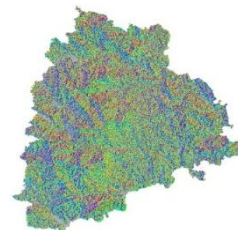
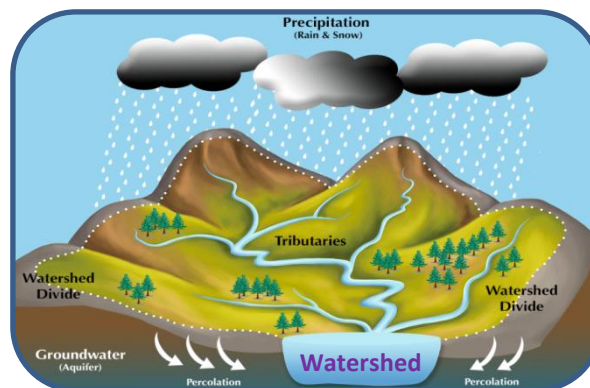


Government of Telangana – Forest Department



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

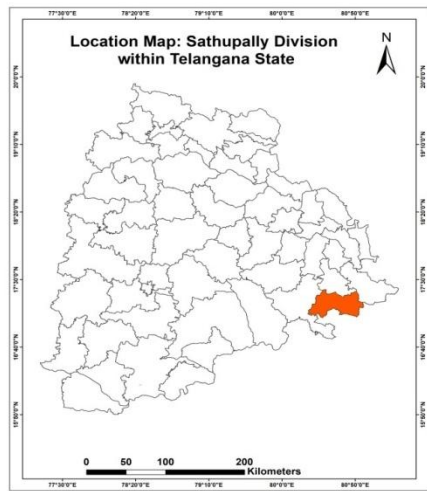
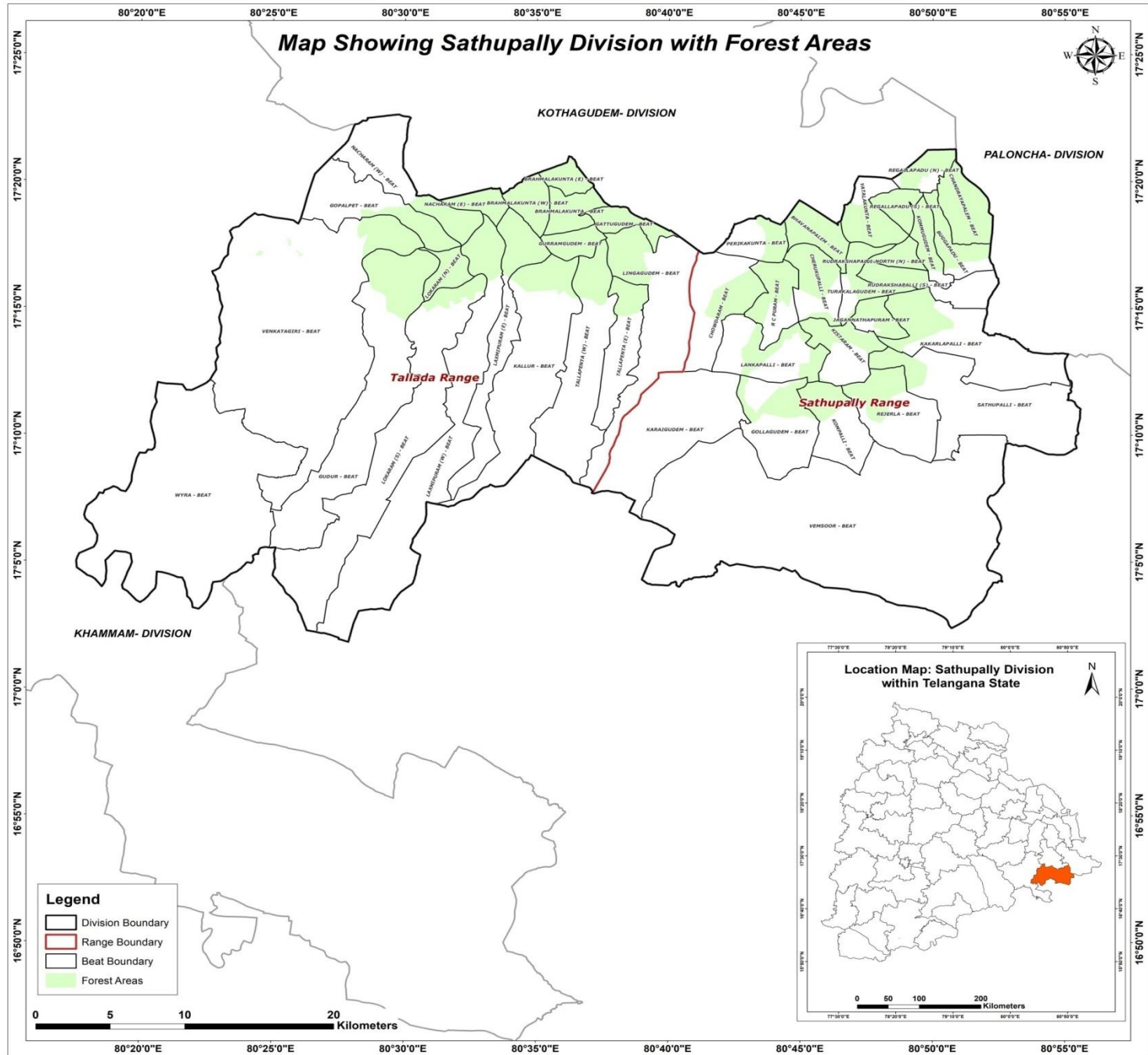


SITE SUITABILITY ANALYSIS FOR WATER HARVESTING STRUCTURES USING REMOTE SENSING & GIS

Circle: Bhadradi
District: Khammam
Division: Sathupally

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

Map Showing Sathupally 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.



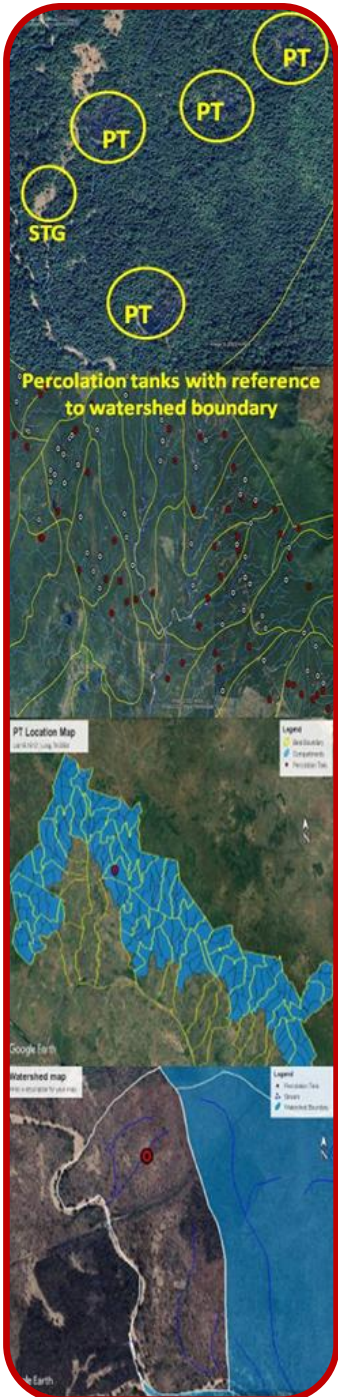
Suitability criteria for Check-Dams and Percolation Tanks (SITE SUITABILITY INDEX)

