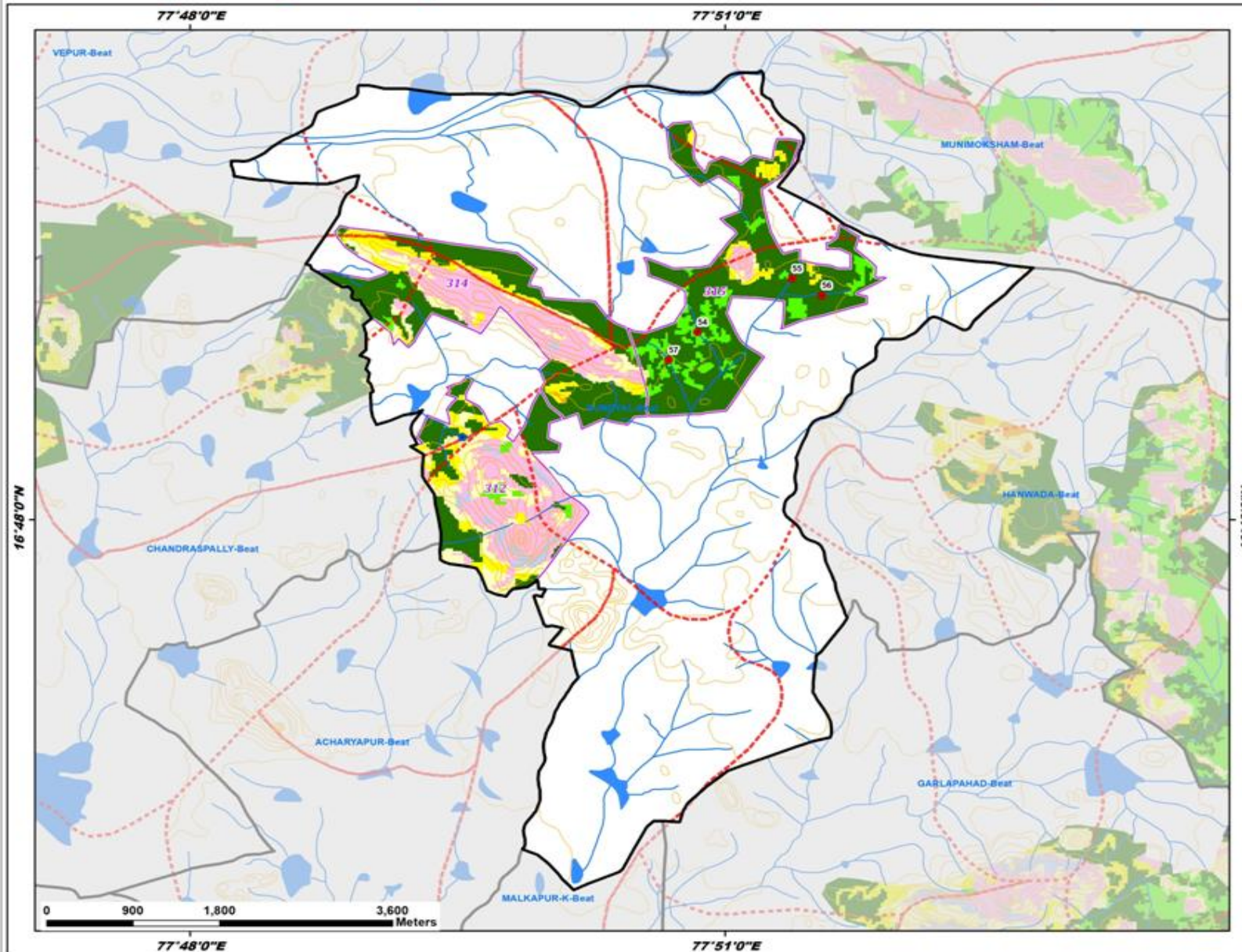
Suitability Index

- 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 Gundyal Beat



Division : Mahaboobnagar
Range : Mahaboobnagar



ID	Latitude	Longitude	Catchment Area_Ha	Priority
54	16.819001	77.847471	9.72	I
55	16.824405	77.856306	10.25	I
56	16.822700	77.859082	26.79	II
57	16.816173	77.844748	27.72	III

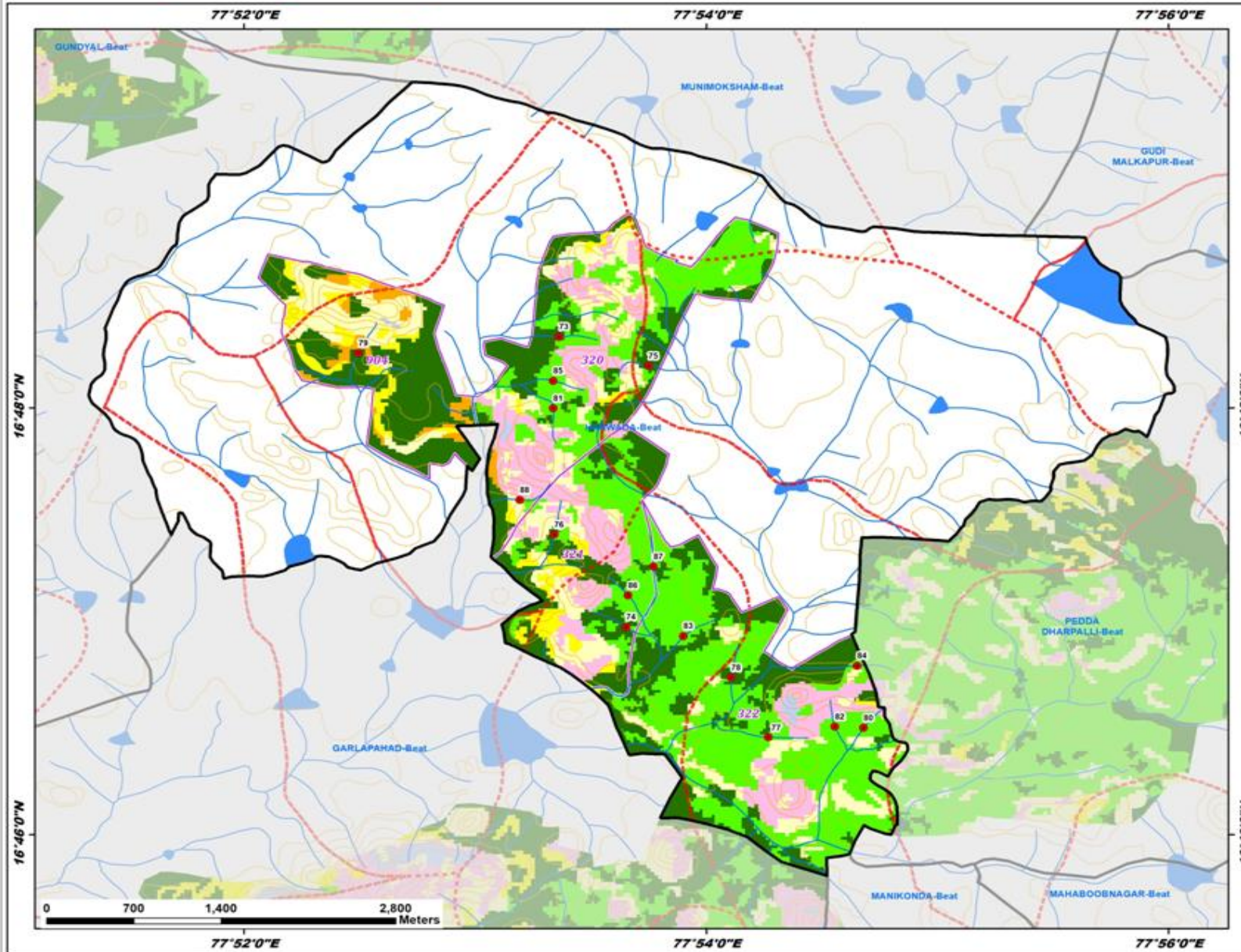
Legend

- 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 Hanwada Beat



Division : Mahaboobnagar
Range : Mahaboobnagar



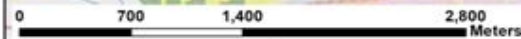
ID	Latitude	Longitude	Catchment Area_Ha	Priority
73	16.805568	77.889380	16.48	I
74	16.782902	77.894218	11.02	I
75	16.803292	77.895820	5.82	I
76	16.790114	77.889049	14.62	I
77	16.774281	77.904486	15.63	I
78	16.778944	77.901787	5.26	I
79	16.804303	77.874916	9.97	I
80	16.775010	77.911354	5.96	II
81	16.799984	77.888968	14.89	II
82	16.775113	77.909269	5.46	II
83	16.782185	77.898356	10.82	II
84	16.779874	77.910880	22.50	II
85	16.802127	77.888967	12.95	II
86	16.785361	77.894363	6.69	II
87	16.787620	77.896189	17.49	II
88	16.792830	77.886557	8.86	II

Legend

- Proposed_PTs
- Existing CD/PTs
- Contours
- Streams
- Watershed Boundary
- Compartment Boundary
- Beat_Boundary
- Division Boundary

Suitability Index

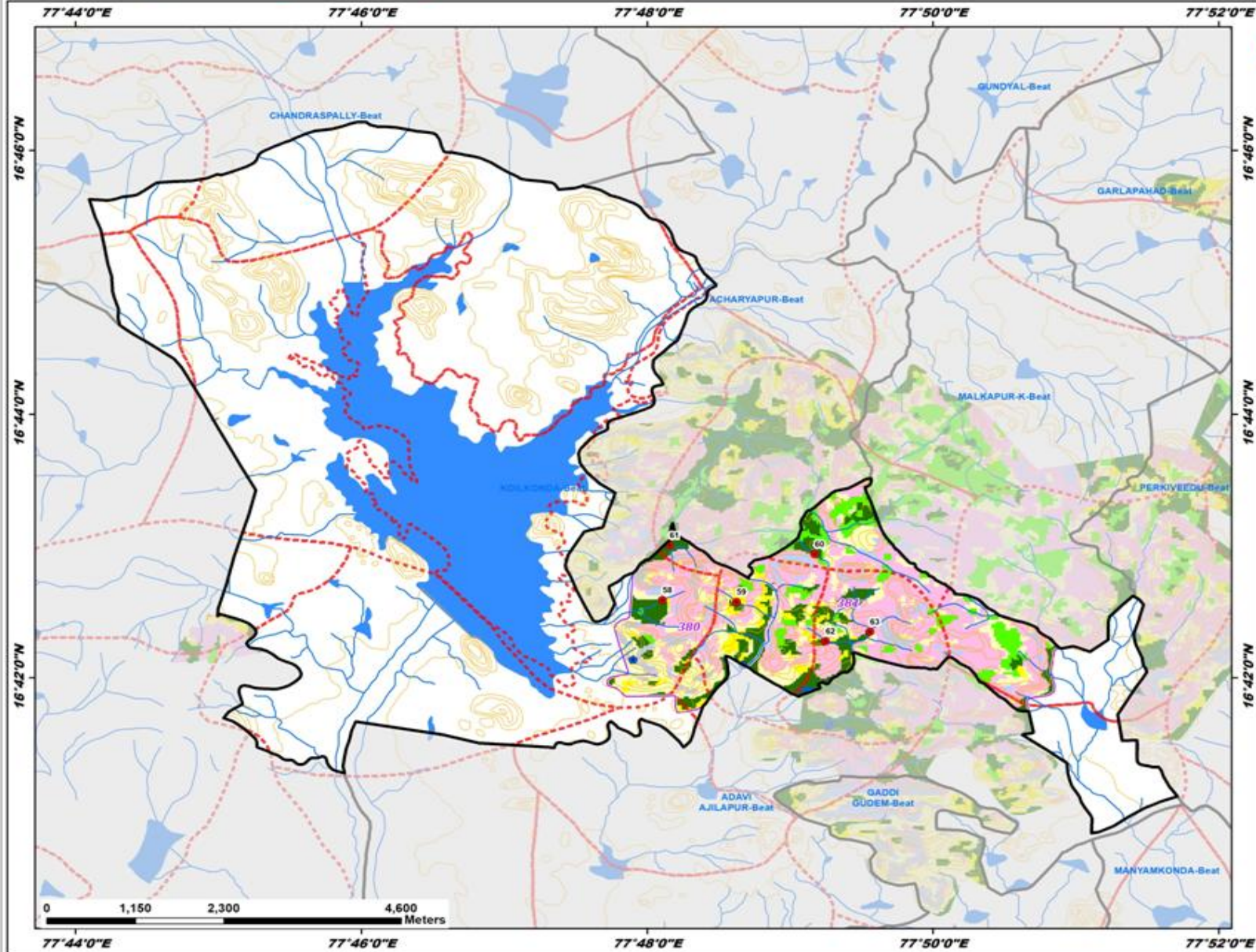
- CCTs/SCTs - Highly Suitable
- CCTs/SCTs - Moderately Suitable
- CCTs/SCTs - Least Suitable
- PTs - Highly Suitable
- PTs - Moderately Suitable
- PTs - Least Suitable
- MPTs and SGPs - Suitable
- Not Suitable
- Water Body



Map Showing Suitability index for Construction of SMC Works of Koilkonda Beat



Division : Mahaboobnagar
Range : Mahaboobnagar



ID	Latitude	Longitude	Catchment Area_Ha	Priority
58	16.709823	77.801807	22.04	I
59	16.709593	77.810430	8.74	I
60	16.715645	77.819569	23.55	I
61	16.716756	77.802624	17.04	I
62	16.704624	77.820804	22.47	I
63	16.705815	77.825981	47.68	II

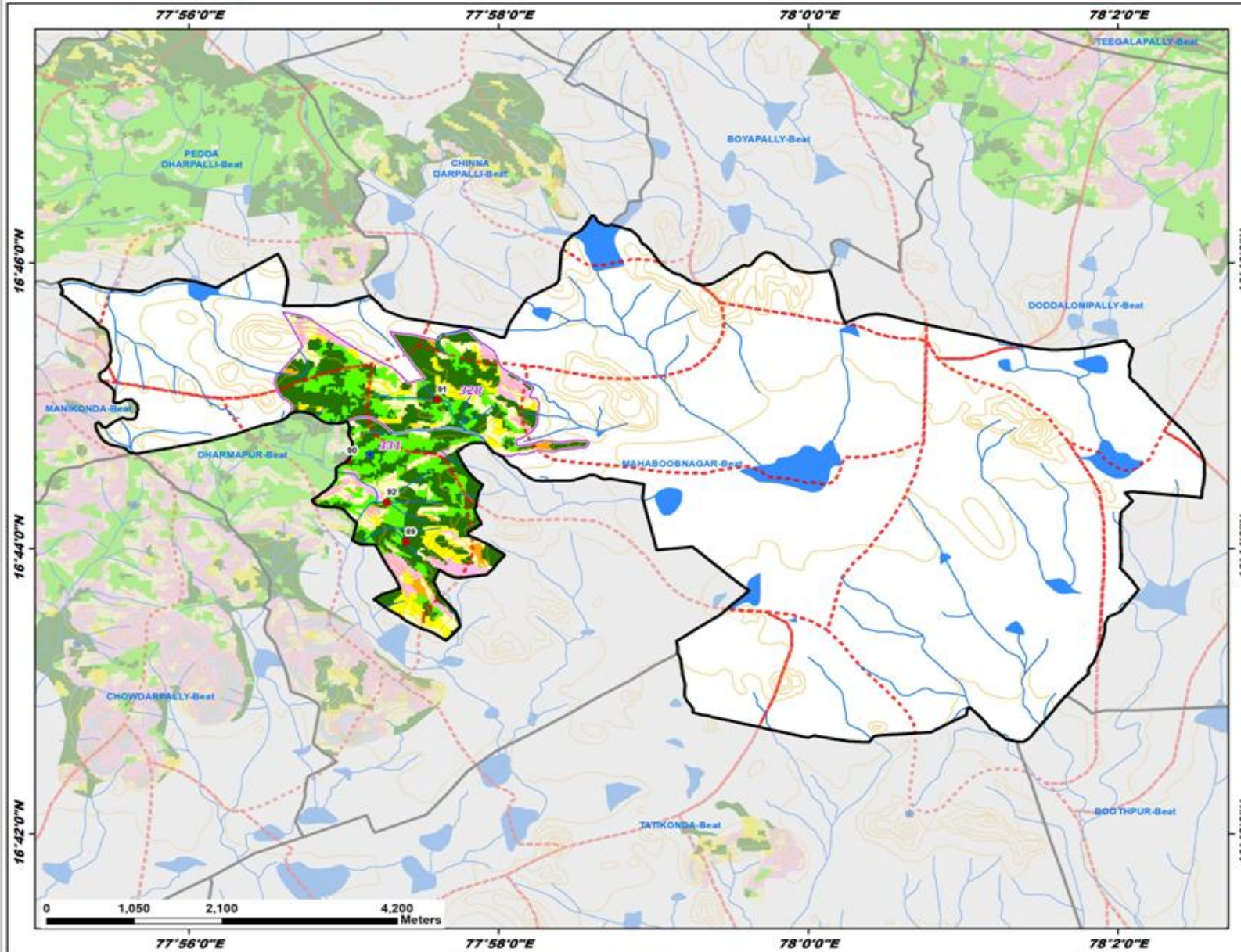
Legend

- 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 Mahaboobnagar Beat



Division : Mahaboobnagar
Range : Mahaboobnagar



ID	Latitude	Longitude	Catchment Area_Ha	Priority
89	16.734122	77.956686	10.07	I
90	16.743597	77.950395	6.35	I
91	16.750729	77.960107	39.05	II
92	16.738754	77.954697	34.20	III

