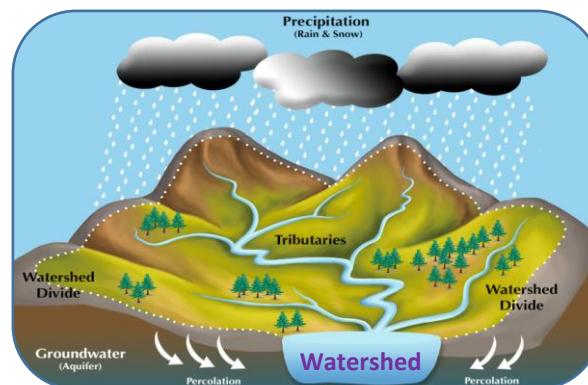


Government of Telangana – Forest Department



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



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

Circle: Bhadradi
District: Mahabubabad
Division: Mahabubabad

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

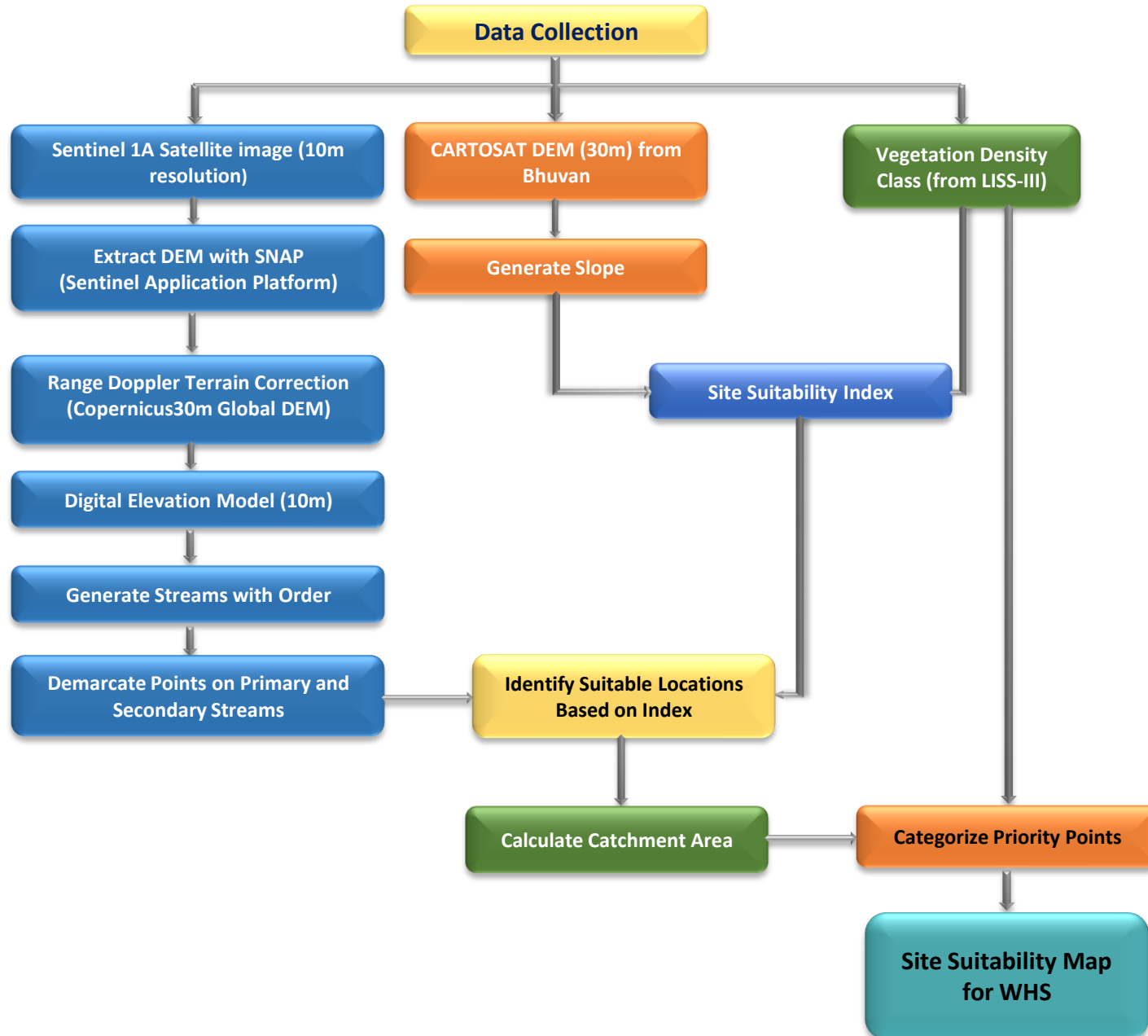
METHODOLOGY

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.



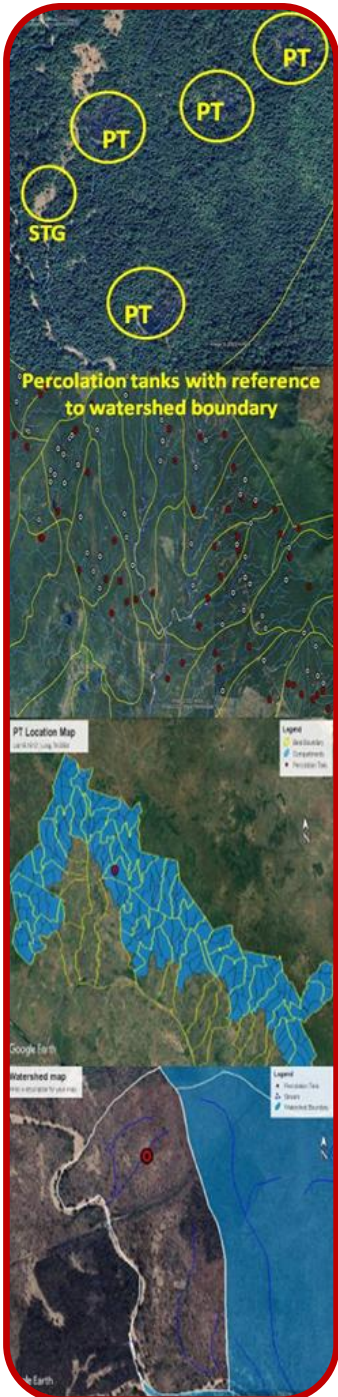
Suitability criteria for Check-Dams and Percolation Tanks (SITE SUITABILITY INDEX)

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



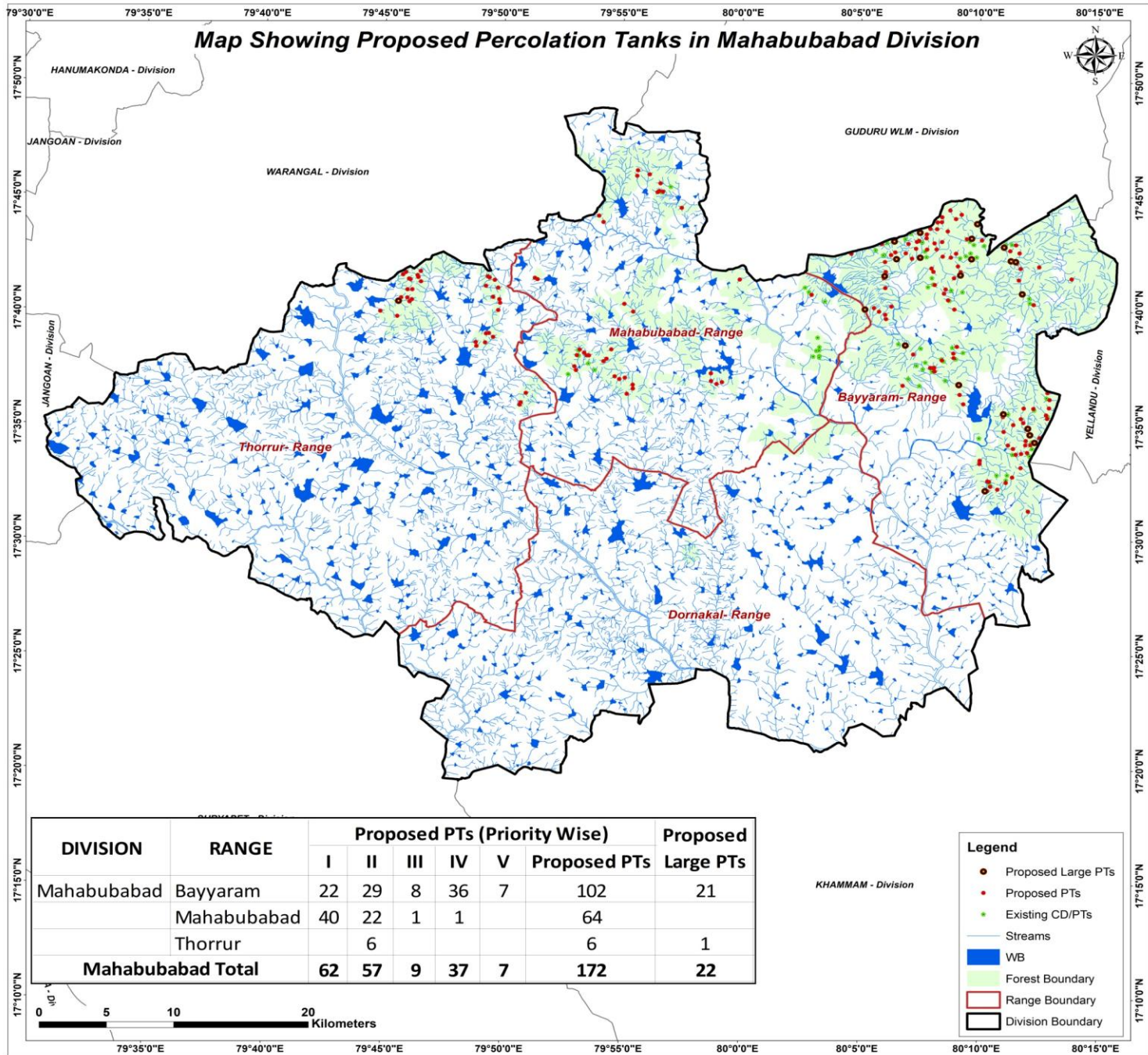


PRIORITY CLASSES FOR PERCOLATION TANK

Priority	Catchment Area(Ha)	Density Class
1	0-25 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 Mahabubabad Division

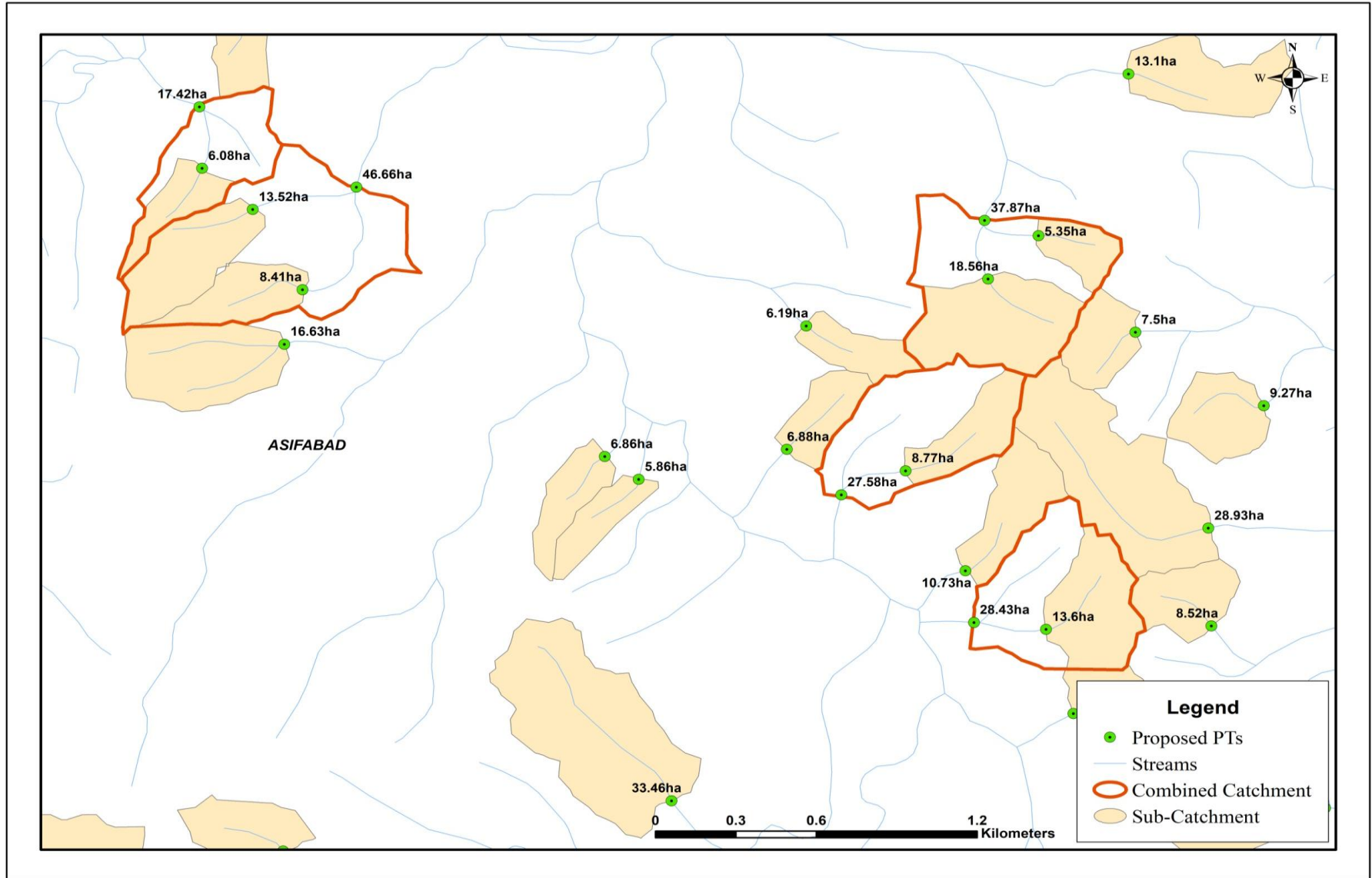


DIVISION	RANGE	Proposed PTs (Priority Wise)					Proposed PTs	Proposed Large PTs
		I	II	III	IV	V		
Mahabubabad	Bayyaram	22	29	8	36	7	102	21
	Mahabubabad	40	22	1	1		64	
	Thorrur		6				6	1
Mahabubabad Total		62	57	9	37	7	172	22

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



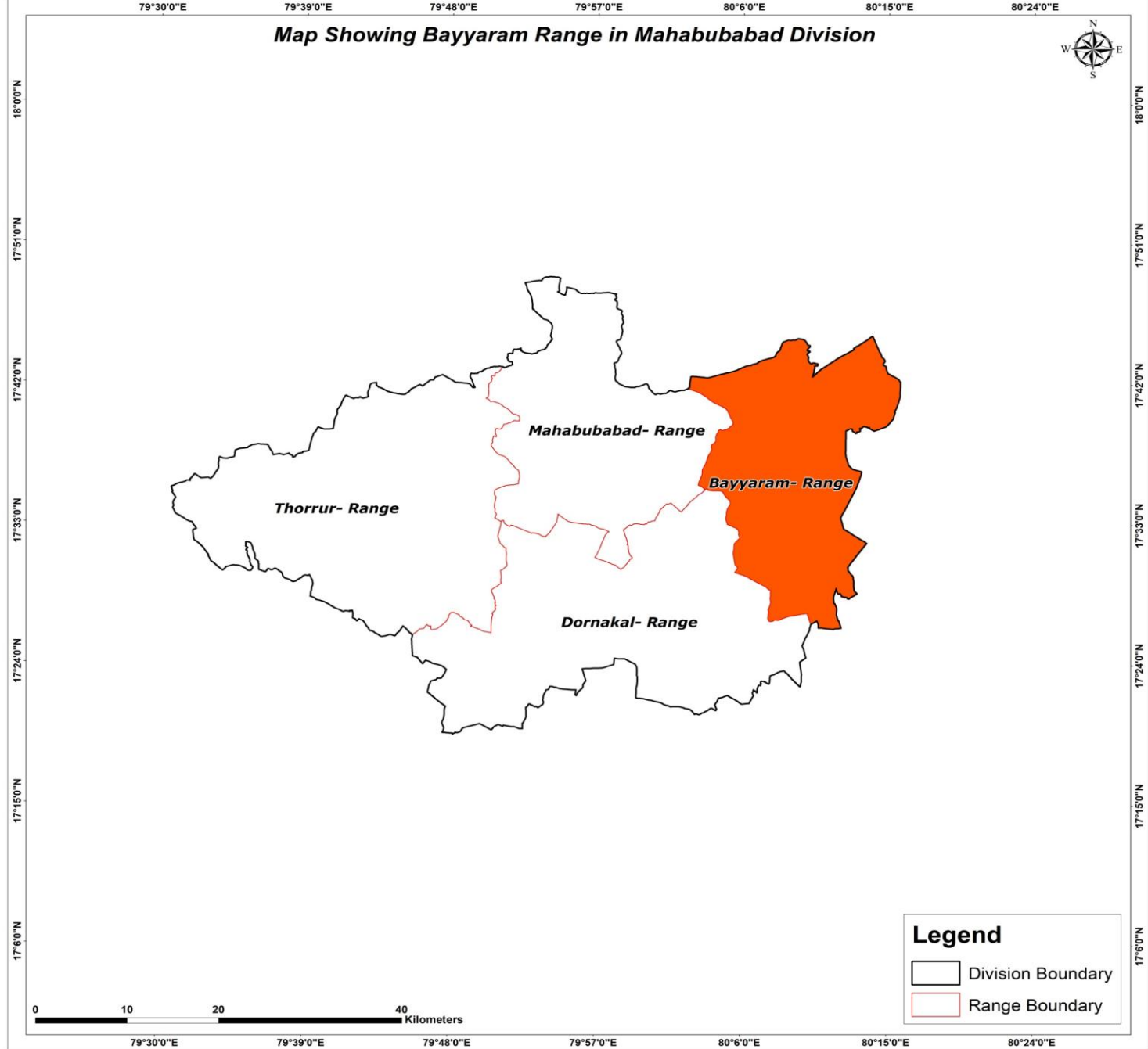
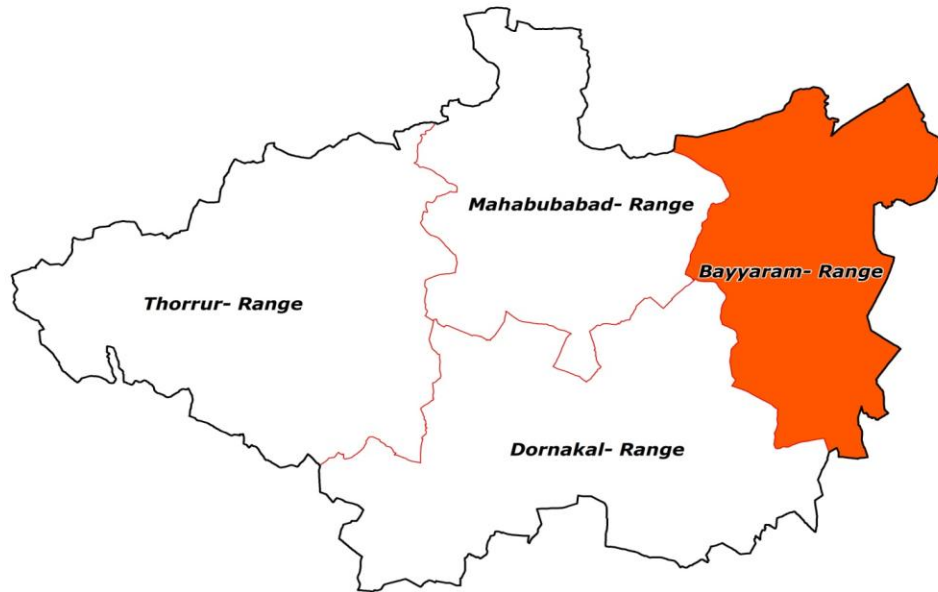
CATCHMENT AREA



Sample Catchment Map



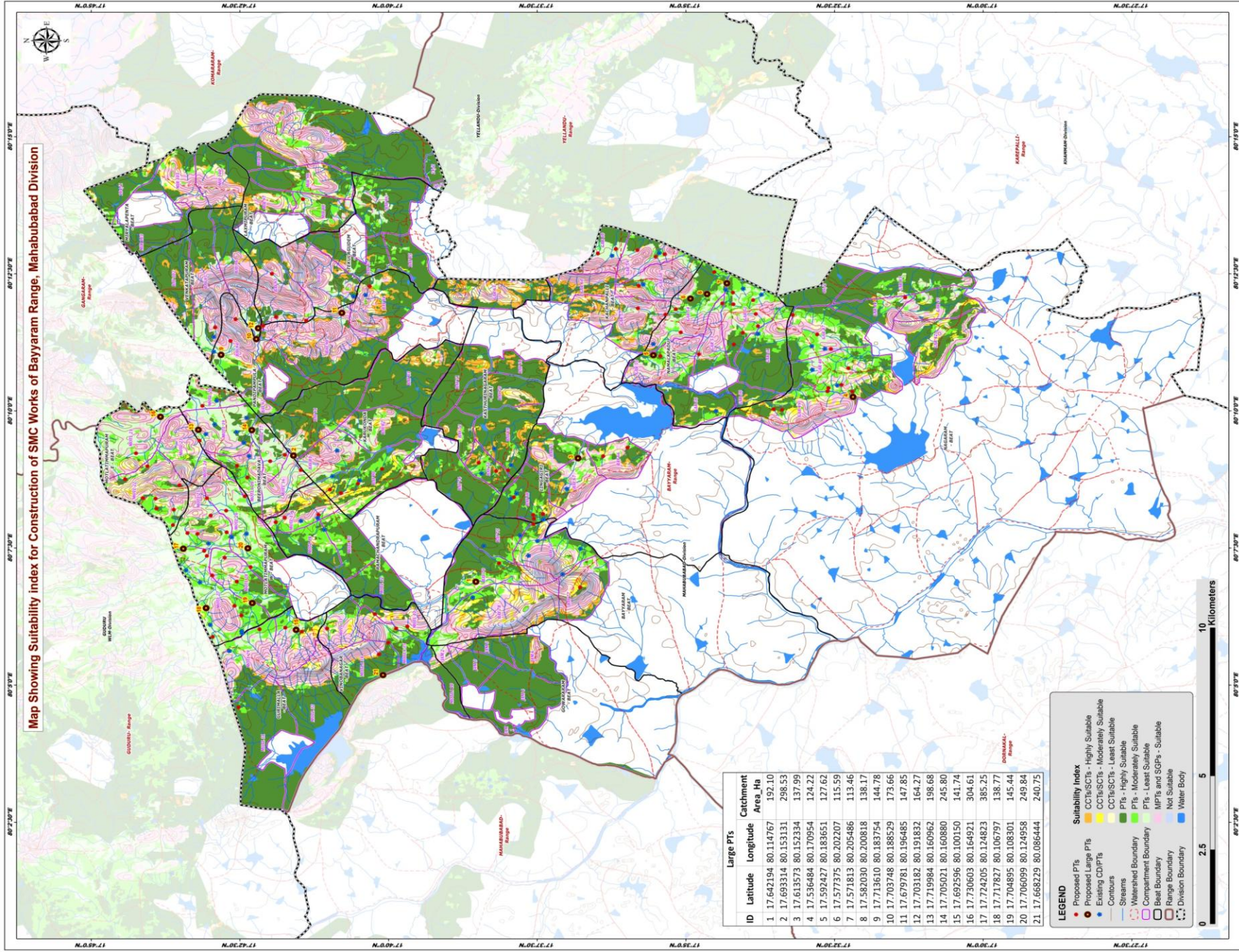
Map Showing Bayyaram Range in Mahabubabad Division



Legend

- Division Boundary
- Range Boundary

Map Showing Suitability Index for Construction of SMC Works of Bayyaram Range, Mahabubabad Division

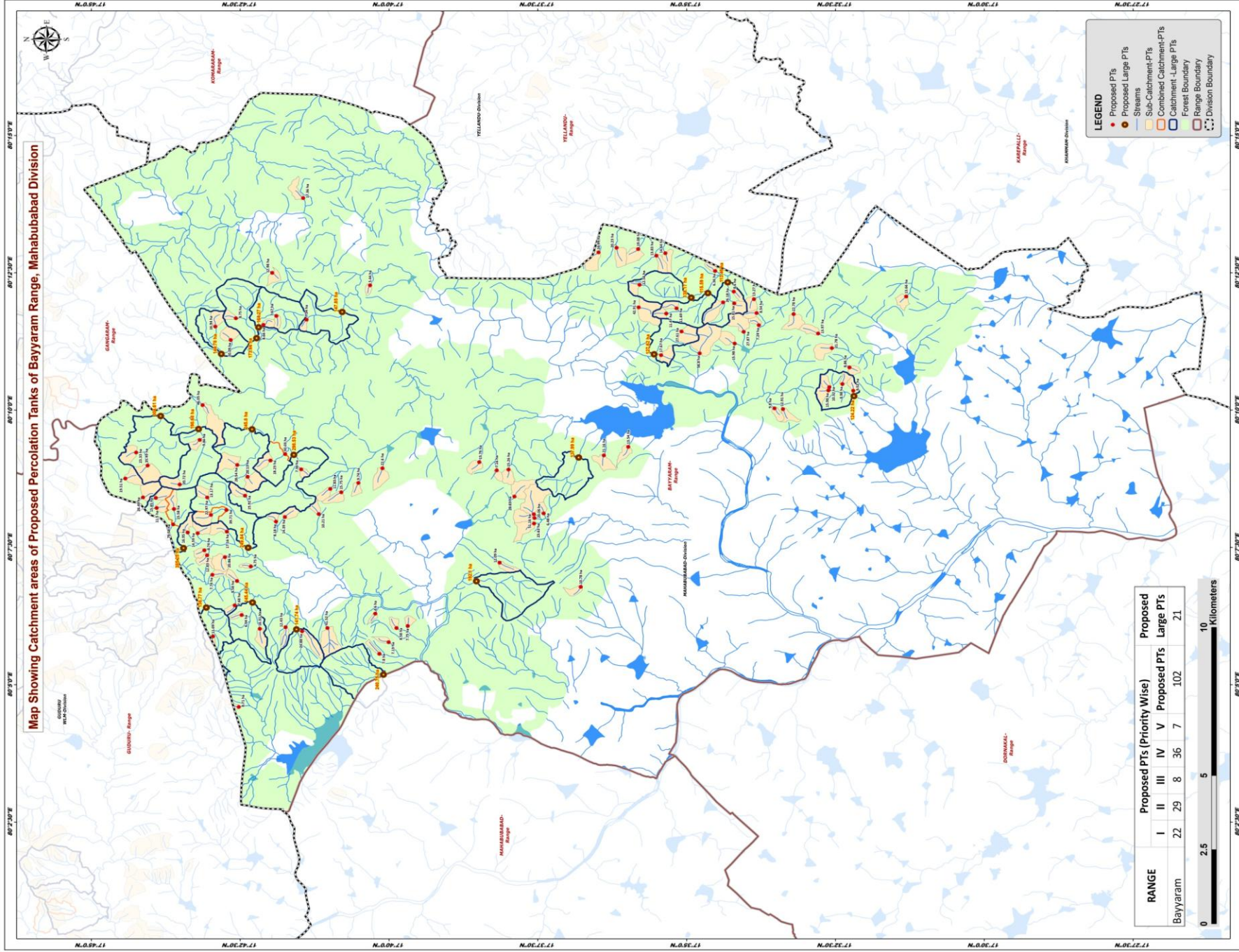


ID	Latitude	Longitude	Catchment Area Ha
1	17.642194	80.114767	192.10
2	17.693314	80.153131	298.53
3	17.613573	80.152334	137.99
4	17.536484	80.170954	124.22
5	17.592427	80.183651	127.62
6	17.573735	80.202207	115.59
7	17.571813	80.205486	113.46
8	17.582030	80.200818	138.17
9	17.713610	80.183754	144.78
10	17.703748	80.188529	173.66
11	17.699781	80.196485	147.85
12	17.703182	80.191832	164.27
13	17.719984	80.160962	198.68
14	17.705021	80.160880	245.80
15	17.692596	80.100150	141.74
16	17.730603	80.164921	304.61
17	17.742005	80.124823	385.25
18	17.717827	80.106797	138.77
19	17.704895	80.108301	145.44
20	17.706069	80.124958	249.84
21	17.688229	80.086444	240.75