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





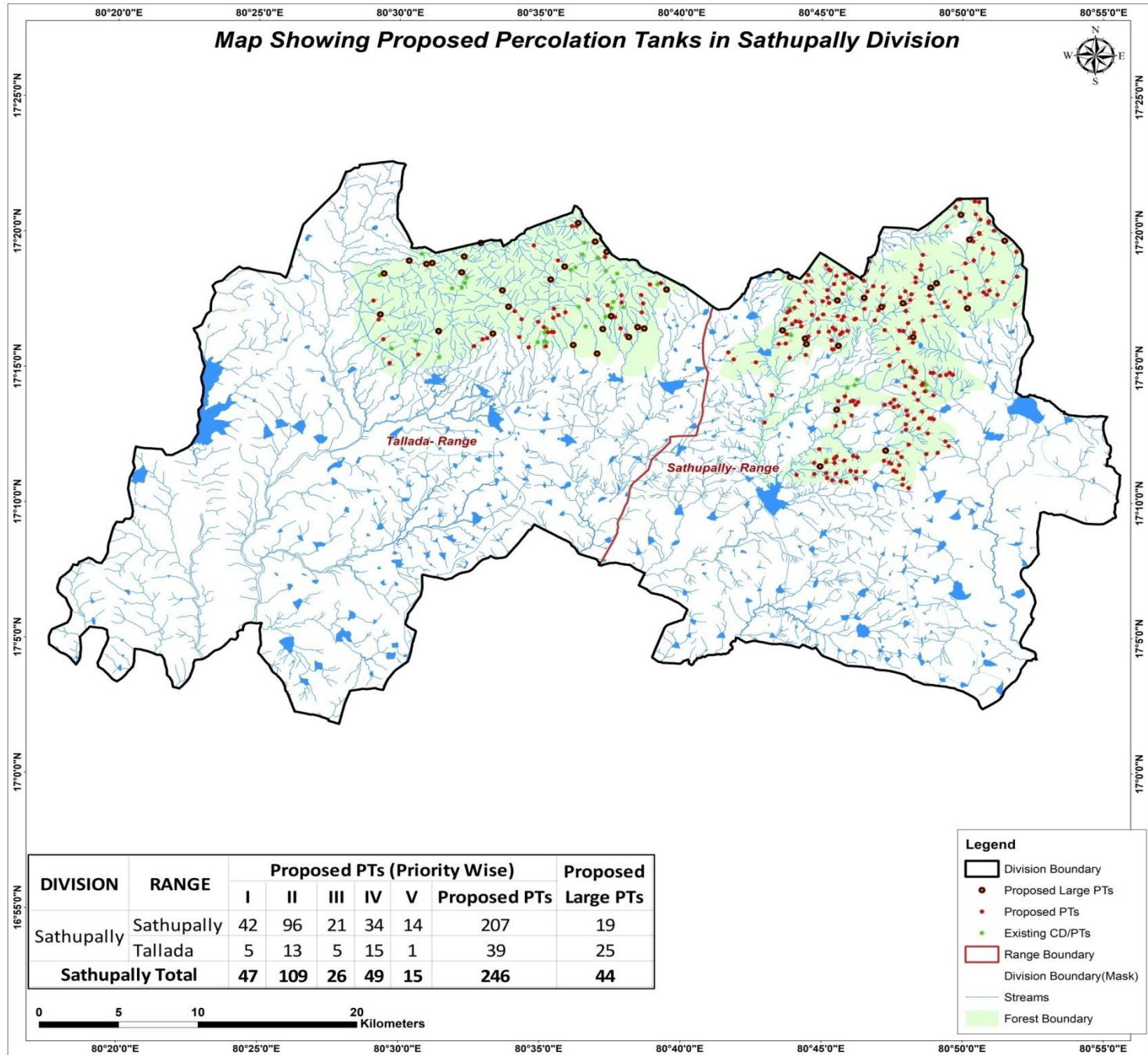
PRIORITY CLASSES FOR PERCOLATION TANK

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





Map Showing Proposed Percolation Tanks in Sathupally Division

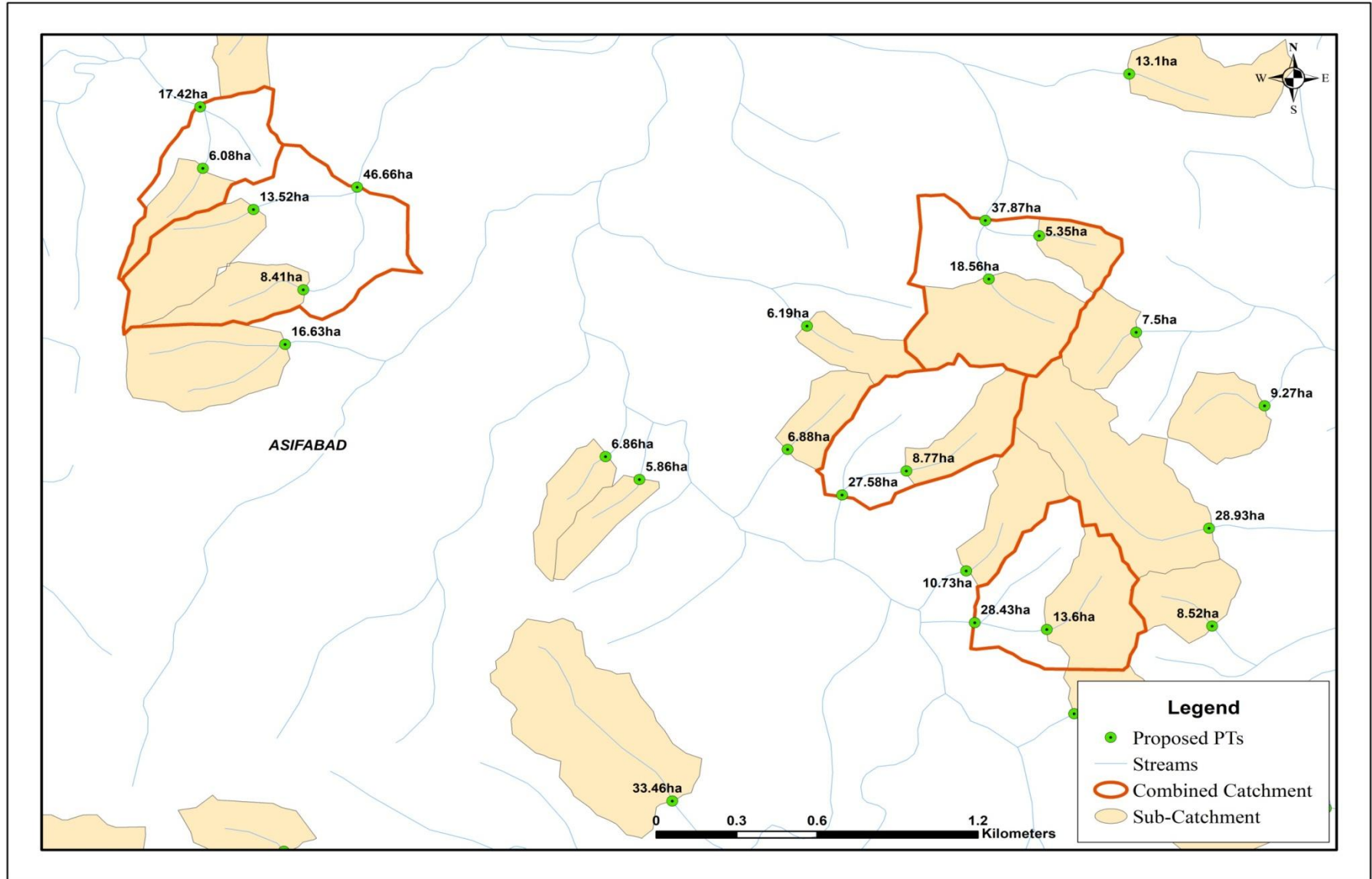


DIVISION	RANGE	Proposed PTs (Priority Wise)					Proposed PTs	Proposed Large PTs
		I	II	III	IV	V		
Sathupally	Sathupally	42	96	21	34	14	207	19
	Tallada	5	13	5	15	1	39	25
Sathupally Total		47	109	26	49	15	246	44

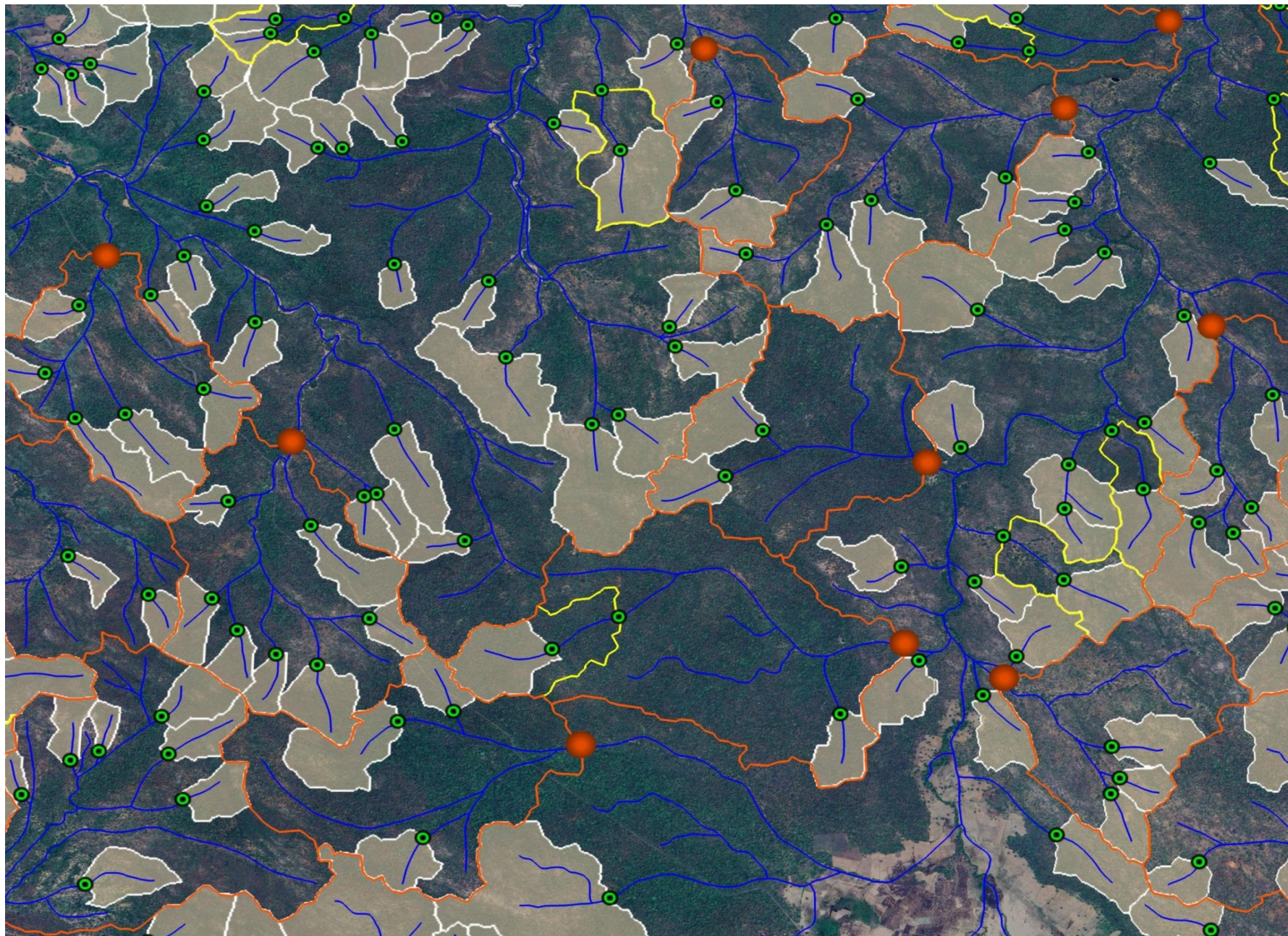
- Legend**
- Division Boundary
 - Proposed Large PTs
 - Proposed PTs
 - Existing CD/PTs
 - Range Boundary
 - Division Boundary(Mask)
 - Streams
 - Forest Boundary



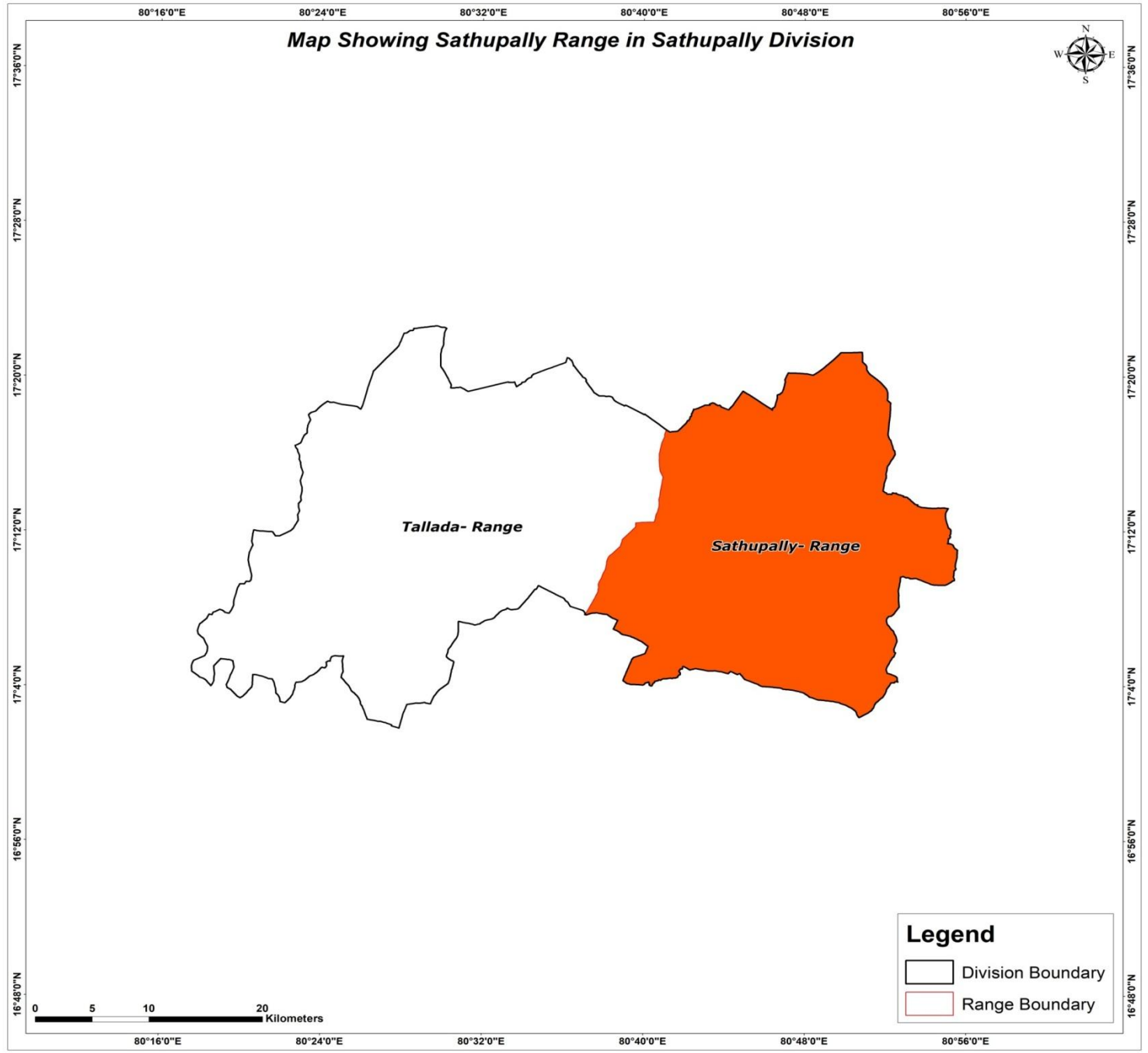
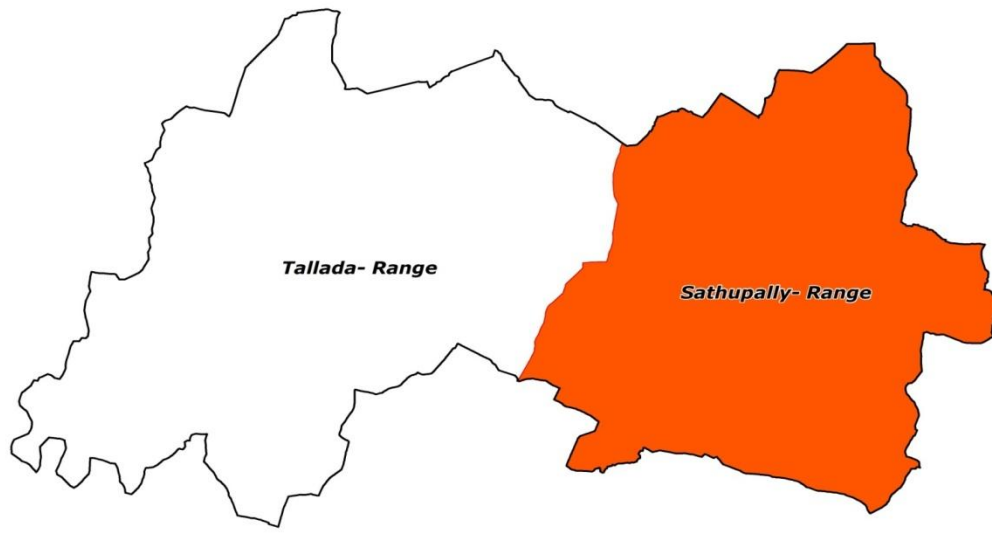
CATCHMENT AREA