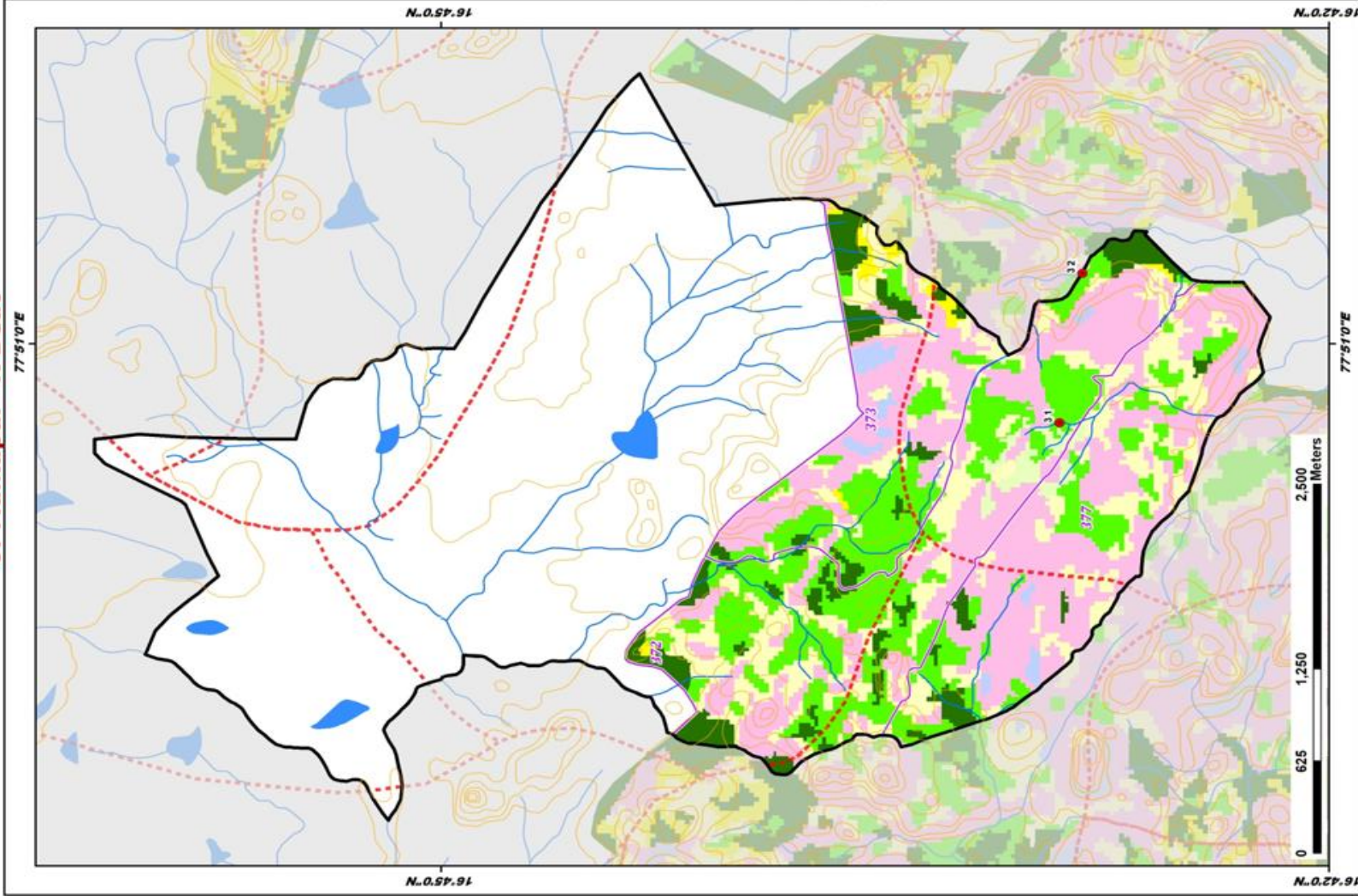
Legend

- 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 Malkapur- K Beat



Division : Mahaboobnagar
Range : Mahaboobnagar



ID	Latitude	Longitude	Catchment Area_Ha	Priority
31	16.715155	77.845196	6.16	II
32	16.713872	77.854314	92.38	IV

LEGEND

- Proposed_PTs
- Existing CD/Pts
- Contours
- Streams
- Watershed Boundary
- Compartment Boundary
- Beat Boundary
- Division_Boundary

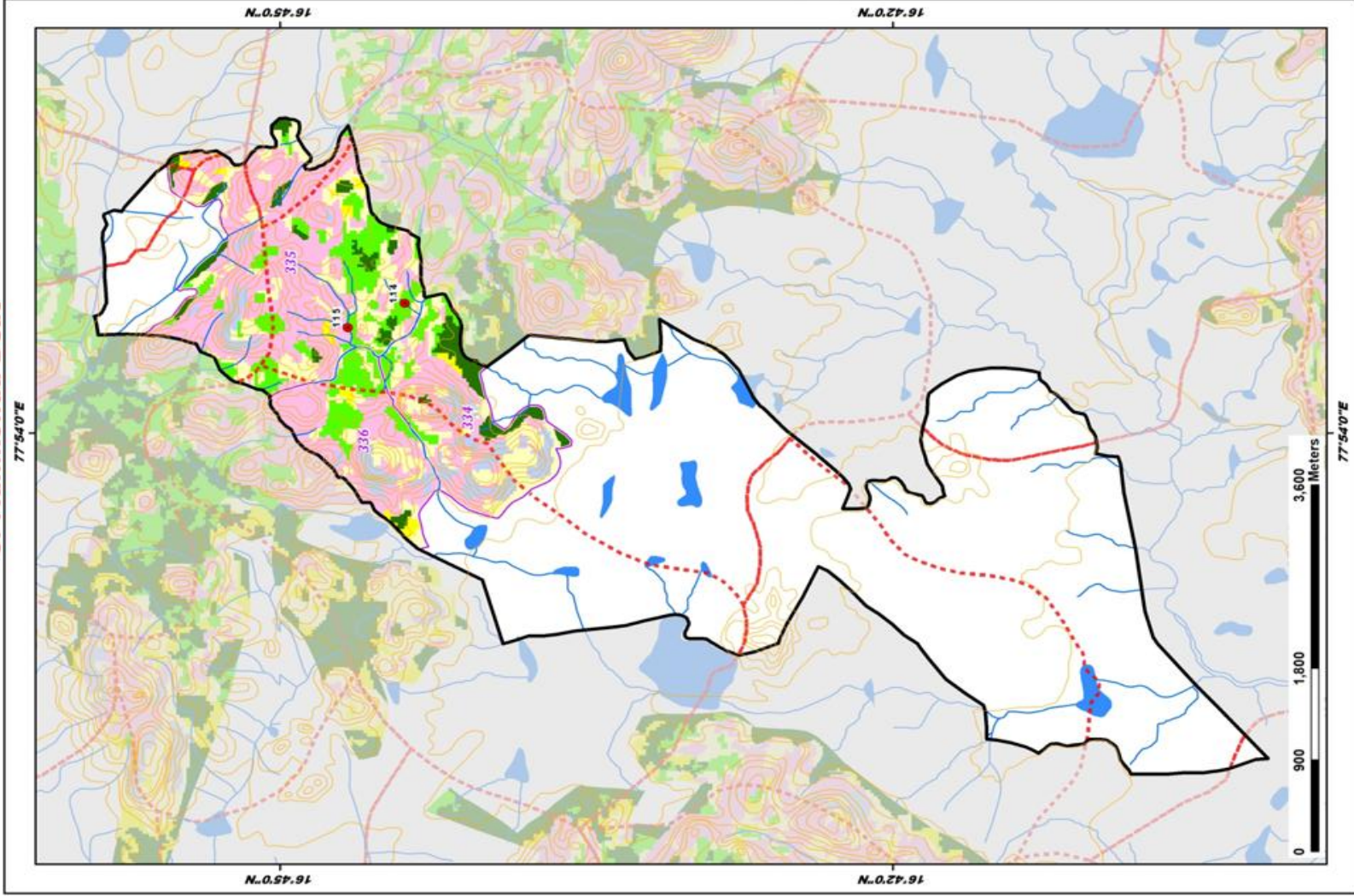
Suitability Index

- 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 Manikonda Beat



Division : Mahaboobnagar
Range : Mahaboobnagar



ID	Latitude	Longitude	Catchment		Priority
			Area	Ha	
114	16.739832	77.911514	24.37		II
115	16.744469	77.909340	80.59		IV

LEGEND

- Proposed_PTs
- Existing_CD/PTs
- Contours
- Streams
- Watershed Boundary
- Compartment Boundary
- Beat Boundary
- Division_Boundary

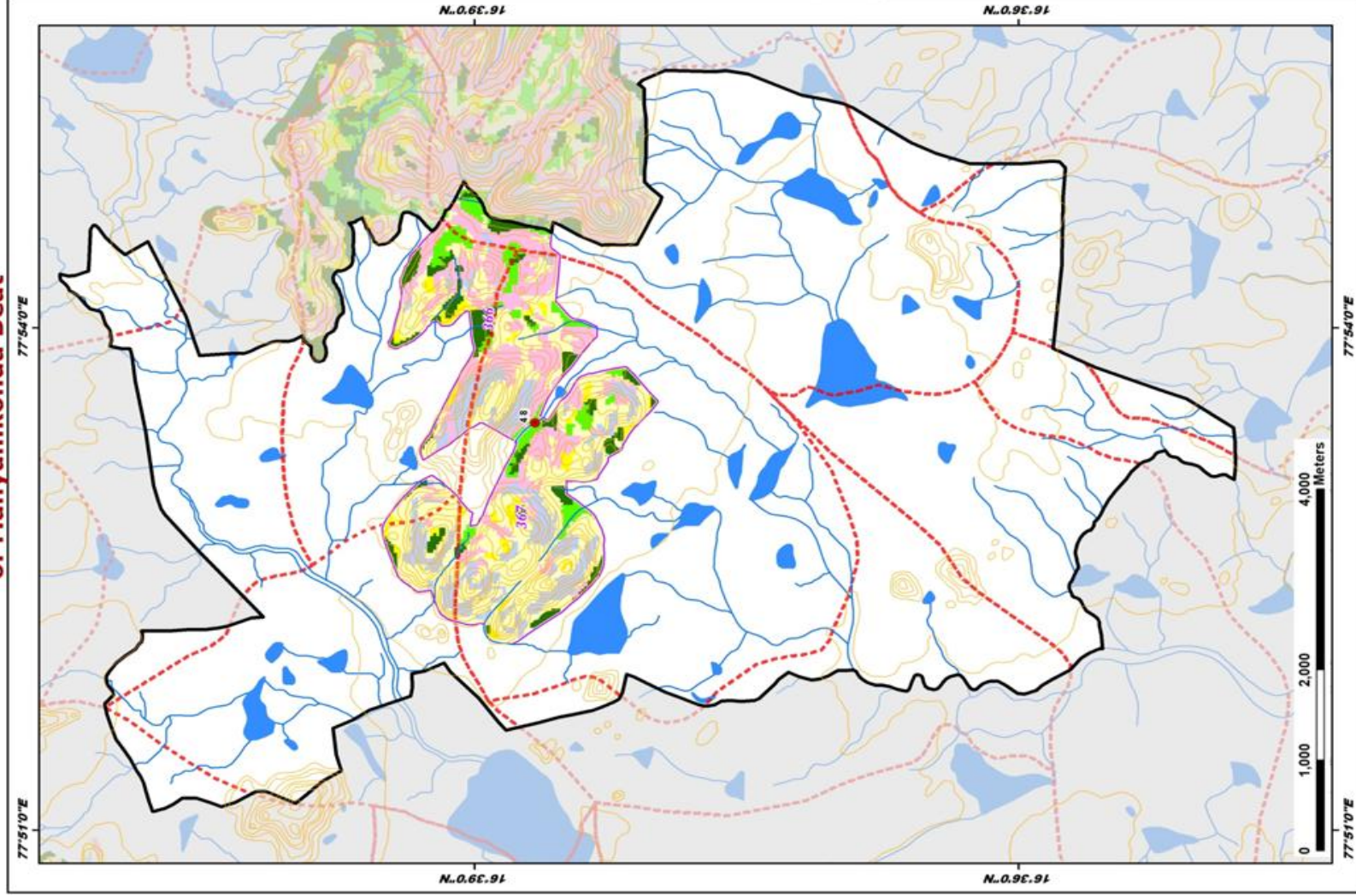
Suitability Index

- CCTs/SCTs - Highly Suitable
- CCTs/SCTs - Moderately Suitable
- CCTs/SCTs - Least Suitable
- PTs - Highly Suitable
- PTs - Moderately Suitable
- PTs - Least Suitable
- MPTs and SGP's - Suitable
- Not Suitable
- Water Body

Map Showing Suitability Index for Construction of SMC Works of Manyamkonda Beat



Division : Mahaboobnagar
Range : Mahaboobnagar



ID	Latitude	Longitude	Catchment Area_Ha	Priority
48	16.644411	77.890560	75.55	IV

LEGEND

- Proposed_PTs
- Existing CD/PTs
- Contours
- Streams
- Watershed Boundary
- Compartment Boundary
- Beat Boundary
- Division_Boundary

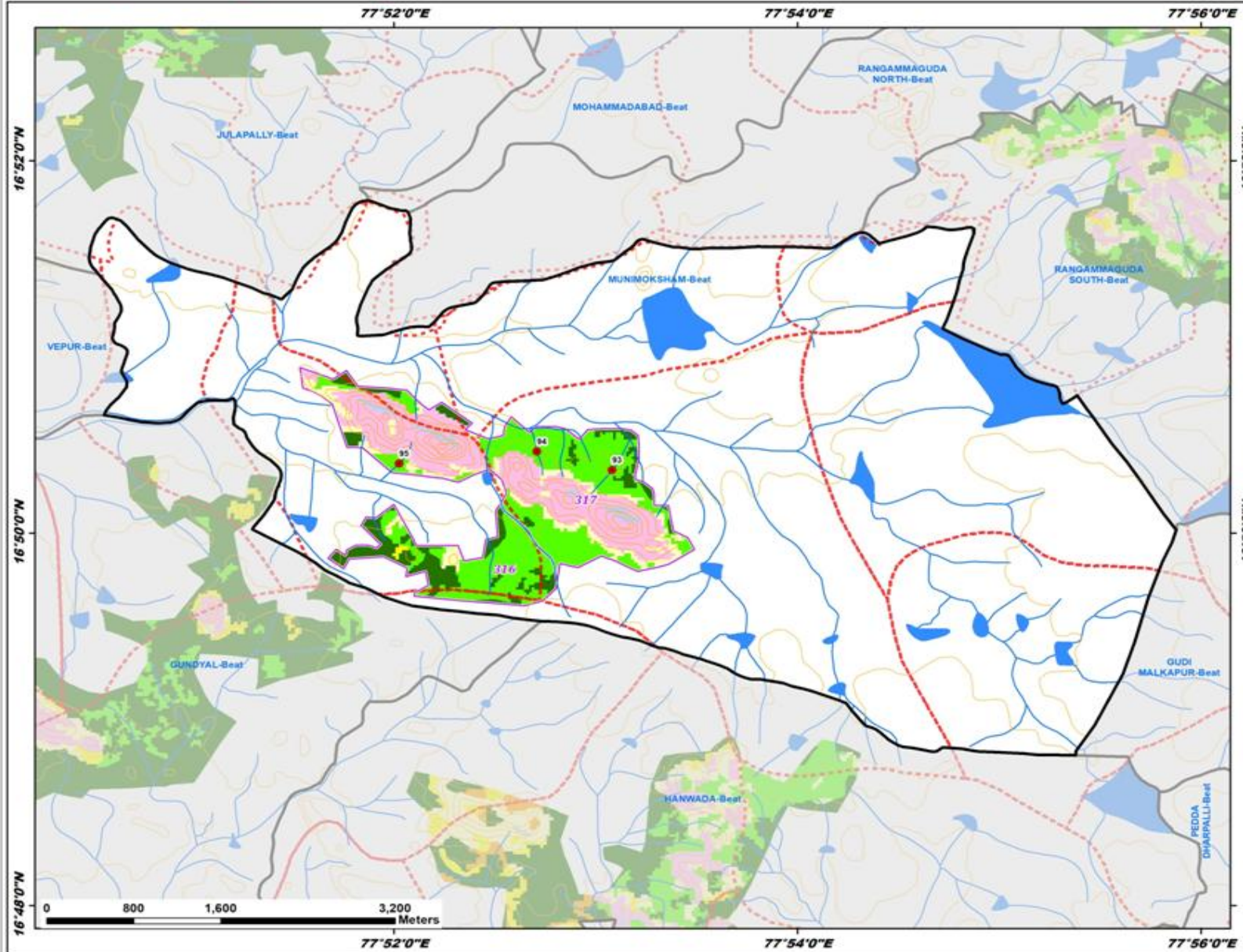
Suitability Index

- 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 Munimoksham Beat



Division : Mahaboobnagar
Range : Mahaboobnagar



ID	Latitude	Longitude	Catchment Area_Ha	Priority
93	16.839003	77.884703	10.59	II
94	16.840649	77.878479	10.58	II
95	16.839569	77.867114	7.08	II

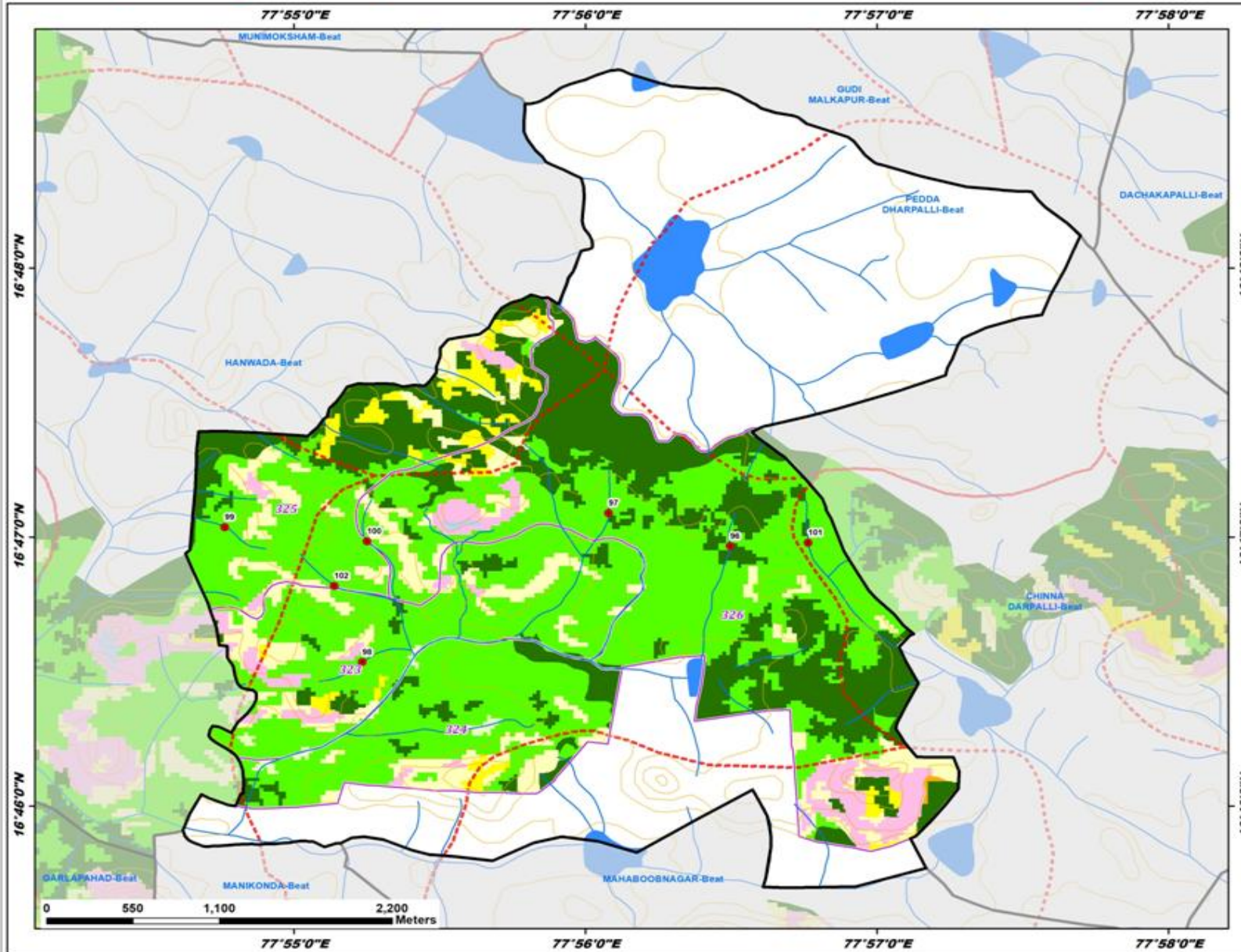
Legend

- 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 SGP - Suitable
 - Not Suitable
 - Water Body