- LEGEND**
- Proposed PTs
 - Existing CDPTs
 - Contours
 - Streams
 - Watershed Boundary
 - Catchment Boundary
 - Range Boundary
 - Division Boundary
 - Water Body
- 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 SCPs - Suitable
 - Not Suitable
 - Water Body



Map Showing Catchment areas of Proposed Percolation Tanks of Bayyaram Range, Mahabubabad Division



RANGE	Proposed PTs (Priority Wise)					Proposed Large PTs
	I	II	III	IV	V	
Bayyaram	22	29	8	36	7	102
						21



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

Beat wise Abstract of Proposed PT's – Bayyaram Range

S. No.	Beat	Proposed PT's
1	BAYYARAM	3
2	BEERONIMADAVA	7
3	GURIMALLA	4
4	KACHANPALLI	8
5	KARUKONDA	4
6	KASTHURINAGARAM	3
7	LAXMIPURAM	1
8	LINGAGIRI	6
9	MOTLATIMMAPURAM E	9
10	MOTLATIMMAPURAM W	16
11	NAGARAM	11
12	NAMALAPADU	13
13	PANDIPAMPULA	4
14	RAMACHANDRAPURAM	3
15	TEKULAGUDEM	3
16	VENKATAPURAM	1
17	VINOBANAGAR	6
	Total	102

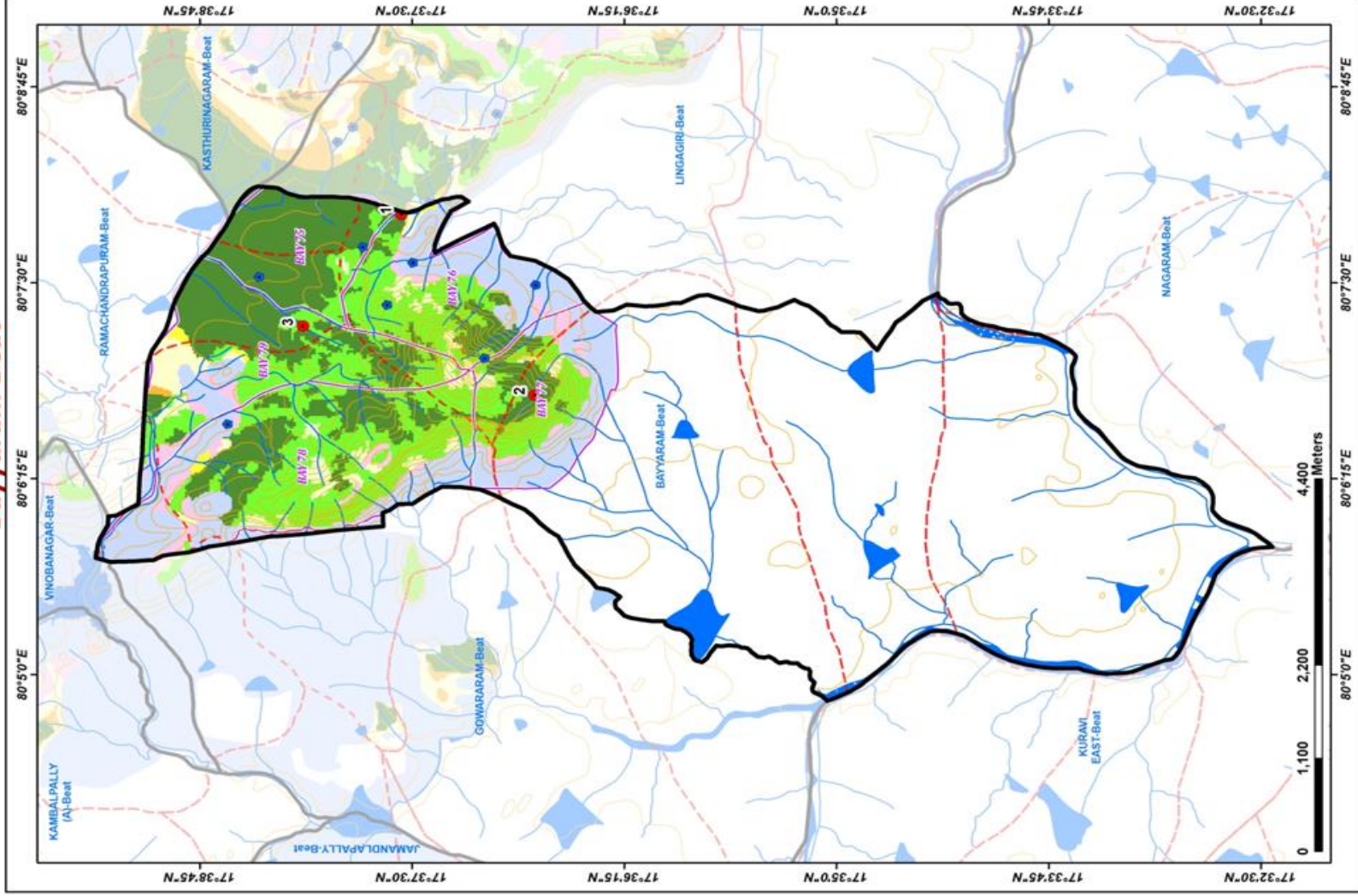
List of Proposed PTs – Bayyaram Range

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	17.626034	80.132303	23.63	I	BAYYARAM	41	17.573099	80.199397	26.18	III	NAMALAPADU	81	17.720261	80.129332	14.59	II	MOTLATIMMAPURAM W
2	17.612960	80.113073	10.78	I	BAYYARAM	42	17.570135	80.202679	8.60	IV	NAMALAPADU	82	17.709220	80.114844	8.58	II	MOTLATIMMAPURAM W
3	17.635697	80.120415	12.09	II	BAYYARAM	43	17.563724	80.196173	8.54	IV	NAMALAPADU	83	17.717579	80.140190	13.17	II	MOTLATIMMAPURAM W
4	17.683101	80.142809	11.83	I	KARUKONDA	44	17.564474	80.200389	13.27	IV	NAMALAPADU	84	17.716128	80.116716	7.74	IV	MOTLATIMMAPURAM W
5	17.680035	80.141763	15.75	I	KARUKONDA	45	17.569988	80.199100	15.81	IV	NAMALAPADU	85	17.723039	80.129567	16.95	IV	MOTLATIMMAPURAM W
6	17.668520	80.149068	22.60	I	KARUKONDA	46	17.563096	80.192476	7.24	IV	NAMALAPADU	86	17.706979	80.140730	15.92	IV	MOTLATIMMAPURAM W
7	17.675247	80.144608	9.74	II	KARUKONDA	47	17.579689	80.183944	58.80	V	NAMALAPADU	87	17.705354	80.119254	4.75	IV	MOTLATIMMAPURAM W
8	17.633191	80.148656	15.26	I	KASTHURINAGARAM	48	17.584744	80.190586	27.61	V	NAMALAPADU	88	17.716538	80.134912	22.97	IV	MOTLATIMMAPURAM W
9	17.641371	80.150916	13.76	II	KASTHURINAGARAM	49	17.690696	80.231043	17.36	II	LAXMIPURAM	89	17.712050	80.129817	17.16	IV	MOTLATIMMAPURAM W
10	17.636494	80.148437	7.16	II	KASTHURINAGARAM	50	17.671954	80.204598	5.44	I	PANDIPAMPULA	90	17.712597	80.122091	20.86	IV	MOTLATIMMAPURAM W
11	17.599670	80.155572	13.54	I	LINGAGIRI	51	17.701845	80.192573	8.66	I	PANDIPAMPULA	91	17.718389	80.124153	8.74	IV	MOTLATIMMAPURAM W
12	17.606500	80.152952	21.16	I	LINGAGIRI	52	17.711010	80.187976	20.09	IV	PANDIPAMPULA	92	17.717607	80.122649	12.83	IV	MOTLATIMMAPURAM W
13	17.623348	80.135378	6.48	I	LINGAGIRI	53	17.709548	80.194568	8.75	IV	PANDIPAMPULA	93	17.712196	80.136408	39.71	V	MOTLATIMMAPURAM W
14	17.625914	80.133929	20.06	I	LINGAGIRI	54	17.699378	80.208374	12.98	IV	TEKULAGUEDEM	94	17.695832	80.134251	14.39	II	RAMACHANDRAPURAM
15	17.631541	80.140472	28.83	III	LINGAGIRI	55	17.698216	80.195294	7.67	IV	TEKULAGUEDEM	95	17.686322	80.135169	10.21	II	RAMACHANDRAPURAM
16	17.626099	80.135105	51.16	III	LINGAGIRI	56	17.689782	80.194151	7.34	IV	TEKULAGUEDEM	96	17.698326	80.132869	8.18	IV	RAMACHANDRAPURAM
17	17.589034	80.196021	11.47	II	KACHANPALLI	57	17.715302	80.192048	16.94	IV	VENKATAPURAM	97	17.669349	80.092744	7.80	I	VINOBANAGAR
18	17.602944	80.215966	20.23	II	KACHANPALLI	58	17.706282	80.146451	28.13	II	BEERONIMADAVA	98	17.666766	80.096282	7.13	I	VINOBANAGAR
19	17.596886	80.215594	19.08	IV	KACHANPALLI	59	17.709153	80.150065	28.54	III	BEERONIMADAVA	99	17.661414	80.101203	7.75	II	VINOBANAGAR
20	17.596500	80.204743	12.56	IV	KACHANPALLI	60	17.719682	80.157664	9.46	IV	BEERONIMADAVA	100	17.670499	80.104937	4.60	II	VINOBANAGAR
21	17.591814	80.213576	13.83	IV	KACHANPALLI	61	17.699878	80.151427	18.23	IV	BEERONIMADAVA	101	17.683897	80.100578	41.52	III	VINOBANAGAR
22	17.607981	80.214571	24.99	IV	KACHANPALLI	62	17.691257	80.148731	7.36	IV	BEERONIMADAVA	102	17.664544	80.100589	8.58	IV	VINOBANAGAR
23	17.589271	80.214318	14.64	IV	KACHANPALLI	63	17.718852	80.168228	46.05	V	BEERONIMADAVA						
24	17.596772	80.197884	42.91	V	KACHANPALLI	64	17.695740	80.153347	92.03	V	BEERONIMADAVA						
25	17.536654	80.172579	9.52	I	NAGARAM	65	17.690998	80.099598	24.88	I	GURIMALLA						
26	17.556335	80.167008	12.91	I	NAGARAM	66	17.708745	80.076624	8.71	I	GURIMALLA						
27	17.558742	80.167244	9.80	I	NAGARAM	67	17.702834	80.100346	16.31	II	GURIMALLA						
28	17.546499	80.189940	13.97	II	NAGARAM	68	17.695622	80.100851	12.43	IV	GURIMALLA						
29	17.537721	80.179653	8.86	II	NAGARAM	69	17.740507	80.145936	19.51	I	MOTLATIMMAPURAM E						
30	17.539714	80.174626	8.98	II	NAGARAM	70	17.725274	80.144123	20.72	I	MOTLATIMMAPURAM E						
31	17.553353	80.195841	22.78	II	NAGARAM	71	17.731977	80.140058	15.85	II	MOTLATIMMAPURAM E						
32	17.543382	80.173681	10.32	II	NAGARAM	72	17.731747	80.137017	11.50	II	MOTLATIMMAPURAM E						
33	17.542667	80.185516	21.78	IV	NAGARAM	73	17.735573	80.140224	26.49	III	MOTLATIMMAPURAM E						
34	17.521839	80.201197	13.66	IV	NAGARAM	74	17.734273	80.149895	35.49	III	MOTLATIMMAPURAM E						
35	17.543615	80.172663	15.98	IV	NAGARAM	75	17.737455	80.153840	23.33	IV	MOTLATIMMAPURAM E						
36	17.569875	80.186925	15.98	I	NAMALAPADU	76	17.726890	80.136686	15.58	IV	MOTLATIMMAPURAM E						
37	17.575326	80.208927	6.36	II	NAMALAPADU	77	17.727116	80.132045	79.58	V	MOTLATIMMAPURAM E						
38	17.586140	80.197577	11.69	II	NAMALAPADU	78	17.715932	80.098044	11.09	II	MOTLATIMMAPURAM W						
39	17.590494	80.183389	17.67	II	NAMALAPADU	79	17.707927	80.104532	6.04	II	MOTLATIMMAPURAM W						
40	17.567354	80.190476	27.87	III	NAMALAPADU	80	17.709864	80.107461	7.68	II	MOTLATIMMAPURAM W						

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



Division : Mahabubabad
Range : Bayyaram



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
1	17.62604	80.13283	23.63	I
2	17.61296	80.13073	10.78	I
3	17.63697	80.12045	12.09	II

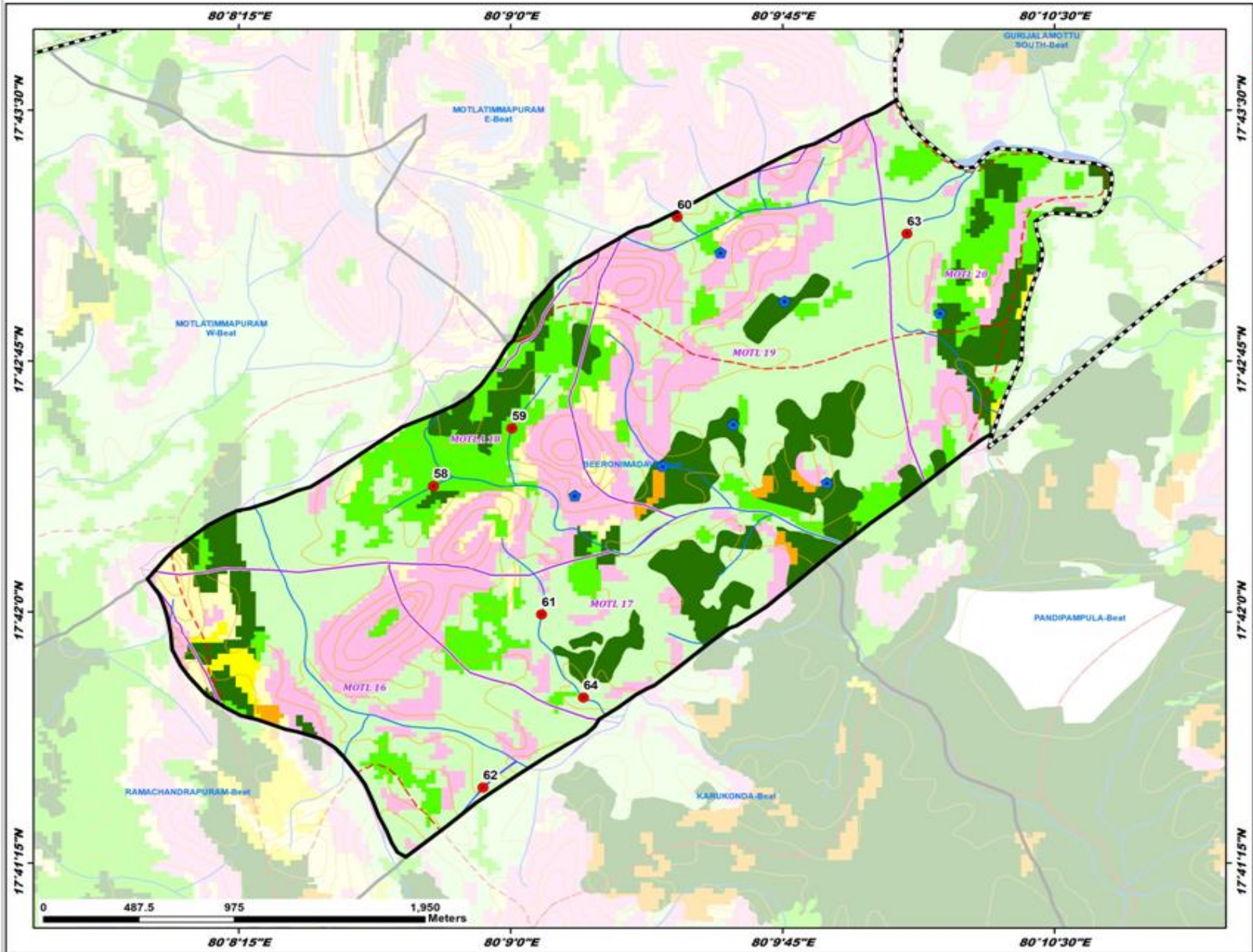
LEGEND

- 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 Beeronimadava Beat



Division : Mahabubabad
Range : Bayyaram



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
58	17.706282	80.146451	28.13	II
59	17.709153	80.150065	28.54	III
60	17.719682	80.157664	9.46	IV
61	17.699878	80.153427	18.23	IV
62	17.691257	80.148731	7.36	IV
63	17.718852	80.168228	46.05	V
64	17.695740	80.153347	92.03	V

Legend

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

Suitability Index

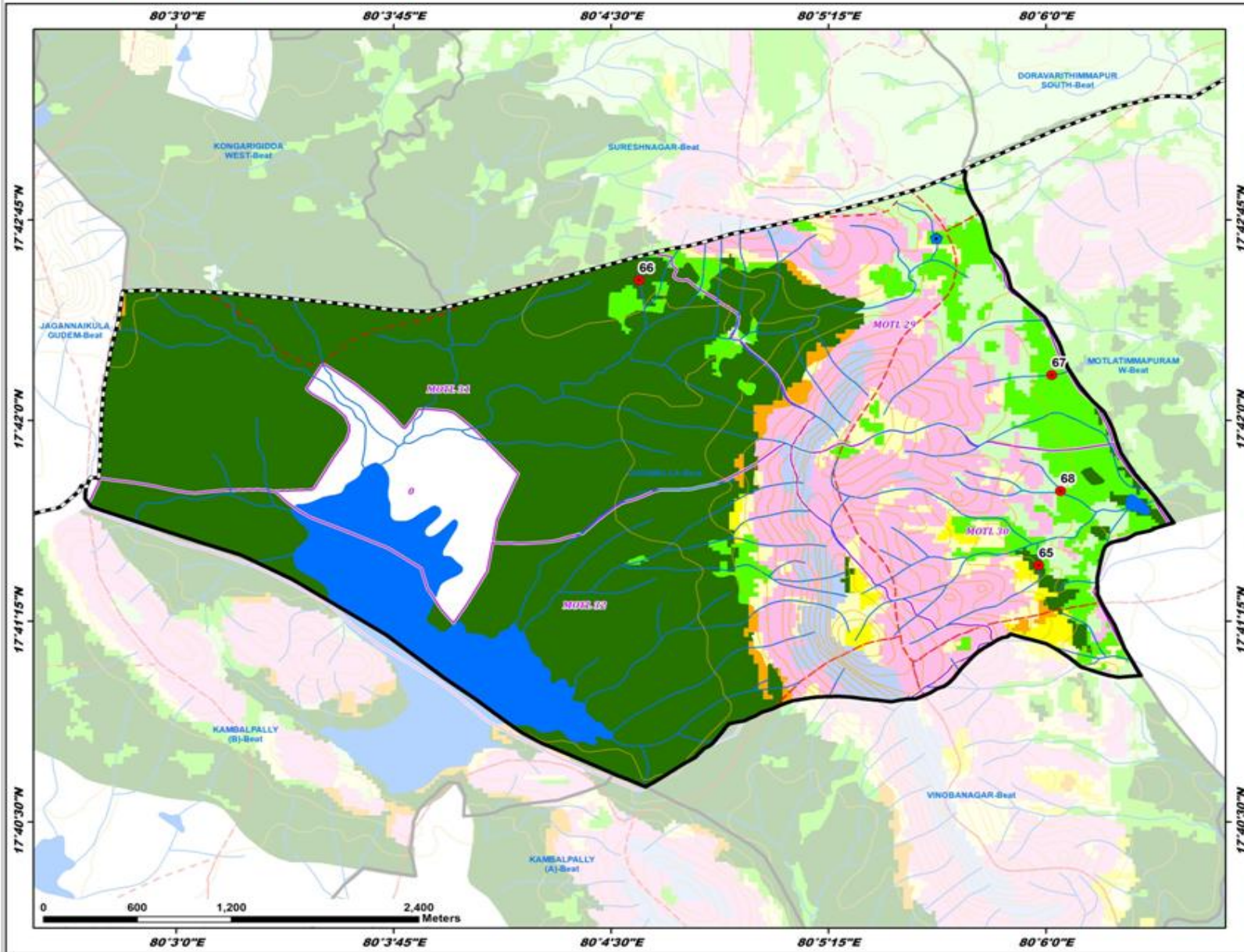
- CCTs/SCTs - Highly Suitable
- CCTs/SCTs - Moderately Suitable
- CCTs/SCTs - Least Suitable
- PTs - Highly Suitable
- PTs - Moderately Suitable
- PTs - Least Suitable
- MPTs and SGTs - Suitable
- Not Suitable
- Water Body



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



Division : Mahabubabad
Range : Bayyaram



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
65	17.690998	80.099598	24.88	I
66	17.708745	80.076624	8.71	I
67	17.702834	80.100346	16.31	II
68	17.695622	80.100851	12.43	IV

Legend

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

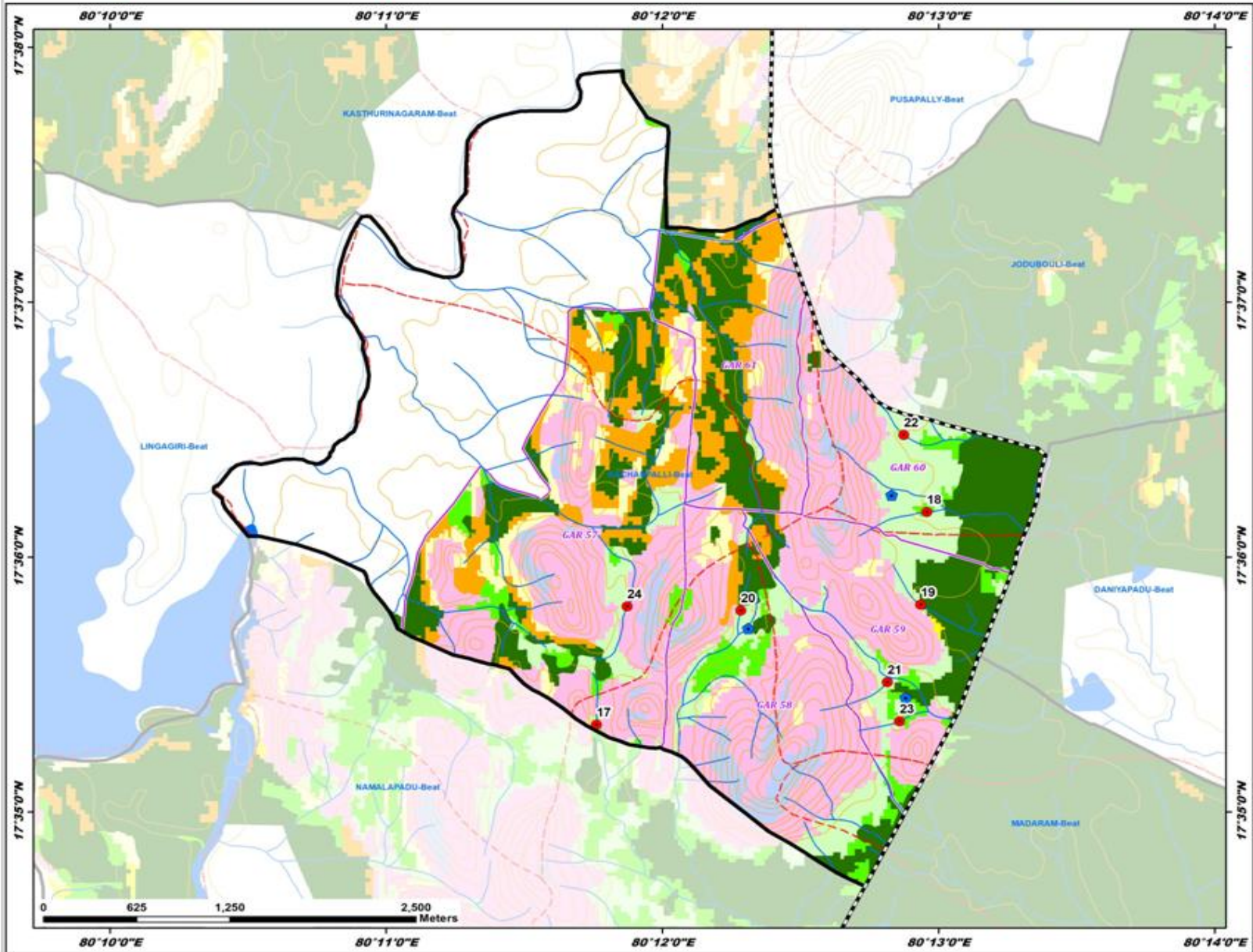
Suitability Index

- 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 Kachanpalli Beat



Division : Mahabubabad
Range : Bayyaram



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
17	17.589034	80.196021	11.47	II
18	17.602944	80.215966	20.23	II
19	17.596886	80.215994	19.08	IV
20	17.596500	80.204743	12.56	IV
21	17.591824	80.213576	13.83	IV
22	17.607981	80.214571	24.99	IV
23	17.589271	80.214318	14.64	IV
24	17.596772	80.197884	42.91	V

Legend

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

Suitability Index

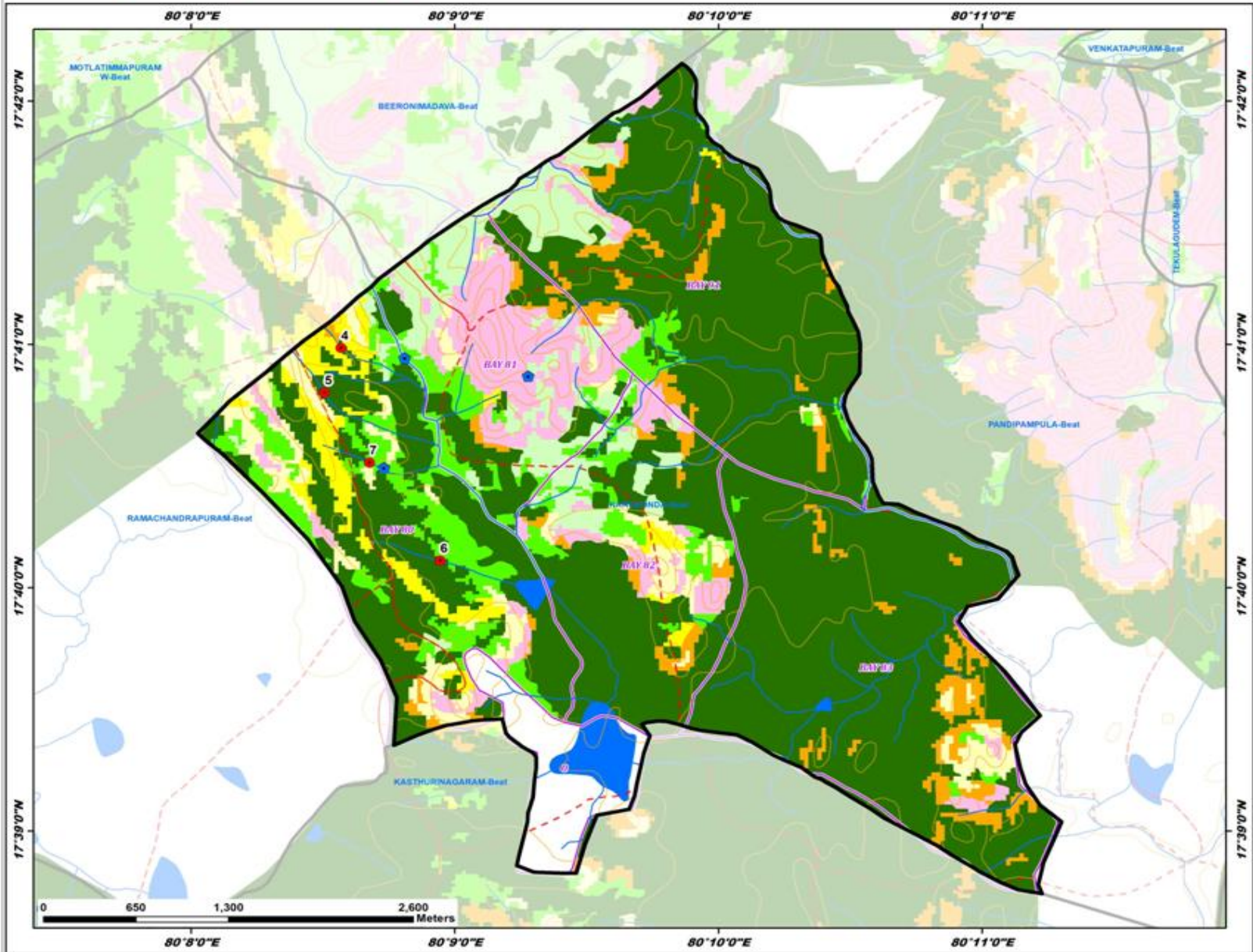
- Orange: CCTs/SCTs - Highly Suitable
- Yellow: CCTs/SCTs - Moderately Suitable
- Light Green: CCTs/SCTs - Least Suitable
- Dark Green: PTs - Highly Suitable
- Medium Green: PTs - Moderately Suitable
- Light Green: PTs - Least Suitable
- Light Purple: MPTs and SGPs - Suitable
- White: Not Suitable
- Blue: Water Body