Sample Catchment Map

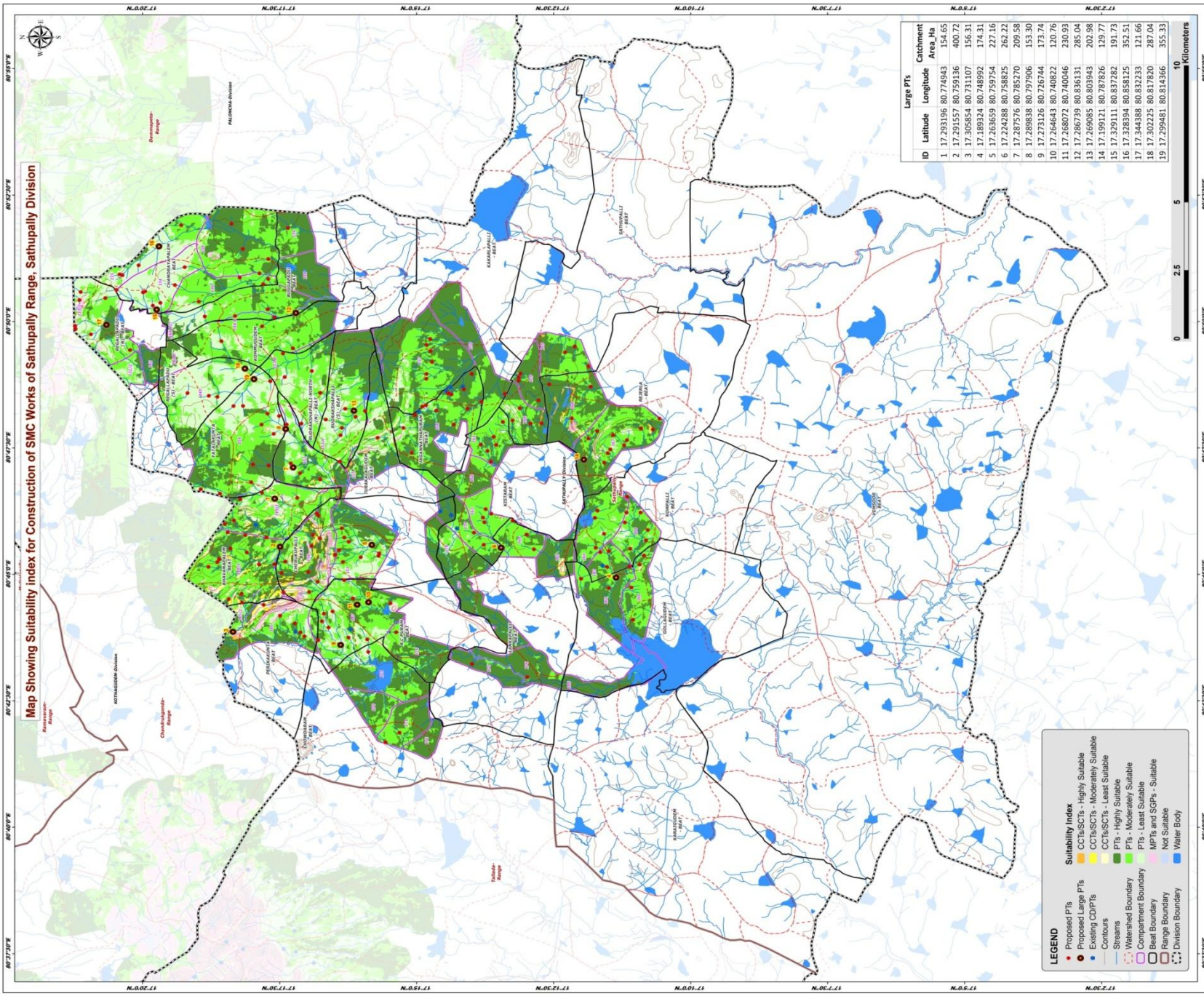


Map Showing Sathupally Range in Sathupally Division

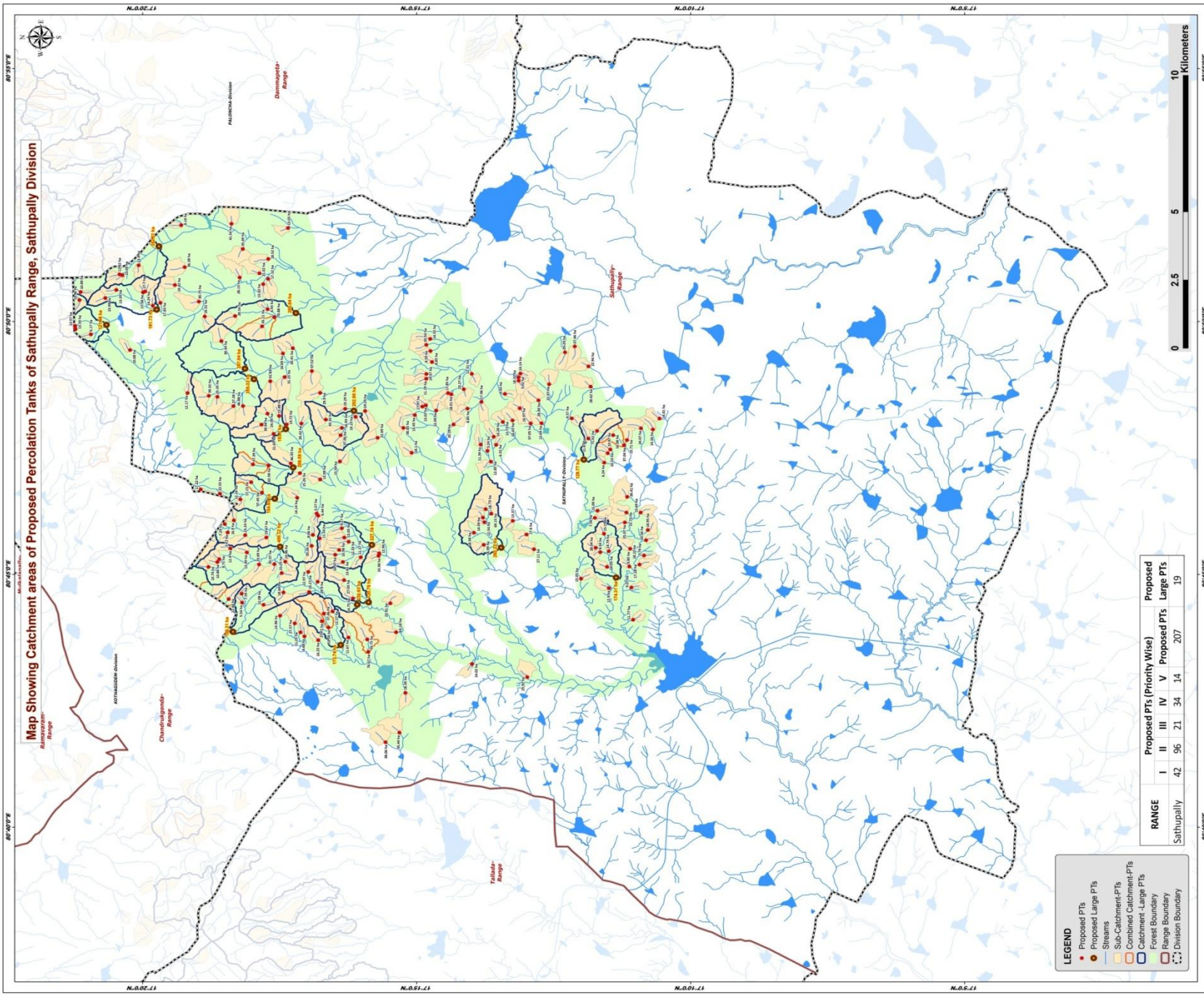


Legend

-  Division Boundary
-  Range Boundary

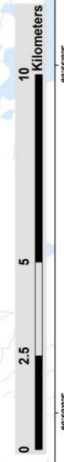


Map Showing Catchment areas of Proposed Percolation Tanks of Sathupally Range, Sathupally Division



- 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	
Sathupally	42	96	21	34	14	207
						19