Map Showing Suitability index for Construction of SMC Works of Pedda Dharpalli Beat



Division : Mahaboobnagar
Range : Mahaboobnagar



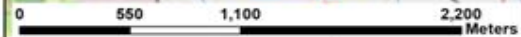
ID	Latitude	Longitude	Catchment Area_Ha	Priority
96	16.782785	77.941615	15.64	I
97	16.784836	77.934667	19.04	II
98	16.775599	77.920576	18.73	II
99	16.783964	77.912711	17.36	II
100	16.783092	77.920844	13.32	II
101	16.782995	77.946066	11.40	II
102	16.780322	77.918981	8.50	II

Legend

- Proposed_PTs
- Existing CD/PTs
- Contours
- Streams
- Watershed Boundary
- Compartment Boundary
- Beat_Boundary
- Division Boundary

Suitability Index

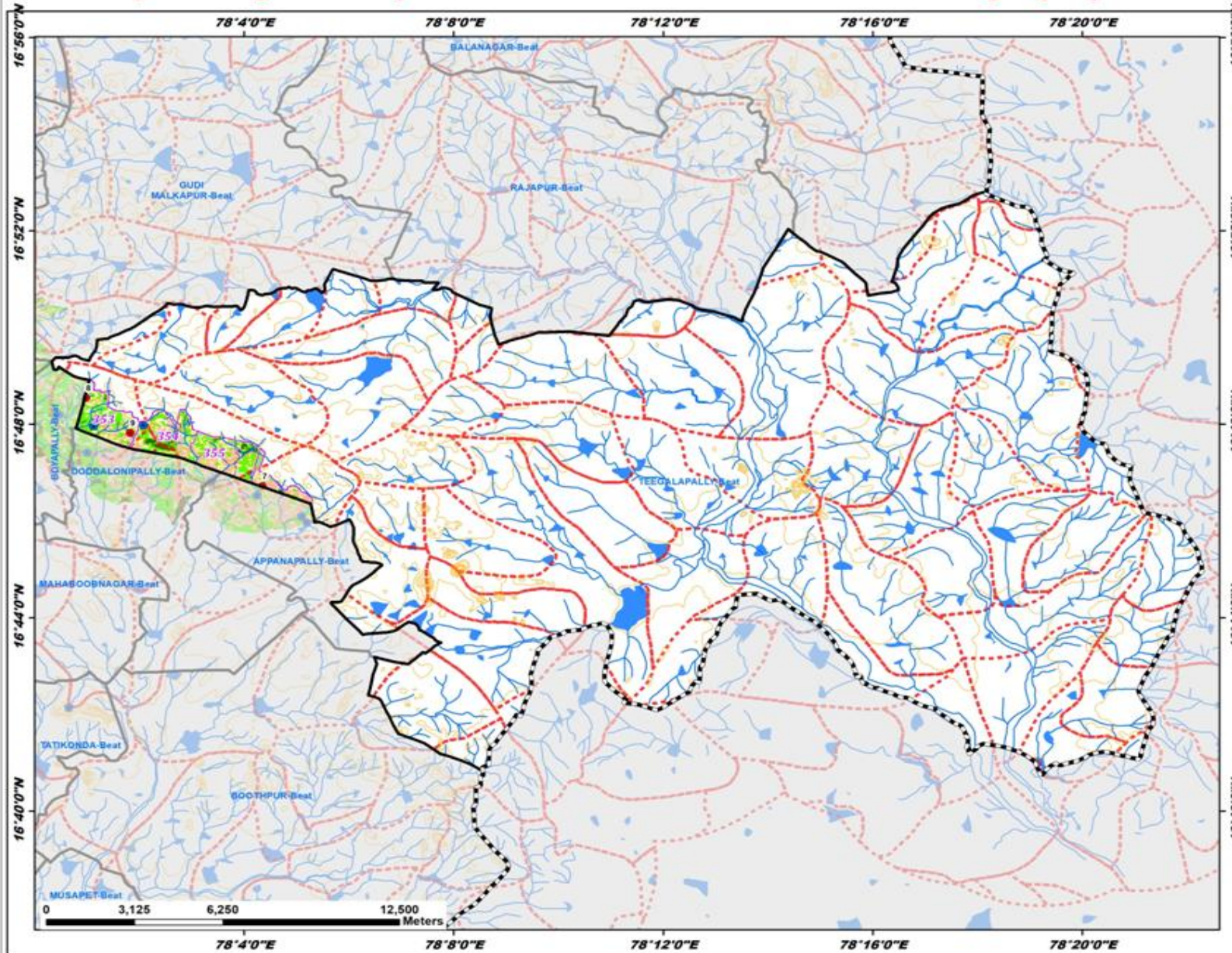
- CCTs/SCTs - Highly Suitable
- CCTs/SCTs - Moderately Suitable
- CCTs/SCTs - Least Suitable
- PTs - Highly Suitable
- PTs - Moderately Suitable
- PTs - Least Suitable
- MPTs and SGP - Suitable
- Not Suitable
- Water Body



Map Showing Suitability index for Construction of SMC Works of Teegalapally Beat



Division : Mahaboobnagar
Range : Mahaboobnagar



ID	Latitude	Longitude	Catchment Area_Ha	Priority
7	16.778605	78.072528	13.81	II
8	16.809075	78.016458	10.23	II
9	16.797000	78.030494	29.27	III

Legend

- Proposed_PTs
- Existing CD/PTs
- Contours
- Streams
- - - Watershed Boundary
- Compartment Boundary
- Beat_Boundary
- - - Division Boundary