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



Division : Mahabubabad
Range : Bayyaram



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
4	17.683101	80.142809	11.83	I
5	17.680035	80.141763	15.75	I
6	17.668520	80.149068	22.60	I
7	17.675247	80.144608	9.74	II

Legend

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

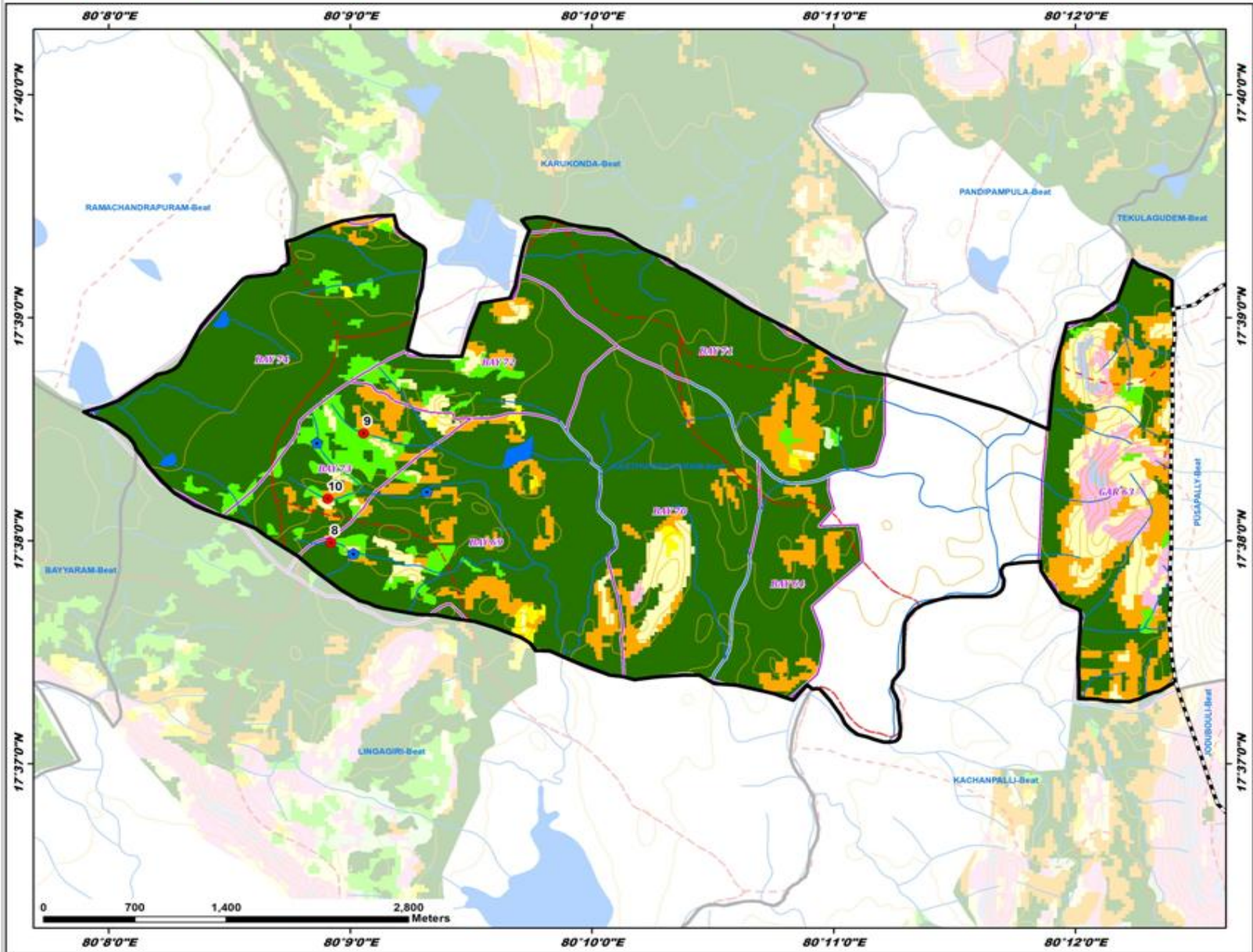
Suitability Index

- 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 Kasthurinagaram Beat



Division : Mahabubabad
Range : Bayyaram



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
8	17.633191	80.148656	15.26	I
9	17.643371	80.150916	13.76	II
10	17.636494	80.148437	7.16	II

Legend

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

Suitability Index

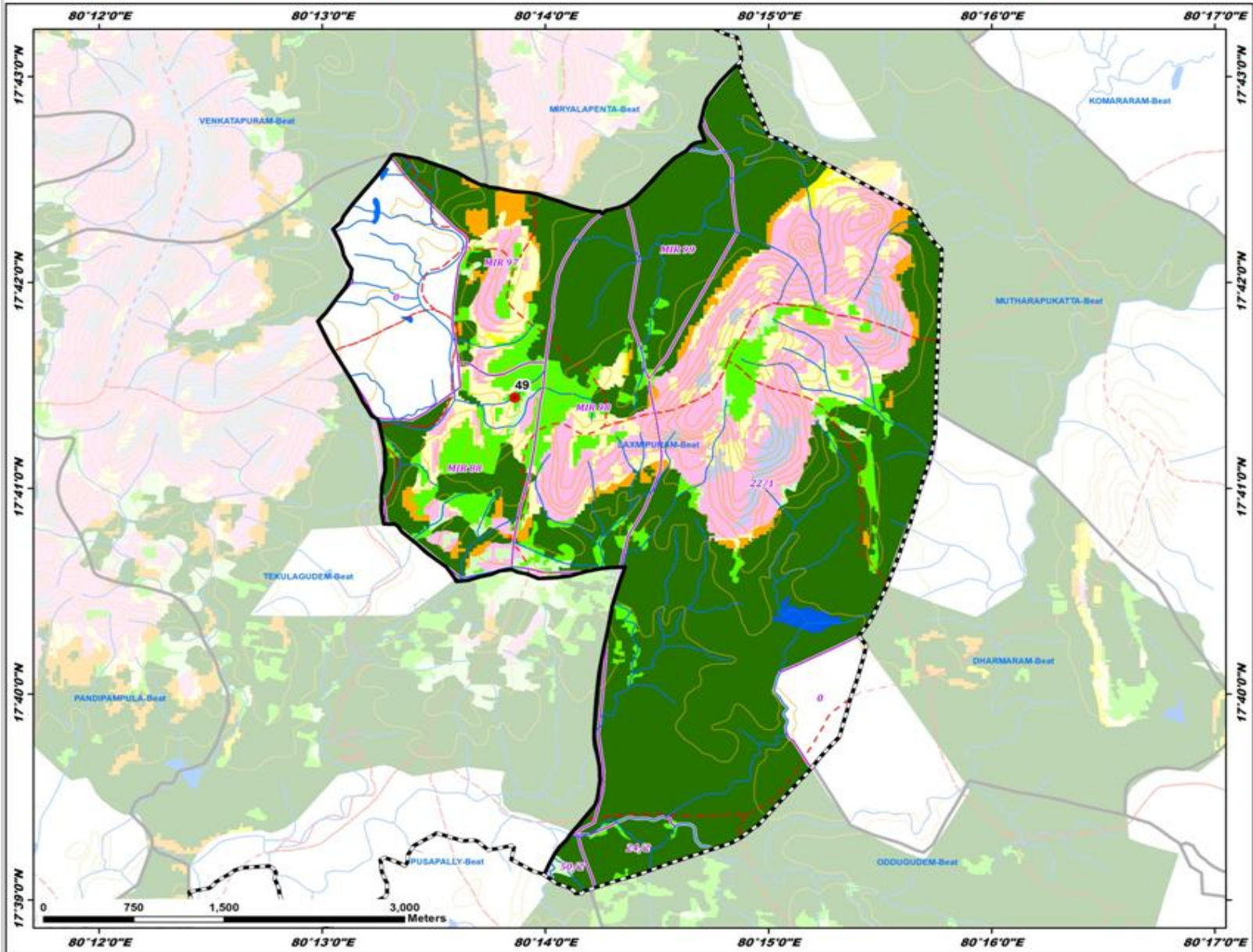
- CCTs/SCTs - Highly Suitable
- CCTs/SCTs - Moderately Suitable
- CCTs/SCTs - Least Suitable
- PTs - Highly Suitable
- PTs - Moderately Suitable
- PTs - Least Suitable
- MPTs and SGPs - Suitable
- Not Suitable
- Water Body



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



Division : Mahabubabad
Range : Bayyaram



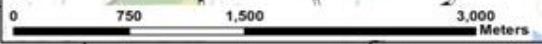
ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
49	17.69066	80.231043	17.36	II

Legend

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

Suitability Index

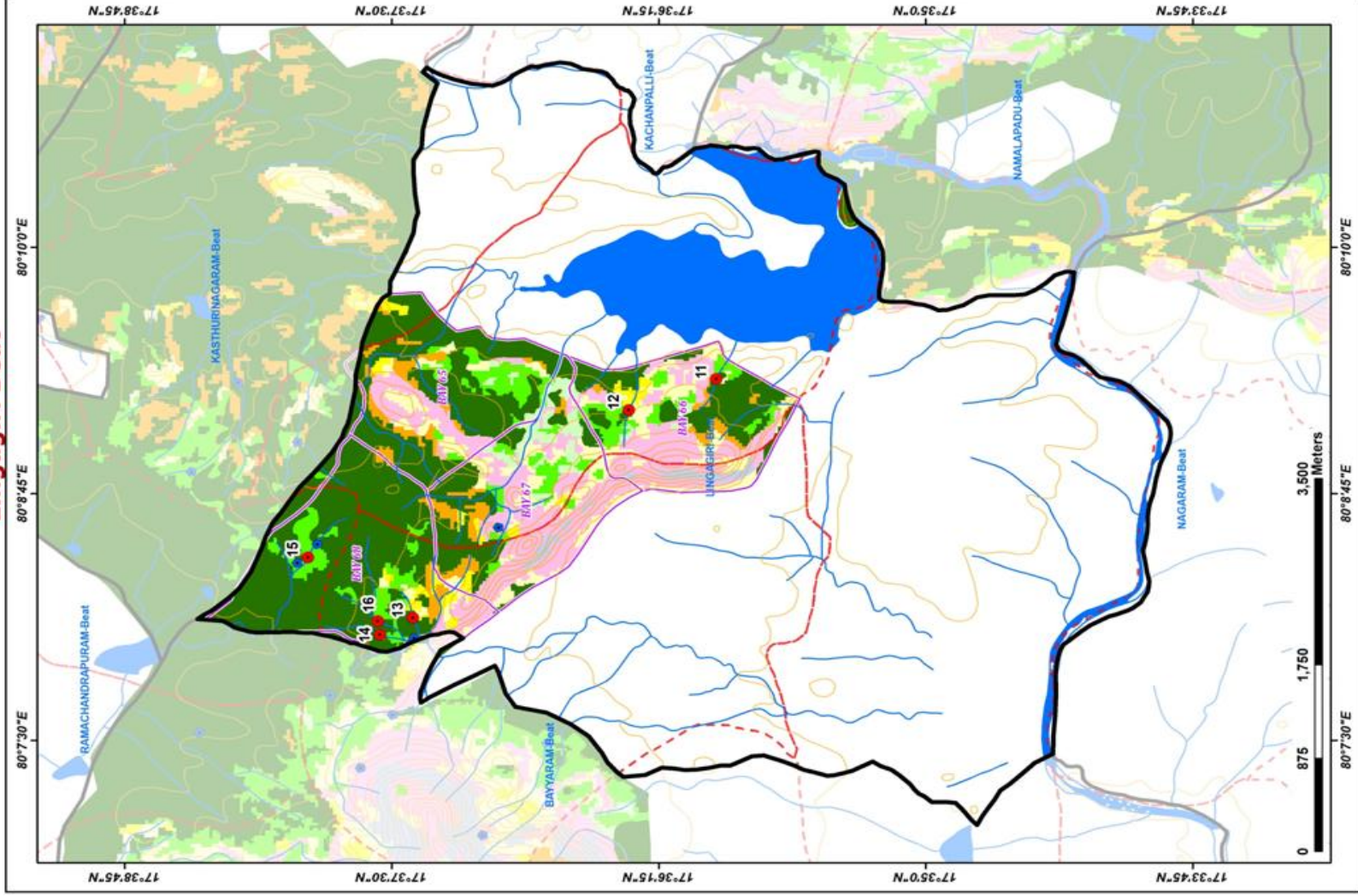
- CCTs/SCTs - Highly Suitable
- CCTs/SCTs - Moderately Suitable
- CCTs/SCTs - Least Suitable
- PTs - Highly Suitable
- PTs - Moderately Suitable
- PTs - Least Suitable
- MPTs and SGTs - Suitable
- Not Suitable
- Water Body



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



Division : Mahabubabad
Range : Bayyaram



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
11	17.599670	80.155572	15.54	I
12	17.606500	80.152952	21.16	I
13	17.623348	80.135378	6.48	I
14	17.629514	80.139929	20.06	I
15	17.611541	80.140472	28.83	III
16	17.626999	80.135105	51.16	III

LEGEND

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

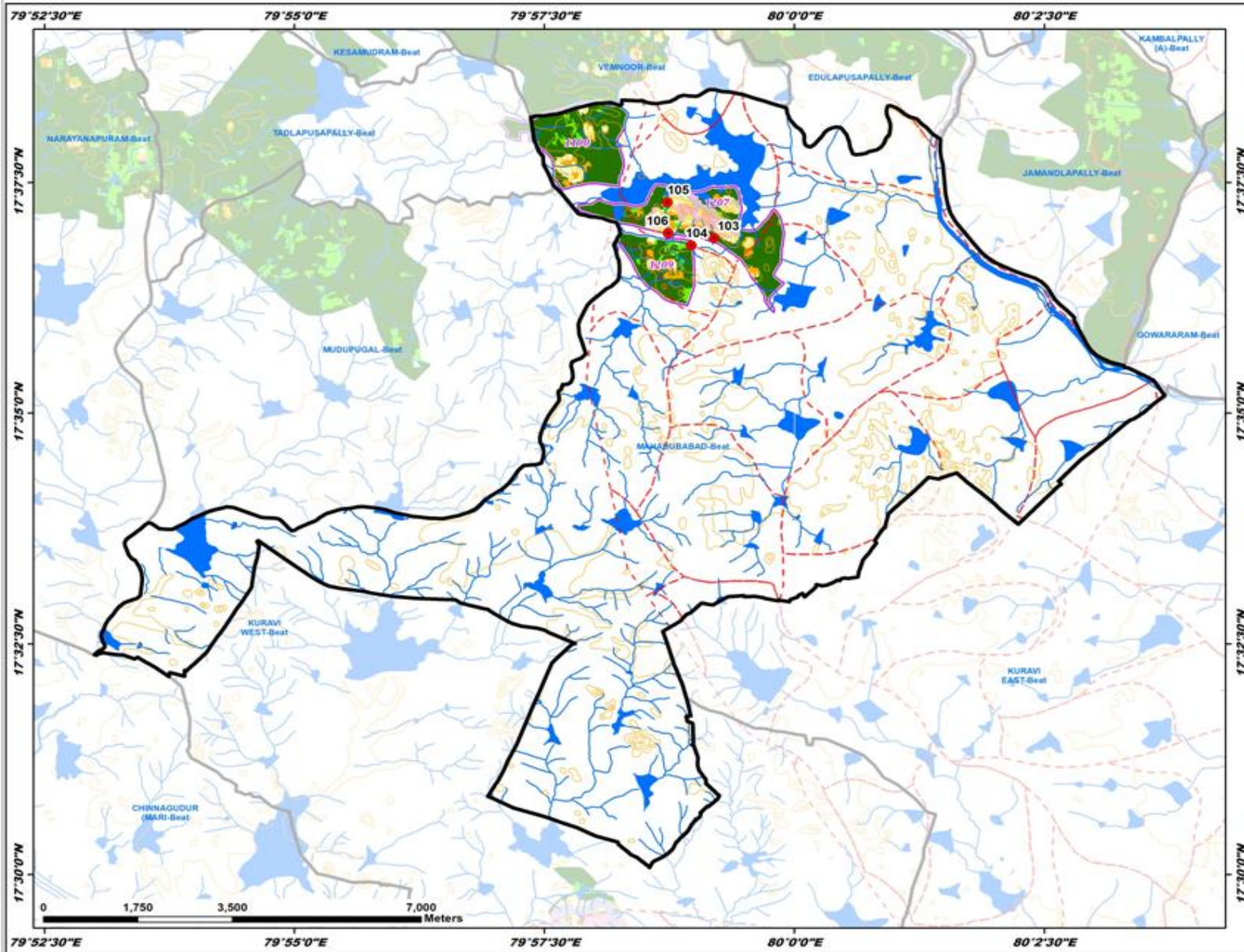
Suitability Index

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

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



Division : Mahabubabad
Range : Bayyaram



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
103	17.615024	79.986607	6.97	I
104	17.613662	79.982865	10.10	I
105	17.621410	79.978820	8.39	II
106	17.615843	79.979002	4.71	II

Legend

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

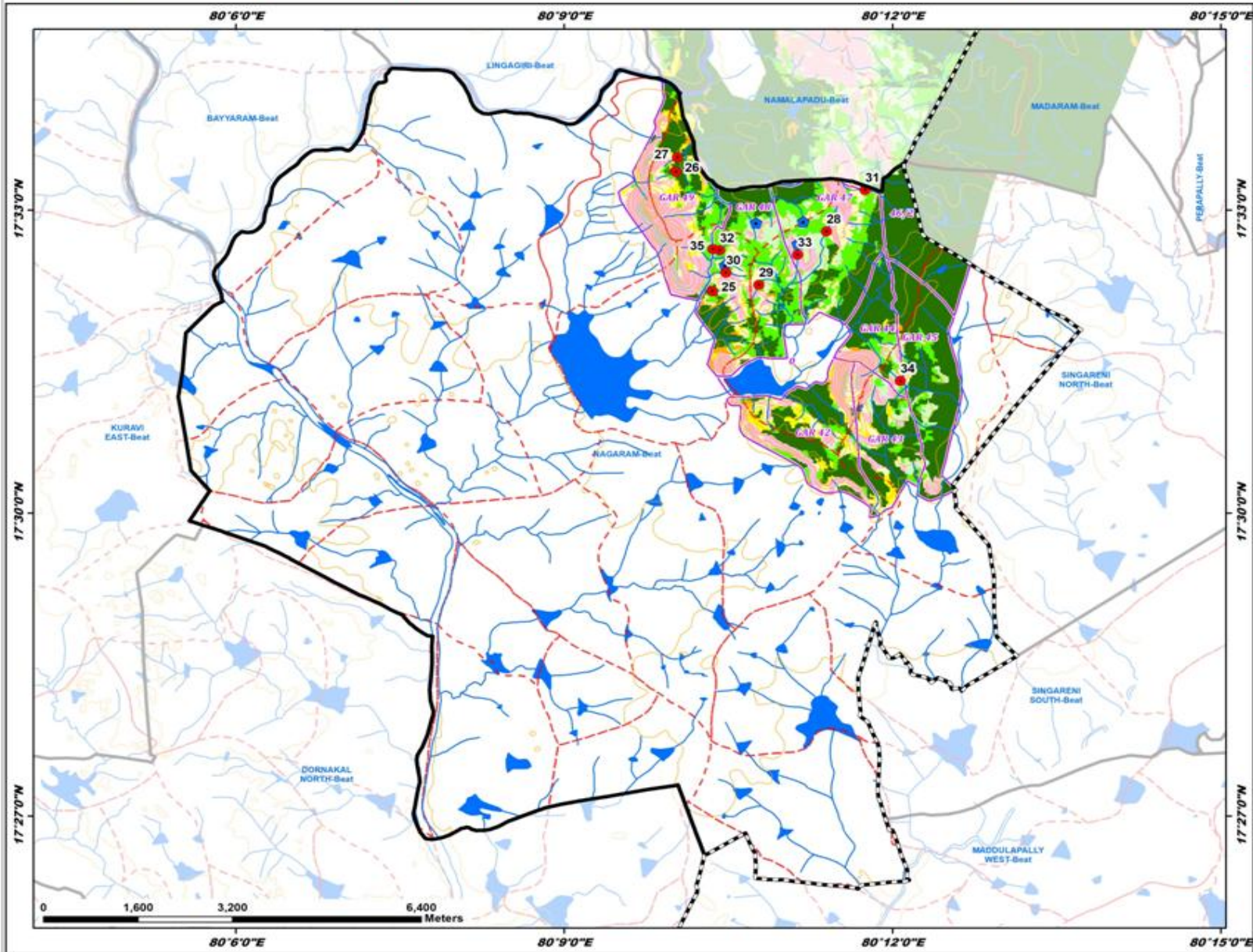
Suitability Index

- 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 Nagaram Beat



Division : Mahabubabad
Range : Bayyaram



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
25	17.53654	80.172579	9.52	I
26	17.55635	80.167008	12.91	I
27	17.558742	80.167244	9.80	I
28	17.546499	80.189940	13.97	II
29	17.537721	80.179653	8.86	II
30	17.539714	80.174626	8.98	II
31	17.553353	80.195841	22.78	II
32	17.543382	80.179681	10.32	II
33	17.542667	80.185516	21.78	IV
34	17.521839	80.201197	13.66	IV
35	17.543615	80.172663	15.98	IV

Legend

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

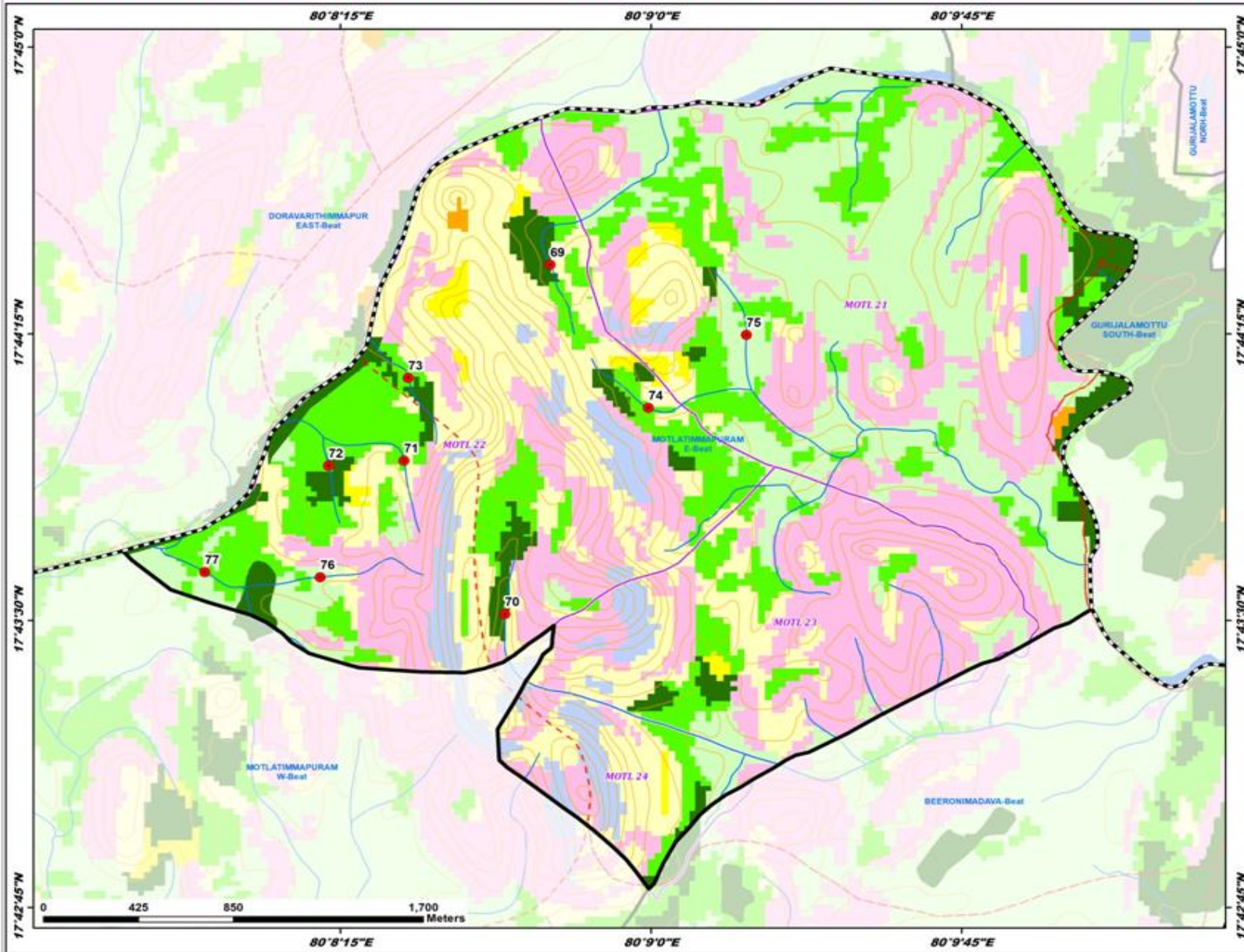
Suitability Index

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

Map Showing Suitability Index for Construction of SMC Works of Motlatimmapuram East Beat



Division : Mahabubabad
Range : Bayyaram



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
69	17.740567	80.145936	19.51	I
70	17.725274	80.144123	20.72	I
71	17.731977	80.140058	15.85	II
72	17.731747	80.137017	11.50	II
73	17.735573	80.140224	26.49	III
74	17.734273	80.145895	35.49	III
75	17.737455	80.153840	23.33	IV
76	17.726890	80.136686	15.58	IV
77	17.727116	80.132045	79.58	V

Legend

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

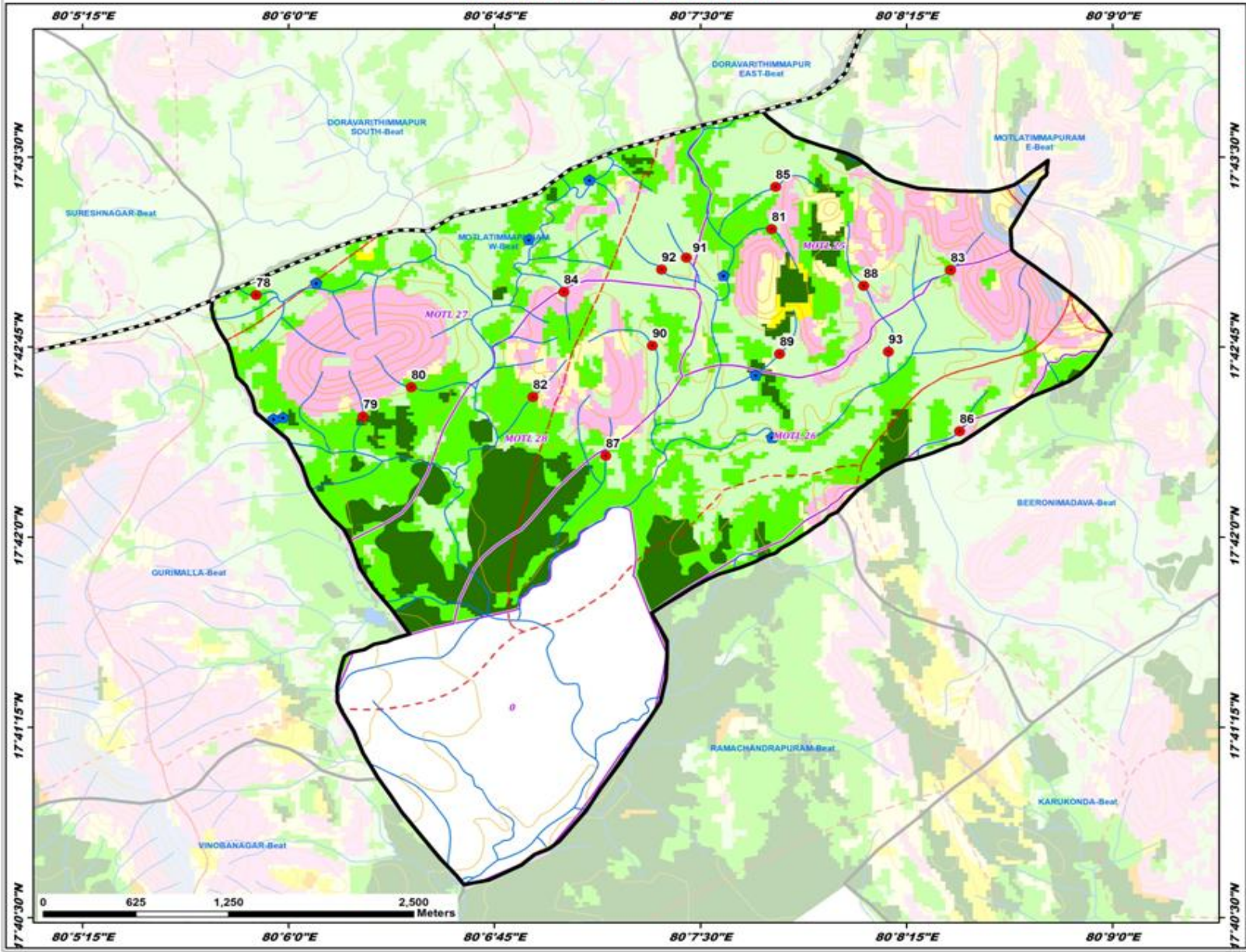
Suitability Index

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

Map Showing Suitability Index for Construction of SMC Works of Motlatimmapuram West Beat