N.0.00E.11 17.00N 17.05N 17.10N 17.15N

80.407E 80.457E 80.507E 80.557E

Falagona Division

Dummuguda Range

Sathupally Range

Choudhigonda Range

Sathupally Division

Talabir Range

N.0.00E.11 N.0.01.11 N.0.01.11 N.0.01.11 N.0.01.11

80.407E 80.457E 80.507E 80.557E

Beat wise Abstract of Proposed PT's – Sathupally Range

S. No.	Beat	Proposed PT's
1	BHAVANAPALEM	19
2	BUGGAPADU	5
3	CHANDRAYAPALEM	19
4	CHERUKUPALLI	19
5	CHOWDARAM	4
6	GOLLAGUDEM	6
7	JAGANNATHAPURAM	12
8	KAKARLAPALLI	8
9	KISTARAM	12
10	KOMMUGUDEM	3
11	KOMPALLI	15
12	LANKAPALLI	5
13	PERIKAKUNTA	5
14	R C PURAM	11
15	REGALLAPADU NORTH	7
16	REGALLAPADU SOUTH	3
17	REJERLA	14
18	RUDRAKSHAPALLI-NORTH	5
19	RUDRAKSHAPALLI-SOUTH	7
20	SATHUPALLI	11
21	TURAKALAGUDEM	5
22	YATALAKUNTA	12
	Total	207

List of Proposed PTs – Sathupally 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	17.308356	80.766575	7.29	I	BHAVANAPALEM	41	17.289959	80.754231	14.96	II	CHERUKUPALLI	81	17.265028	80.728594	59.75	IV	R C PURAM
2	17.310053	80.755036	9.71	I	BHAVANAPALEM	42	17.272414	80.754135	13.61	II	CHERUKUPALLI	82	17.275592	80.737797	11.27	IV	R C PURAM
3	17.306646	80.758569	12.40	I	BHAVANAPALEM	43	17.270664	80.760773	12.33	II	CHERUKUPALLI	83	17.256251	80.730955	63.18	IV	R C PURAM
4	17.290516	80.744068	18.64	I	BHAVANAPALEM	44	17.272782	80.765209	9.17	II	CHERUKUPALLI	84	17.272091	80.748110	27.05	V	R C PURAM
5	17.295725	80.762185	23.67	I	BHAVANAPALEM	45	17.271996	80.762188	13.05	II	CHERUKUPALLI	85	17.278197	80.737082	37.46	V	R C PURAM
6	17.305603	80.767823	16.90	I	BHAVANAPALEM	46	17.280419	80.770090	5.57	II	CHERUKUPALLI	86	17.276820	80.732492	51.59	V	R C PURAM
7	17.307194	80.741881	22.44	I	BHAVANAPALEM	47	17.282990	80.750828	12.97	II	CHERUKUPALLI	87	17.289146	80.864158	13.03	I	BUGGAPADU
8	17.313337	80.752476	10.74	II	BHAVANAPALEM	48	17.280141	80.747582	29.90	III	CHERUKUPALLI	88	17.295331	80.837374	6.93	II	BUGGAPADU
9	17.307487	80.763866	7.72	II	BHAVANAPALEM	49	17.261407	80.756950	12.94	IV	CHERUKUPALLI	89	17.305241	80.835163	28.54	III	BUGGAPADU
10	17.303253	80.743675	7.59	II	BHAVANAPALEM	50	17.226536	80.795357	14.28	II	KISTARAM	90	17.314463	80.835013	16.52	IV	BUGGAPADU
11	17.293304	80.753409	35.07	II	BHAVANAPALEM	51	17.229829	80.768755	14.59	II	KISTARAM	91	17.293293	80.834757	70.88	IV	BUGGAPADU
12	17.302149	80.762959	23.24	II	BHAVANAPALEM	52	17.223773	80.800241	12.72	II	KISTARAM	92	17.235655	80.811030	23.27	I	JAGANNATHAPURAM
13	17.310642	80.754073	10.86	II	BHAVANAPALEM	53	17.230517	80.792800	11.39	II	KISTARAM	93	17.234531	80.804652	8.85	I	JAGANNATHAPURAM
14	17.303081	80.740716	5.54	II	BHAVANAPALEM	54	17.229605	80.759769	16.99	II	KISTARAM	94	17.250558	80.802543	13.45	I	JAGANNATHAPURAM
15	17.301647	80.757244	13.49	II	BHAVANAPALEM	55	17.232589	80.763730	18.58	II	KISTARAM	95	17.233220	80.816094	12.31	I	JAGANNATHAPURAM
16	17.286339	80.775264	14.14	II	BHAVANAPALEM	56	17.229385	80.767206	12.54	II	KISTARAM	96	17.239435	80.809356	18.01	I	JAGANNATHAPURAM
17	17.303623	80.774756	12.16	II	BHAVANAPALEM	57	17.227402	80.787186	12.85	II	KISTARAM	97	17.240463	80.809752	17.85	I	JAGANNATHAPURAM
18	17.297962	80.753298	23.69	II	BHAVANAPALEM	58	17.225812	80.792702	6.32	II	KISTARAM	98	17.238775	80.799424	20.39	I	JAGANNATHAPURAM
19	17.297045	80.776941	37.45	III	BHAVANAPALEM	59	17.228471	80.790715	5.24	II	KISTARAM	99	17.251527	80.790100	18.10	II	JAGANNATHAPURAM
20	17.285355	80.730931	11.25	II	PERIKAKUNTA	60	17.229016	80.771534	16.73	II	KISTARAM	100	17.230295	80.806894	17.96	II	JAGANNATHAPURAM
21	17.287088	80.733866	27.57	II	PERIKAKUNTA	61	17.227286	80.770034	69.15	IV	KISTARAM	101	17.244051	80.804022	12.39	II	JAGANNATHAPURAM
22	17.291526	80.736418	14.96	II	PERIKAKUNTA	62	17.285513	80.783383	15.26	I	TURAKALAGUEDEM	102	17.247221	80.805736	13.02	IV	JAGANNATHAPURAM
23	17.296574	80.740002	12.08	II	PERIKAKUNTA	63	17.279342	80.781304	13.99	II	TURAKALAGUEDEM	103	17.254039	80.798271	30.85	V	JAGANNATHAPURAM
24	17.284127	80.729595	8.68	IV	PERIKAKUNTA	64	17.288273	80.786582	46.43	III	TURAKALAGUEDEM	104	17.247074	80.825660	20.54	I	KAKARLAPALLI
25	17.191512	80.745493	12.90	I	GOLLAGUEDEM	65	17.261871	80.795037	22.69	IV	TURAKALAGUEDEM	105	17.223147	80.809481	9.43	I	KAKARLAPALLI
26	17.184172	80.735069	11.77	II	GOLLAGUEDEM	66	17.289559	80.799433	14.72	IV	TURAKALAGUEDEM	106	17.245315	80.820020	8.85	I	KAKARLAPALLI
27	17.200005	80.748615	15.05	II	GOLLAGUEDEM	67	17.253414	80.710974	18.39	I	CHOWDARAM	107	17.245798	80.823654	8.59	II	KAKARLAPALLI
28	17.184686	80.745695	9.07	II	GOLLAGUEDEM	68	17.255227	80.697848	35.44	III	CHOWDARAM	108	17.247022	80.816060	19.37	II	KAKARLAPALLI
29	17.180835	80.756234	7.79	II	GOLLAGUEDEM	69	17.259487	80.694699	38.06	III	CHOWDARAM	109	17.247069	80.814477	11.19	II	KAKARLAPALLI
30	17.182221	80.753259	17.28	II	GOLLAGUEDEM	70	17.264711	80.724473	76.67	V	CHOWDARAM	110	17.245864	80.827611	14.52	II	KAKARLAPALLI
31	17.291051	80.750466	21.25	I	CHERUKUPALLI	71	17.233162	80.720501	14.02	I	LANKAPALLI	111	17.248282	80.805319	17.97	II	KAKARLAPALLI
32	17.273572	80.758063	10.98	I	CHERUKUPALLI	72	17.216560	80.763175	17.60	I	LANKAPALLI	112	17.287684	80.824521	20.41	II	KOMMUGUEDEM
33	17.274762	80.756483	10.37	I	CHERUKUPALLI	73	17.220739	80.767679	15.37	II	LANKAPALLI	113	17.309391	80.826887	30.34	III	KOMMUGUEDEM
34	17.279917	80.769353	6.44	I	CHERUKUPALLI	74	17.214300	80.758294	27.11	III	LANKAPALLI	114	17.297026	80.831751	45.11	III	KOMMUGUEDEM
35	17.281561	80.763011	8.06	I	CHERUKUPALLI	75	17.216383	80.716144	25.92	III	LANKAPALLI	115	17.290694	80.822833	16.69	II	RUDRAKSHAPALLI-N
36	17.279514	80.761903	11.54	I	CHERUKUPALLI	76	17.257982	80.740490	22.91	I	R C PURAM	116	17.279349	80.809818	29.90	III	RUDRAKSHAPALLI-N
37	17.282715	80.744212	10.27	II	CHERUKUPALLI	77	17.270756	80.729221	11.67	II	R C PURAM	117	17.285069	80.799740	20.42	IV	RUDRAKSHAPALLI-N
38	17.261580	80.756121	10.38	II	CHERUKUPALLI	78	17.269388	80.742109	14.75	II	R C PURAM	118	17.290130	80.815026	31.25	V	RUDRAKSHAPALLI-N
39	17.281961	80.759437	20.26	II	CHERUKUPALLI	79	17.278815	80.734572	27.72	III	R C PURAM	119	17.281865	80.817026	37.52	V	RUDRAKSHAPALLI-N
40	17.267024	80.755651	11.17	II	CHERUKUPALLI	80	17.279913	80.728336	16.25	IV	R C PURAM	120	17.268586	80.801935	19.15	II	RUDRAKSHAPALLI-S