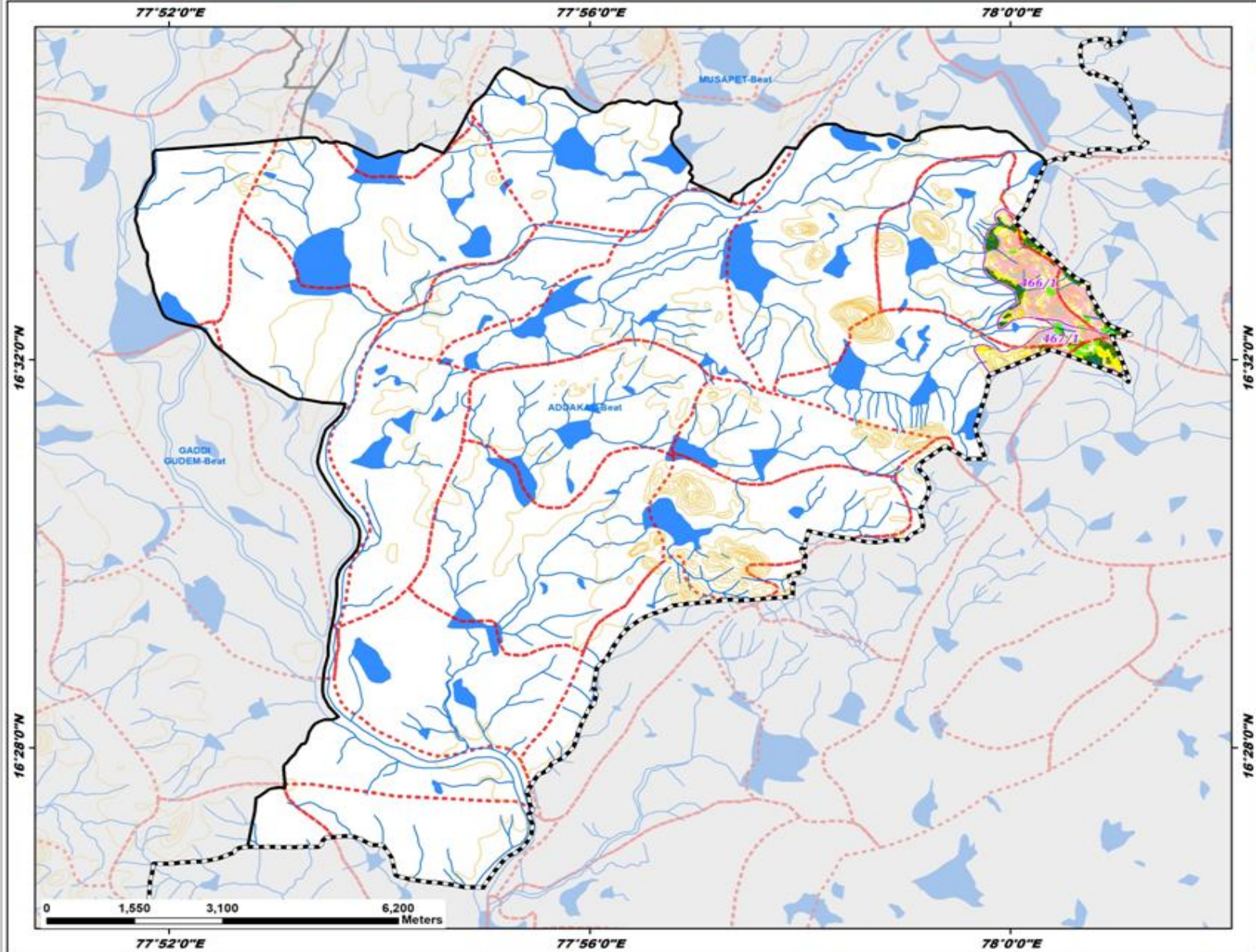
Suitability Index

- 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 Addakal Beat



Division : Mahaboobnagar
Range : Mahaboobnagar



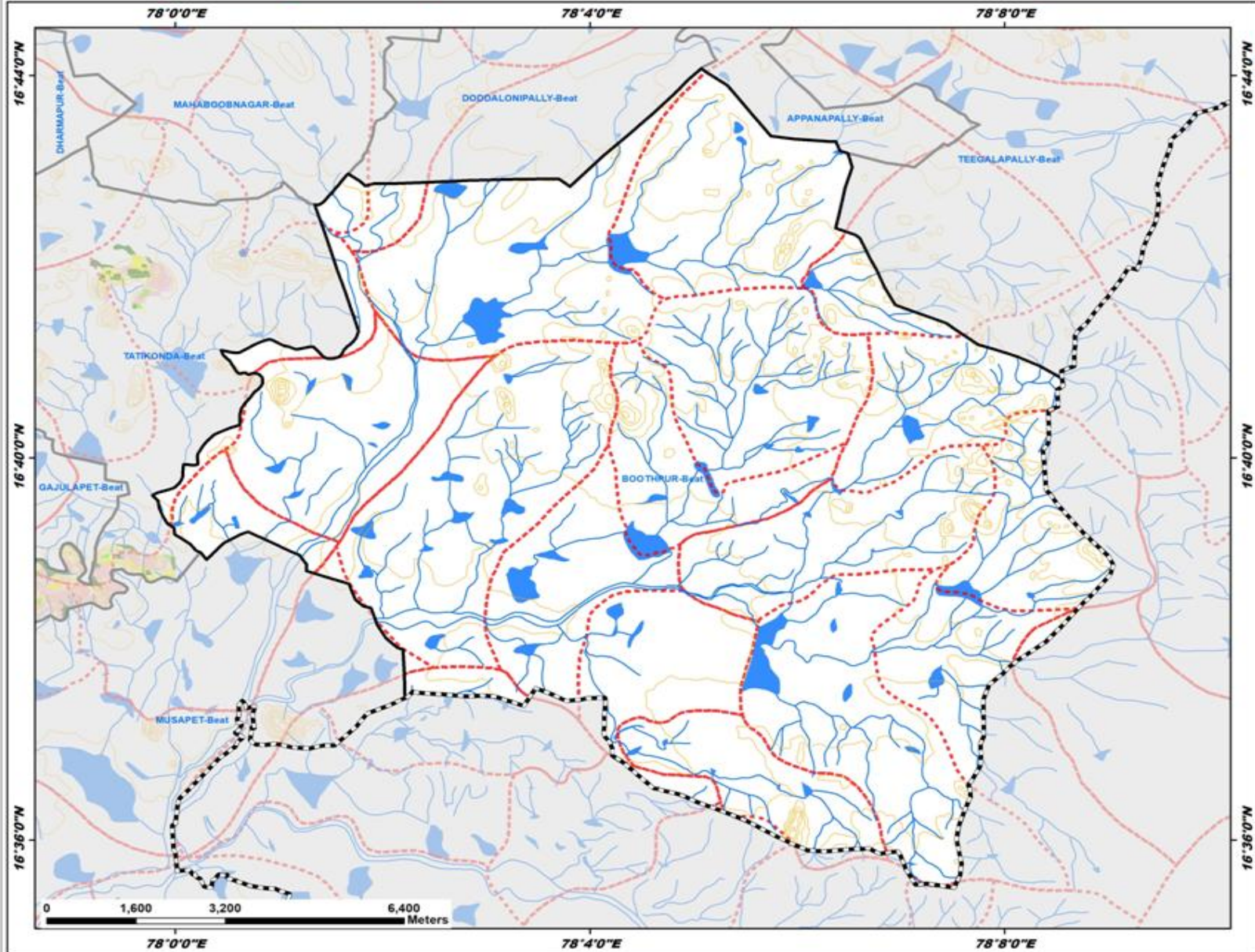
Legend

- 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 Boothpur Beat



Division : Mahaboobnagar
Range : Mahaboobnagar



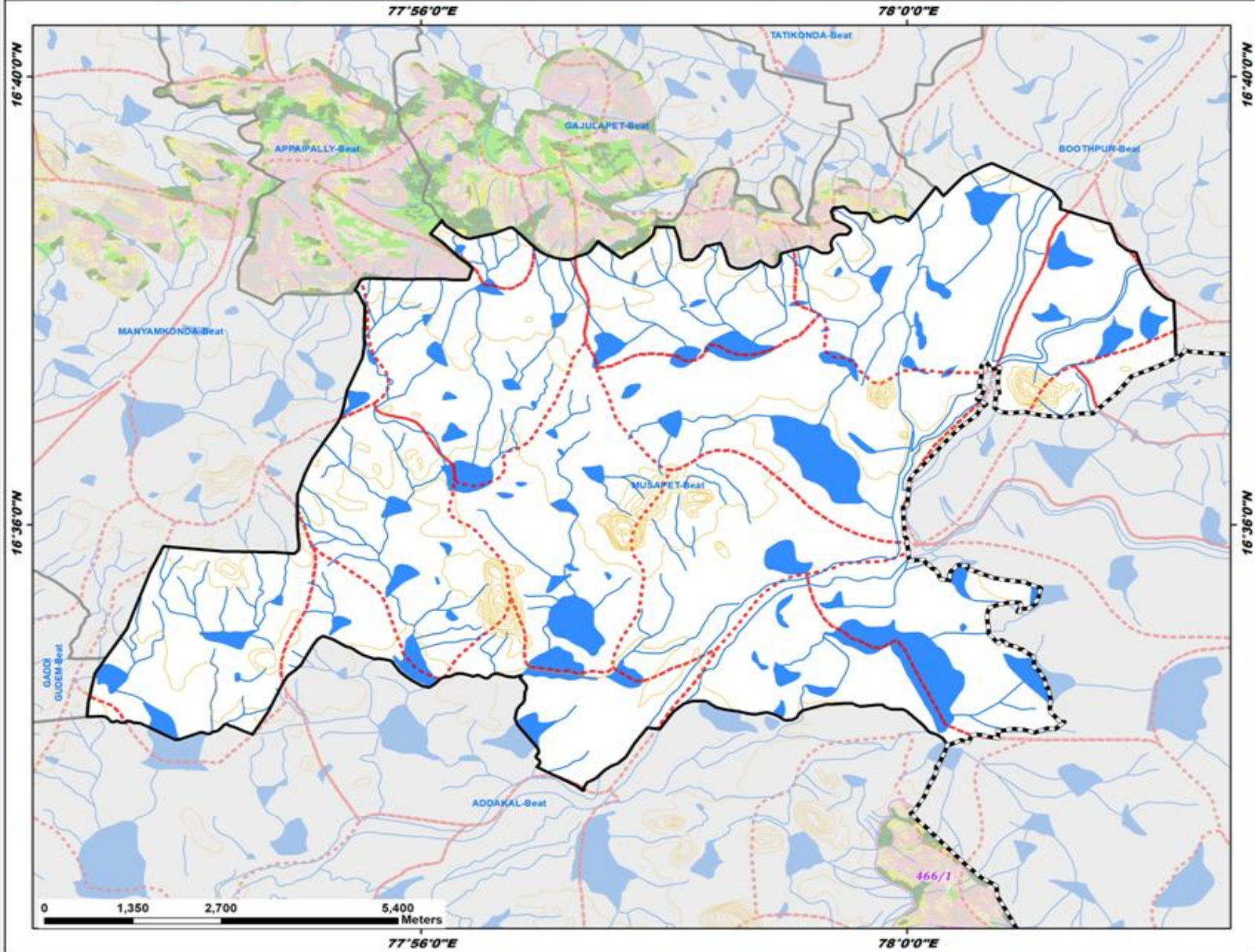
Legend

- 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 Musapet Beat



Division : Mahaboobnagar
Range : Mahaboobnagar



Legend

- 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

0 1,350 2,700 5,400 Meters

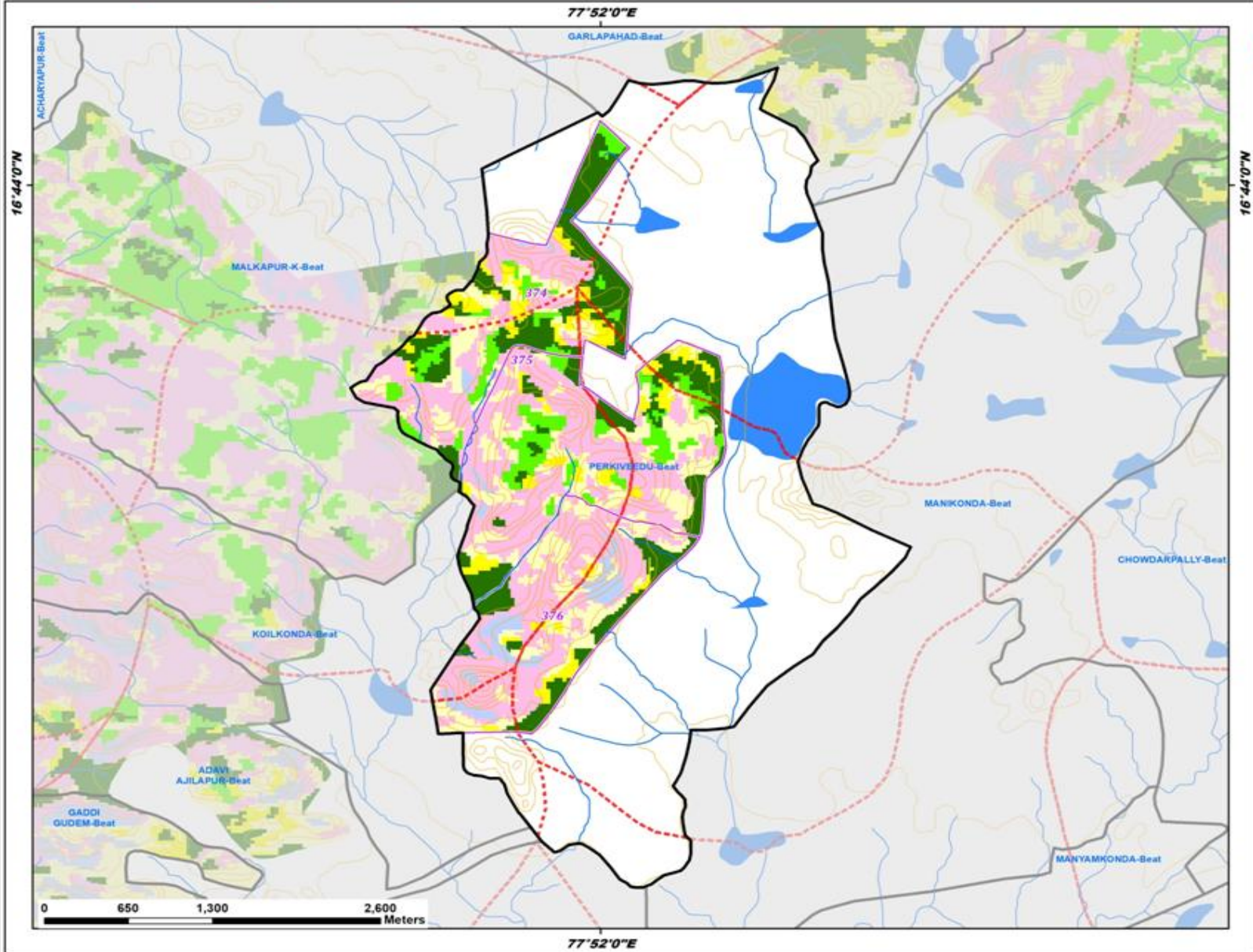
77°56'0"E

78°0'0"E

Map Showing Suitability index for Construction of SMC Works of Perkiveedu Beat



Division : Mahaboobnagar
Range : Mahaboobnagar



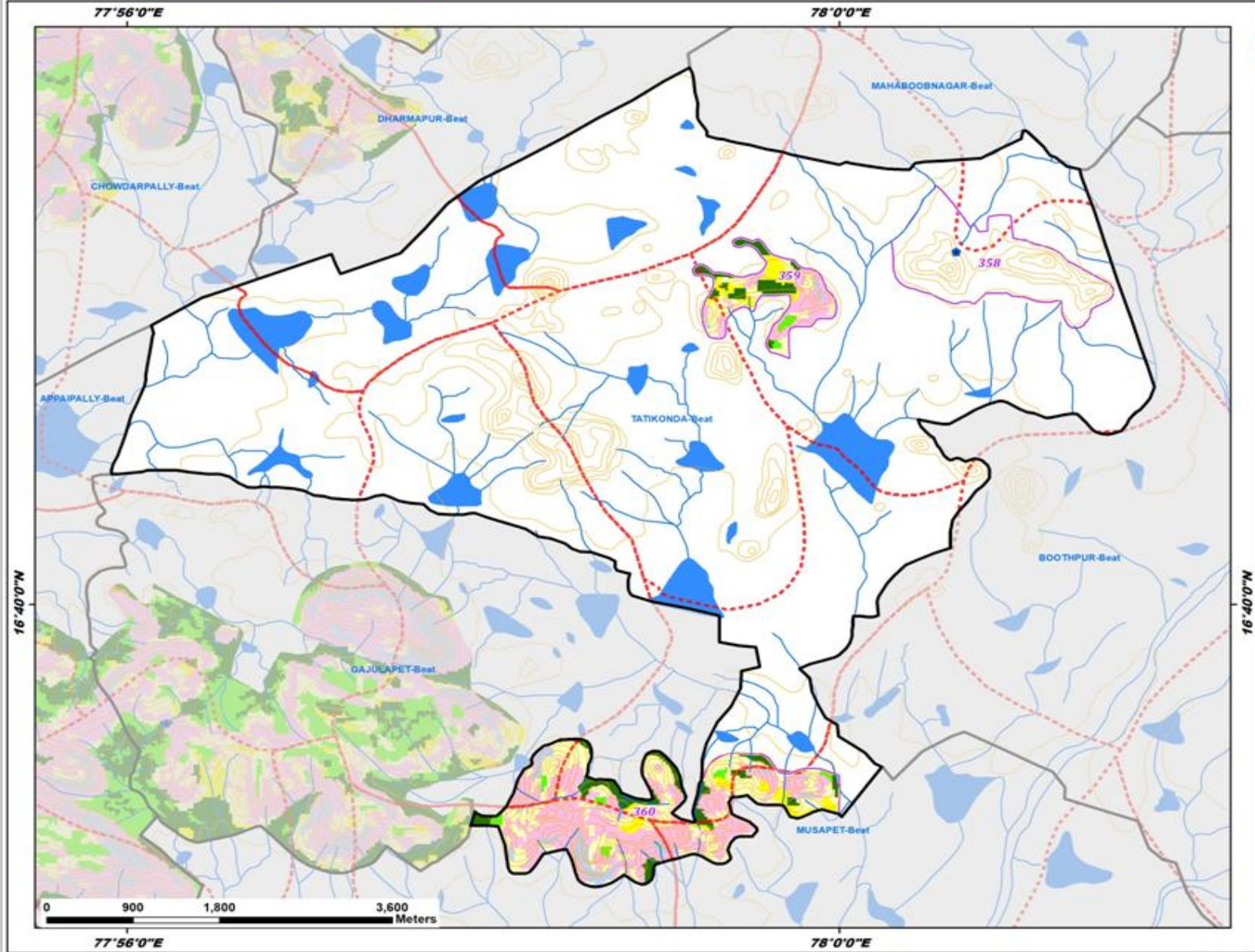
Legend

- 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 Tatikonda Beat



Division : Mahaboobnagar
Range : Mahaboobnagar



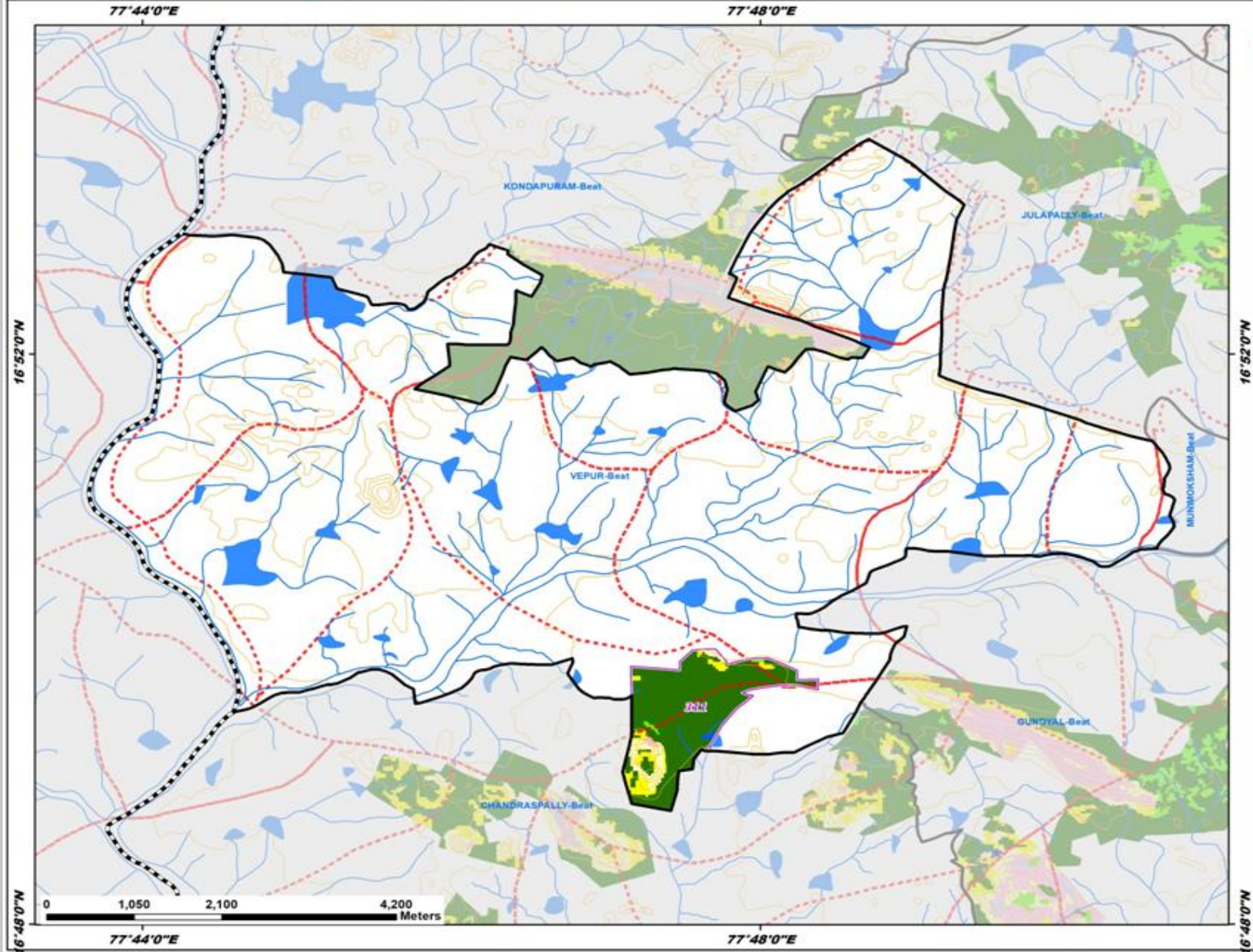
Legend

- 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 Vepur Beat



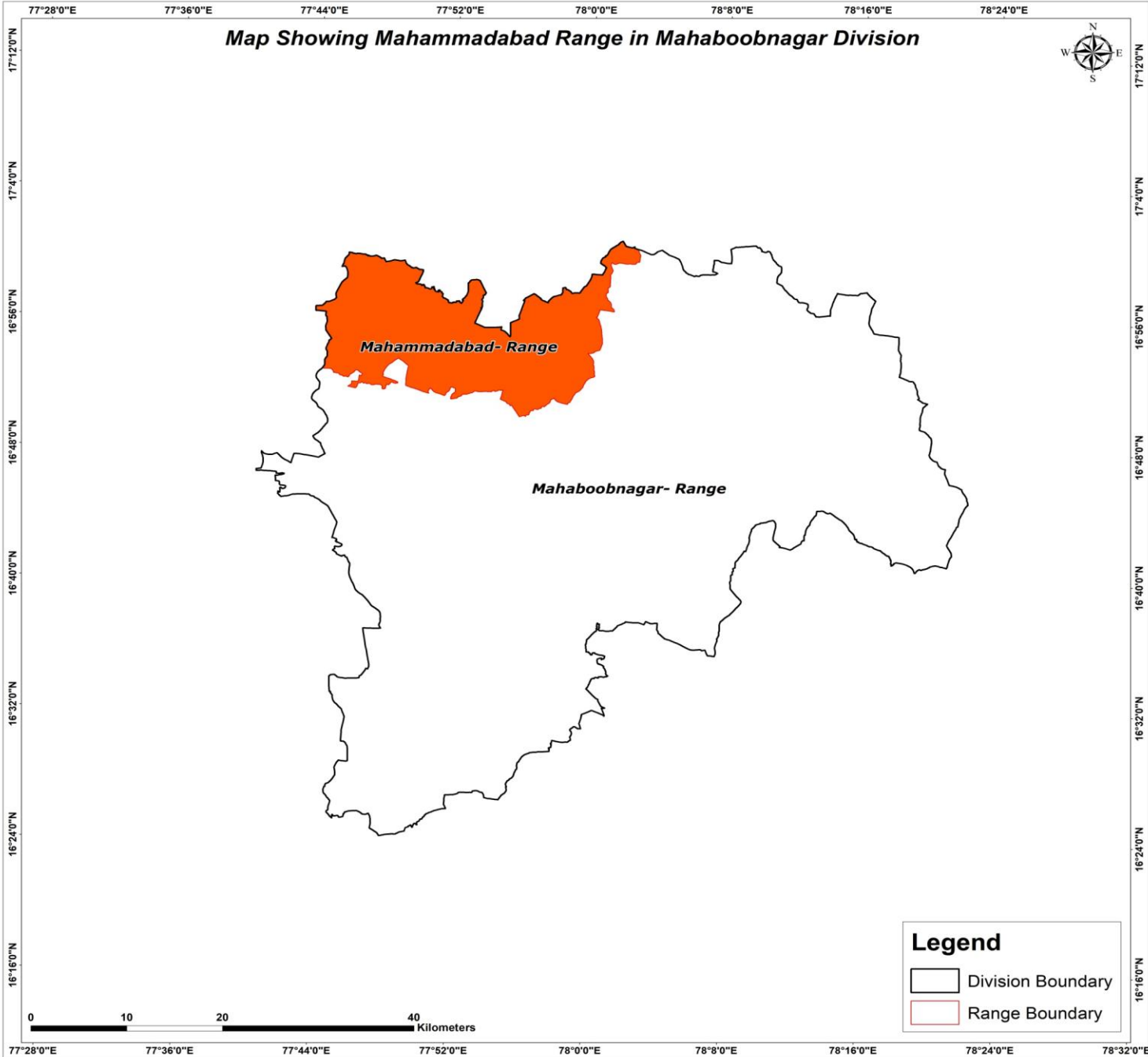
Division : Mahaboobnagar
Range : Mahaboobnagar



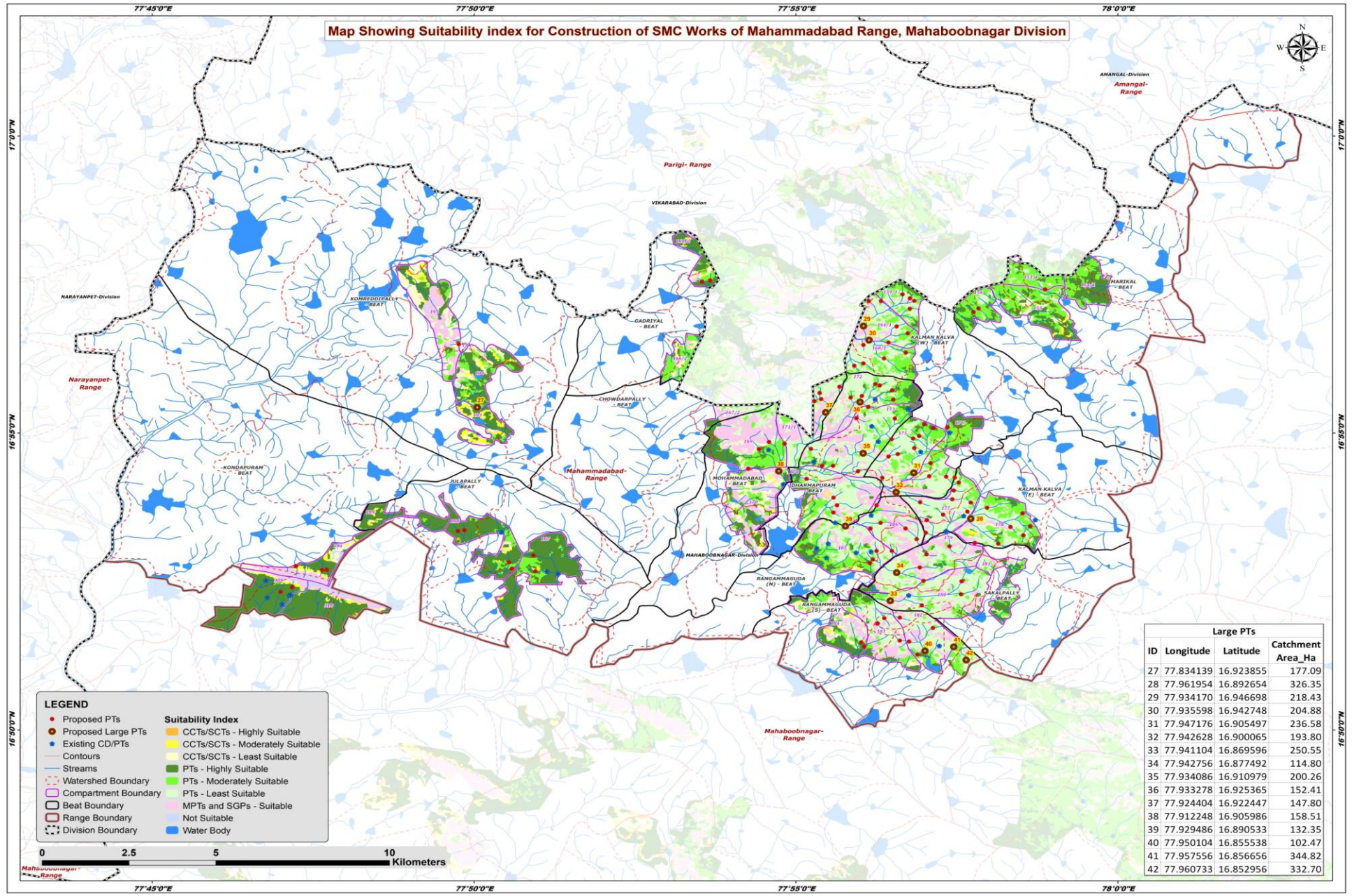
Legend

- 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 Mohammadabad Range in Mahaboobnagar Division

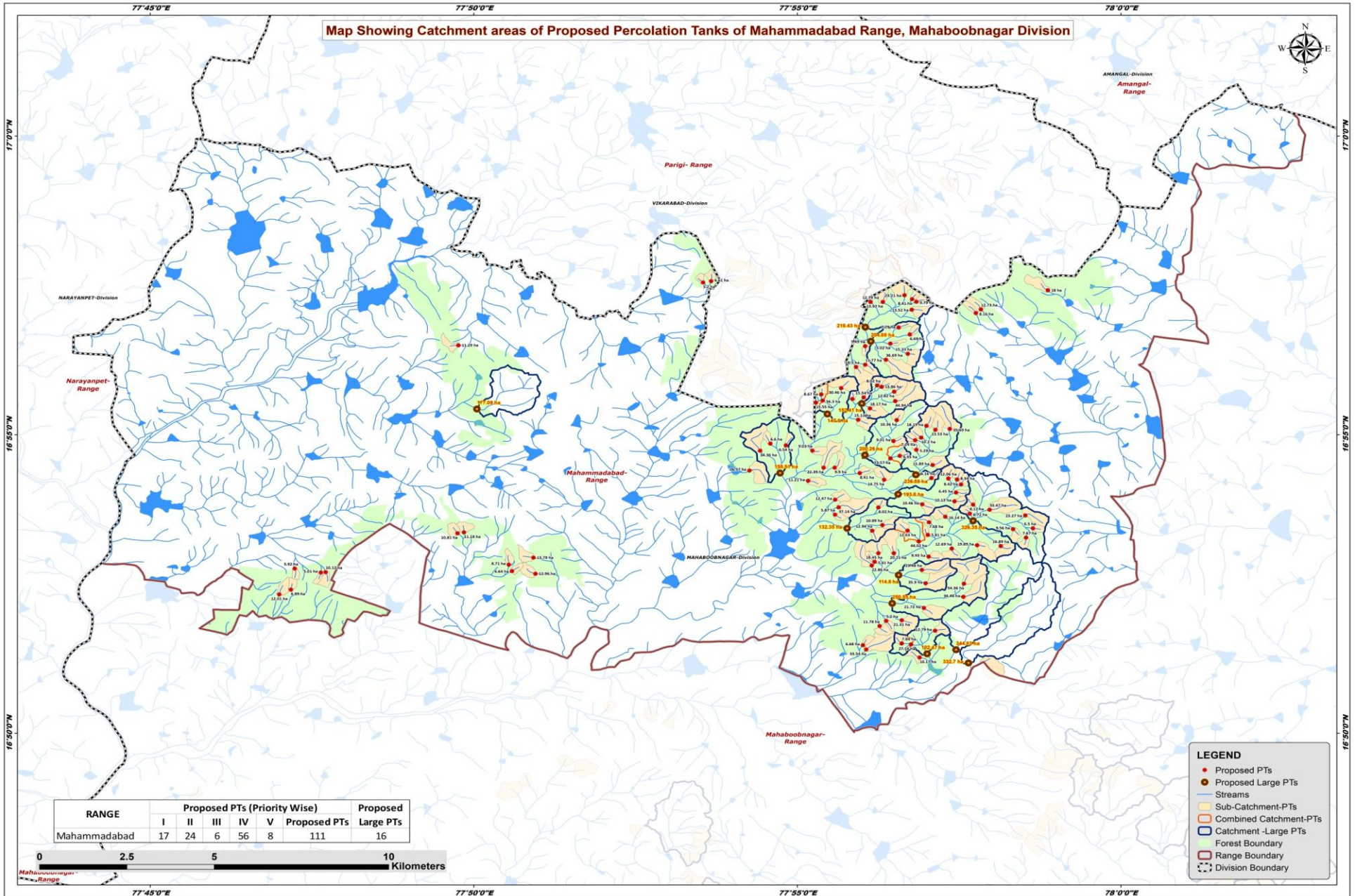


Map Showing Suitability index for Construction of SMC Works of Mohammadabad Range, Mahaboobnagar Division