Division : Mahabubabad
Range : Bayyaram



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
78	17.715932	80.098044	11.09	II
79	17.707927	80.104532	6.04	II
80	17.709864	80.107461	7.68	II
81	17.720261	80.129932	14.59	II
82	17.709220	80.114844	6.58	II
83	17.717579	80.140190	13.17	II
84	17.716128	80.116716	7.74	IV
85	17.723099	80.129567	16.95	IV
86	17.706879	80.140790	15.92	IV
87	17.705354	80.119254	4.75	IV
88	17.716538	80.134912	22.97	IV
89	17.712050	80.129817	17.16	IV
90	17.712597	80.122091	20.86	IV
91	17.718889	80.124153	8.74	IV
92	17.717607	80.122649	12.83	IV
93	17.712196	80.136408	39.71	V

Legend

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

Suitability Index

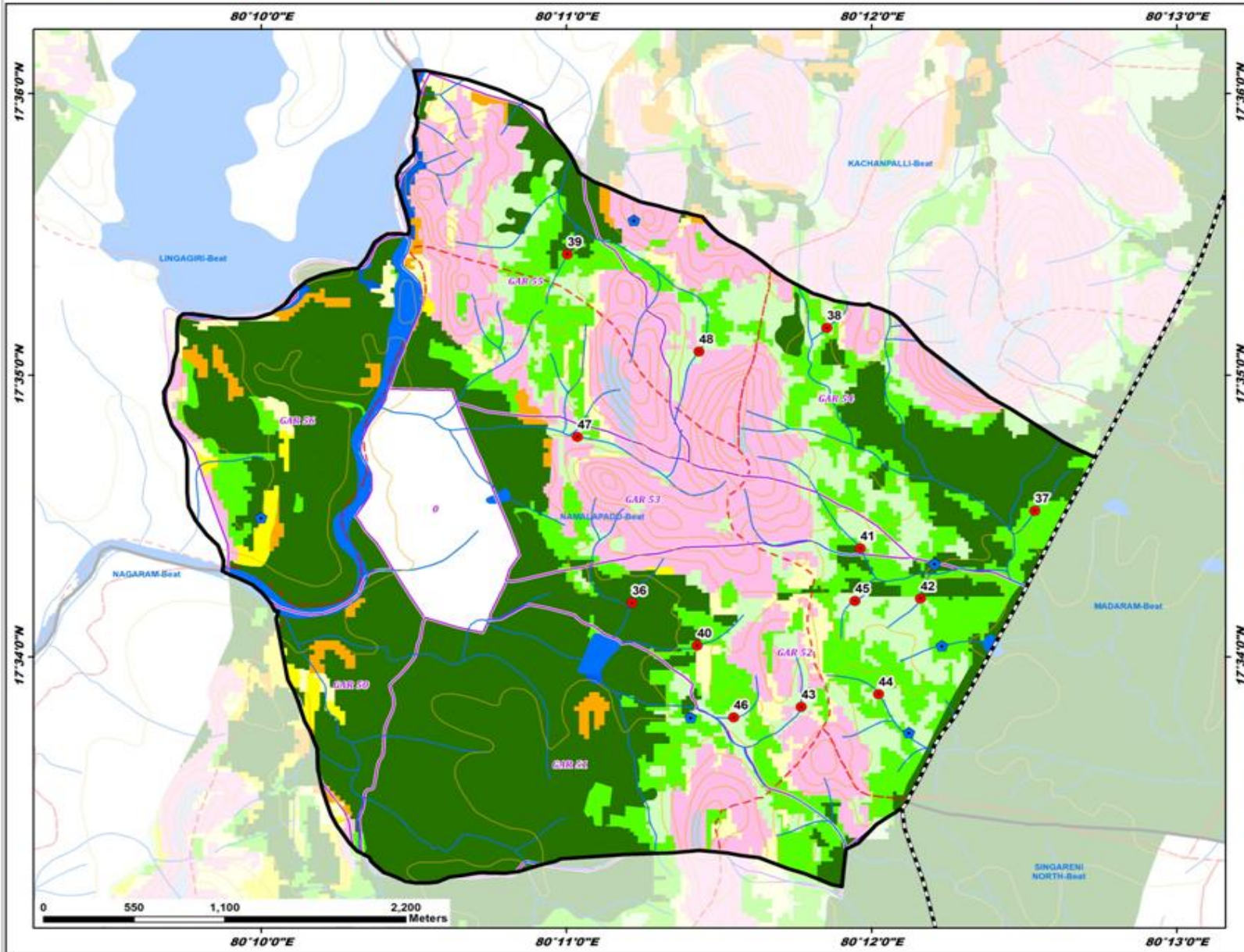
- CCTs/SCTs - Highly Suitable
- CCTs/SCTs - Moderately Suitable
- CCTs/SCTs - Least Suitable
- PTs - Highly Suitable
- PTs - Moderately Suitable
- PTs - Least Suitable
- MPTs and SGPs - Suitable
- Not Suitable
- Water Body



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



Division : Mahabubabad
Range : Bayyaram



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
36	17.560875	80.186925	15.98	I
37	17.575326	80.208927	6.36	II
38	17.586140	80.197577	11.69	II
39	17.590494	80.183389	17.67	II
40	17.567354	80.190476	27.87	III
41	17.573099	80.199397	26.18	III
42	17.570135	80.202679	8.60	IV
43	17.563724	80.196173	8.54	IV
44	17.564474	80.200389	13.27	IV
45	17.569988	80.199100	15.81	IV
46	17.563096	80.192476	7.24	IV
47	17.579689	80.183944	58.80	V
48	17.584744	80.190586	27.61	V

Legend

- Proposed PTs (Red dot)
- Existing CD/PTs (Blue dot)
- Contours (Yellow line)
- Streams (Blue line)
- Watershed Boundary (Dashed red line)
- Compartment Boundary (Dashed purple line)
- Beat Boundary (Thick black line)
- Division Boundary (Dashed black line)

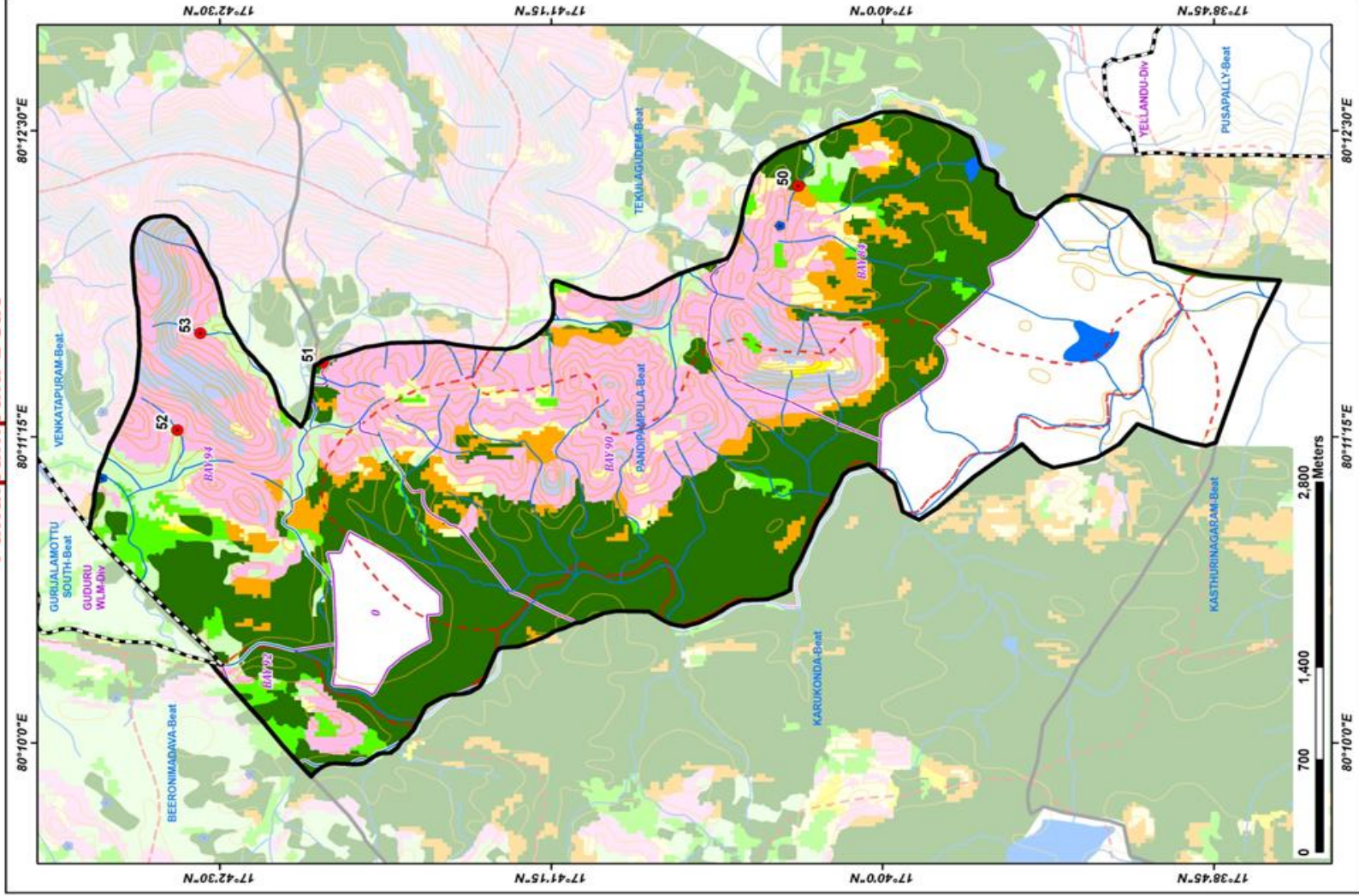
Suitability Index

- 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 (Very Light Green)
- MPTs and SGPts - Suitable (Pink)
- Not Suitable (White)
- Water Body (Blue)

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



Division : Mahabubabad
Range : Bayyaram



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
50	17.671954	80.204598	5.44	I
51	17.701885	80.192573	8.66	I
52	17.711010	80.187976	20.09	IV
53	17.709548	80.194658	8.75	IV

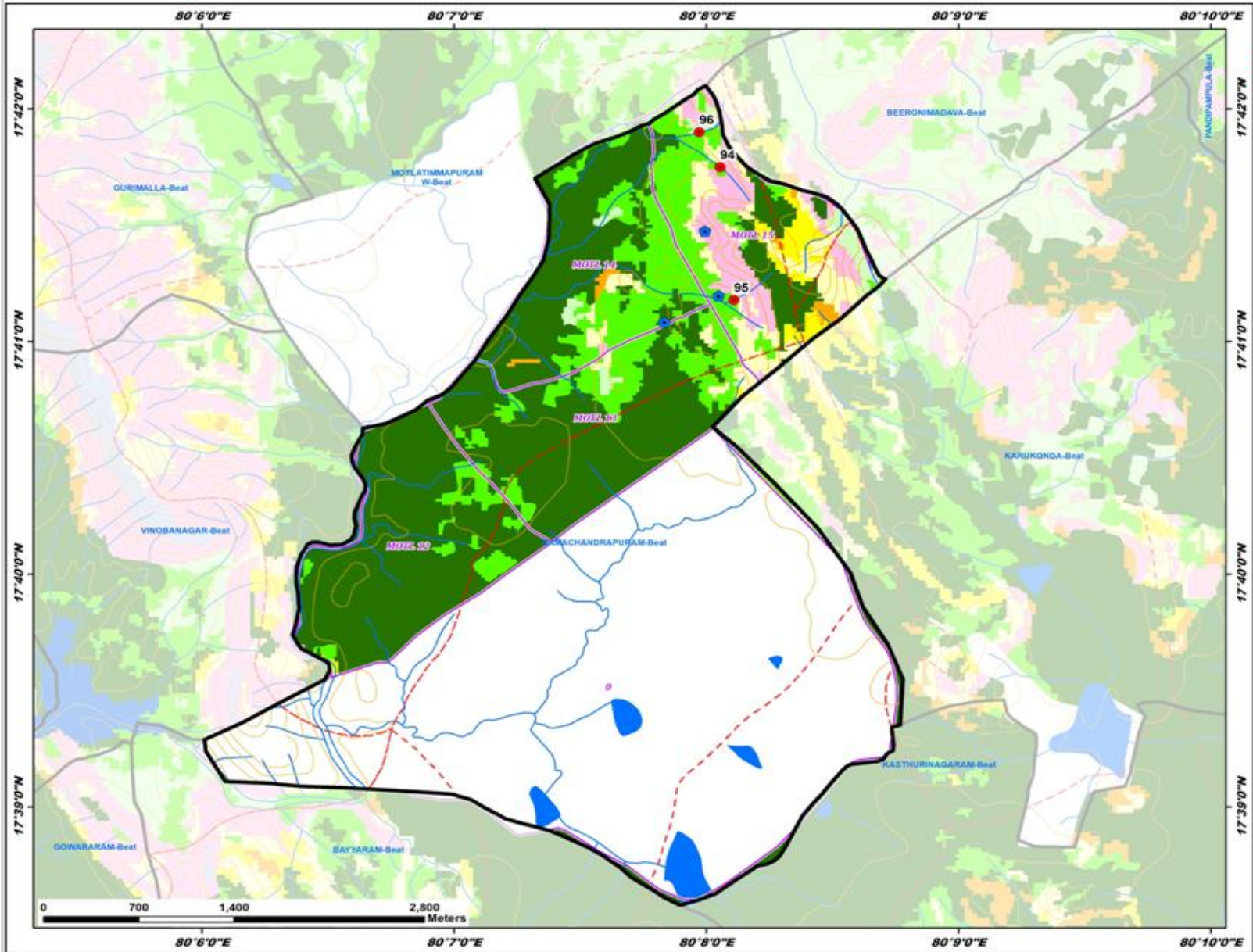
LEGEND

- 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 Ramachandrapuram Beat



Division : Mahabubabad
Range : Bayyaram



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
94	17.695832	80.134251	14.39	II
95	17.686322	80.135369	10.21	II
96	17.698326	80.132869	8.18	IV

Legend

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

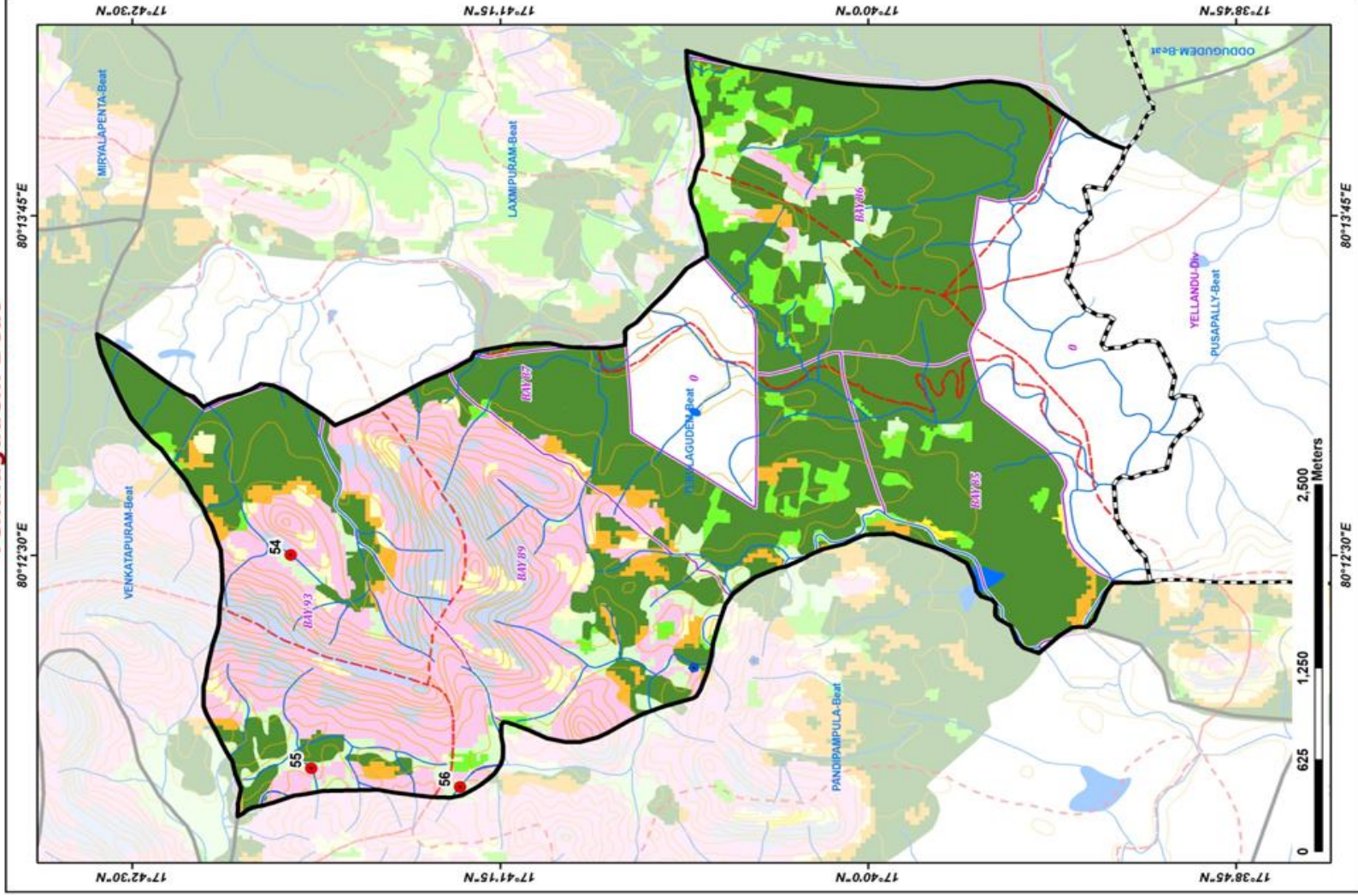
Suitability Index

- 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 Tekulagudem Beat



Division : Mahabubabad
Range : Bayyaram



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
54	17.69378	80.20874	12.96	IV
55	17.698216	80.195294	7.67	IV
56	17.689782	80.194151	7.34	IV

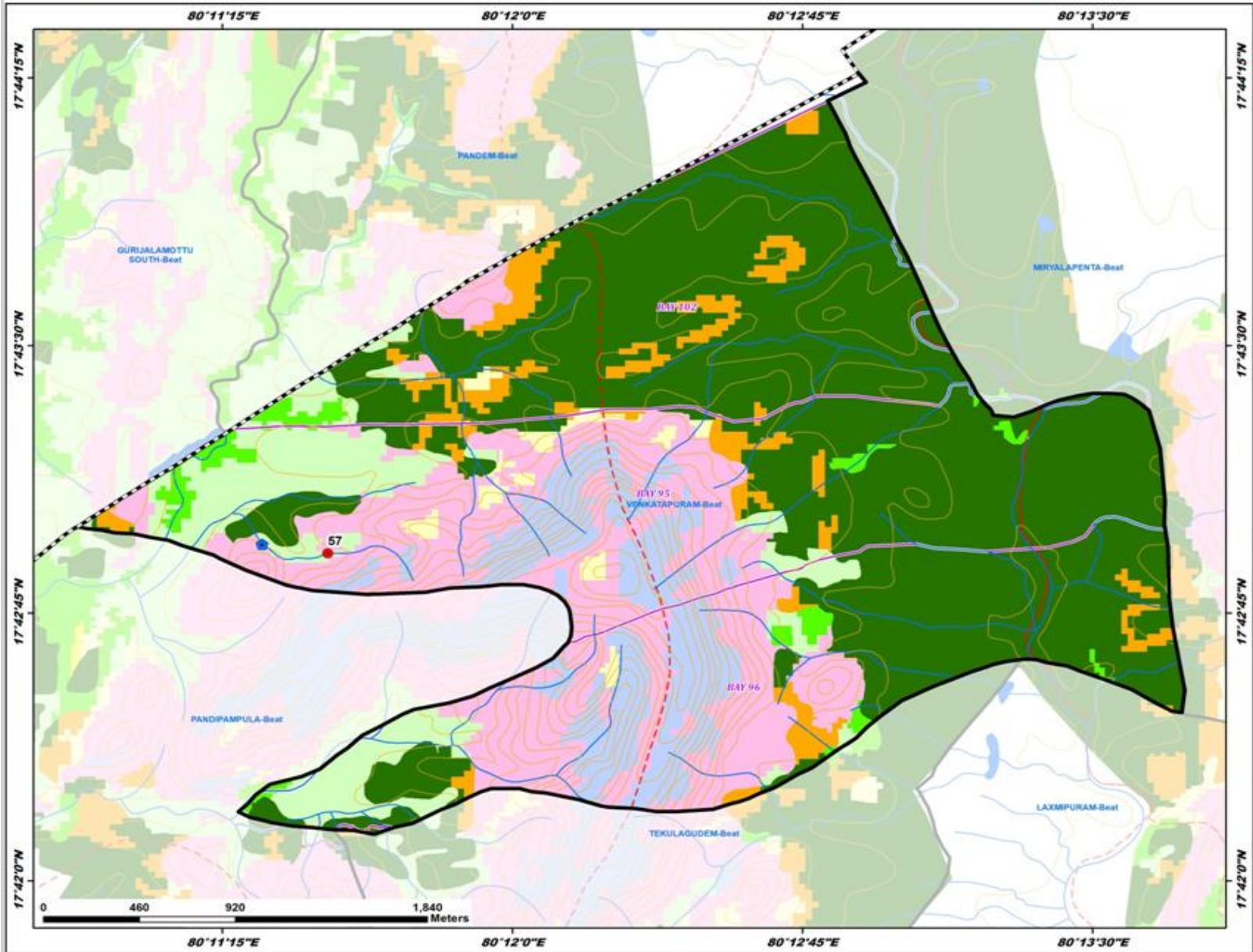
LEGEND

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

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



Division : Mahabubabad
Range : Bayyaram



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
57	17.715302	80.192048	16.94	IV

Legend

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

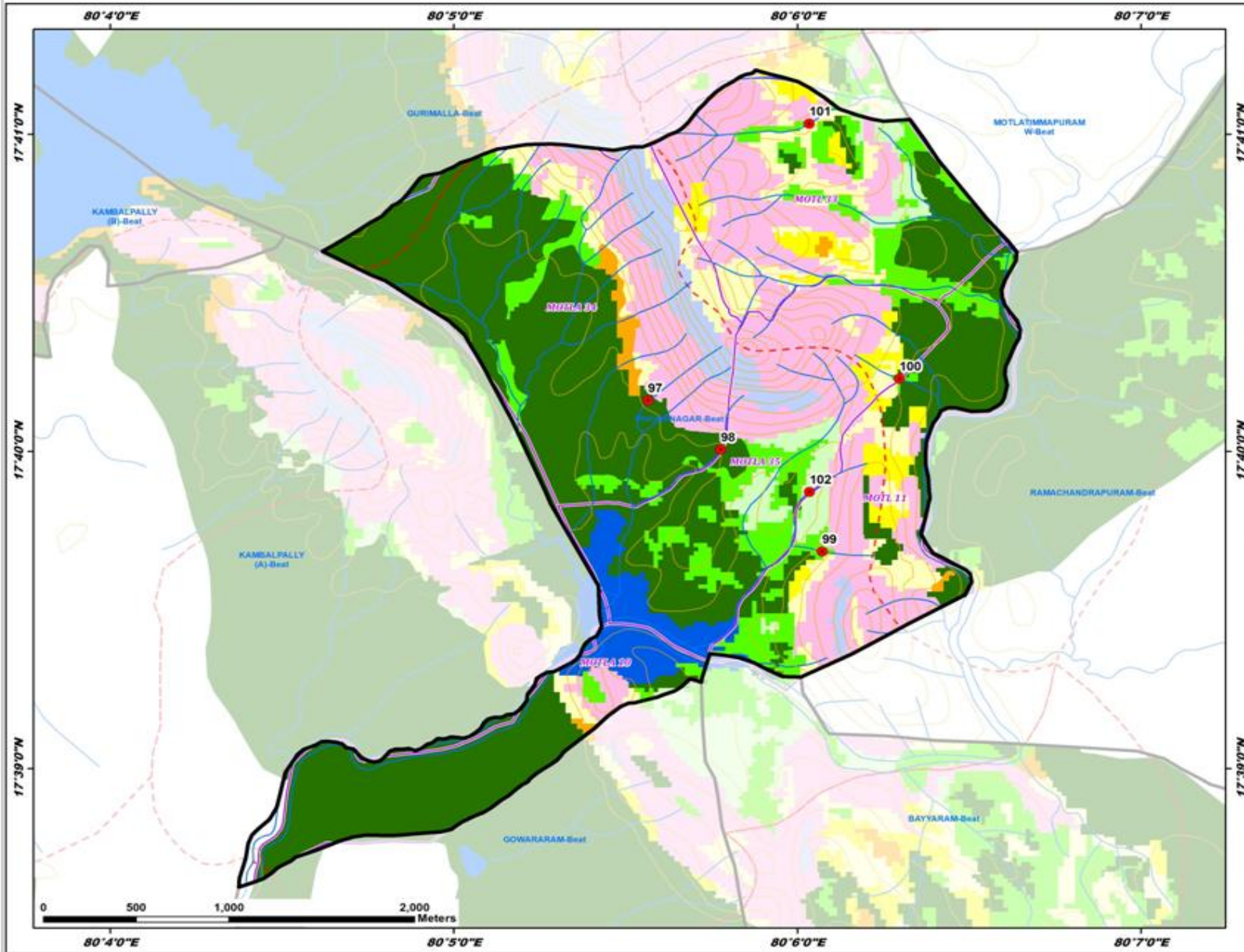
Suitability Index

- 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 Vinobanagar Beat



Division : Mahabubabad
Range : Bayyaram



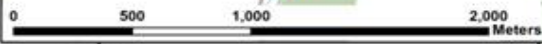
ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
97	17.669349	80.092344	7.80	I
98	17.666796	80.096282	7.13	I
99	17.661434	80.101203	7.75	II
100	17.670499	80.104937	4.60	II
101	17.663897	80.100578	41.52	III
102	17.664544	80.100589	8.58	IV