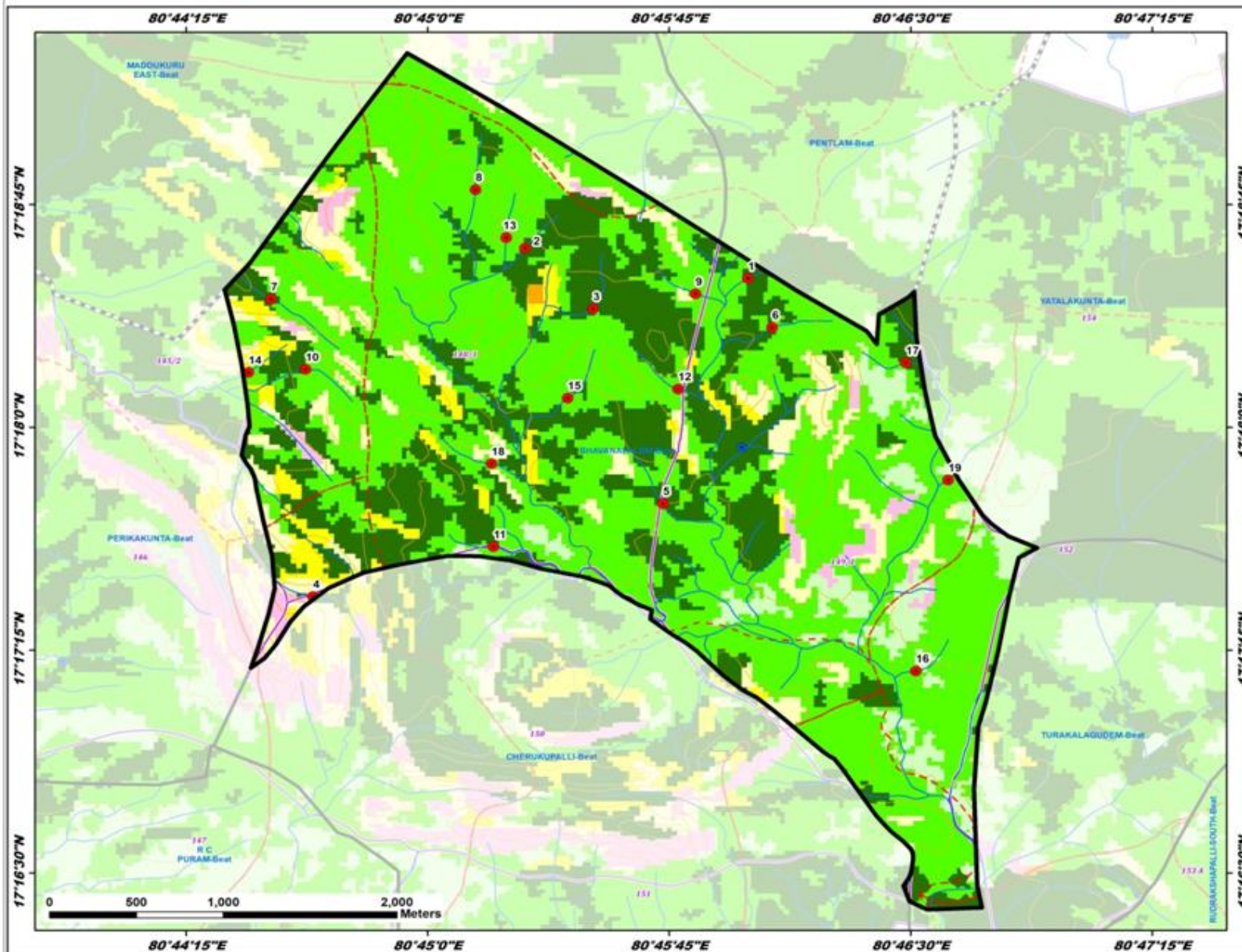
List of Proposed PTs – Sathupally Range

ID	Latitude	Longitude	Catchment Area_Ha	Priority	Beat	ID	Latitude	Longitude	Catchment Area_Ha	Priority	Beat	ID	Latitude	Longitude	Catchment Area_Ha	Priority	Beat
121	17.265675	80.803873	24.29	II	RUDRAKSHAPALLI-S	161	17.220838	80.800743	16.65	II	SATHUPALLI	201	17.315682	80.778048	17.22	IV	YATALAKUNTA
122	17.272749	80.798271	16.93	II	RUDRAKSHAPALLI-S	162	17.218995	80.815017	5.02	II	SATHUPALLI	202	17.293507	80.796338	21.65	IV	YATALAKUNTA
123	17.273347	80.787208	15.59	II	RUDRAKSHAPALLI-S	163	17.201906	80.825136	27.46	II	SATHUPALLI	203	17.291848	80.802209	15.88	IV	YATALAKUNTA
124	17.271739	80.804596	19.29	IV	RUDRAKSHAPALLI-S	164	17.218439	80.816219	14.14	II	SATHUPALLI	204	17.305724	80.805482	37.28	V	YATALAKUNTA
125	17.273128	80.795902	37.06	V	RUDRAKSHAPALLI-S	165	17.215348	80.799761	37.05	II	SATHUPALLI	205	17.294517	80.813674	31.83	V	YATALAKUNTA
126	17.277640	80.801019	43.34	V	RUDRAKSHAPALLI-S	166	17.204854	80.823181	20.24	II	SATHUPALLI	206	17.302807	80.805507	46.88	V	YATALAKUNTA
127	17.180221	80.761275	10.56	I	KOMPALLI	167	17.296666	80.845671	13.02	I	CHANDRAYAPALEM	207	17.295049	80.785891	62.58	III	YATALAKUNTA
128	17.185280	80.752628	9.85	I	KOMPALLI	168	17.295135	80.853960	18.52	II	CHANDRAYAPALEM						
129	17.179672	80.764633	18.95	II	KOMPALLI	169	17.306331	80.865552	41.54	II	CHANDRAYAPALEM						
130	17.194976	80.770998	15.09	II	KOMPALLI	170	17.297806	80.849226	21.02	II	CHANDRAYAPALEM						
131	17.186183	80.770382	22.73	II	KOMPALLI	171	17.321623	80.865089	9.19	II	CHANDRAYAPALEM						
132	17.181877	80.770382	15.69	II	KOMPALLI	172	17.302883	80.857270	35.49	II	CHANDRAYAPALEM						
133	17.185930	80.775572	39.41	II	KOMPALLI	173	17.295183	80.847380	17.12	II	CHANDRAYAPALEM						
134	17.194142	80.757326	8.34	II	KOMPALLI	174	17.316259	80.839903	30.75	III	CHANDRAYAPALEM						
135	17.192080	80.752514	14.05	II	KOMPALLI	175	17.303860	80.847832	28.15	III	CHANDRAYAPALEM						
136	17.195762	80.768649	7.56	II	KOMPALLI	176	17.327950	80.839513	17.83	IV	CHANDRAYAPALEM						
137	17.191573	80.757648	14.79	II	KOMPALLI	177	17.333228	80.842972	17.58	IV	CHANDRAYAPALEM						
138	17.195544	80.758771	28.04	III	KOMPALLI	178	17.332593	80.843241	17.70	IV	CHANDRAYAPALEM						
139	17.186673	80.767135	25.07	III	KOMPALLI	179	17.340368	80.848895	11.42	IV	CHANDRAYAPALEM						
140	17.185039	80.758487	18.22	IV	KOMPALLI	180	17.323532	80.845350	19.42	IV	CHANDRAYAPALEM						
141	17.192988	80.763389	15.15	IV	KOMPALLI	181	17.341374	80.843746	13.35	IV	CHANDRAYAPALEM						
142	17.191875	80.789964	10.53	I	REJERLA	182	17.339520	80.848575	15.05	IV	CHANDRAYAPALEM						
143	17.192937	80.786853	6.24	I	REJERLA	183	17.330264	80.838570	14.24	IV	CHANDRAYAPALEM						
144	17.190230	80.795883	16.08	I	REJERLA	184	17.334564	80.851863	13.40	IV	CHANDRAYAPALEM						
145	17.209698	80.812692	22.97	I	REJERLA	185	17.320567	80.851258	36.38	V	CHANDRAYAPALEM						
146	17.178120	80.797767	14.34	I	REJERLA	186	17.344735	80.841088	23.99	II	REGALLAPADU - N						
147	17.181746	80.798165	24.07	I	REJERLA	187	17.337181	80.823960	10.68	II	REGALLAPADU - N						
148	17.197757	80.794796	11.87	II	REJERLA	188	17.352561	80.840434	13.96	IV	REGALLAPADU - N						
149	17.191093	80.791189	10.97	II	REJERLA	189	17.352210	80.843064	10.89	IV	REGALLAPADU - N						
150	17.197071	80.811877	28.62	II	REJERLA	190	17.349100	80.829134	6.17	IV	REGALLAPADU - N						
151	17.186014	80.794271	15.71	II	REJERLA	191	17.353766	80.830866	13.33	IV	REGALLAPADU - N						
152	17.176122	80.801383	14.01	II	REJERLA	192	17.353929	80.831889	13.57	IV	REGALLAPADU - N						
153	17.202841	80.801431	9.57	II	REJERLA	193	17.310643	80.808520	25.35	III	REGALLAPADU - S						
154	17.195124	80.797284	71.62	III	REJERLA	194	17.319697	80.809765	12.17	IV	REGALLAPADU - S						
155	17.186908	80.792580	37.04	III	REJERLA	195	17.313237	80.808877	39.32	V	REGALLAPADU - S						
156	17.212004	80.799833	12.64	I	SATHUPALLI	196	17.309827	80.776640	22.55	II	YATALAKUNTA						
157	17.218956	80.813833	18.32	I	SATHUPALLI	197	17.299790	80.786275	37.39	II	YATALAKUNTA						
158	17.197719	80.818579	22.94	I	SATHUPALLI	198	17.295384	80.802968	24.09	II	YATALAKUNTA						
159	17.218639	80.804747	16.97	II	SATHUPALLI	199	17.300352	80.780384	17.15	II	YATALAKUNTA						
160	17.212937	80.807359	28.38	II	SATHUPALLI	200	17.297211	80.799369	39.94	III	YATALAKUNTA						

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



Division : Sathupally
Range : Sathupally



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
1	17.308356	80.766575	7.29	I
2	17.310053	80.759036	9.71	I
3	17.306646	80.758569	12.40	I
4	17.290516	80.744068	18.64	I
5	17.295725	80.762185	23.67	I
6	17.305603	80.767823	16.90	I
7	17.307194	80.741881	22.44	I
8	17.313337	80.752476	10.74	II
9	17.307487	80.763866	7.72	II
10	17.303253	80.743675	7.59	II
11	17.293304	80.753409	35.07	II
12	17.302149	80.762959	23.24	II
13	17.310642	80.754073	10.86	II
14	17.303081	80.740716	5.54	II
15	17.301647	80.757244	13.49	II
16	17.286339	80.775264	14.14	II
17	17.303623	80.774756	12.16	II
18	17.297962	80.753298	23.69	II
19	17.297045	80.776941	37.45	III