Large PTs			
ID	Longitude	Latitude	Catchment Area_Ha
27	77.834139	16.923855	177.09
28	77.961954	16.892654	326.35
29	77.934170	16.946698	218.43
30	77.935598	16.942748	204.88
31	77.947176	16.905497	236.58
32	77.942628	16.900065	193.80
33	77.941104	16.869596	250.55
34	77.942756	16.877492	114.80
35	77.934086	16.910979	200.26
36	77.933278	16.925365	152.41
37	77.924404	16.922447	147.80
38	77.912248	16.905986	158.51
39	77.929486	16.890533	132.35
40	77.950104	16.855538	102.47
41	77.957556	16.856656	344.82
42	77.960733	16.852956	332.70

Map Showing Catchment areas of Proposed Percolation Tanks of Mahammadabad Range, Mahaboobnagar Division



77°45'0"E

77°50'0"E

77°55'0"E

78°0'0"E

17°0'0"N

16°55'0"N

16°50'0"N

17°0'0"N

16°55'0"N

16°50'0"N



77°45'0"E

77°50'0"E

77°55'0"E

78°0'0"E

Beat wise Abstract of Proposed PT's – Mahammadabad Range

S. No.	Beat	Proposed PT's
1	DHARMAPURAM	17
2	GADRIYAL	2
3	JULAPALLY	6
4	KALMAN KALVA EAST	16
5	KALMAN KALVA WEST	27
6	KOMREDDIPALLY	1
7	KONDAPURAM	5
8	MARIKAL	3
9	MOHAMMADABAD	8
10	RANGAMMAGUDA NORTH	9
11	RANGAMMAGUDA SOUTH	9
12	SAKALPALLY	8
	Total	111

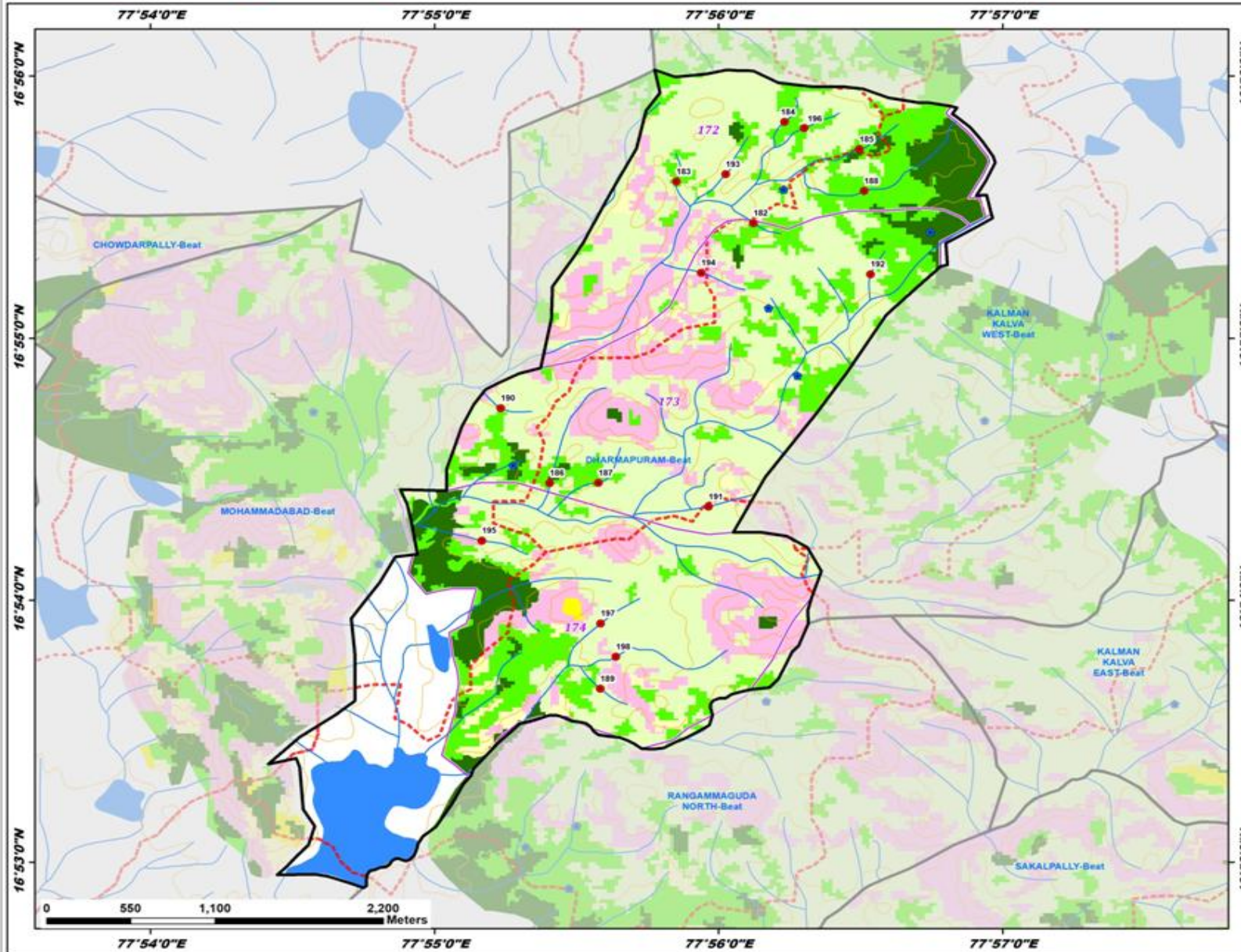
List of Proposed PTs – Mahammadabad Range

ID	Latitude	Longitude	Catchment Area_Ha	Priority	Beat	ID	Latitude	Longitude	Catchment Area_Ha	Priority	Beat	ID	Latitude	Longitude	Catchment Area_Ha	Priority	Beat
116	16.882354	77.848708	13.79	I	JULAPALLY	156	16.951549	77.946139	13.52	IV	KALMAN KALVA (W)	196	16.930028	77.938374	13.86	IV	DHARMAPURAM
117	16.889413	77.830833	11.18	I	JULAPALLY	157	16.935559	77.931789	18.30	IV	KALMAN KALVA (W)	197	16.898533	77.926426	12.47	IV	DHARMAPURAM
118	16.877858	77.849238	12.96	I	JULAPALLY	158	16.955576	77.944267	23.21	IV	KALMAN KALVA (W)	198	16.896408	77.927314	37.14	V	DHARMAPURAM
119	16.880375	77.842382	8.71	I	JULAPALLY	159	16.910753	77.943038	6.35	IV	KALMAN KALVA (W)	199	16.959153	77.892414	5.20	I	GADRIYAL
120	16.889151	77.829162	10.81	I	JULAPALLY	160	16.941387	77.934160	5.49	IV	KALMAN KALVA (W)	200	16.959500	77.894476	6.61	I	GADRIYAL
121	16.878616	77.843181	6.64	II	JULAPALLY	161	16.936205	77.934134	11.77	IV	KALMAN KALVA (W)	201	16.913667	77.913712	6.54	II	MOHAMMADABAD
122	16.941615	77.829405	11.29	I	KOMREDDIPALLY	162	16.953720	77.938717	13.92	IV	KALMAN KALVA (W)	202	16.906674	77.904340	26.57	III	MOHAMMADABAD
123	16.872081	77.783260	12.01	I	KONDAPURAM	163	16.915140	77.947029	7.14	IV	KALMAN KALVA (W)	203	16.912202	77.907108	34.36	III	MOHAMMADABAD
124	16.879314	77.787213	5.92	I	KONDAPURAM	164	16.914905	77.941441	9.01	IV	KALMAN KALVA (W)	204	16.914181	77.909728	6.60	IV	MOHAMMADABAD
125	16.878211	77.793975	5.01	I	KONDAPURAM	165	16.904093	77.939044	14.75	IV	KALMAN KALVA (W)	205	16.927879	77.922813	8.67	IV	MOHAMMADABAD
126	16.873437	77.786264	6.89	I	KONDAPURAM	166	16.912454	77.947310	5.29	IV	KALMAN KALVA (W)	206	16.925618	77.921448	15.55	IV	MOHAMMADABAD
127	16.878314	77.795187	10.12	I	KONDAPURAM	167	16.946600	77.942742	7.79	IV	KALMAN KALVA (W)	207	16.929663	77.927972	30.46	V	MOHAMMADABAD
128	16.887944	77.975554	7.67	II	KALMAN KALVA (E)	168	16.910059	77.940660	23.57	IV	KALMAN KALVA (W)	208	16.926188	77.923218	56.30	V	MOHAMMADABAD
129	16.894145	77.975363	23.27	II	KALMAN KALVA (E)	169	16.953700	77.935551	12.79	IV	KALMAN KALVA (W)	209	16.880168	77.935815	22.86	I	RANGAMMAGUDA (N)
130	16.902770	77.958850	8.42	II	KALMAN KALVA (E)	170	16.937588	77.939501	36.69	V	KALMAN KALVA (W)	210	16.896379	77.937555	8.02	IV	RANGAMMAGUDA (N)
131	16.897134	77.961936	8.12	II	KALMAN KALVA (E)	171	16.950595	77.962670	8.16	II	MARIKAL	211	16.889905	77.945067	12.63	IV	RANGAMMAGUDA (N)
132	16.890554	77.977356	6.50	II	KALMAN KALVA (E)	172	16.956963	77.981191	18.00	II	MARIKAL	212	16.883592	77.941518	20.21	IV	RANGAMMAGUDA (N)
133	16.892232	77.950573	7.68	IV	KALMAN KALVA (E)	173	16.951626	77.963955	12.73	II	MARIKAL	213	16.889873	77.935956	12.94	IV	RANGAMMAGUDA (N)
134	16.888695	77.950289	5.81	IV	KALMAN KALVA (E)	174	16.875059	77.959571	54.36	III	SAKALPALLY	214	16.883598	77.937557	18.45	IV	RANGAMMAGUDA (N)
135	16.894636	77.961082	6.72	IV	KALMAN KALVA (E)	175	16.871402	77.959409	34.48	III	SAKALPALLY	215	16.891457	77.938587	10.89	IV	RANGAMMAGUDA (N)
136	16.890331	77.972248	9.56	IV	KALMAN KALVA (E)	176	16.878919	77.948729	23.48	IV	SAKALPALLY	216	16.881191	77.936573	5.41	IV	RANGAMMAGUDA (N)
137	16.898073	77.957145	10.13	IV	KALMAN KALVA (E)	177	16.885813	77.962970	19.89	IV	SAKALPALLY	217	16.886889	77.947940	44.02	V	RANGAMMAGUDA (N)
138	16.900552	77.957537	6.45	IV	KALMAN KALVA (E)	178	16.884893	77.956449	12.69	IV	SAKALPALLY	218	16.854501	77.948162	10.17	I	RANGAMMAGUDA (S)
139	16.893790	77.954801	16.14	IV	KALMAN KALVA (E)	179	16.882659	77.950479	9.93	IV	SAKALPALLY	219	16.856715	77.934411	33.54	II	RANGAMMAGUDA (S)
140	16.897233	77.948839	10.46	IV	KALMAN KALVA (E)	180	16.868295	77.949270	21.72	IV	SAKALPALLY	220	16.861975	77.952133	12.79	II	RANGAMMAGUDA (S)
141	16.904164	77.957808	8.34	IV	KALMAN KALVA (E)	181	16.875188	77.949723	35.90	V	SAKALPALLY	221	16.857923	77.933553	6.68	II	RANGAMMAGUDA (S)
142	16.885592	77.969079	16.89	IV	KALMAN KALVA (E)	182	16.923988	77.935376	18.17	II	DHARMAPURAM	222	16.858421	77.943560	7.84	IV	RANGAMMAGUDA (S)
143	16.895715	77.966198	33.47	V	KALMAN KALVA (E)	183	16.926631	77.930860	5.22	II	DHARMAPURAM	223	16.864706	77.939545	5.20	IV	RANGAMMAGUDA (S)
144	16.919163	77.949946	18.19	I	KALMAN KALVA (W)	184	16.930420	77.937216	8.02	II	DHARMAPURAM	224	16.863246	77.937877	11.78	IV	RANGAMMAGUDA (S)
145	16.918047	77.952248	13.53	I	KALMAN KALVA (W)	185	16.928677	77.941609	12.82	II	DHARMAPURAM	225	16.864879	77.943548	21.31	IV	RANGAMMAGUDA (S)
146	16.944659	77.945626	6.69	II	KALMAN KALVA (W)	186	16.907459	77.923431	22.39	II	DHARMAPURAM	226	16.858154	77.945962	27.16	V	RANGAMMAGUDA (S)
147	16.908201	77.951509	15.89	II	KALMAN KALVA (W)	187	16.907470	77.926282	9.90	II	DHARMAPURAM						
148	16.915855	77.948574	10.20	II	KALMAN KALVA (W)	188	16.926026	77.941878	44.94	III	DHARMAPURAM						
149	16.942105	77.940612	5.02	II	KALMAN KALVA (W)	189	16.894375	77.926394	5.87	IV	DHARMAPURAM						
150	16.939255	77.945131	15.33	II	KALMAN KALVA (W)	190	16.912223	77.920554	9.03	IV	DHARMAPURAM						
151	16.918264	77.955922	35.69	III	KALMAN KALVA (W)	191	16.905957	77.932748	8.41	IV	DHARMAPURAM						
152	16.904421	77.955569	12.06	IV	KALMAN KALVA (W)	192	16.920736	77.942254	10.36	IV	DHARMAPURAM						
153	16.954496	77.946222	8.41	IV	KALMAN KALVA (W)	193	16.927093	77.933760	15.54	IV	DHARMAPURAM						
154	16.953781	77.947326	9.79	IV	KALMAN KALVA (W)	194	16.920829	77.932324	15.11	IV	DHARMAPURAM						
155	16.904548	77.951207	6.16	IV	KALMAN KALVA (W)	195	16.903797	77.919455	11.21	IV	DHARMAPURAM						

Map Showing Suitability index for Construction of SMC Works of Dharmapuram Beat



Division : Mahaboobnagar
Range : Mahammadabad



ID	Latitude	Longitude	Catchment Area Ha	Priority
182	16.923988	77.935376	18.17	II
183	16.926631	77.930860	5.22	II
184	16.930420	77.937216	8.02	II
185	16.928677	77.941609	12.82	II
186	16.907459	77.923431	22.39	II
187	16.907470	77.926282	9.90	II
188	16.926026	77.941878	44.94	III
189	16.894375	77.926394	5.87	IV
190	16.912223	77.920554	9.03	IV
191	16.905957	77.932748	8.41	IV
192	16.920736	77.942254	10.36	IV
193	16.927093	77.933760	15.54	IV
194	16.920829	77.932324	15.11	IV
195	16.903797	77.919455	11.21	IV
196	16.930028	77.938374	13.86	IV
197	16.898533	77.926426	12.47	IV
198	16.896408	77.927314	37.14	V

Legend

- Proposed_PTs
- Existing CD/PTs
- Contours
- Streams
- Watershed Boundary
- Compartment Boundary
- Beat_Boundary
- Division Boundary

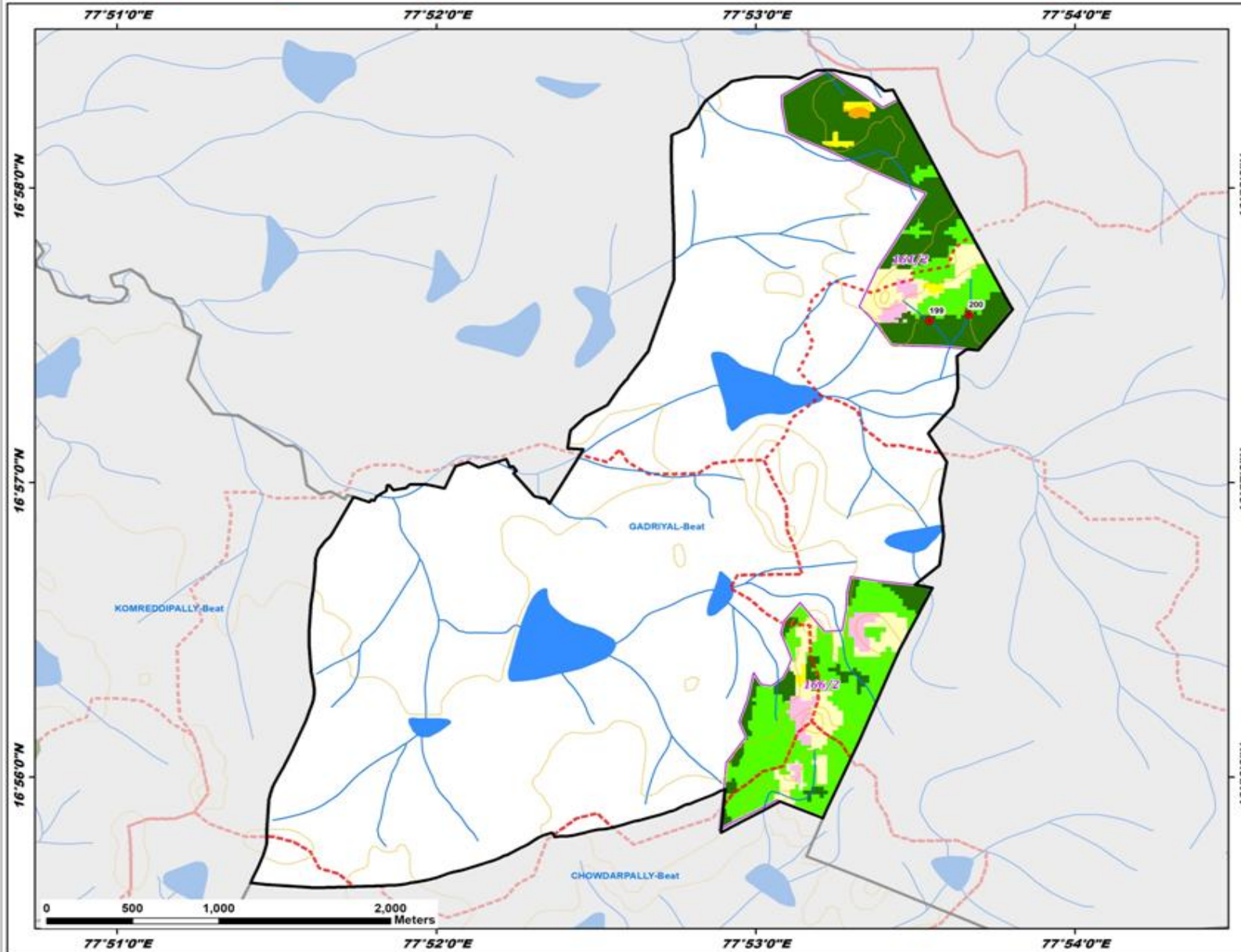
Suitability Index

- 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 Gadriyal Beat



Division : Mahaboobnagar
Range : Mahammadabad



ID	Latitude	Longitude	Catchment Area_Ha	Priority
199	16.959153	77.892414	5.20	I
200	16.959500	77.894476	6.61	I