Legend

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

Suitability Index

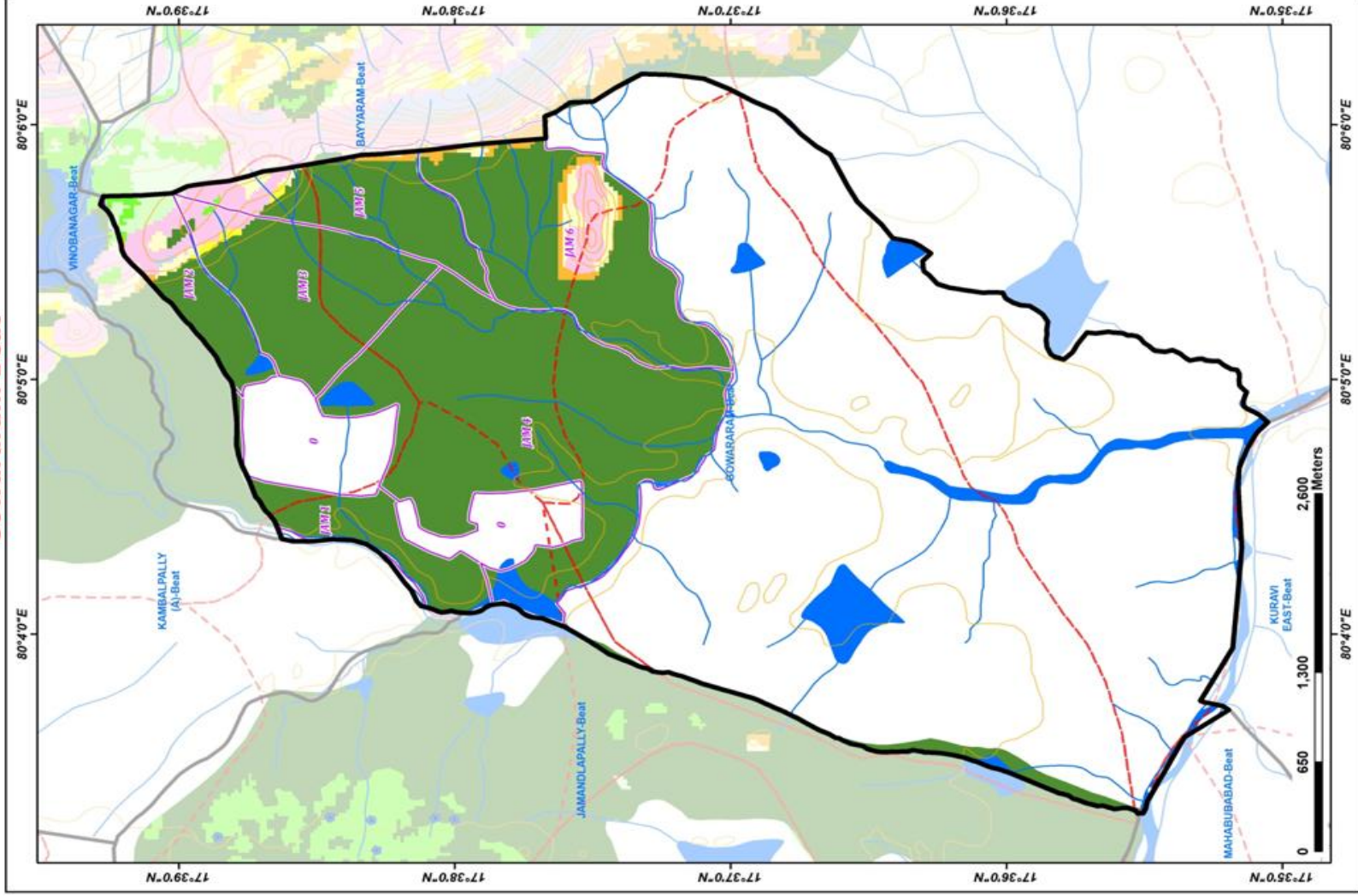
- CCTs/SCTs - Highly Suitable
- CCTs/SCTs - Moderately Suitable
- CCTs/SCTs - Least Suitable
- PTs - Highly Suitable
- PTs - Moderately Suitable
- PTs - Least Suitable
- MPTs and SGPs - Suitable
- Not Suitable
- Water Body



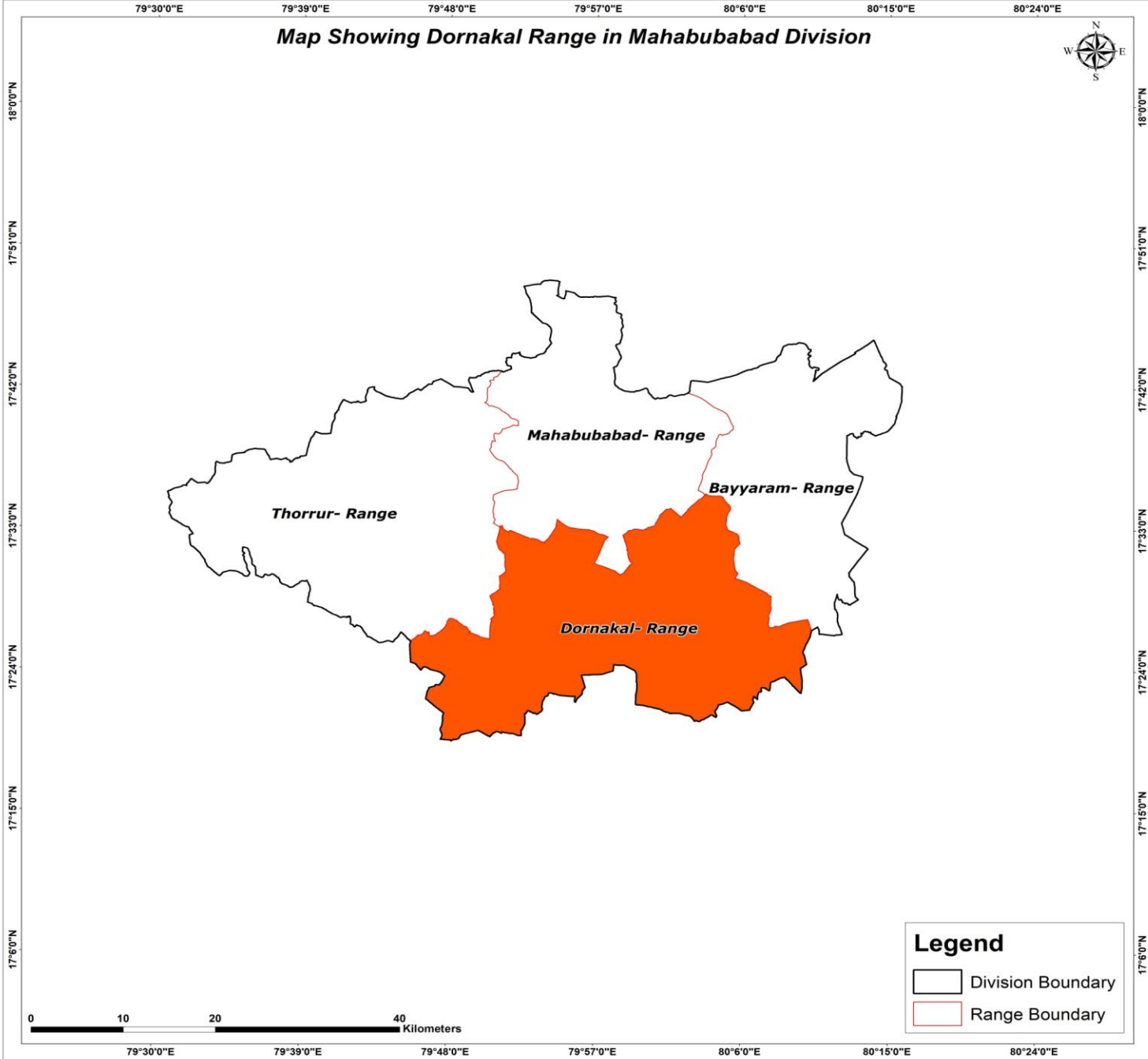
Map Showing Suitability index for Construction of SMC Works of Gowararam Beat



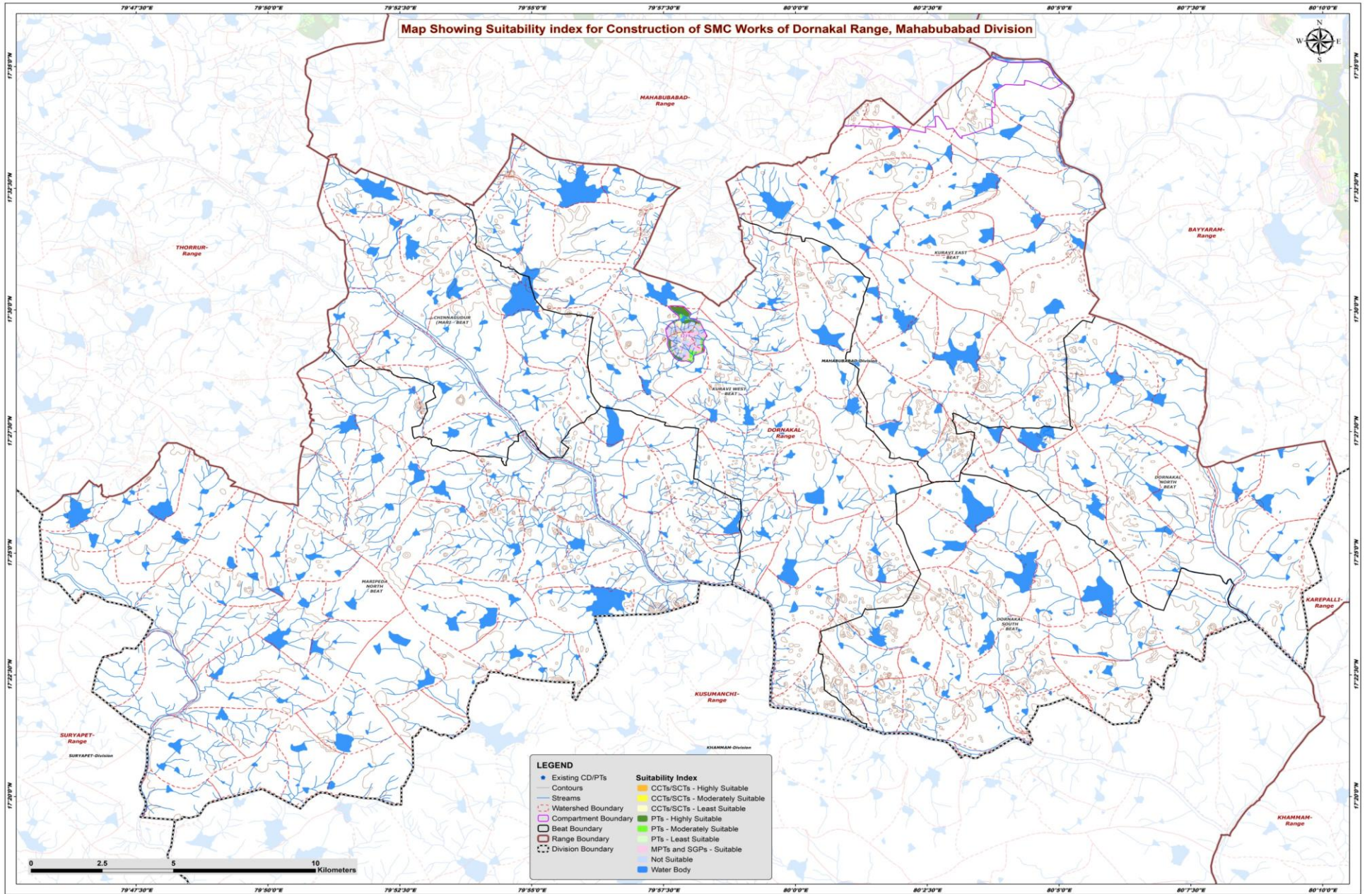
Division : Mahabubabad
Range : Bayyaram



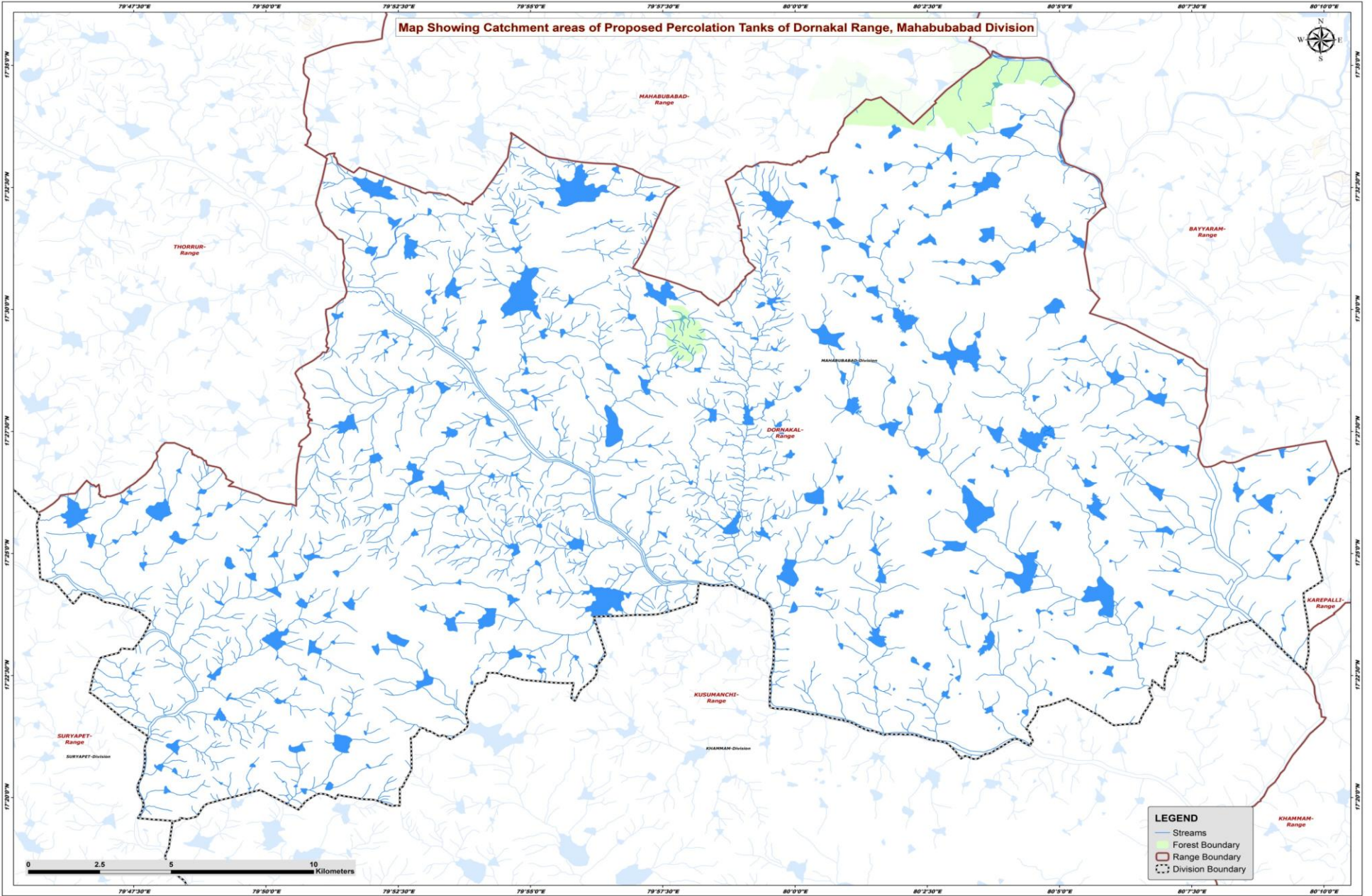
Map Showing Dornakal Range in Mahabubabad Division



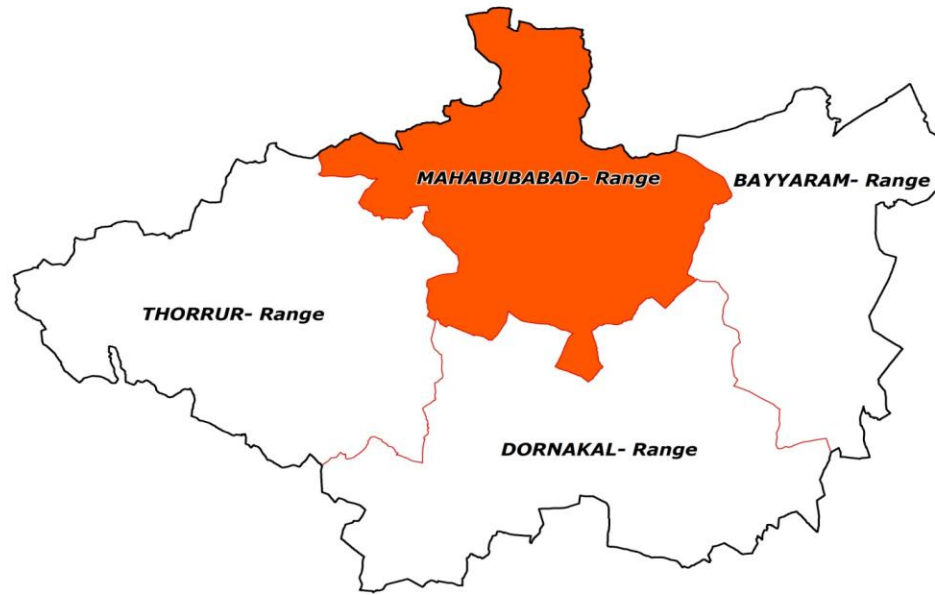
Map Showing Suitability index for Construction of SMC Works of Dornakal Range, Mahabubabad Division



Map Showing Catchment areas of Proposed Percolation Tanks of Dornakal Range, Mahabubabad Division



Map Showing Mahabubabad Range in Mahabubabad Division



18°0'0"N
17°51'0"N
17°42'0"N
17°33'0"N
17°24'0"N
17°15'0"N
17°6'0"N

18°0'0"N
17°51'0"N
17°42'0"N
17°33'0"N
17°24'0"N
17°15'0"N
17°6'0"N

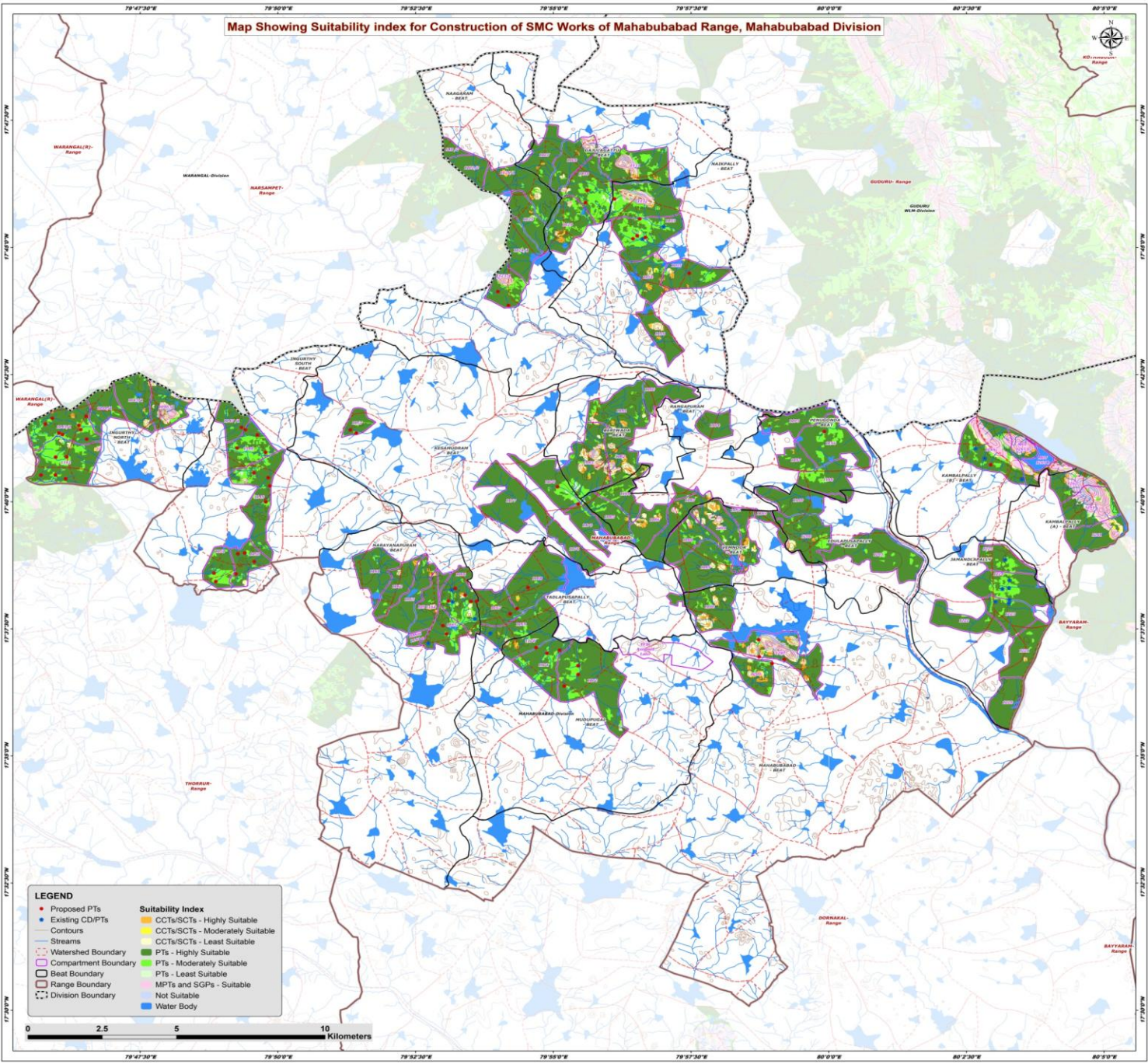
0 10 20 40 Kilometers

Legend

-  Division Boundary
-  Range Boundary

79°30'0"E 79°39'0"E 79°48'0"E 79°57'0"E 80°6'0"E 80°15'0"E 80°24'0"E

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

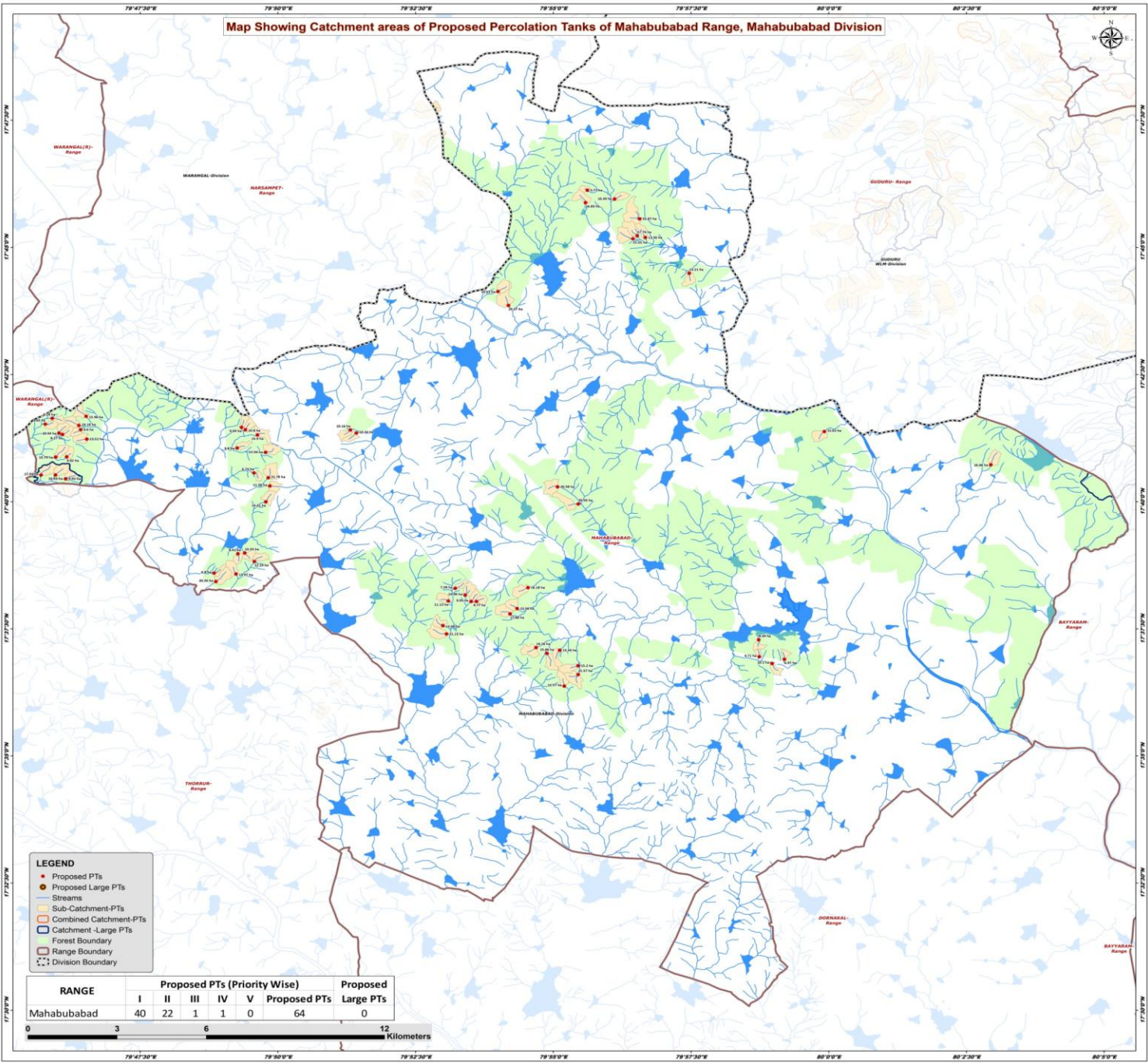


LEGEND

• Proposed PTs	■ CCTs/SCTs - Highly Suitable
• Existing CD/PTs	■ CCTs/SCTs - Moderately Suitable
— Contours	■ CCTs/SCTs - Least Suitable
— Streams	■ PTs - Highly Suitable
— Watershed Boundary	■ PTs - Moderately Suitable
— Compartment Boundary	■ PTs - Least Suitable
— Beat Boundary	■ MPTs and SGPs - Suitable
— Range Boundary	■ Not Suitable
— Division Boundary	■ Water Body

0 2.5 5 10 Kilometers

Map Showing Catchment areas of Proposed Percolation Tanks of Mahabubabad Range, Mahabubabad 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 Large PTs
	I	II	III	IV	V	
Mahabubabad	40	22	1	1	0	64

0 3 6 12 Kilometers

Beat wise Abstract of Proposed PT's – Mahabubabad Range

S. No.	Beat	Proposed PT's
1	GAJULAGATTU	2
2	INGURTHY NORTH	13
3	INGURTHY SOUTH	15
4	KAMBALPALLY (B)	1
5	KESAMUDRAM	4
6	MAHABUBABAD	4
7	MUDUPUGAL	6
8	NAAGARAM	2
9	NAIKPALLY	6
10	NARAYANAPURAM	7
11	PENUGONDA	1
12	TADLAPUSAPALLY	3
	Total	64