LEGEND

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

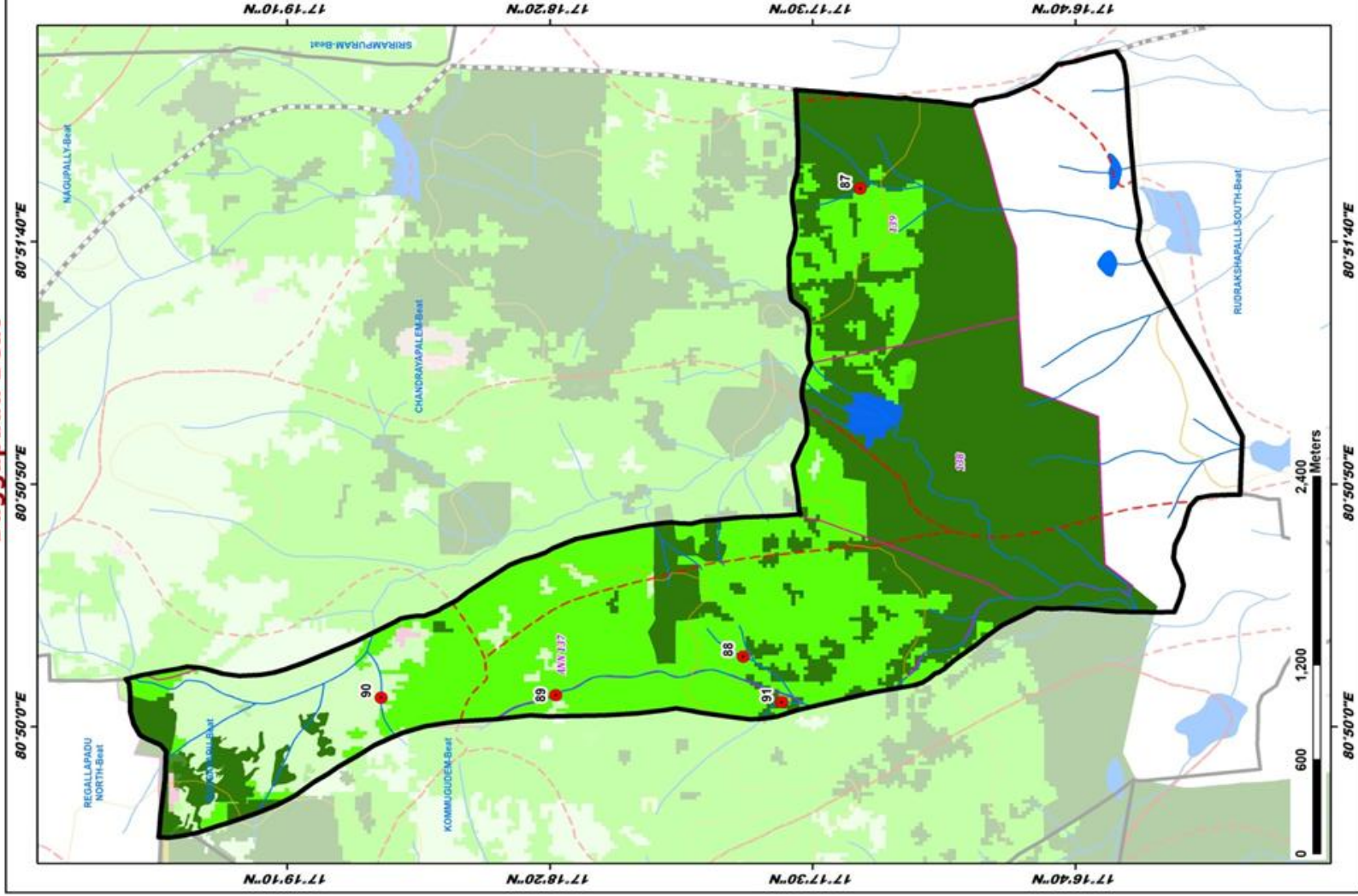
Suitability Index

- 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 Buggapadu Beat



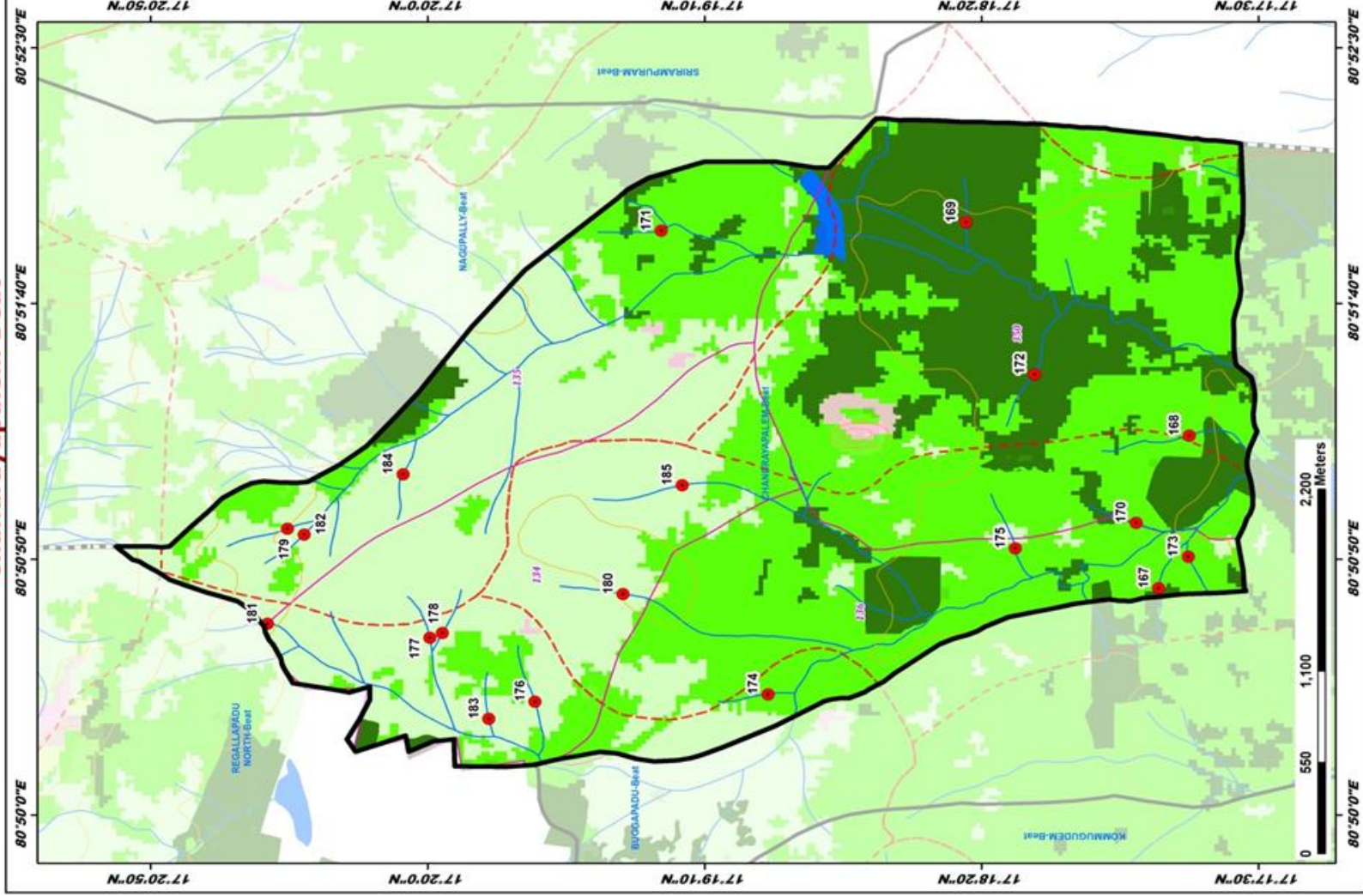
Division : Sathupally
Range : Sathupally



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



Division : Sathupally
Range : Sathupally



ID	Latitude	Longitude	Catchment Area No	PRIORITY
167	17.296666	80.846271	13.02	I
168	17.295135	80.853960	18.52	II
169	17.300331	80.865552	41.54	III
170	17.297906	80.849326	21.02	II
171	17.321623	80.846509	9.19	II
172	17.302883	80.857270	35.49	II
173	17.295183	80.847980	17.12	II
174	17.316259	80.839903	30.75	III
175	17.303860	80.847832	28.15	III
176	17.327950	80.839513	17.83	IV
177	17.333228	80.842972	17.58	IV
178	17.332593	80.843241	17.70	IV
179	17.303068	80.848895	11.42	IV
180	17.323532	80.843350	19.42	IV
181	17.341374	80.843746	13.35	IV
182	17.339520	80.848575	15.05	IV
183	17.330264	80.838570	14.24	IV
184	17.334064	80.851863	13.40	IV
185	17.300567	80.851258	36.38	V

LEGEND

- Proposed PTs (Red dot)
- Existing CD/PTs (Blue dot)
- Contours (Brown dashed line)
- Streams (Blue line)
- Watershed Boundary (Red dashed line)
- Compartment Boundary (Pink dashed line)
- Beat Boundary (Black solid line)
- Division Boundary (Black dashed line)

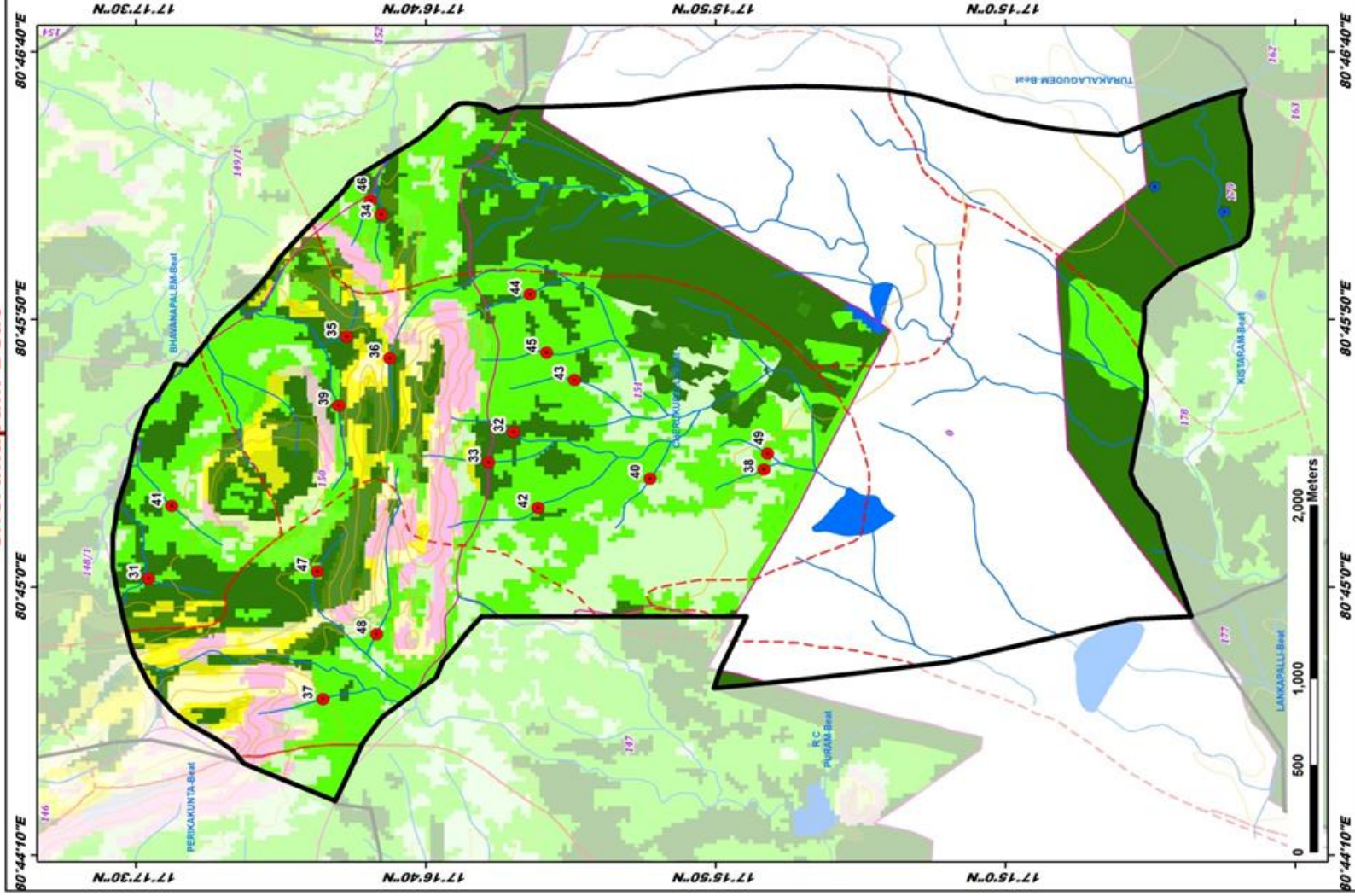
Suitability Index

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

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



Division : Sathupally
Range : Sathupally



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
31	17.291051	80.750466	21.25	I
32	17.273572	80.750053	10.98	I
33	17.274762	80.756483	10.37	I
34	17.279917	80.769353	6.44	I
35	17.281561	80.783011	8.06	I
36	17.279514	80.761593	11.54	I
37	17.282715	80.744212	10.27	II
38	17.261590	80.756121	10.38	II
39	17.281561	80.759437	20.26	II
40	17.287004	80.755651	11.17	II
41	17.289959	80.754231	14.96	II
42	17.272414	80.754135	13.61	II
43	17.276664	80.760773	12.33	II
44	17.272782	80.765309	9.17	II
45	17.271596	80.762388	13.05	II
46	17.280419	80.770090	5.57	II
47	17.282590	80.750828	12.97	II
48	17.280141	80.747582	25.90	III
49	17.281807	80.756690	12.04	IV