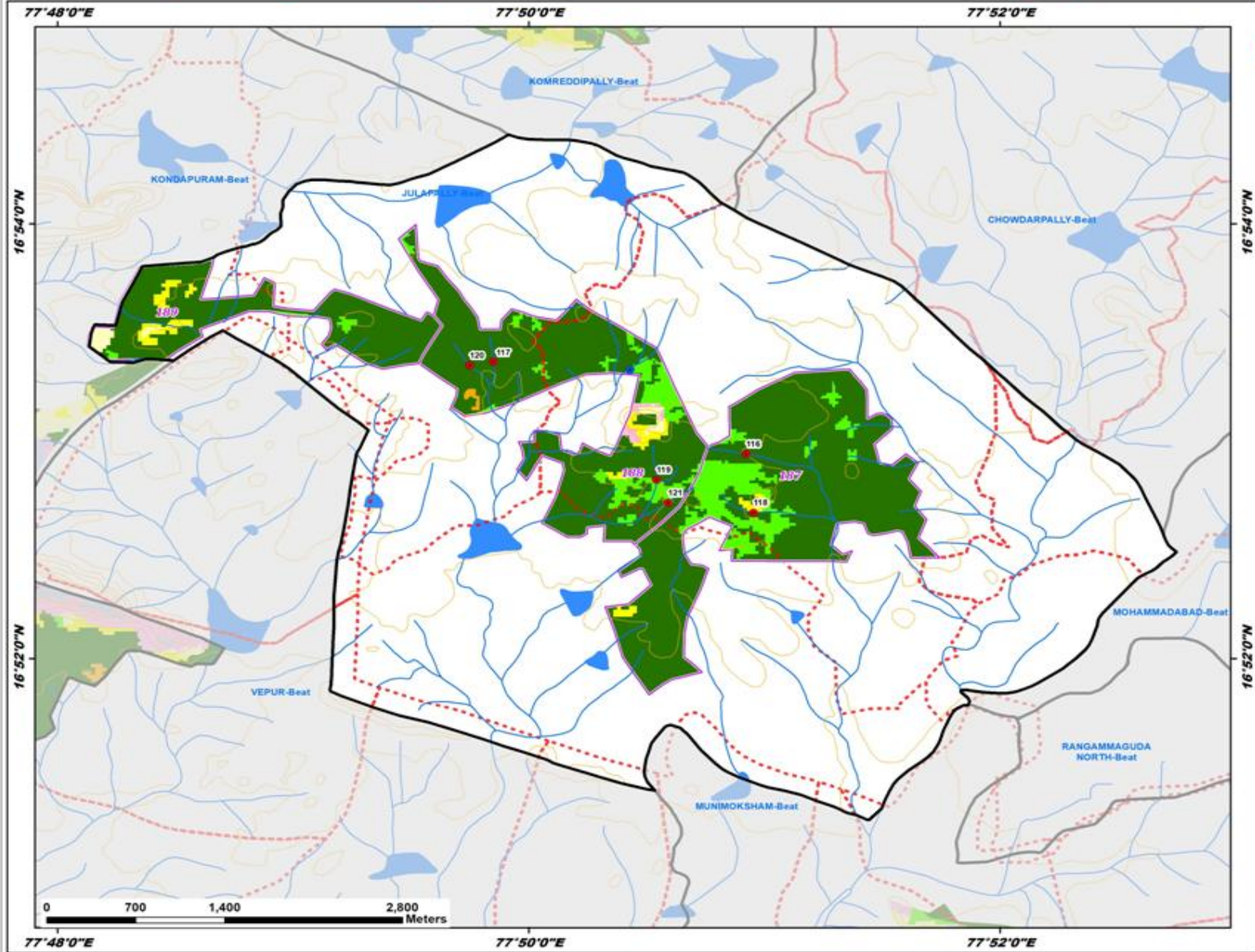
Legend

- 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 SGP - Suitable
 - Not Suitable
 - Water Body

Map Showing Suitability index for Construction of SMC Works of Julapally Beat



Division : Mahaboobnagar
Range : Mahammadabad



ID	Latitude	Longitude	Catchment Area_Ha	Priority
116	16.882354	77.848708	13.79	I
117	16.889413	77.830833	11.18	I
118	16.877858	77.849238	12.96	I
119	16.880375	77.842382	8.71	I
120	16.889151	77.829162	10.81	I
121	16.878616	77.843181	6.64	II

Legend

- Proposed_PTs
- Existing CD/PTs
- Contours
- Streams
- - - Watershed Boundary
- Compartment Boundary
- Beat_Boundary
- - - Division Boundary

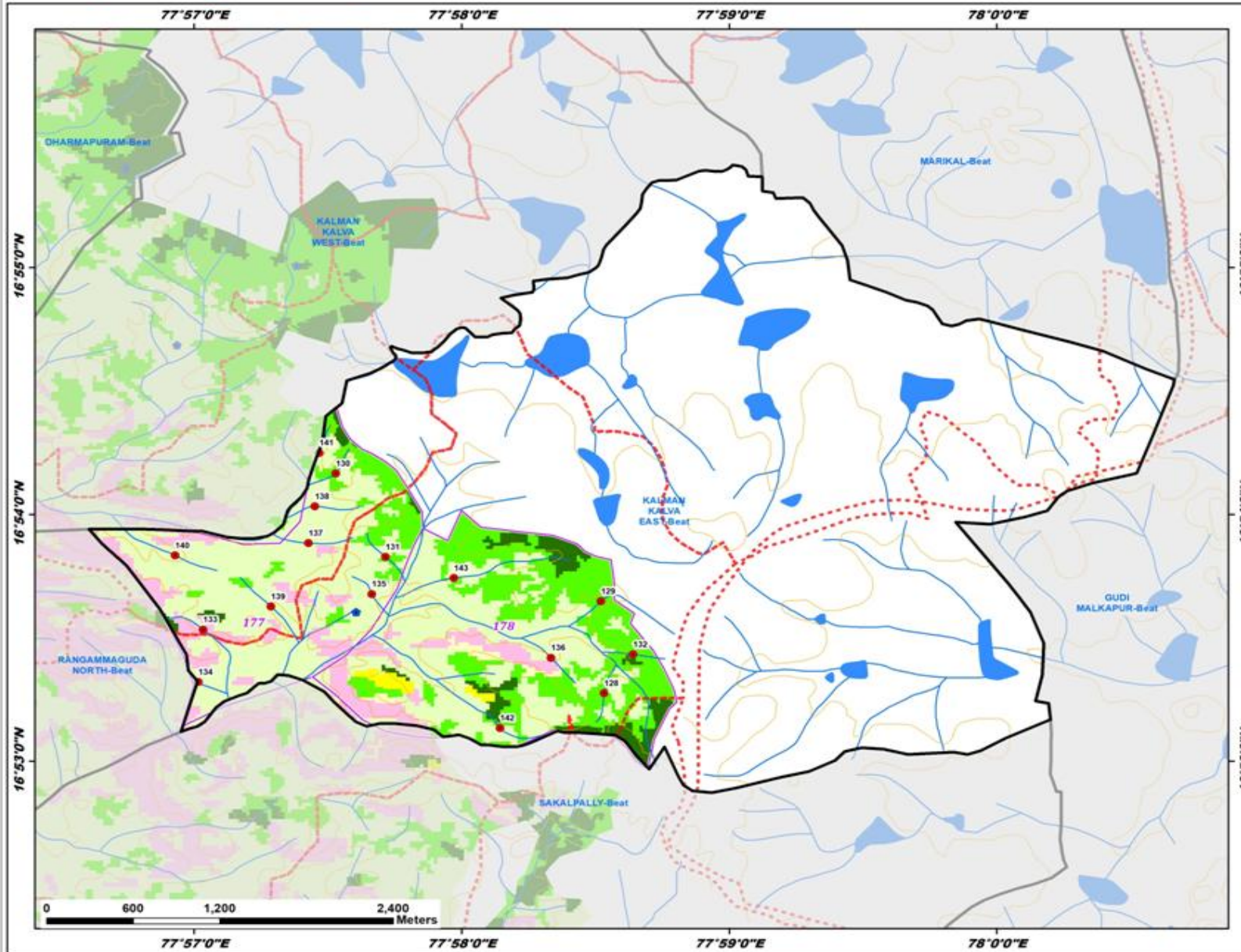
Suitability Index

- 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 Kalman Kalva East Beat



Division : Mahaboobnagar
Range : Mahammadabad



ID	Latitude	Longitude	Catchment Area_Ha	Priority
128	16.887944	77.975554	7.67	II
129	16.894145	77.975363	23.27	II
130	16.902770	77.958850	8.42	II
131	16.897134	77.961936	8.12	II
132	16.890554	77.977356	6.50	II
133	16.892232	77.950573	7.68	IV
134	16.888695	77.950289	5.81	IV
135	16.894636	77.961082	6.72	IV
136	16.890331	77.972248	9.56	IV
137	16.898073	77.957145	10.13	IV
138	16.900552	77.957537	6.45	IV
139	16.893790	77.954801	16.14	IV
140	16.897233	77.948839	10.46	IV
141	16.904164	77.957808	8.34	IV
142	16.885592	77.969079	16.89	IV
143	16.895715	77.966198	33.47	V

Legend

- Proposed_PTs
- Existing CD/PTs
- Contours
- Streams
- Watershed Boundary
- Compartment Boundary
- Beat_Boundary
- Division Boundary

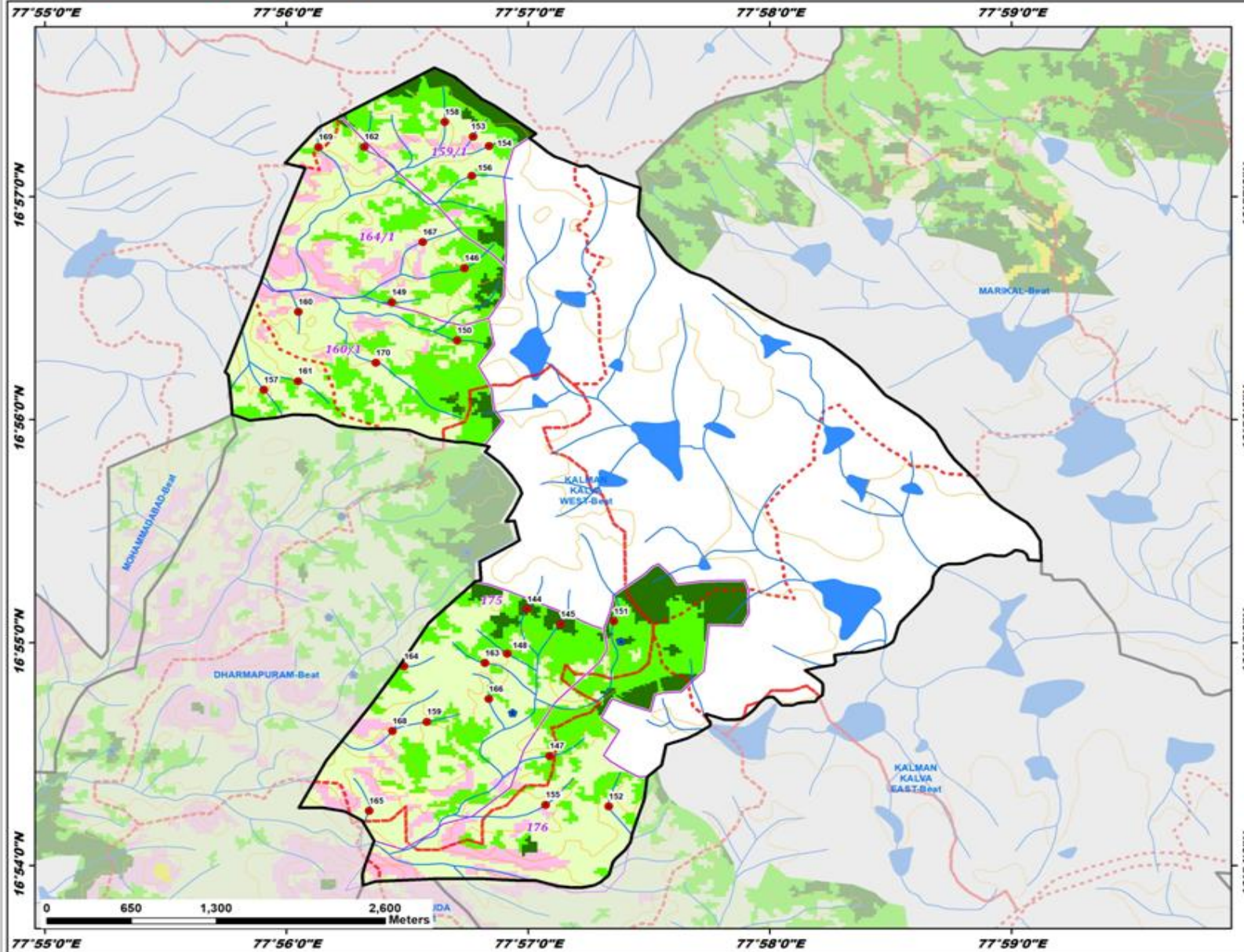
Suitability Index

- 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 Kalman Kalva West Beat



Division : Mahaboobnagar
Range : Mohammadabad



ID	Latitude	Longitude	Catchment Area_Ha	Priority
144	16.919163	77.949946	18.19	I
145	16.918047	77.952248	13.53	I
146	16.944659	77.945626	6.69	II
147	16.908201	77.951509	15.89	II
148	16.915855	77.948574	10.20	II
149	16.942105	77.940612	5.02	II
150	16.939255	77.945131	15.33	II
151	16.918264	77.955922	35.69	III
152	16.904421	77.955569	12.06	IV
153	16.954496	77.946222	8.41	IV
154	16.953781	77.947326	9.79	IV
155	16.904548	77.951207	6.16	IV
156	16.951549	77.946139	13.52	IV
157	16.935559	77.931789	18.30	IV
158	16.955576	77.944267	23.21	IV
159	16.910753	77.943038	6.35	IV
160	16.941387	77.934160	5.49	IV
161	16.936205	77.934134	11.77	IV
162	16.953720	77.938717	13.92	IV
163	16.915140	77.947029	7.14	IV
164	16.914905	77.941441	9.01	IV
165	16.904093	77.939044	14.75	IV
166	16.912454	77.947310	5.29	IV
167	16.946600	77.942742	7.79	IV
168	16.910059	77.940660	23.57	IV
169	16.953700	77.935551	12.79	IV
170	16.937588	77.939501	36.69	V

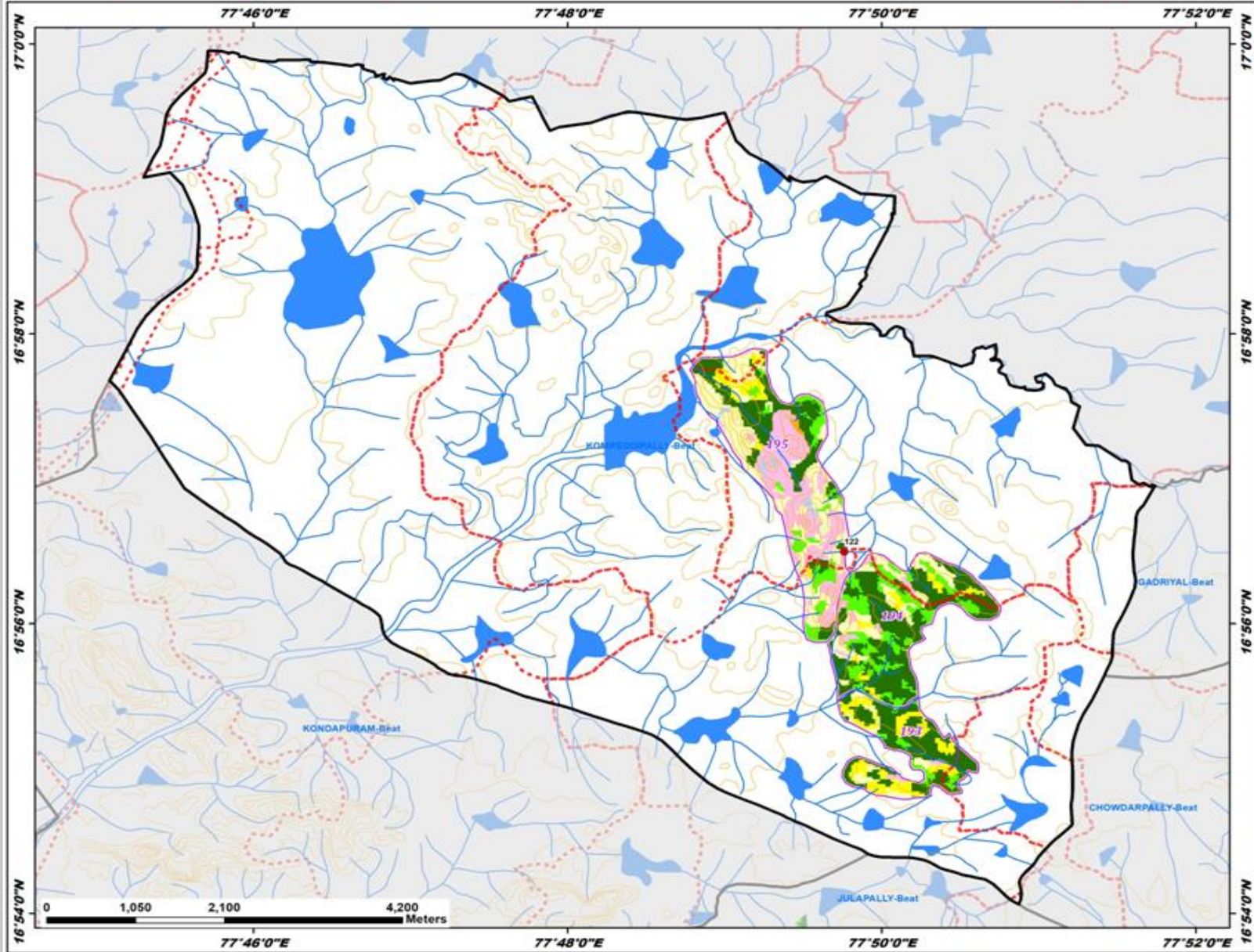
Legend

- 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 Komreddipally Beat



Division : Mahaboobnagar
Range : Mahammadabad



ID	Latitude	Longitude	Catchment Area Ha	Priority
122	16.941615	77.829405	11.29	I

Legend

- Proposed_PTs
- Existing CD/PTs
- Contours
- Streams
- Watershed Boundary
- Compartment Boundary
- Beat_Boundary
- Division Boundary