List of Proposed PTs – Mahabubabad Range

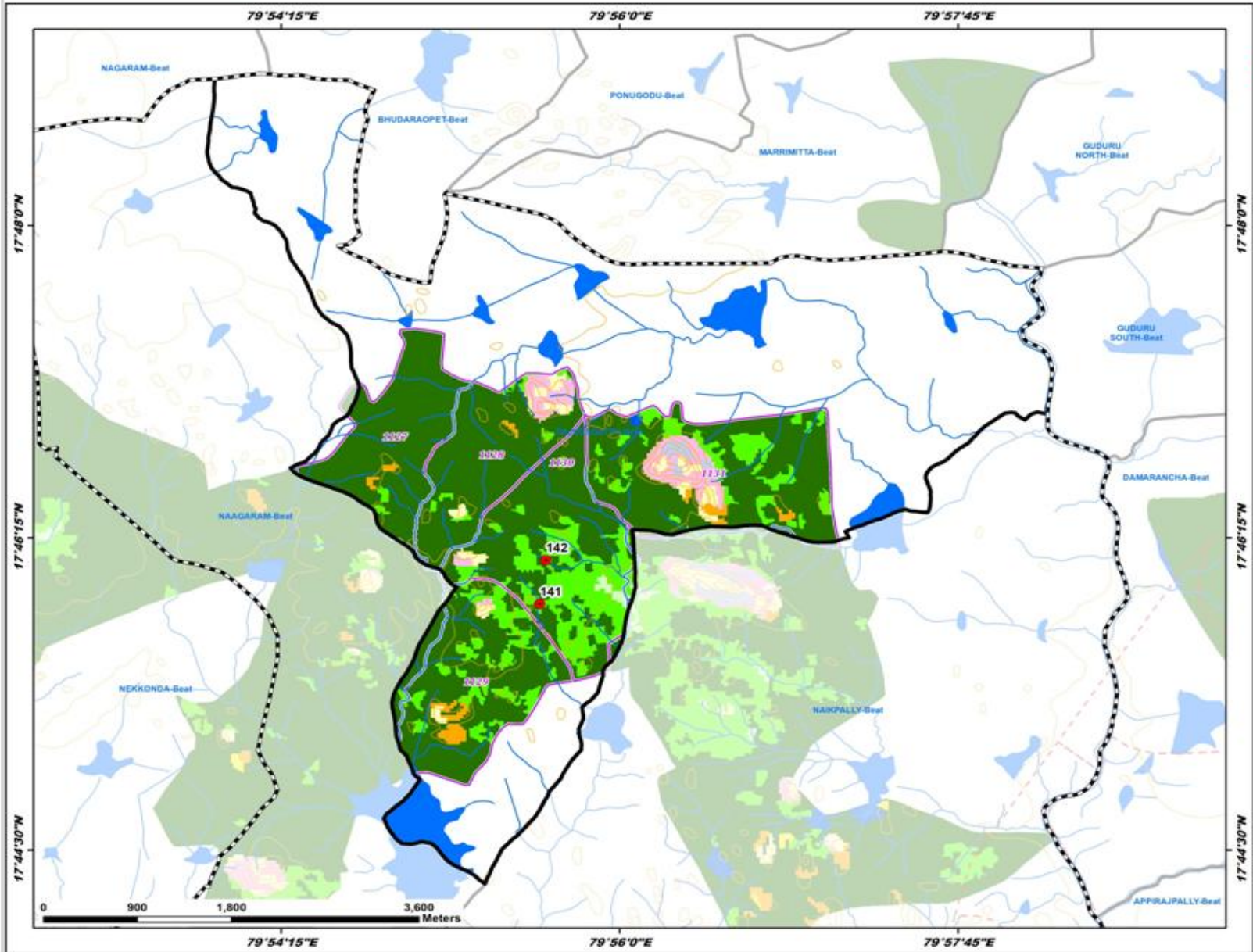
ID	Latitude	Longitude	Catchment Area_Ha	Priority	Beat
103	17.615024	79.986607	6.97	I	MAHABUBABAD
104	17.613662	79.982865	10.10	I	MAHABUBABAD
105	17.621410	79.978820	8.39	II	MAHABUBABAD
106	17.615843	79.979002	4.71	II	MAHABUBABAD
107	17.689657	79.998701	15.63	I	PENUGONDA
108	17.687181	79.775515	13.51	I	INGURTHY NORTH
109	17.692088	79.762968	9.65	I	INGURTHY NORTH
110	17.675412	79.766017	16.93	I	INGURTHY NORTH
111	17.674172	79.769132	9.93	I	INGURTHY NORTH
112	17.688684	79.768151	8.27	I	INGURTHY NORTH
113	17.675408	79.761646	17.93	I	INGURTHY NORTH
114	17.694640	79.775318	15.96	I	INGURTHY NORTH
115	17.694004	79.765069	8.14	II	INGURTHY NORTH
116	17.681336	79.769430	9.42	II	INGURTHY NORTH
117	17.689139	79.767109	10.34	II	INGURTHY NORTH
118	17.681285	79.766089	13.79	II	INGURTHY NORTH
119	17.690292	79.773657	8.60	II	INGURTHY NORTH
120	17.691667	79.773126	14.16	II	INGURTHY NORTH
121	17.671845	79.830919	11.56	I	INGURTHY SOUTH
122	17.691038	79.822324	9.04	I	INGURTHY SOUTH
123	17.649607	79.821249	8.41	I	INGURTHY SOUTH
124	17.674530	79.830437	21.76	I	INGURTHY SOUTH
125	17.649857	79.823320	10.33	I	INGURTHY SOUTH
126	17.642984	79.820684	13.97	I	INGURTHY SOUTH
127	17.688538	79.827146	15.90	I	INGURTHY SOUTH
128	17.643265	79.814020	6.80	I	INGURTHY SOUTH
129	17.647032	79.826217	12.19	I	INGURTHY SOUTH
130	17.690252	79.823517	10.80	I	INGURTHY SOUTH
131	17.684247	79.821013	9.80	II	INGURTHY SOUTH
132	17.682841	79.829605	17.04	II	INGURTHY SOUTH
133	17.676117	79.826089	6.74	II	INGURTHY SOUTH
134	17.640494	79.814565	20.26	II	INGURTHY SOUTH
135	17.666615	79.829684	14.61	II	INGURTHY SOUTH
136	17.678768	80.049047	16.06	I	KAMBALPALLY (B)
137	17.665919	79.924229	20.56	I	KESAMUDRAM
138	17.690190	79.855287	10.16	I	KESAMUDRAM
139	17.671559	79.917973	20.58	II	KESAMUDRAM
140	17.689166	79.857106	10.34	II	KESAMUDRAM
141	17.764674	79.926453	16.83	I	GAJULAGATTU
142	17.768753	79.926994	5.77	II	GAJULAGATTU

ID	Latitude	Longitude	Catchment Area_Ha	Priority	Beat
143	17.735563	79.899941	14.63	I	NAAGARAM
144	17.730993	79.903114	24.07	I	NAAGARAM
145	17.741552	79.957794	13.21	I	NAIKPALLY
146	17.753251	79.944530	11.36	I	NAIKPALLY
147	17.752845	79.940789	21.01	II	NAIKPALLY
148	17.753800	79.942085	17.74	II	NAIKPALLY
149	17.759378	79.942815	32.87	III	NAIKPALLY
150	17.765868	79.935205	10.39	IV	NAIKPALLY
151	17.610039	79.924219	21.57	I	MUDUPUGAL
152	17.617972	79.918622	13.34	I	MUDUPUGAL
153	17.606241	79.920012	12.57	I	MUDUPUGAL
154	17.618849	79.911473	19.26	I	MUDUPUGAL
155	17.616947	79.914743	15.86	II	MUDUPUGAL
156	17.612900	79.924177	15.20	II	MUDUPUGAL
157	17.638271	79.886979	7.39	I	NARAYANAPURAM
158	17.633982	79.893393	8.77	I	NARAYANAPURAM
159	17.633975	79.891811	9.95	I	NARAYANAPURAM
160	17.626035	79.883268	12.46	I	NARAYANAPURAM
161	17.636036	79.889986	14.96	I	NARAYANAPURAM
162	17.634134	79.884935	11.13	II	NARAYANAPURAM
163	17.623320	79.884367	21.15	II	NARAYANAPURAM
164	17.631632	79.905733	13.58	I	TADLAPUSAPALLY
165	17.629889	79.903578	17.88	I	TADLAPUSAPALLY
166	17.638506	79.909014	16.18	I	TADLAPUSAPALLY

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



Division : Mahabubabad
Range : Mahabubabad



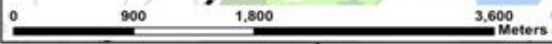
ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
141	17.764674	79.926453	16.83	I
142	17.768753	79.926994	5.77	II

Legend

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

Suitability Index

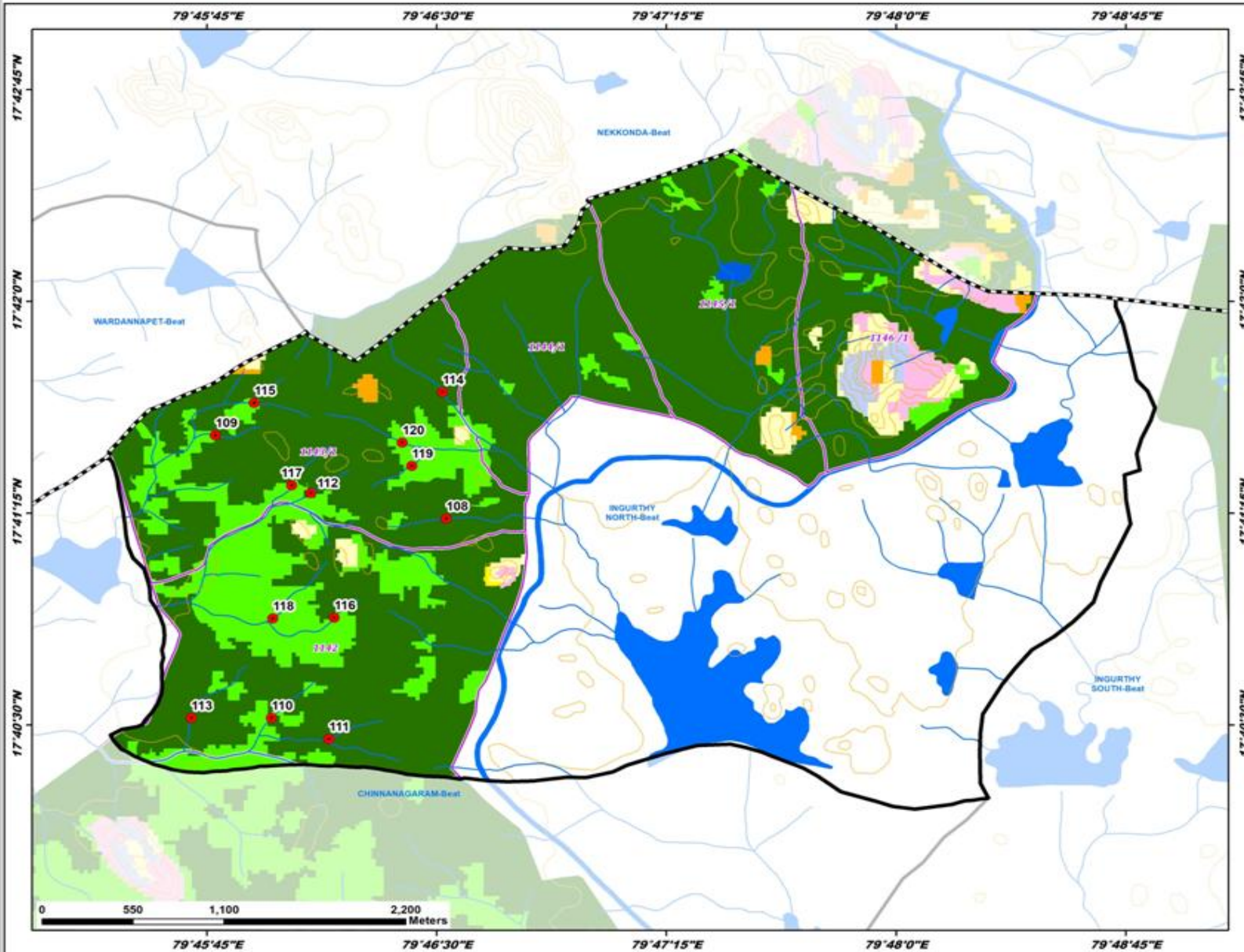
- CCTs/SCTs - Highly Suitable
- CCTs/SCTs - Moderately Suitable
- CCTs/SCTs - Least Suitable
- PTs - Highly Suitable
- PTs - Moderately Suitable
- PTs - Least Suitable
- MPTs and SGPts - Suitable
- Not Suitable
- Water Body



Map Showing Suitability Index for Construction of SMC Works of Ingurthy North Beat



Division : Mahabubabad
Range : Mahabubabad



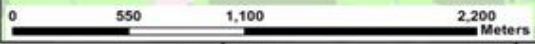
ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
108	17.687181	79.775515	13.51	I
109	17.692088	79.762968	9.65	I
110	17.675412	79.766017	16.93	I
111	17.674172	79.769132	9.93	I
112	17.688084	79.768151	8.27	I
113	17.675406	79.763666	17.93	I
114	17.694640	79.773318	15.96	I
115	17.694004	79.765069	8.14	II
116	17.681336	79.769430	9.42	II
117	17.689139	79.767109	10.34	II
118	17.681285	79.766089	13.79	II
119	17.690292	79.773657	8.60	II
120	17.691667	79.773126	14.16	II

Legend

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

Suitability Index

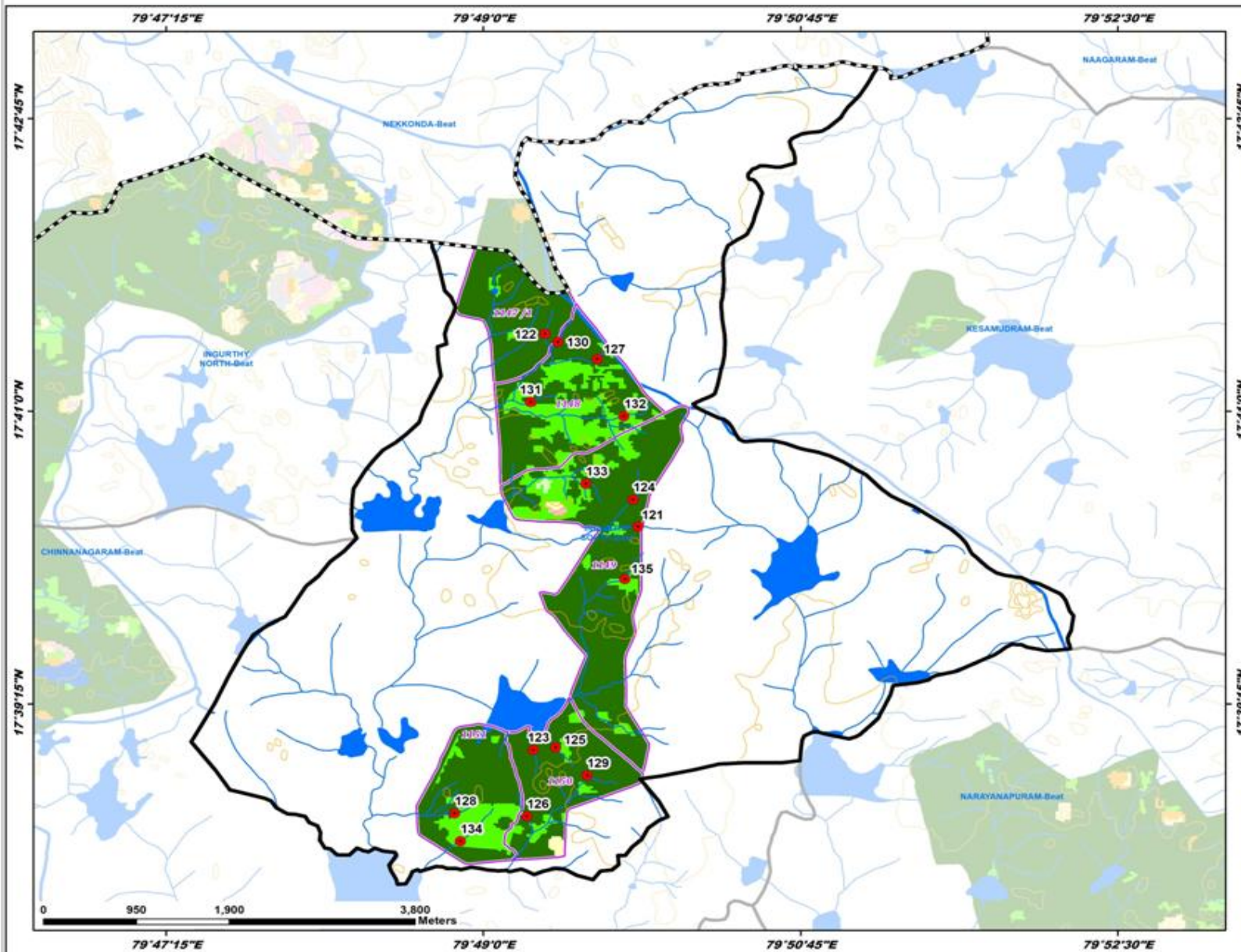
- CCTs/SCTs - Highly Suitable
- CCTs/SCTs - Moderately Suitable
- CCTs/SCTs - Least Suitable
- PTs - Highly Suitable
- PTs - Moderately Suitable
- PTs - Least Suitable
- MPTs and SGPs - Suitable
- Not Suitable
- Water Body



Map Showing Suitability Index for Construction of SMC Works of Ingurthy South Beat



Division : Mahabubabad
Range : Mahabubabad



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
121	17.671845	79.830919	11.56	I
122	17.691038	79.822324	9.04	I
123	17.649607	79.821249	8.41	I
124	17.674530	79.830437	21.76	I
125	17.649857	79.823320	10.33	I
126	17.642984	79.820684	13.97	I
127	17.688538	79.827146	15.90	I
128	17.643265	79.814020	6.80	I
129	17.647092	79.826217	12.19	I
130	17.690252	79.823517	10.80	I
131	17.684247	79.821013	9.80	II
132	17.682841	79.829605	17.04	II
133	17.678117	79.826089	6.74	II
134	17.640494	79.814545	20.26	II
135	17.666615	79.829684	14.61	II

Legend

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

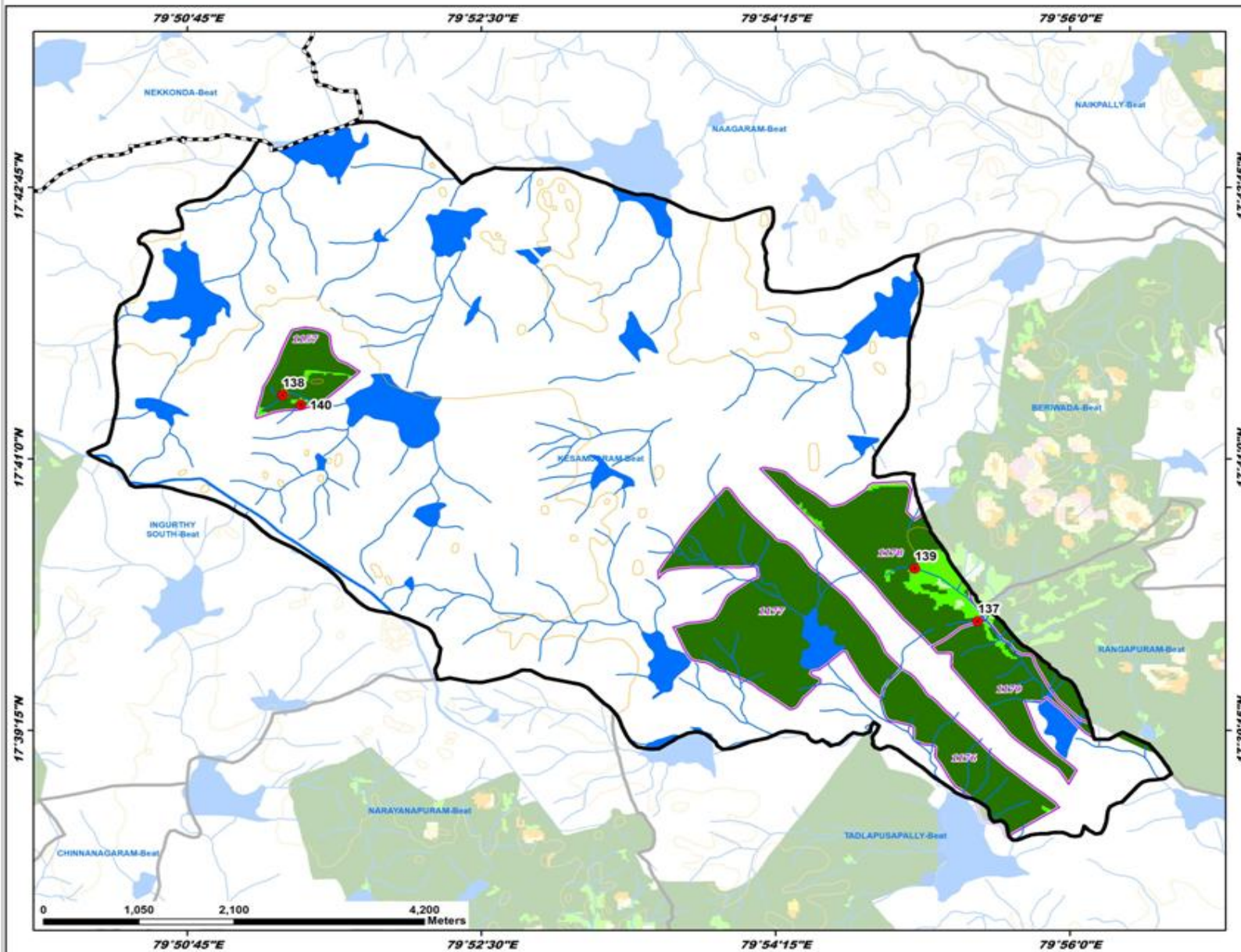
Suitability Index

- 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 Kesamudram Beat



Division : Mahabubabad
Range : Mahabubabad



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
137	17.665953	79.924229	20.56	I
138	17.690190	79.855287	10.16	I
139	17.671559	79.917973	20.58	II
140	17.689166	79.857306	10.34	II

Legend

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

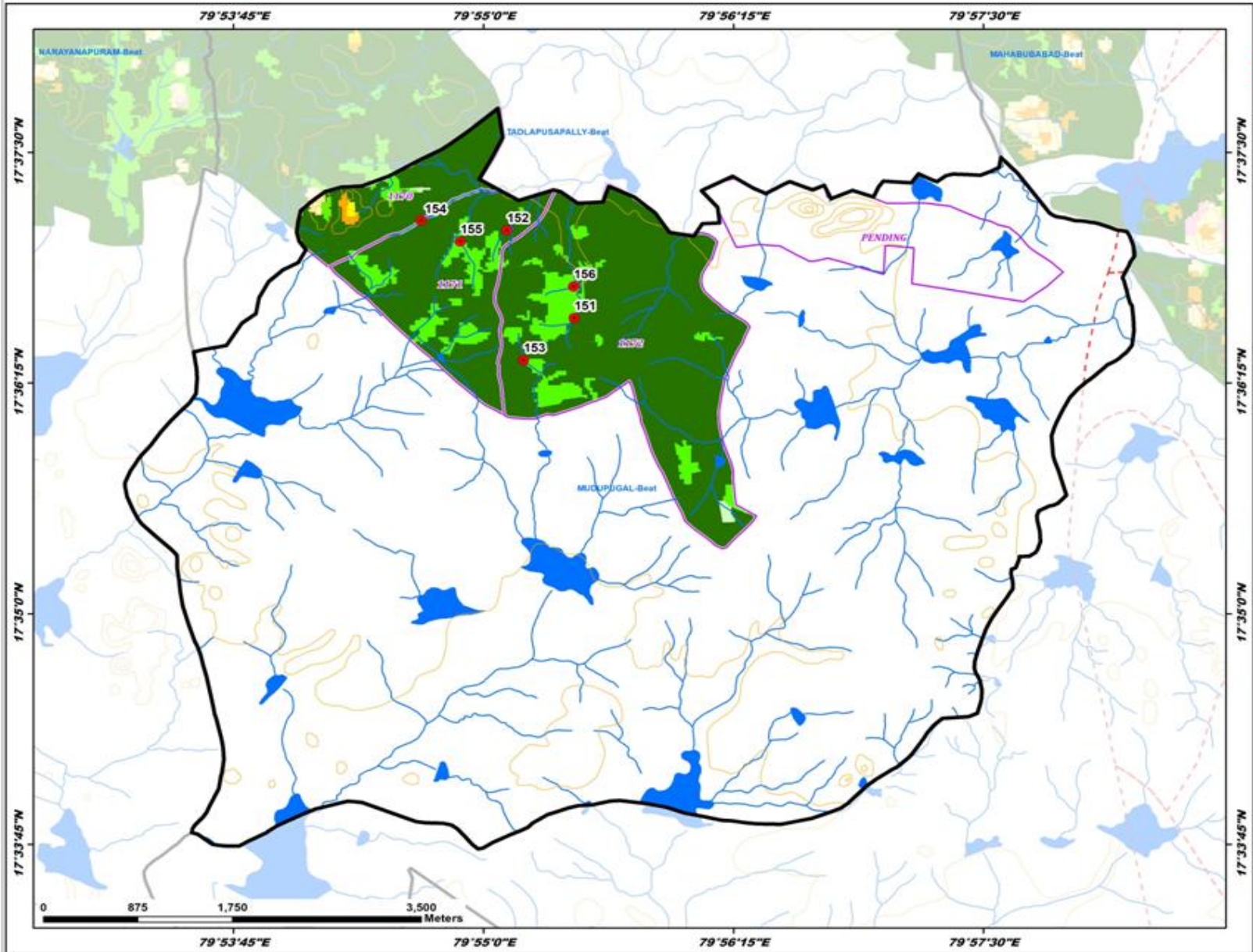
Suitability Index

- 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 Mudupugal Beat



Division : Mahabubabad
Range : Mahabubabad



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
151	17.630099	79.924219	21.57	I
152	17.6317972	79.918622	13.94	I
153	17.606241	79.920012	12.57	I
154	17.638949	79.911473	19.26	I
155	17.636947	79.914743	15.86	II
156	17.642900	79.924177	15.20	II

Legend

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

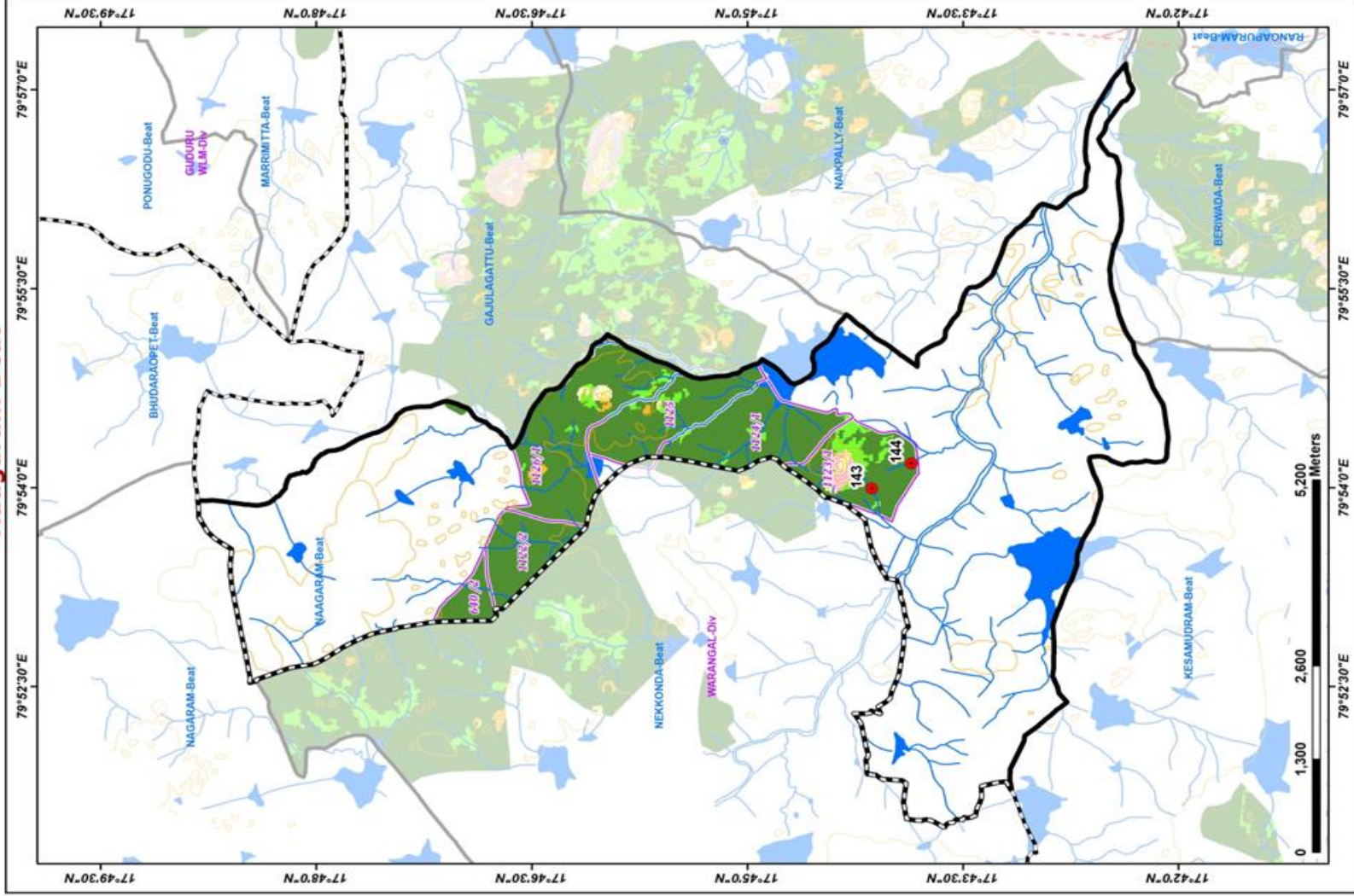
Suitability Index

- 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 Naagam Beat



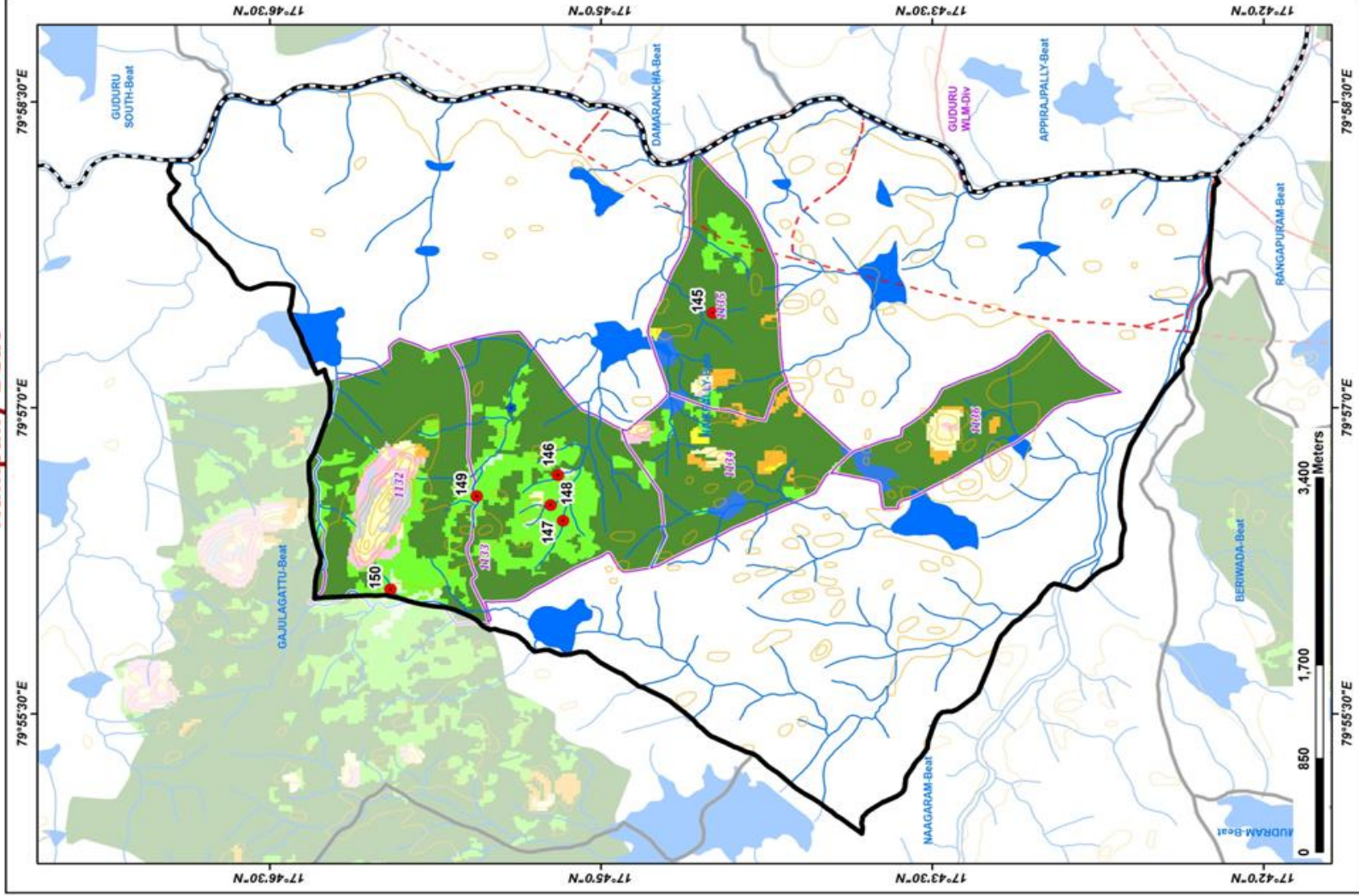
Division : Mahabubabad
Range : Mahabubabad