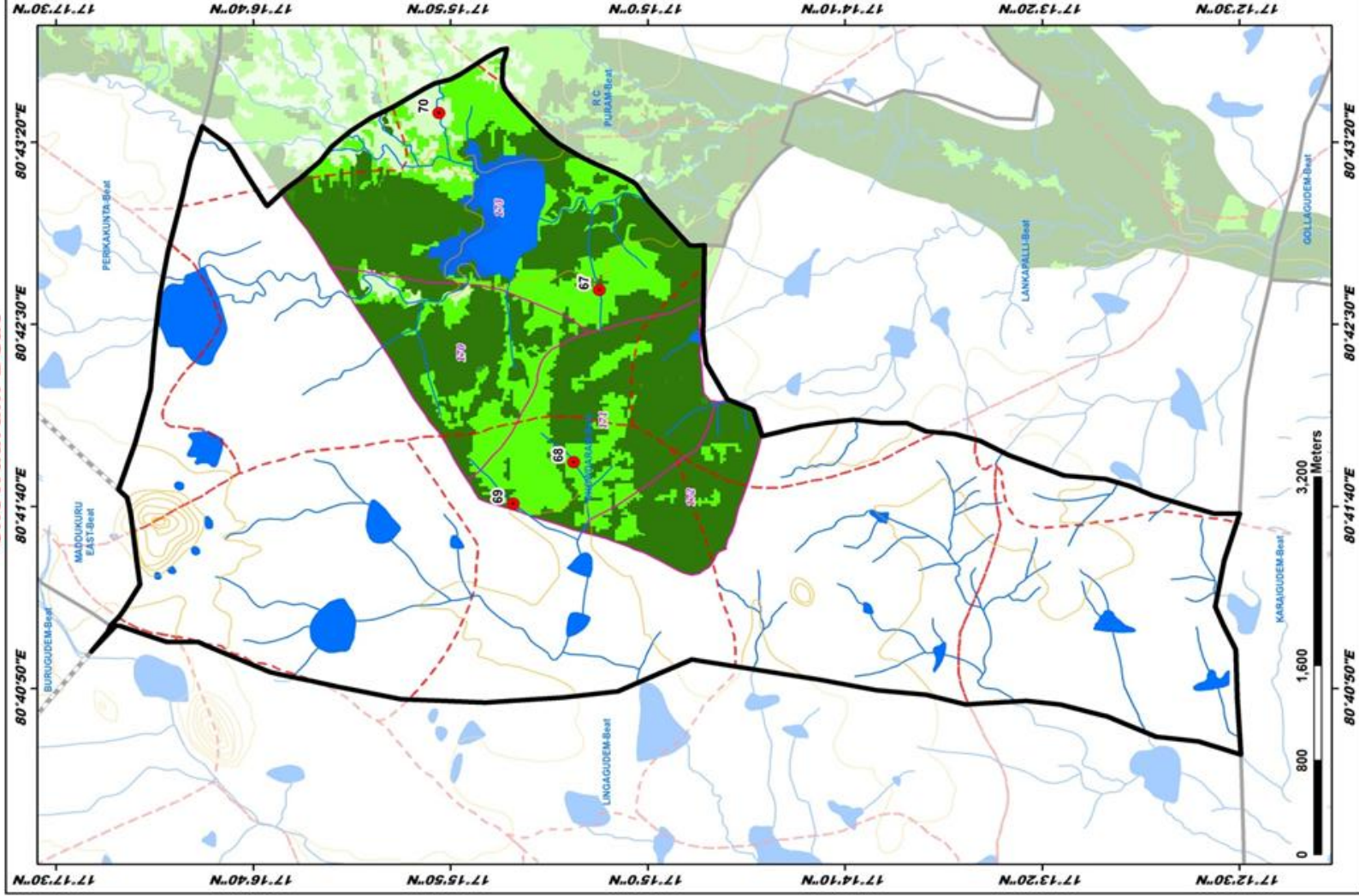
LEGEND

- Proposed PTIs
 - Existing CD/PTIs
 - Contours
 - Streams
 - Watershed Boundary
 - Compartment Boundary
 - Beat Boundary
 - Division Boundary
- Suitability Index**
- CCTs/SCTs - Highly Suitable
 - CCTs/SCTs - Moderately Suitable
 - CCTs/SCTs - Least Suitable
 - PTIs - Highly Suitable
 - PTIs - Moderately Suitable
 - PTIs - Least Suitable
 - MPTIs and SGP's - Suitable
 - Not Suitable
 - Water Body

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



Division : Sathupally
Range : Sathupally



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
67	17.23344	80.71874	18.39	I
68	17.25227	80.69788	35.44	III
69	17.25987	80.69699	38.06	III
70	17.26711	80.73473	76.67	V

LEGEND

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

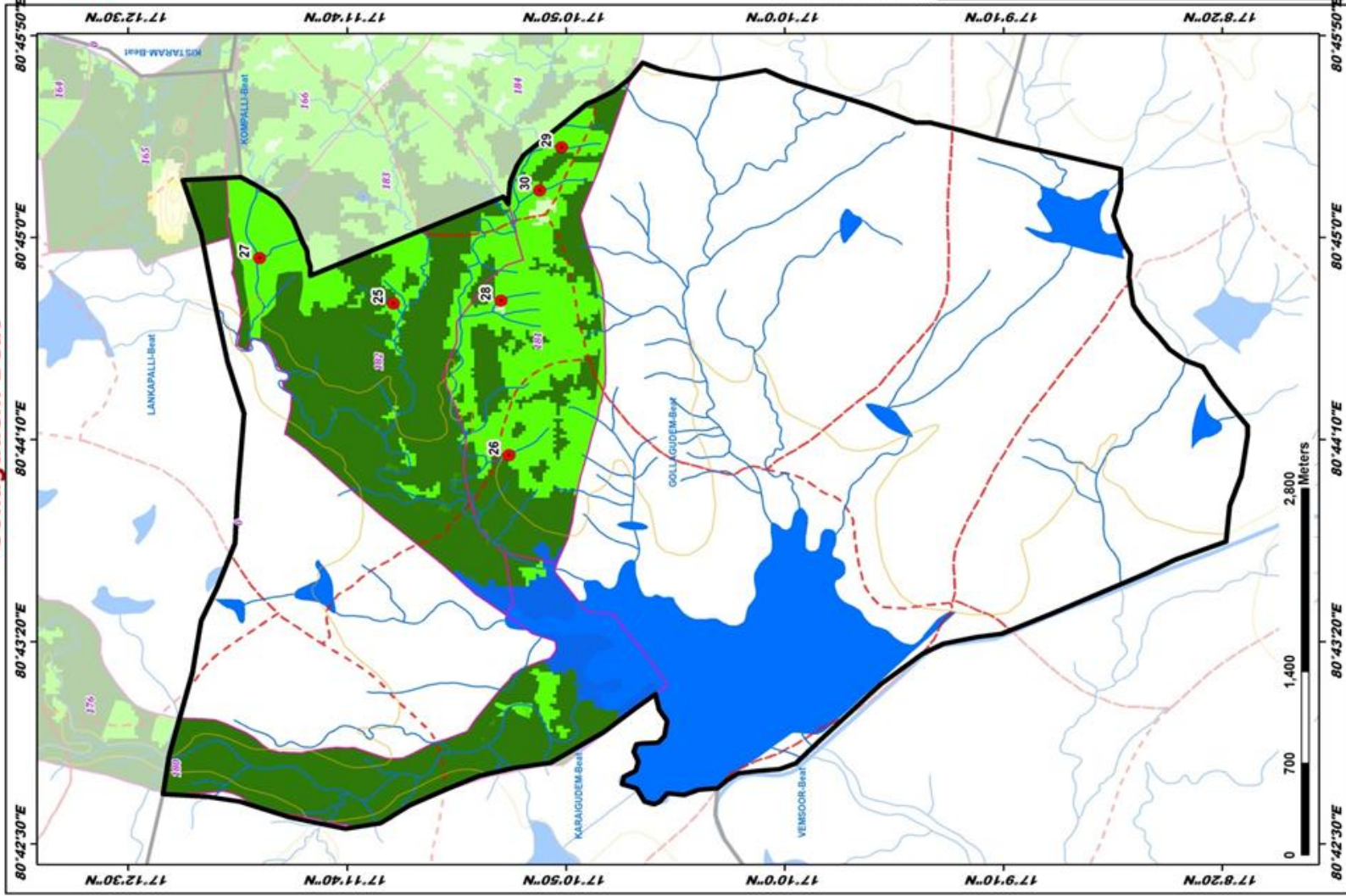
Suitability Index

- 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 Gollagudem Beat



Division : Sathupally
Range : Sathupally



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
25	17.193512	80.746493	12.90	I
26	17.194172	80.750069	11.77	II
27	17.200005	80.748615	15.05	II
28	17.194886	80.746695	9.07	II
29	17.190835	80.758234	7.79	II
30	17.192221	80.753259	17.28	II

LEGEND

- Proposed PTs (Red dot)
- Existing CD/PTs (Blue dot)
- Contours (Yellow line)
- Streams (Blue line)
- Watershed Boundary (Red dashed line)
- Compartment Boundary (Pink dashed line)
- Beat Boundary (Black solid line)
- Division Boundary (Black dashed line)