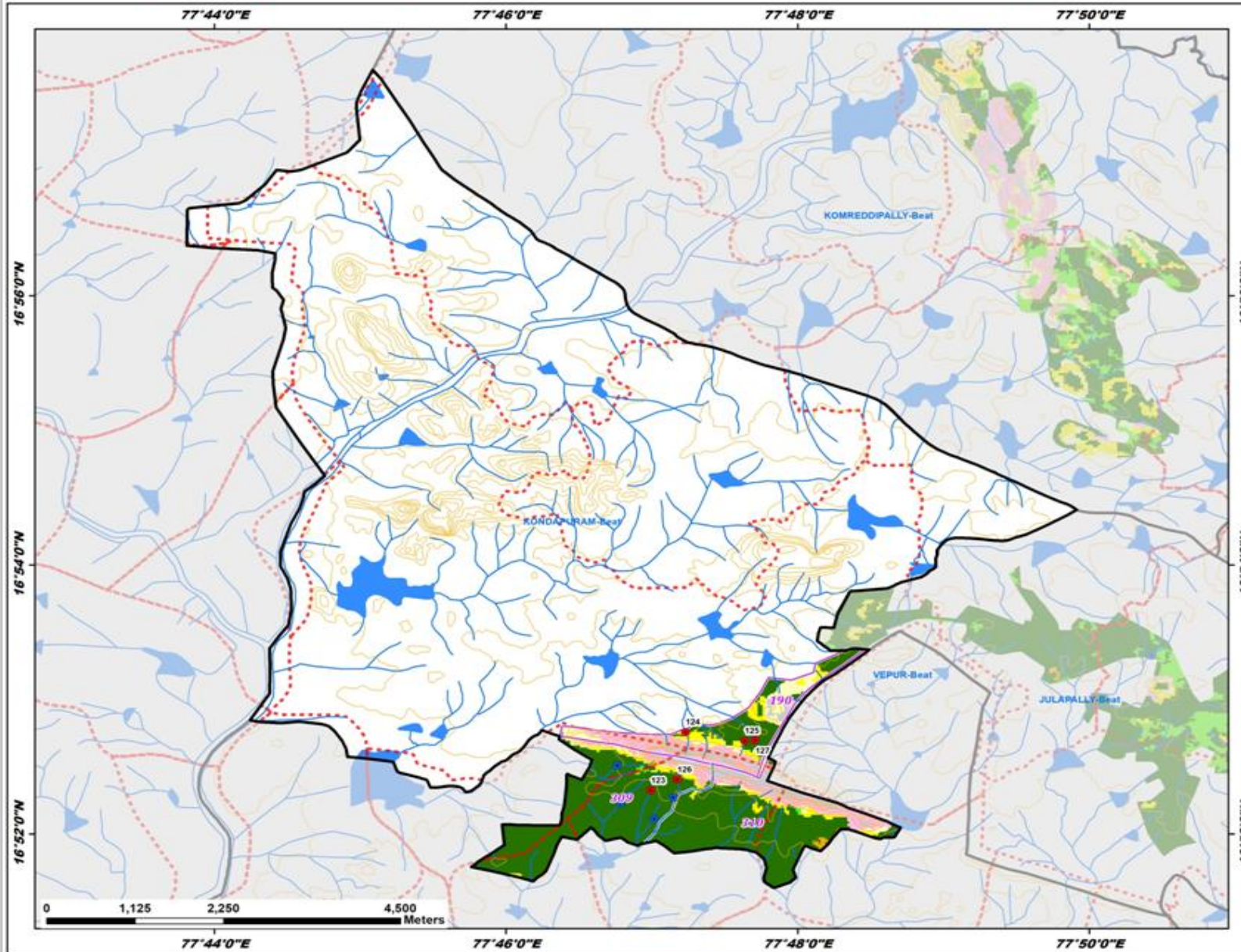
Suitability Index

- 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 Kondapuram Beat



Division : Mahaboobnagar
Range : Mahammadabad



ID	Latitude	Longitude	Catchment Area_Ha	Priority
123	16.872081	77.783260	12.01	I
124	16.879314	77.787213	5.92	I
125	16.878211	77.793975	5.01	I
126	16.873437	77.786264	6.89	I
127	16.878314	77.795187	10.12	I

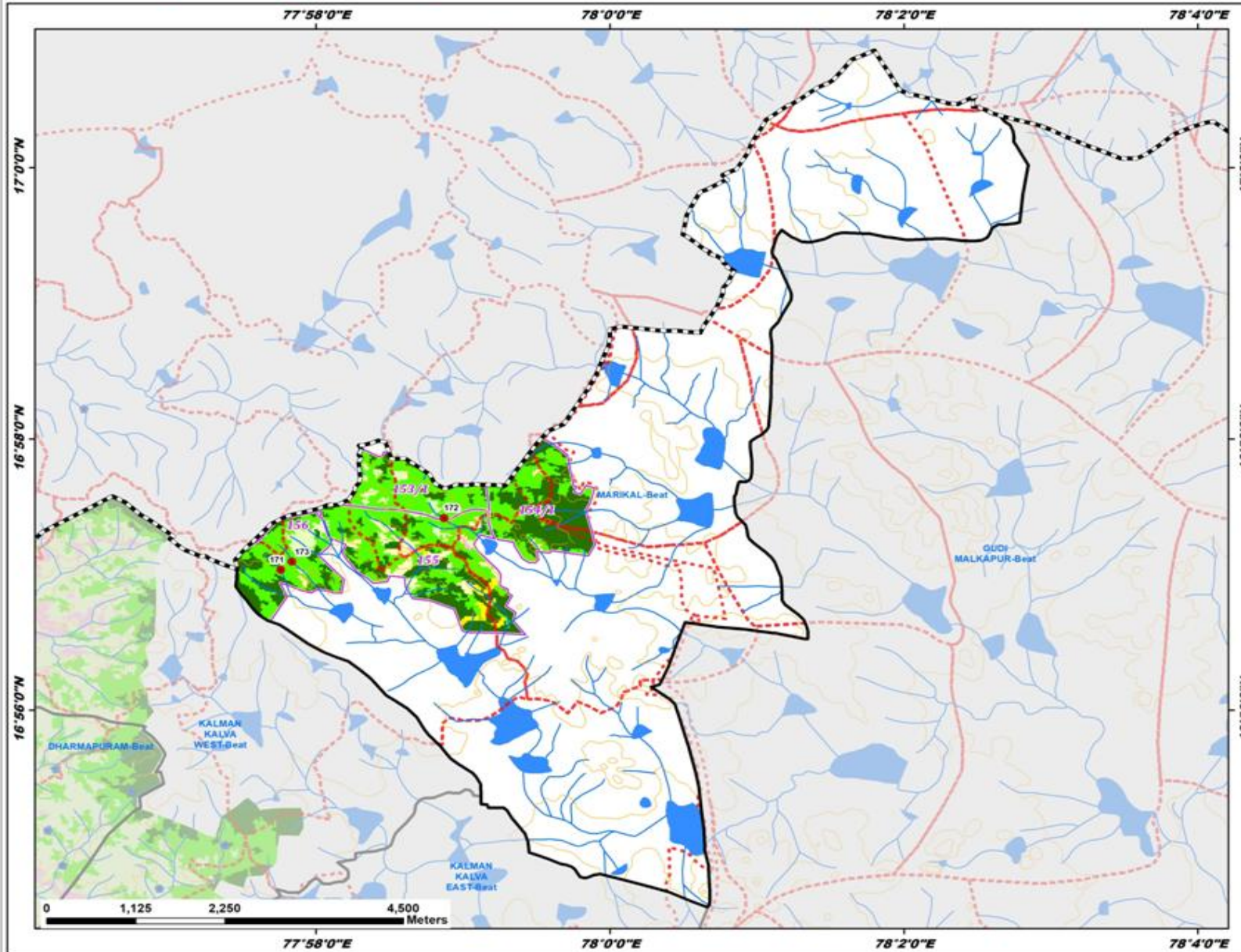
Legend

- 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 SGP - Suitable
 - Not Suitable
 - Water Body

Map Showing Suitability index for Construction of SMC Works of Marikal Beat



Division : Mahaboobnagar
Range : Mahammadabad



ID	Latitude	Longitude	Catchment Area_Ha	Priority
171	16.950595	77.962670	8.16	II
172	16.956963	77.981191	18.00	II
173	16.951626	77.963955	12.73	II

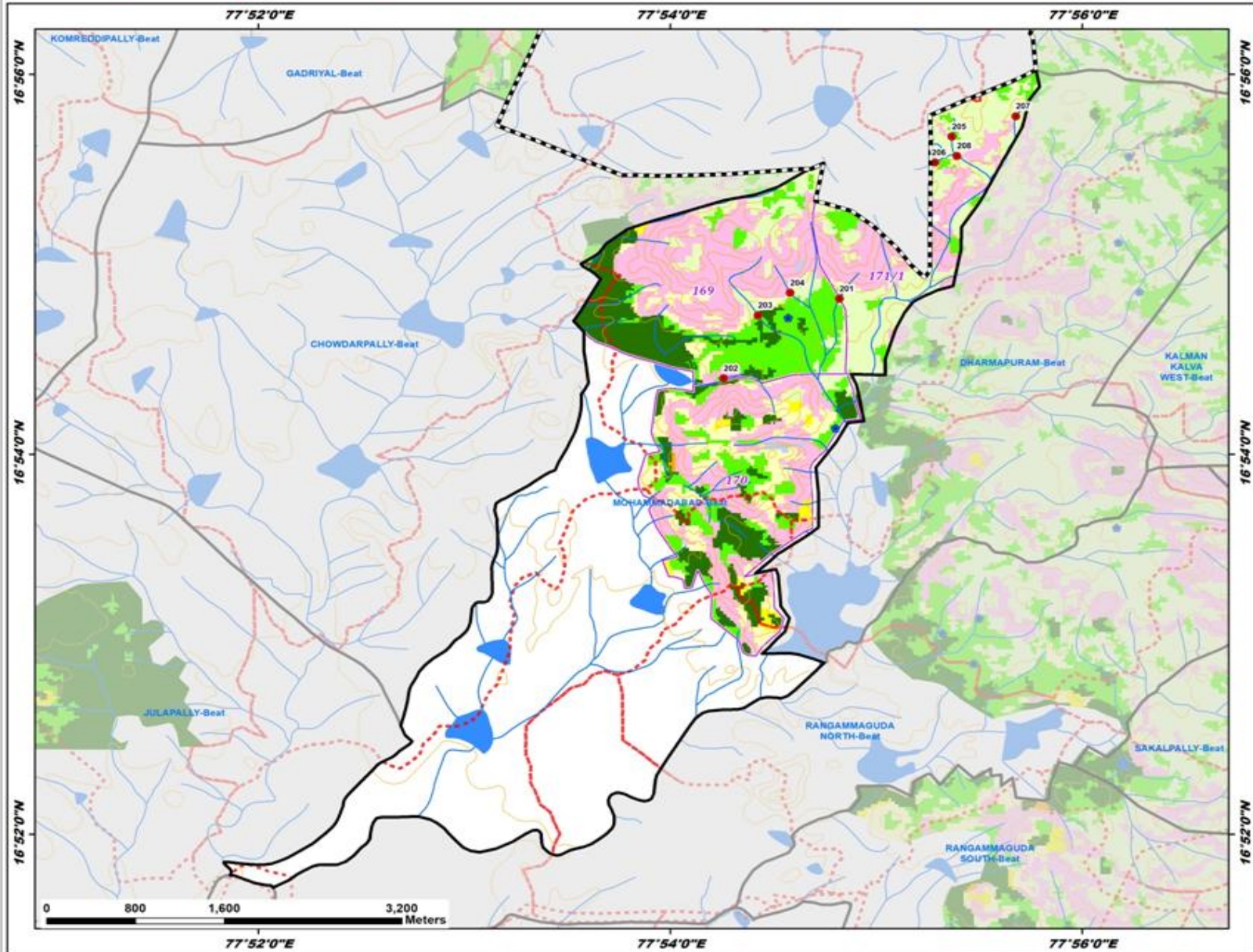
Legend

- 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 Mohammadabad Beat



Division : Mahaboobnagar
Range : Mohammadabad



ID	Latitude	Longitude	Catchment Area_Ha	Priority
201	16.9136674	77.9137312	6.54	II
202	16.906674	77.904340	26.57	III
203	16.912202	77.907108	34.36	III
204	16.914181	77.909728	6.60	IV
205	16.927879	77.922813	8.67	IV
206	16.925618	77.921448	15.55	IV
207	16.929663	77.927972	30.46	V
208	16.926188	77.923218	56.30	V

Legend

- Proposed_PTs
- ★ Existing CD/PTs
- Contours
- Streams
- Watershed Boundary
- Compartment Boundary
- Beat_Boundary
- Division Boundary

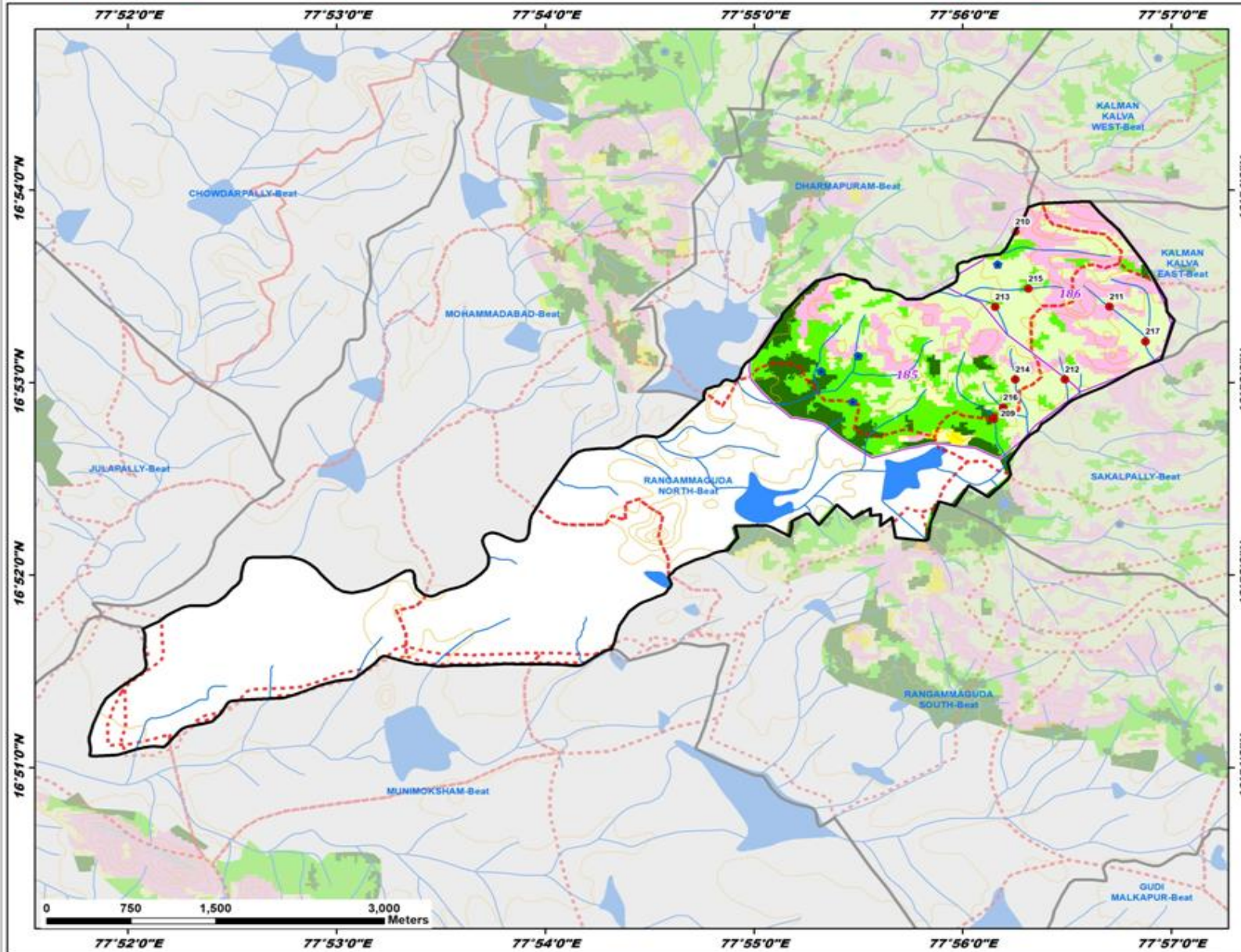
Suitability Index

- 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 Rangammaguda North Beat



Division : Mahaboobnagar
Range : Mahammadabad



ID	Latitude	Longitude	Catchment Area_Ha	Priority
209	16.880168	77.935815	22.86	I
210	16.896379	77.937555	8.02	IV
211	16.889905	77.945067	12.63	IV
212	16.883592	77.941518	20.21	IV
213	16.889873	77.935956	12.94	IV
214	16.883598	77.937557	18.45	IV
215	16.891457	77.938587	10.89	IV
216	16.881191	77.936573	5.41	IV
217	16.886889	77.947940	44.02	V

Legend

- Proposed_PTs
- Existing CD/PTs
- Contours
- Streams
- Watershed Boundary
- Compartment Boundary
- Beat_Boundary
- Division Boundary