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



Division : Mahabubabad
Range : Mahabubabad



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
145	17.741552	79.957794	13.21	I
146	17.733251	79.944530	11.36	I
147	17.752845	79.940789	21.01	II
148	17.753800	79.942085	17.74	II
149	17.759378	79.942815	32.87	III
150	17.765868	79.932005	10.39	IV

LEGEND

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

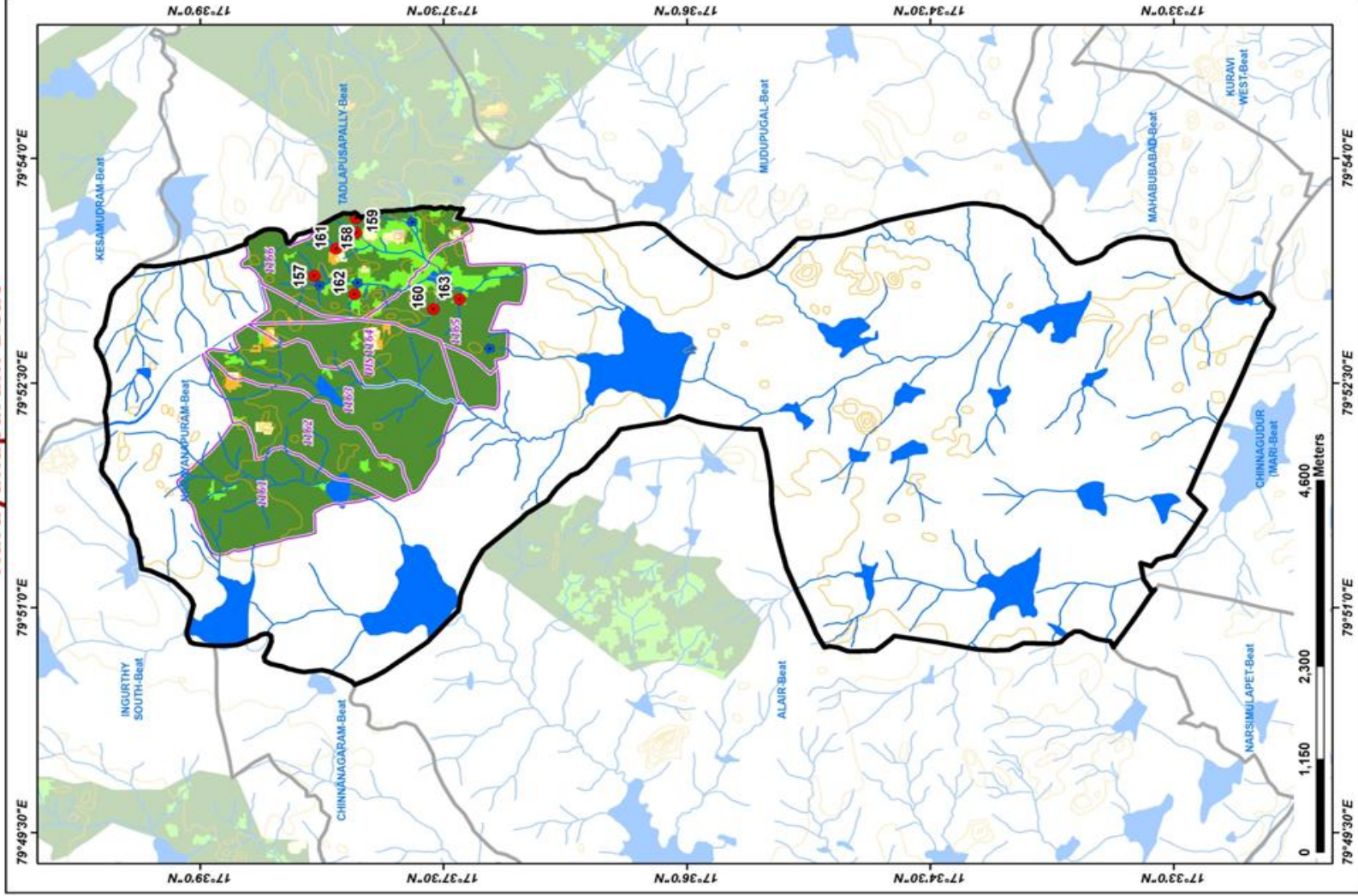
Suitability Index

- CCTs/SCTs - Highly Suitable
- CCTs/SCTs - Moderately Suitable
- CCTs/SCTs - Least Suitable
- P/Ts - Highly Suitable
- P/Ts - Moderately Suitable
- P/Ts - Least Suitable
- M/P/Ts and S/GPs - Suitable
- Not Suitable
- Water Body

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



Division : Mahabubabad
Range : Mahabubabad



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
157	17.638271	79.88979	7.39	I
158	17.633982	79.893393	8.77	I
159	17.633975	79.891811	9.95	I
160	17.626035	79.883268	12.46	I
161	17.626036	79.889986	14.96	I
162	17.624134	79.889335	11.13	II
163	17.623320	79.884367	21.15	II

LEGEND

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

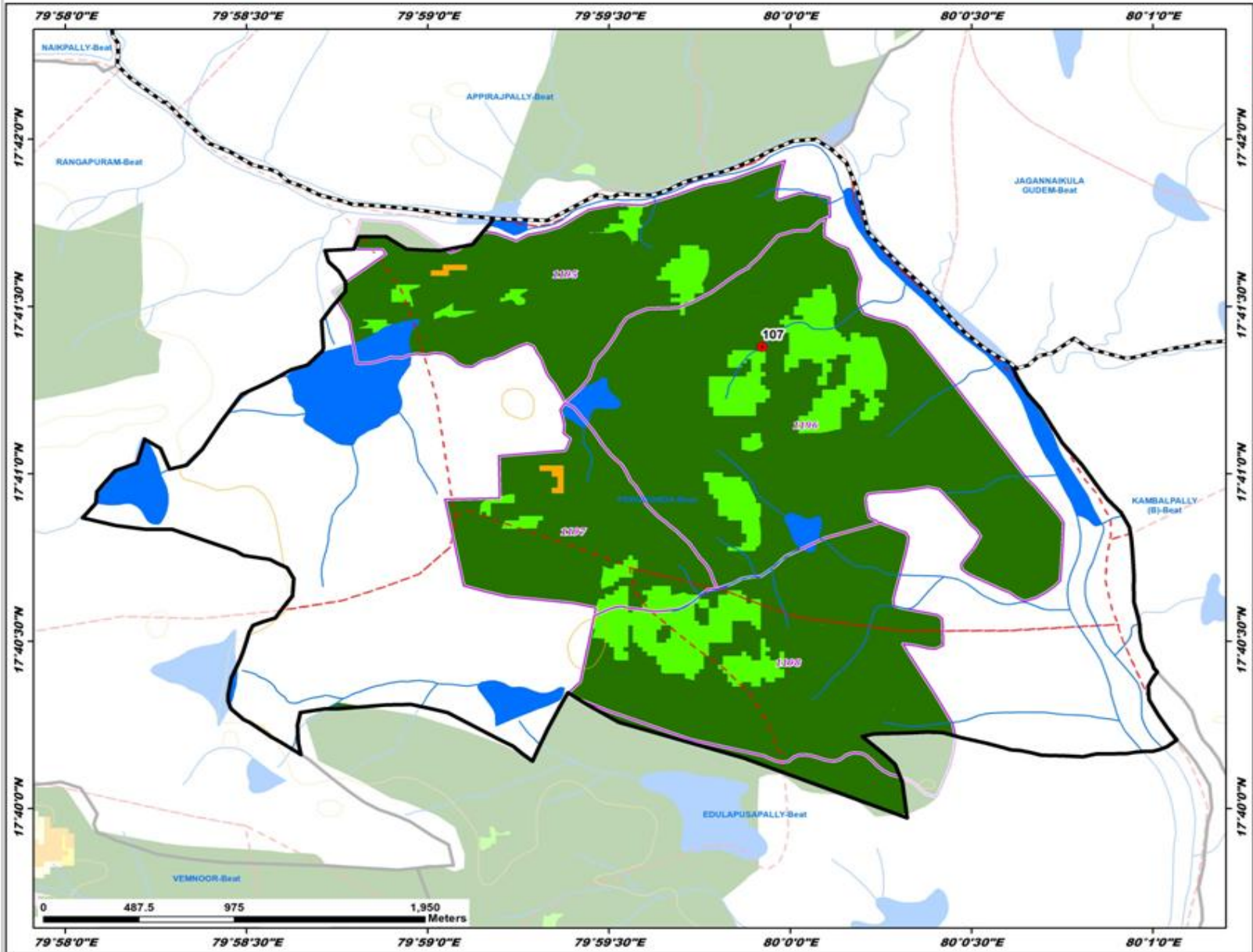
Suitability Index

- CCTs/SCTs - Highly Suitable
- CCTs/SCTs - Moderately Suitable
- CCTs/SCTs - Least Suitable
- P/Ts - Highly Suitable
- P/Ts - Moderately Suitable
- P/Ts - Least Suitable
- M/P/Ts and S/GPs - Suitable
- Not Suitable
- Water Body

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



Division : Mahabubabad
Range : Mahabubabad



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
107	17.689657	79.998701	15.63	1

Legend

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

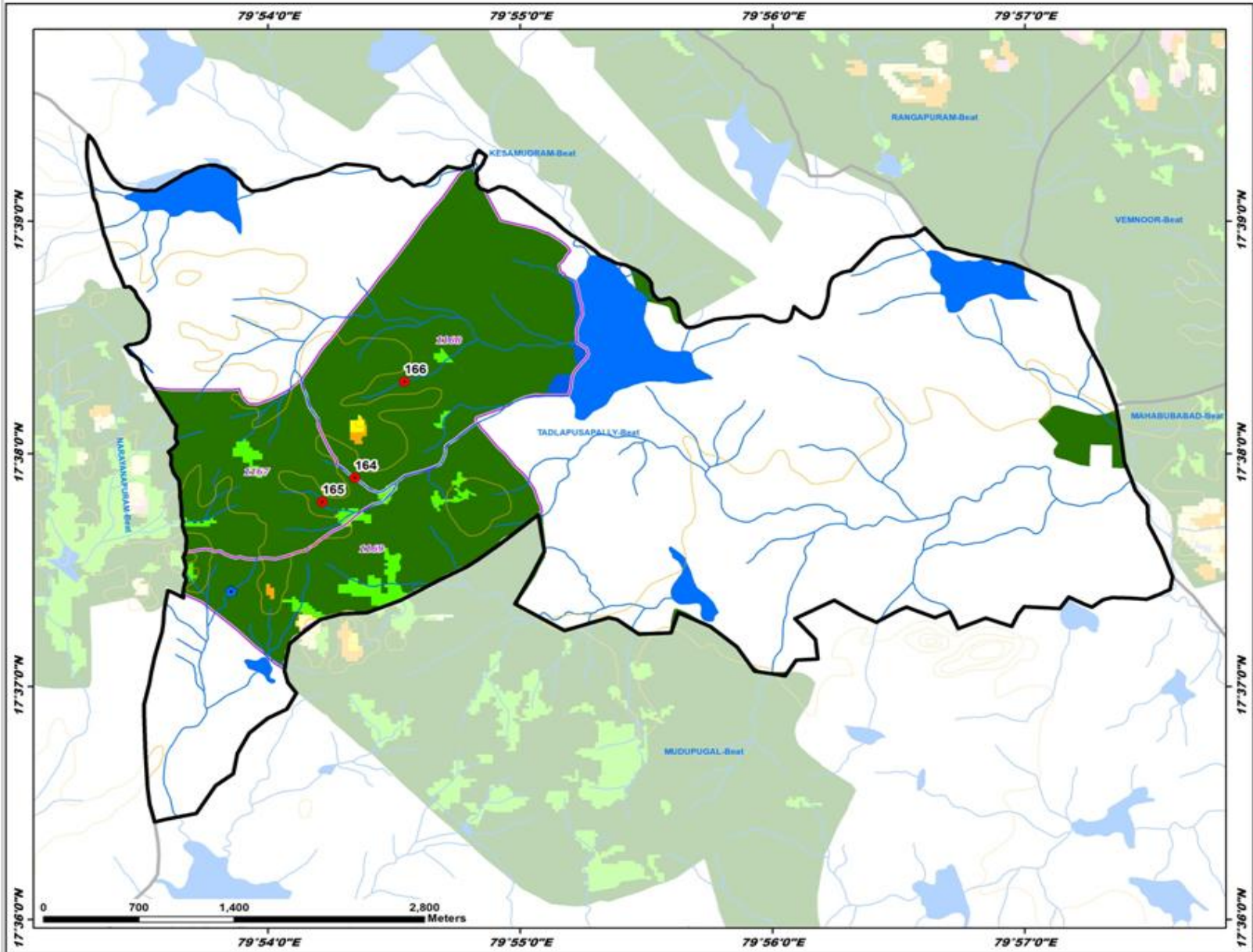
Suitability Index

- 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 Tadlapusapally Beat



Division : Mahabubabad
Range : Mahabubabad



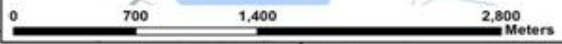
ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
164	17.631632	79.905733	13.58	I
165	17.629889	79.903578	17.88	I
166	17.638506	79.909014	16.18	I

Legend

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

Suitability Index

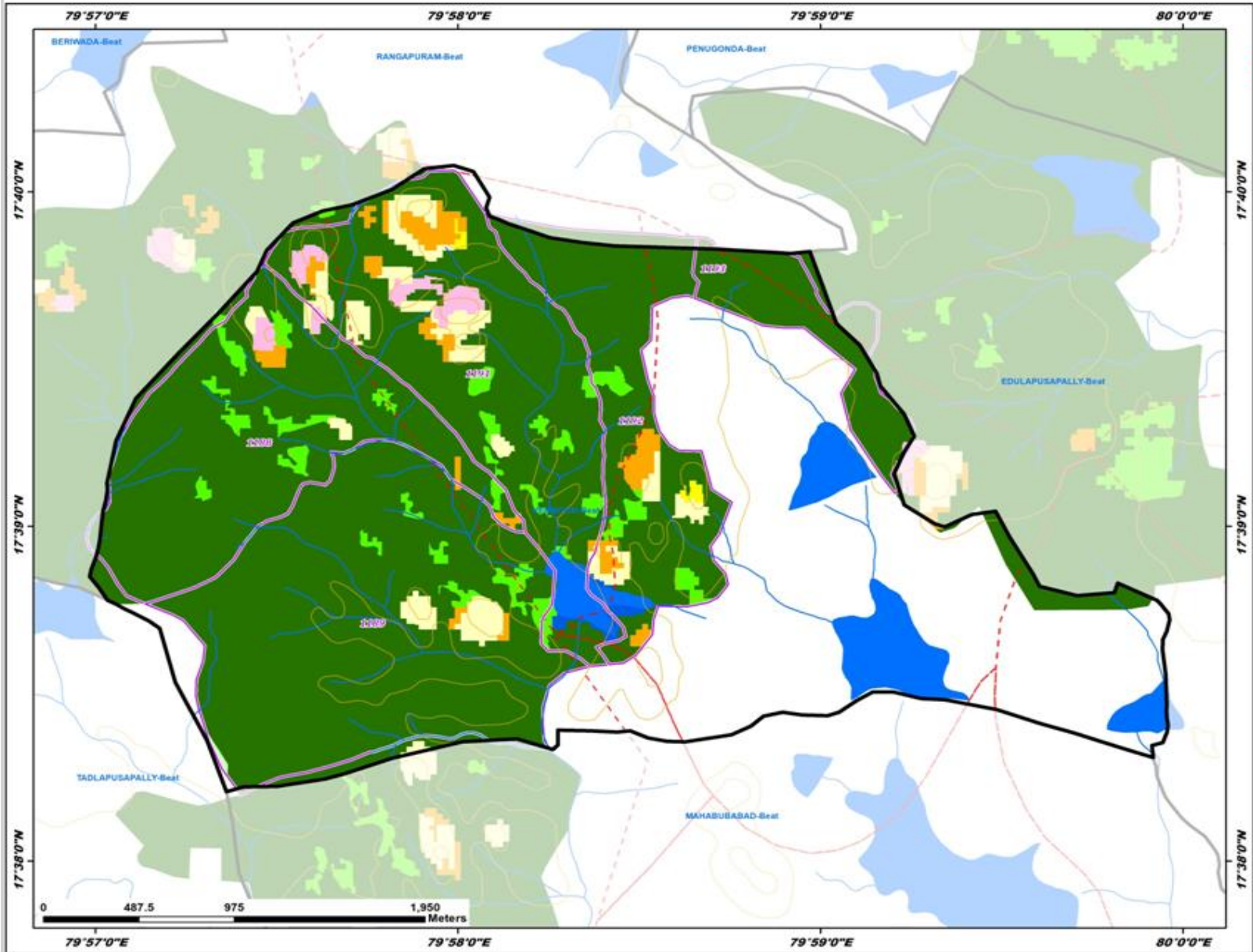
- CCTs/SCTs - Highly Suitable
- CCTs/SCTs - Moderately Suitable
- CCTs/SCTs - Least Suitable
- PTs - Highly Suitable
- PTs - Moderately Suitable
- PTs - Least Suitable
- MPTs and SGP's - Suitable
- Not Suitable
- Water Body



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



Division : Mahabubabad
Range : Mahabubabad



Legend

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

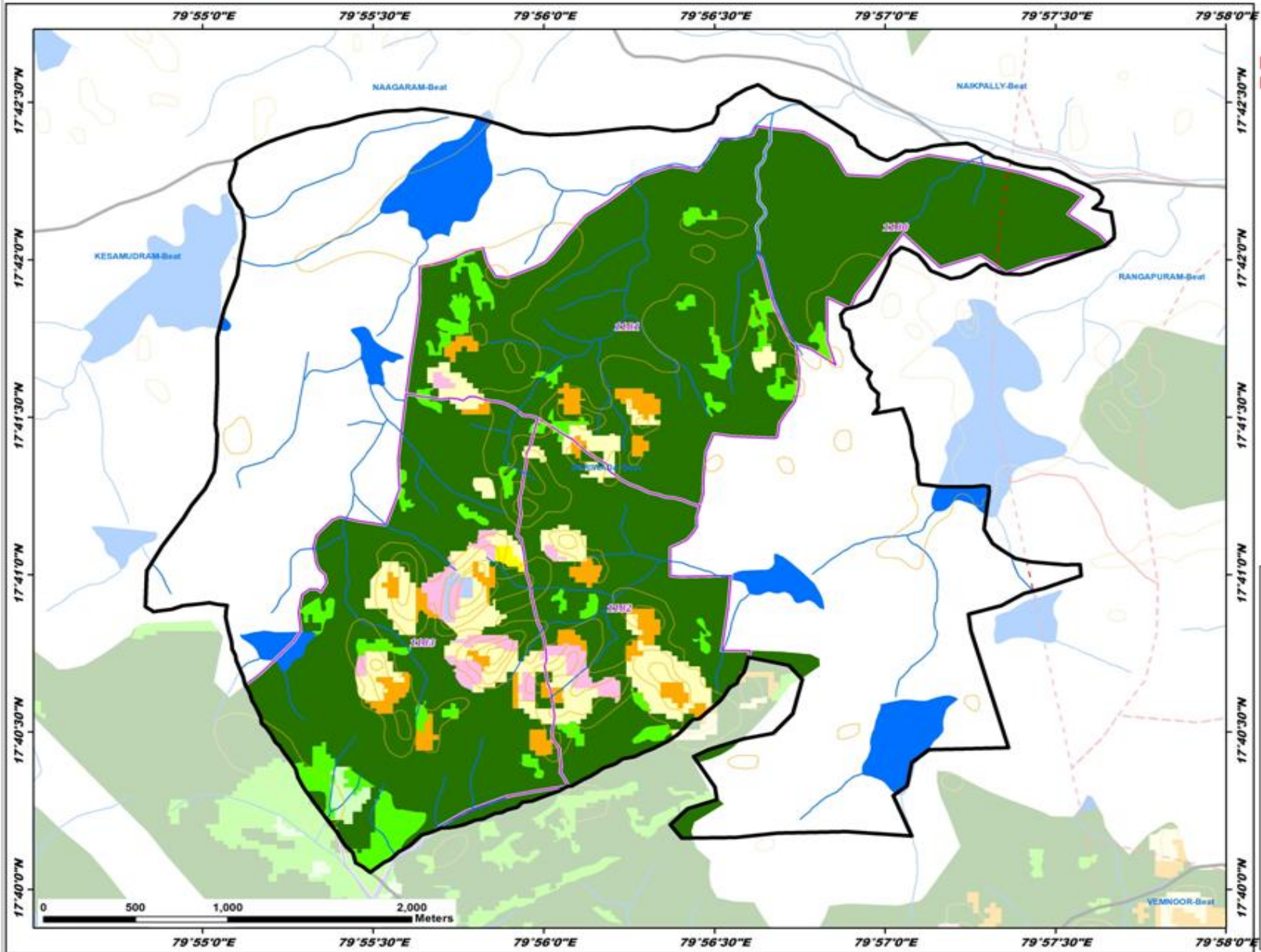
Suitability Index

- 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

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



Division : Mahabubabad
Range : Mahabubabad



Legend

- Existing CD/PtS
- Contours
- Streams
- Watershed Boundary
- Compartment Boundary
- Beat Boundary
- Division Boundary

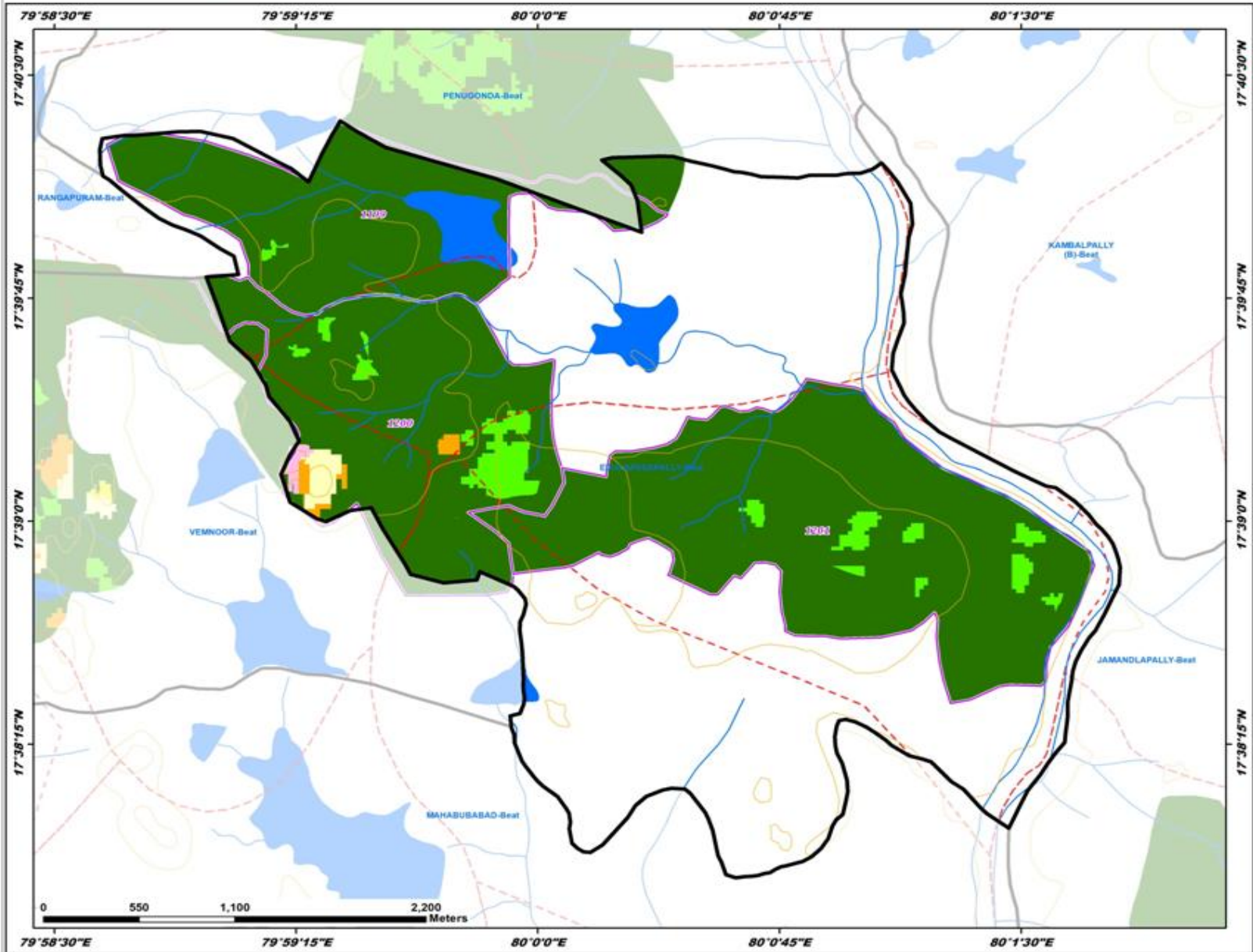
Suitability Index

- 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

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



Division : Mahabubabad
Range : Mahabubabad



Legend

- Existing CD/PtS
- Contours
- Streams
- Watershed Boundary
- Compartment Boundary
- Beat Boundary
- Division Boundary