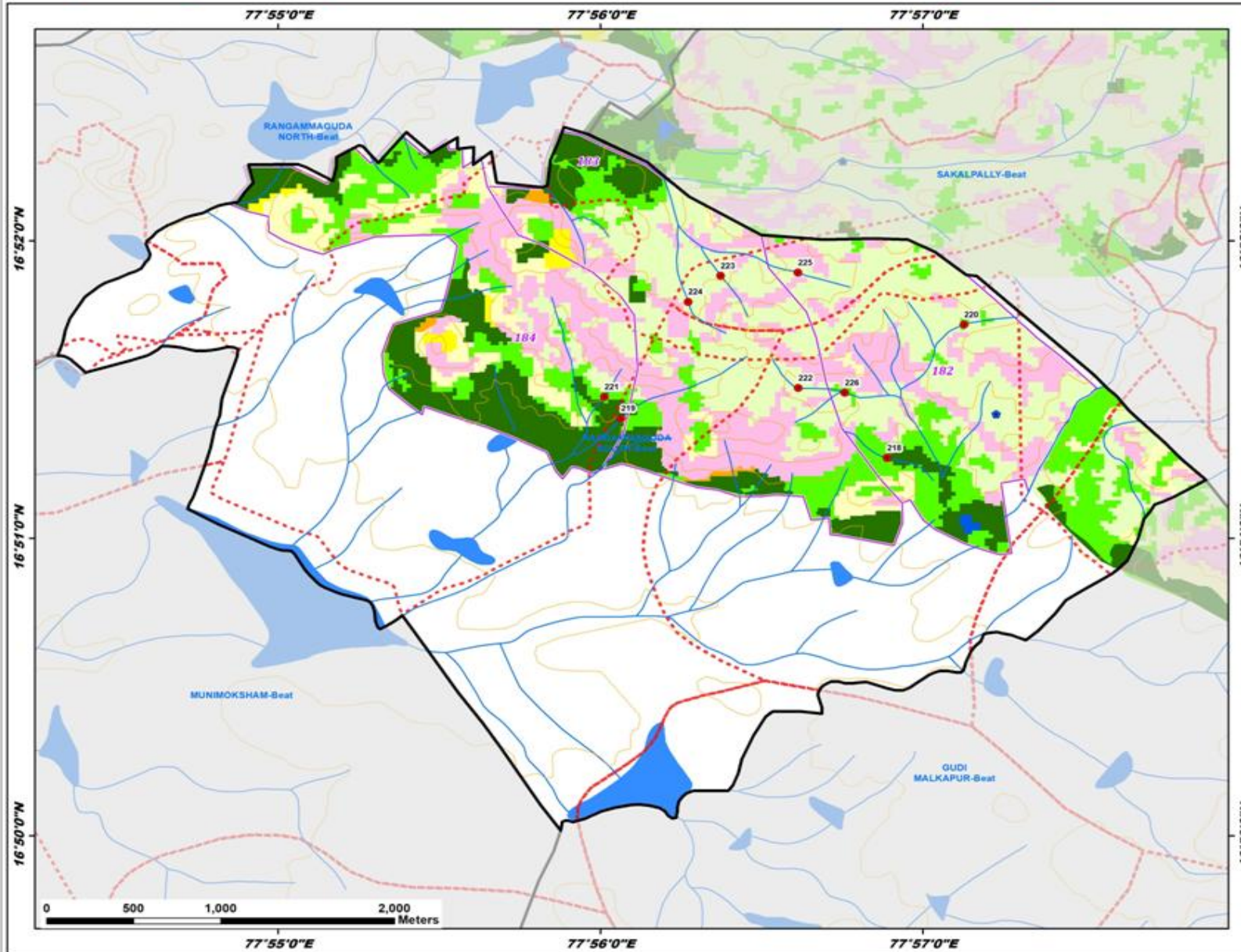
Suitability Index

- 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 Rangammaguda South Beat



Division : Mahaboobnagar
Range : Mohammadabad



ID	Latitude	Longitude	Catchment Area_Ha	Priority
218	16.854501	77.948162	10.17	I
219	16.856715	77.934411	33.54	II
220	16.861975	77.952133	12.79	II
221	16.857923	77.933553	6.68	II
222	16.858421	77.943560	7.84	IV
223	16.864706	77.939545	5.20	IV
224	16.863246	77.937877	11.78	IV
225	16.864879	77.943548	21.31	IV
226	16.858154	77.945962	27.16	V

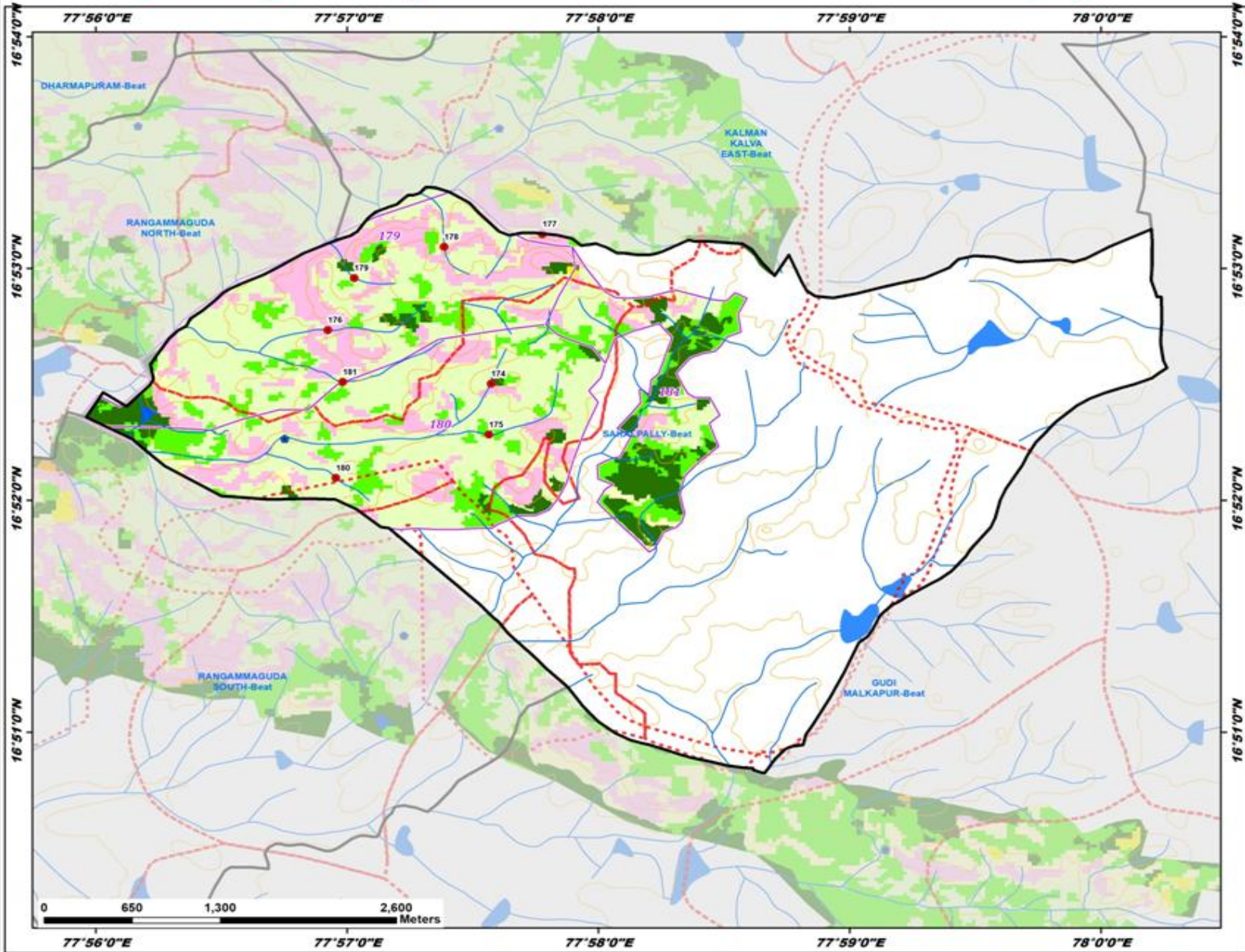
Legend

- 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 Sakalpally Beat



Division : Mahaboobnagar
Range : Mohammadabad



ID	Latitude	Longitude	Catchment Area_Ha	Priority
174	16.875059	77.959571	54.36	III
175	16.871402	77.959409	34.48	III
176	16.878919	77.948729	23.48	IV
177	16.885813	77.962970	19.89	IV
178	16.884893	77.956449	12.69	IV
179	16.882659	77.950479	9.93	IV
180	16.868295	77.949270	21.72	IV
181	16.875188	77.949723	35.90	V

Legend

- Proposed_PTs
- Existing CD/PTs
- Contours
- Streams
- Watershed Boundary
- Compartment Boundary
- Beat_Boundary
- Division Boundary

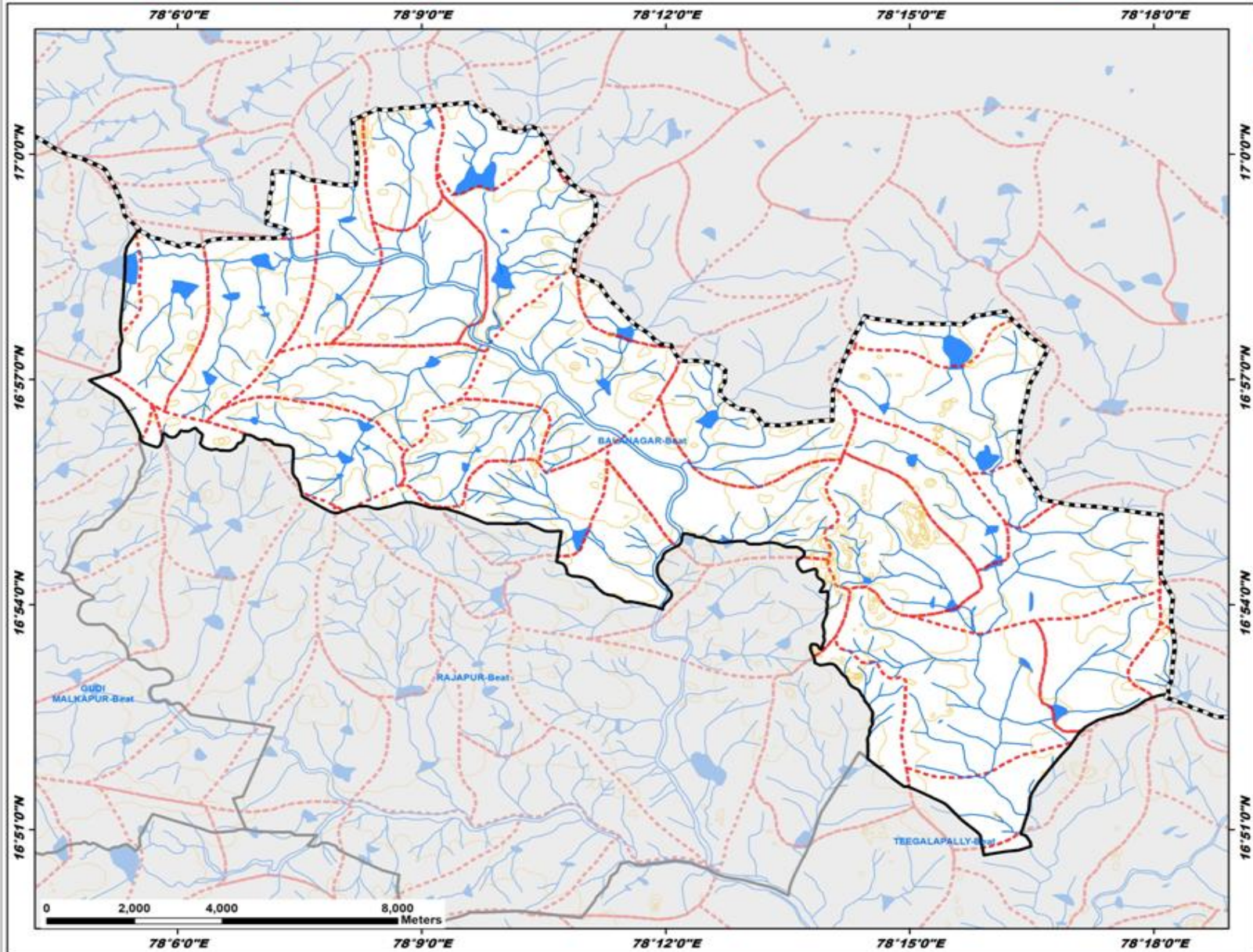
Suitability Index

- 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 Balanagar Beat



Division : Mahaboobnagar
Range : Mahammadabad



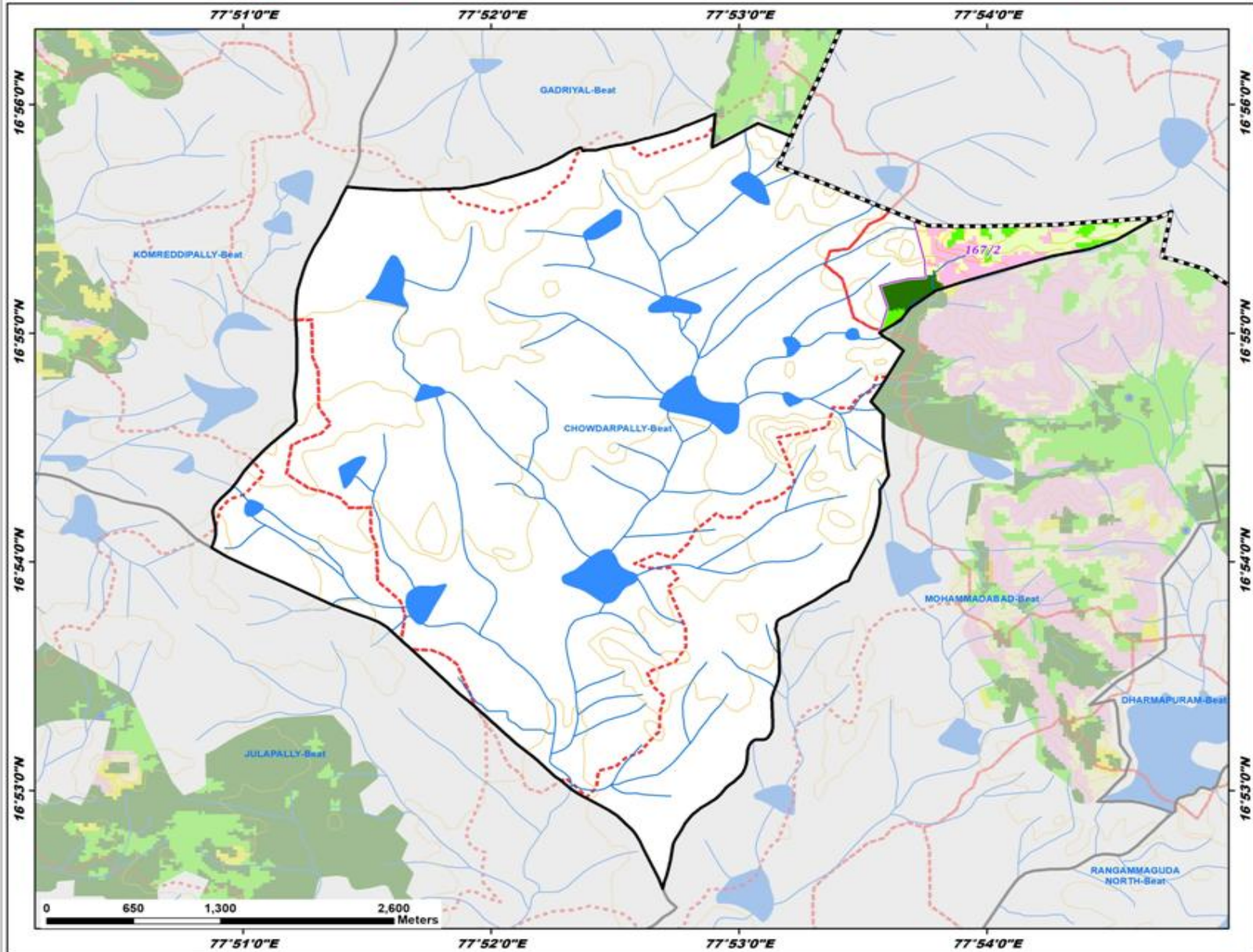
Legend

- ◆ 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 Chowdarpally Beat



Division : Mahaboobnagar
Range : Mahammadabad



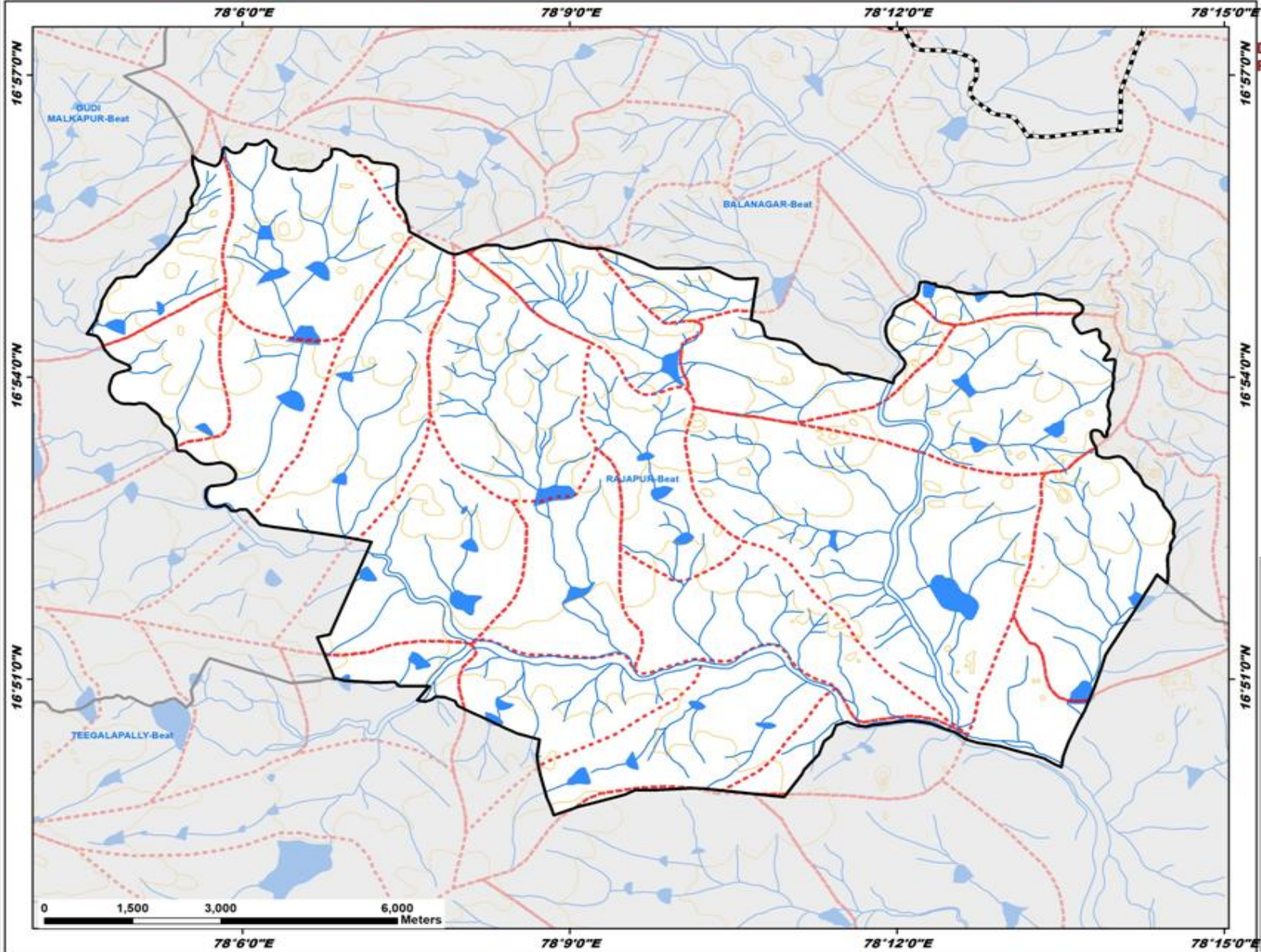
Legend

- 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 Rajapur Beat



Division : Mahaboobnagar
Range : Mahammadabad



Legend

- 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 SGP's - Suitable
 - Not Suitable
 - Water Body