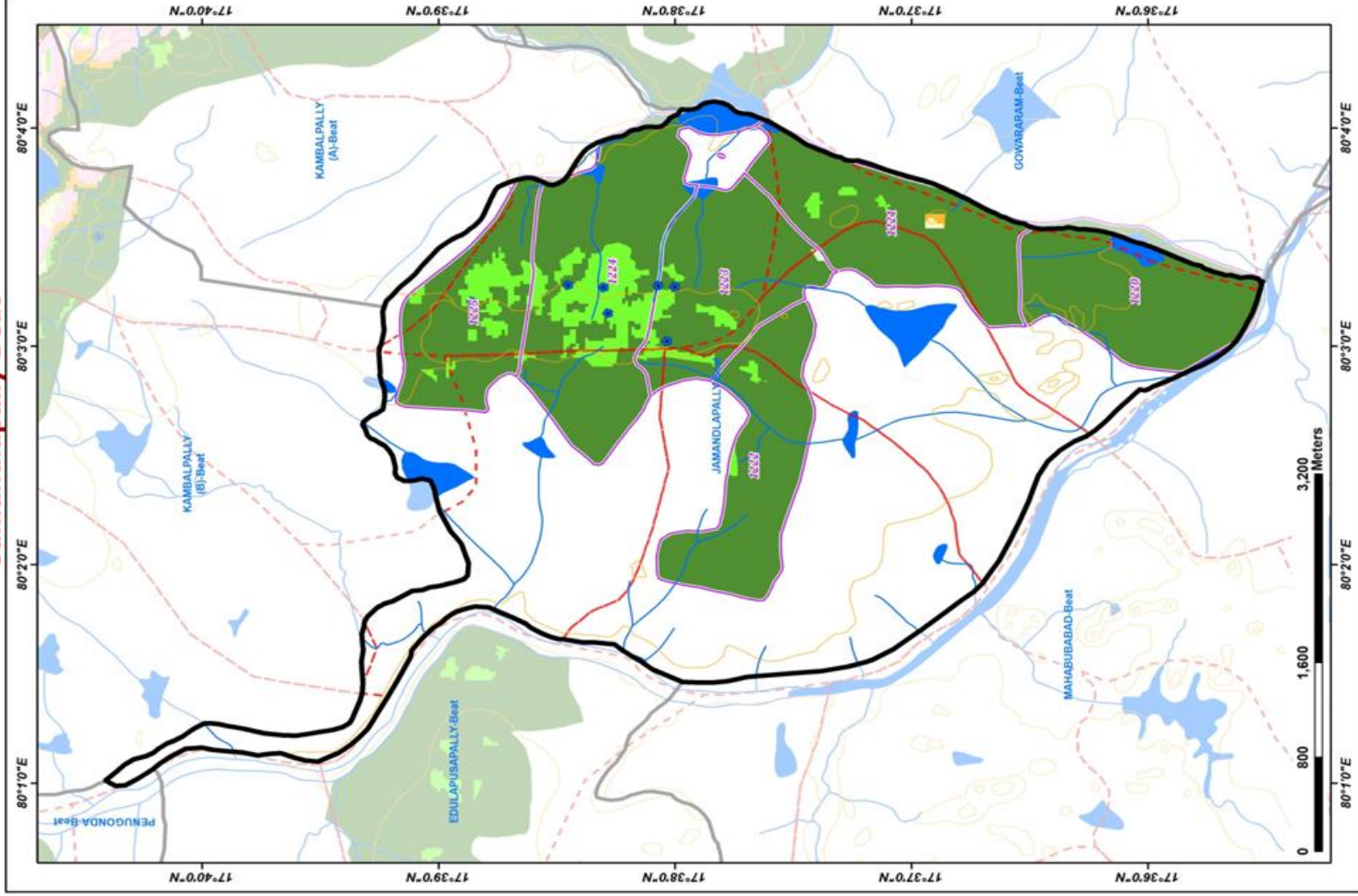
Suitability Index

- CCTs/SCtS - Highly Suitable
- CCTs/SCtS - Moderately Suitable
- CCTs/SCtS - Least Suitable
- PTs - Highly Suitable
- PTs - Moderately Suitable
- PTs - Least Suitable
- MPTs and SGPtS - Suitable
- Not Suitable
- Water Body

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



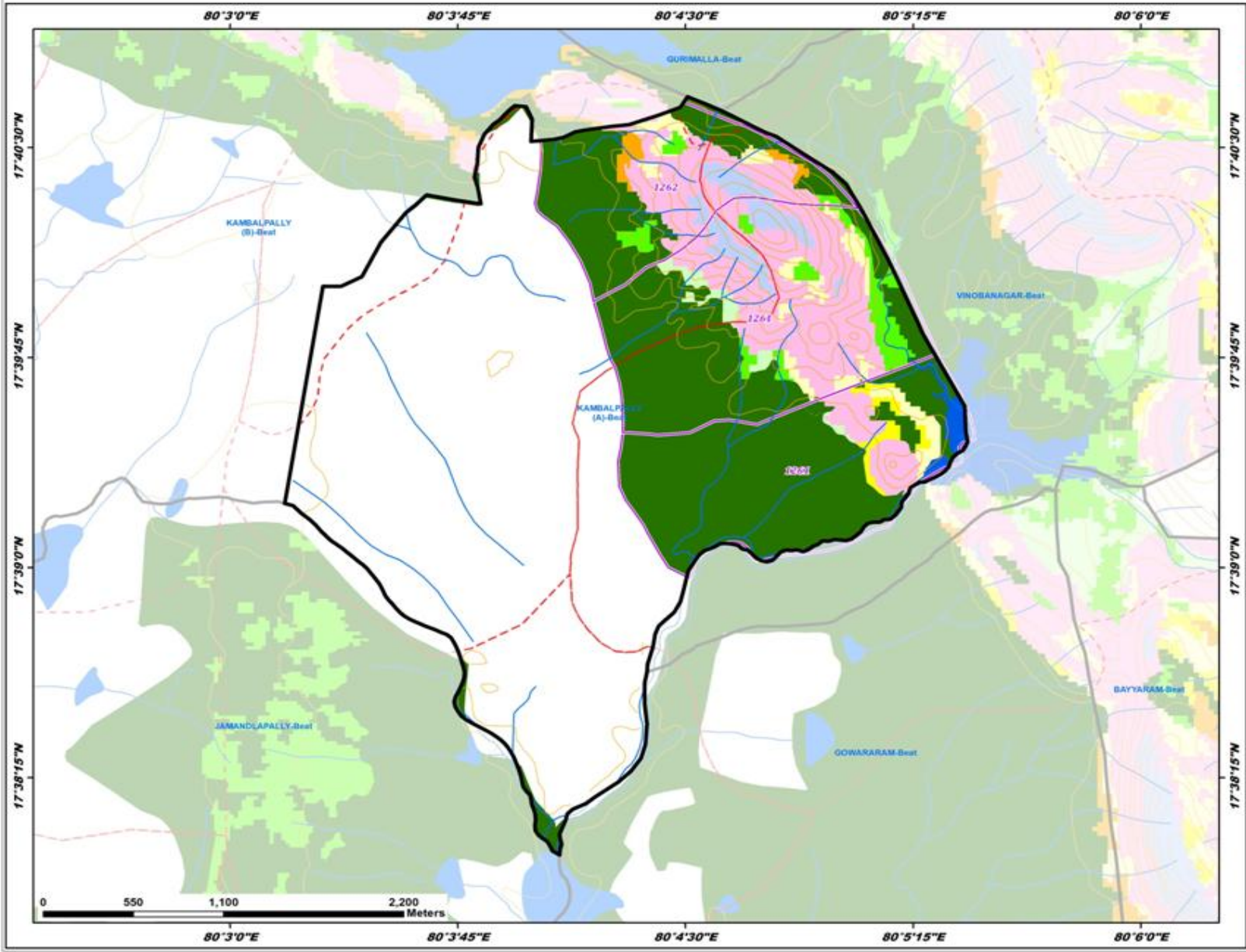
Division : Mahabubabad
Range : Mahabubabad



Map Showing Suitability Index for Construction of SMC Works of Kambalpally (A) Beat



Division : Mahabubabad
Range : Mahabubabad

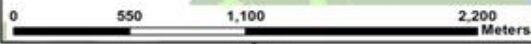


Legend

- 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



80°3'0"E 80°3'45"E 80°4'30"E 80°5'15"E 80°6'0"E

17°40'30"N

17°39'45"N

17°39'0"N

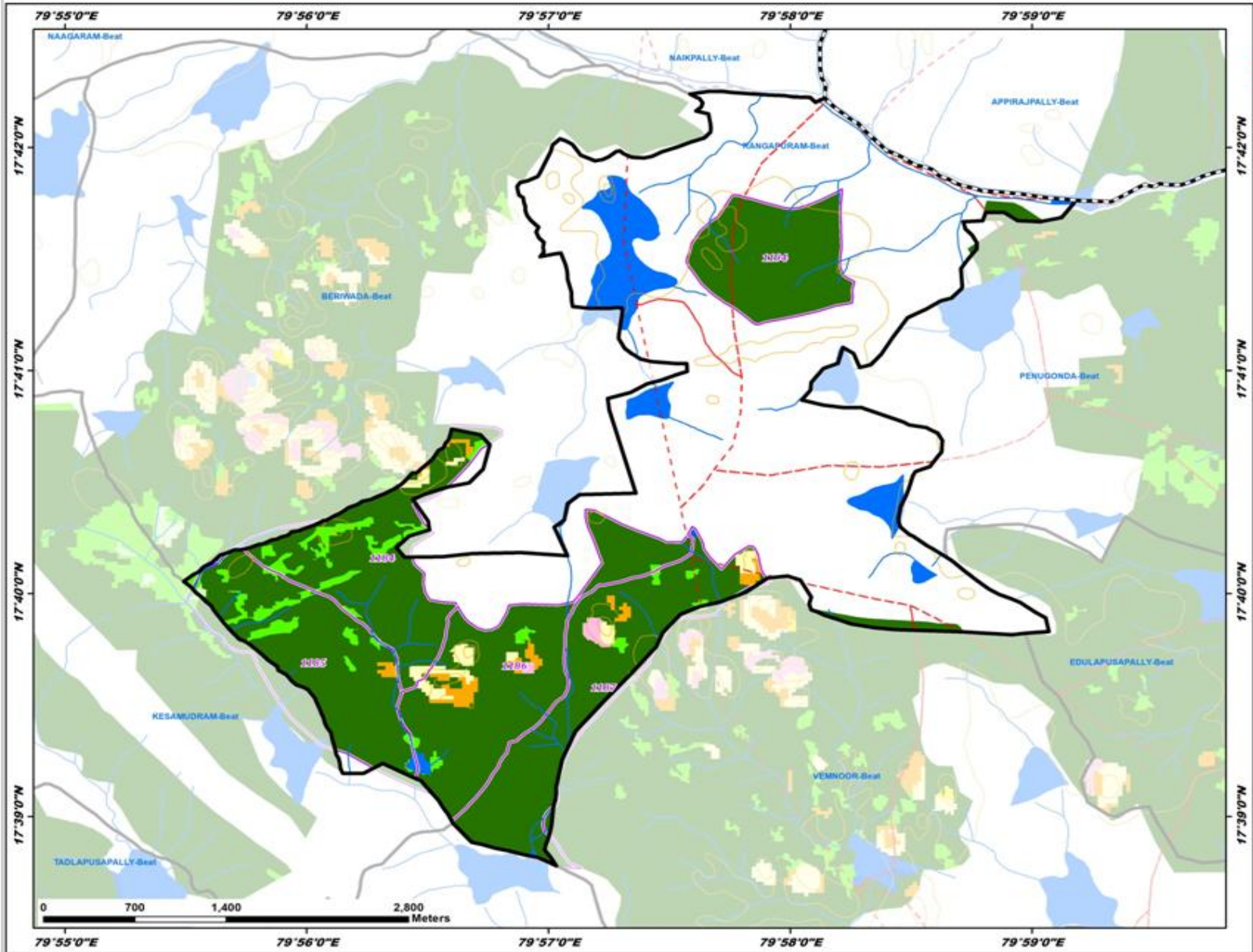
17°38'15"N

80°3'0"E 80°3'45"E 80°4'30"E 80°5'15"E 80°6'0"E

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



Division : Mahabubabad
Range : Mahabubabad



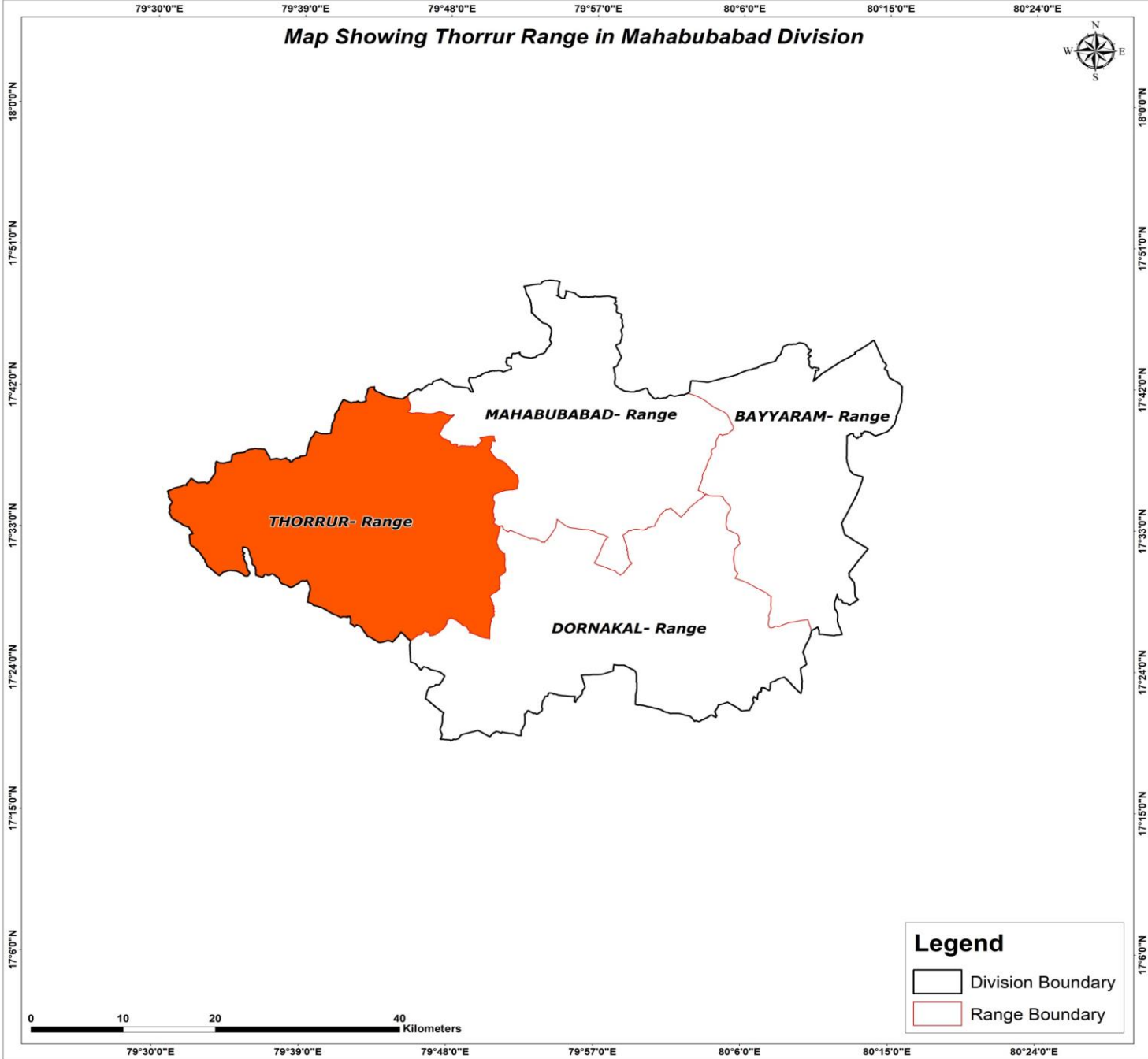
Legend

- Existing CD/PtS
- Contours
- Streams
- Watershed Boundary
- Compartment Boundary
- Beat Boundary
- Division Boundary

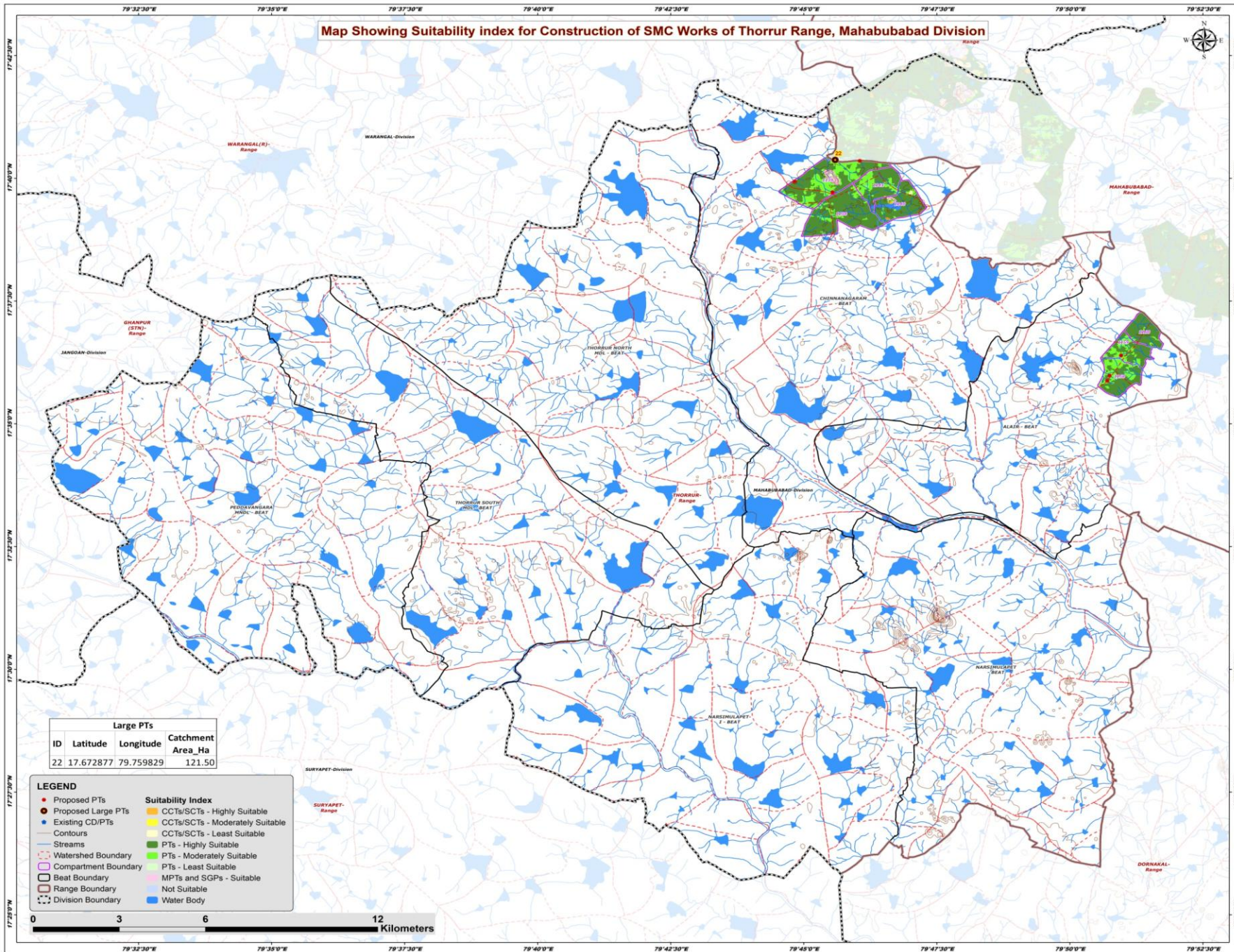
Suitability Index

- 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 Thorrur Range in Mahabubabad Division



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

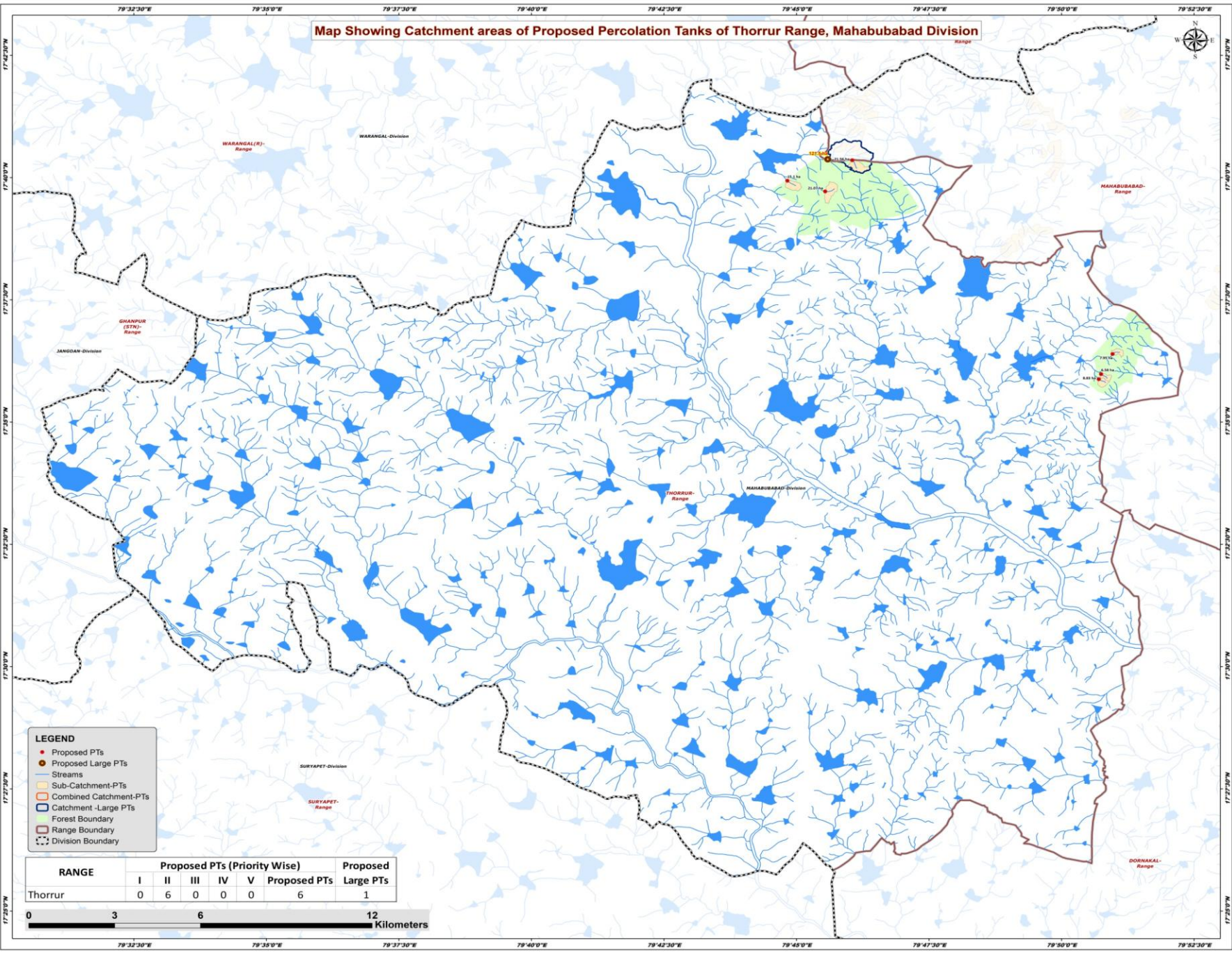


Large PTs			
ID	Latitude	Longitude	Catchment Area_Ha
22	17.672877	79.759829	121.50

- 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 SGP - Suitable
 - Not Suitable
 - Water Body



Map Showing Catchment areas of Proposed Percolation Tanks of Thorur Range, Mahabubabad 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		
Thorur	0	6	0	0	0	6	1



Beat wise Abstract of Proposed PT's – Thorrur Range

S. No.	Beat	Proposed PT's
1	ALAIR	3
2	CHINNANAGARAM	3
	Total	6

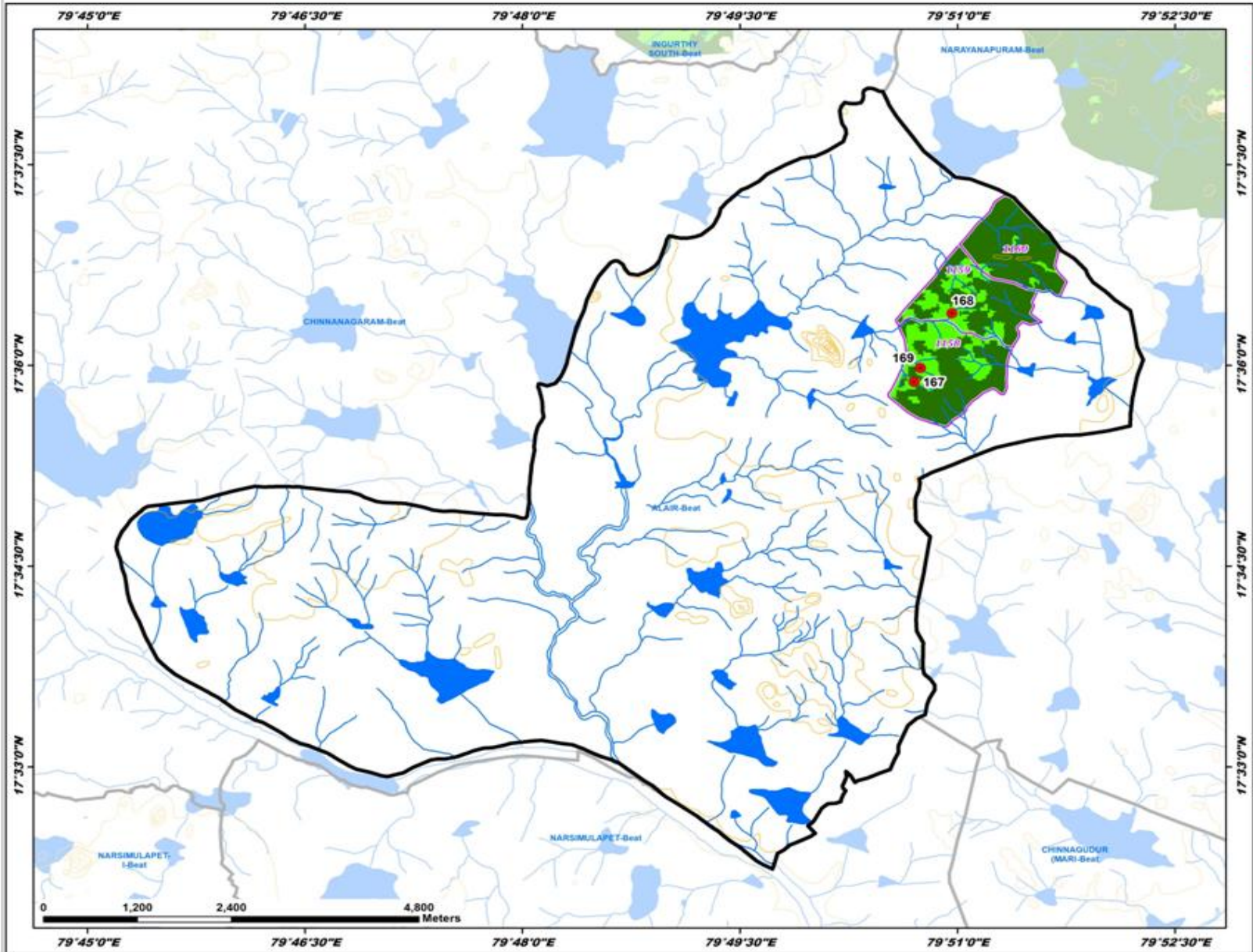
List of Proposed PTs – Thorrur Range

ID	Latitude	Longitude	Catchment Area_Ha	Priority	Beat
167	17.597952	79.845042	8.83	II	ALAIR
168	17.606504	79.849393	7.95	II	ALAIR
169	17.599682	79.845755	6.58	II	ALAIR
170	17.665572	79.747130	15.10	II	CHINNANAGARAM
171	17.672552	79.767546	21.56	II	CHINNANAGARAM
172	17.661942	79.759018	21.07	II	CHINNANAGARAM

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



Division : Mahabubabad
Range : Thorror



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
167	17.597952	79.845042	8.83	II
168	17.606504	79.849393	7.95	II
169	17.599682	79.845755	6.58	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 Chinnanagaram Beat



Division : Mahabubabad
Range : Thorrrur