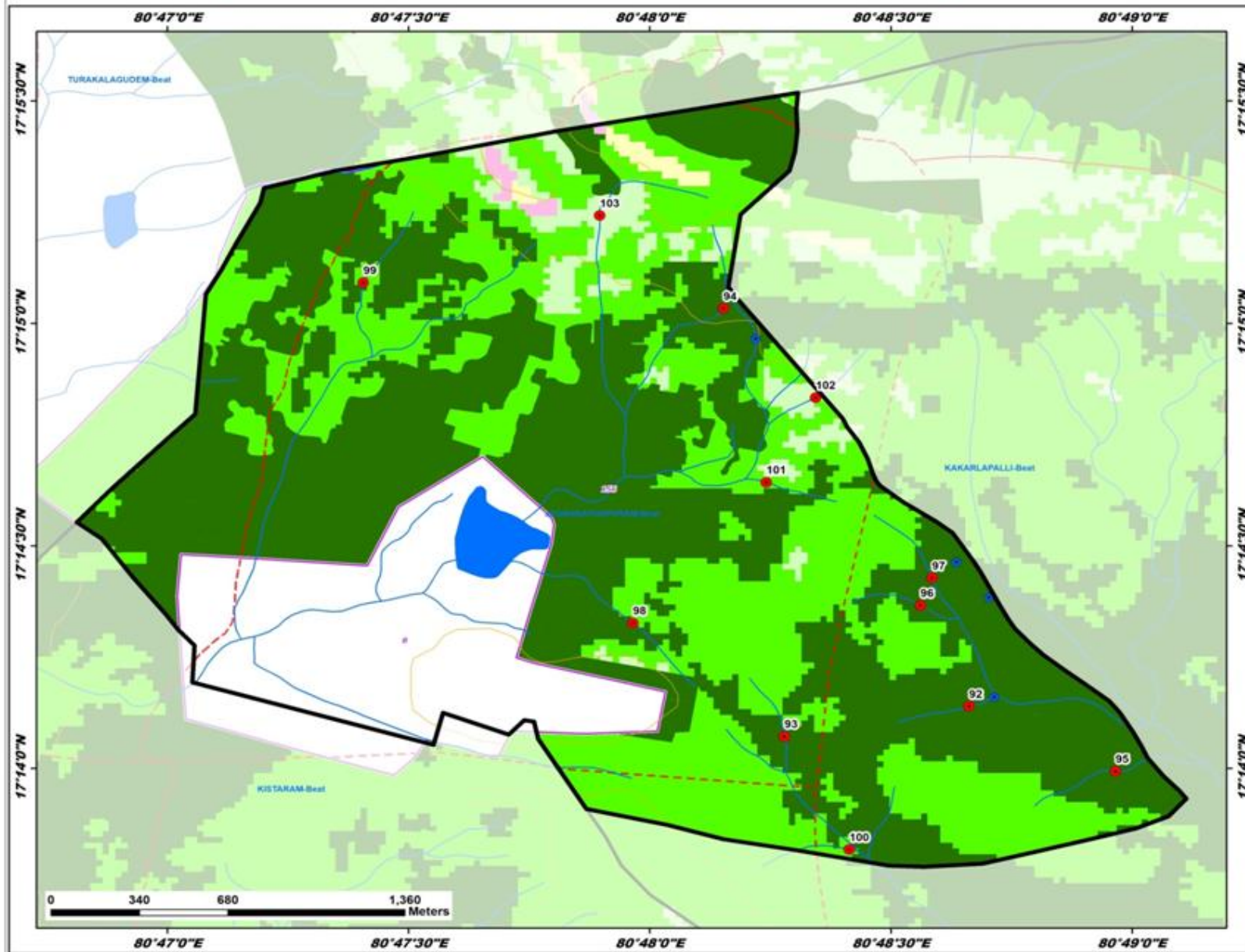
Suitability Index

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

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



Division : Sathupally
Range : Sathupally



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
92	17.235655	80.811090	23.27	I
93	17.234531	80.804052	8.85	I
94	17.250598	80.802543	13.45	I
95	17.233220	80.816094	12.31	I
96	17.239435	80.809356	18.01	I
97	17.240461	80.809752	17.85	I
98	17.238775	80.799424	20.39	I
99	17.251527	80.790100	18.10	II
100	17.230295	80.806894	17.96	II
101	17.244051	80.804022	12.39	II
102	17.247221	80.805738	13.02	IV
103	17.254039	80.798271	30.85	V

LEGEND

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

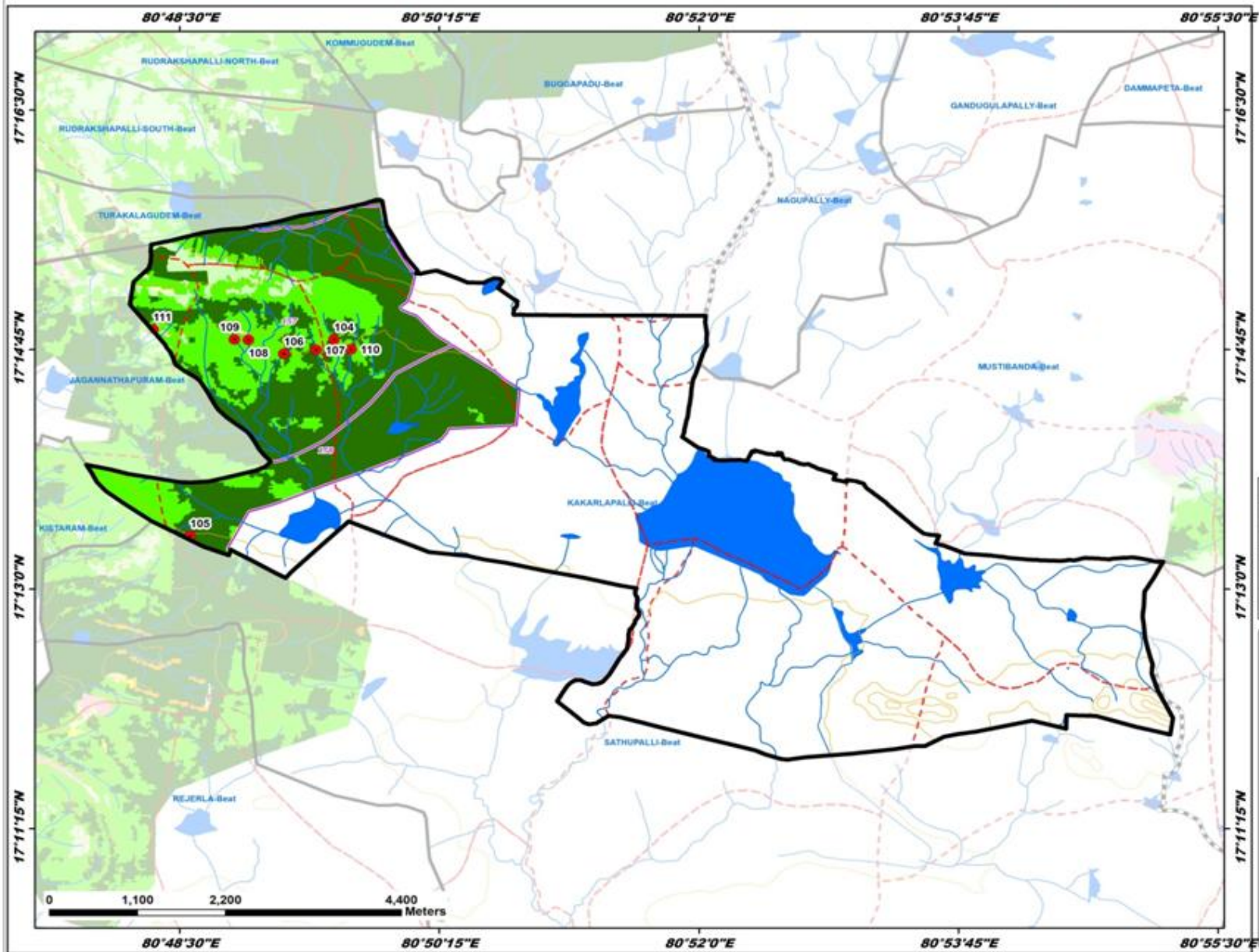
Suitability Index

- 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 Kakarlapalli Beat



Division : Sathupally
Range : Sathupally



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
104	17.247074	80.825660	20.54	I
105	17.223147	80.809481	9.43	I
106	17.245315	80.830030	8.85	I
107	17.245798	80.823654	8.59	II
108	17.247022	80.816060	19.37	II
109	17.247069	80.814477	11.19	II
110	17.245864	80.827611	14.52	II
111	17.248282	80.805319	17.97	II

LEGEND

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

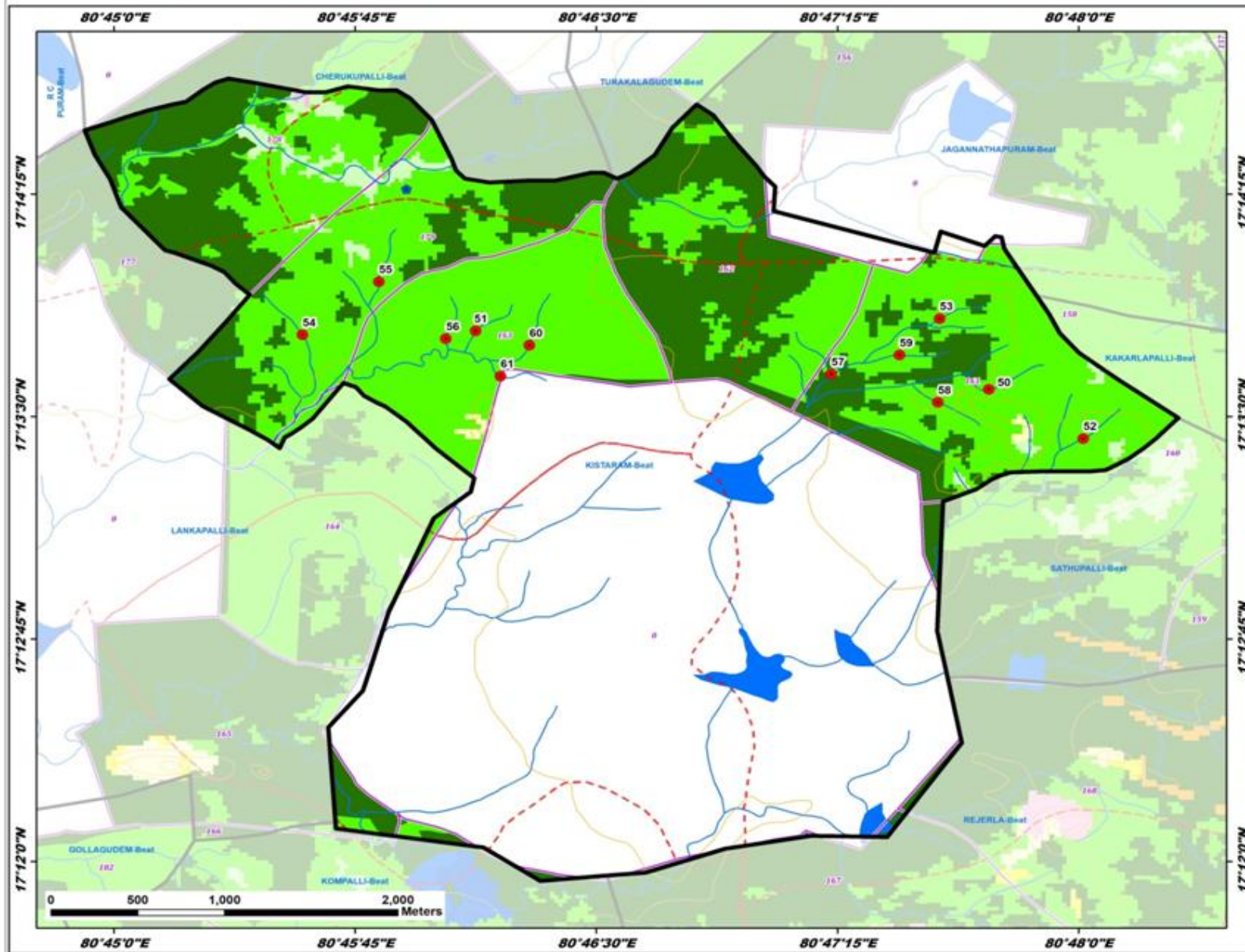
Suitability Index

- CCTs/STs - Highly Suitable
- CCTs/STs - Moderately Suitable
- CCTs/STs - 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 Kistaram Beat



Division : Sathupally
Range : Sathupally



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
50	17.226536	80.795357	14.28	II
51	17.229829	80.768755	14.99	II
52	17.223773	80.800241	12.72	II
53	17.230517	80.782800	11.99	II
54	17.229605	80.799769	16.99	II
55	17.232589	80.763730	18.58	II
56	17.229385	80.767206	12.54	II
57	17.227402	80.787186	12.85	II
58	17.225812	80.792702	6.32	II
59	17.228471	80.790715	5.24	II
60	17.229056	80.771534	16.73	II
61	17.227286	80.790094	68.15	IV

LEGEND

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

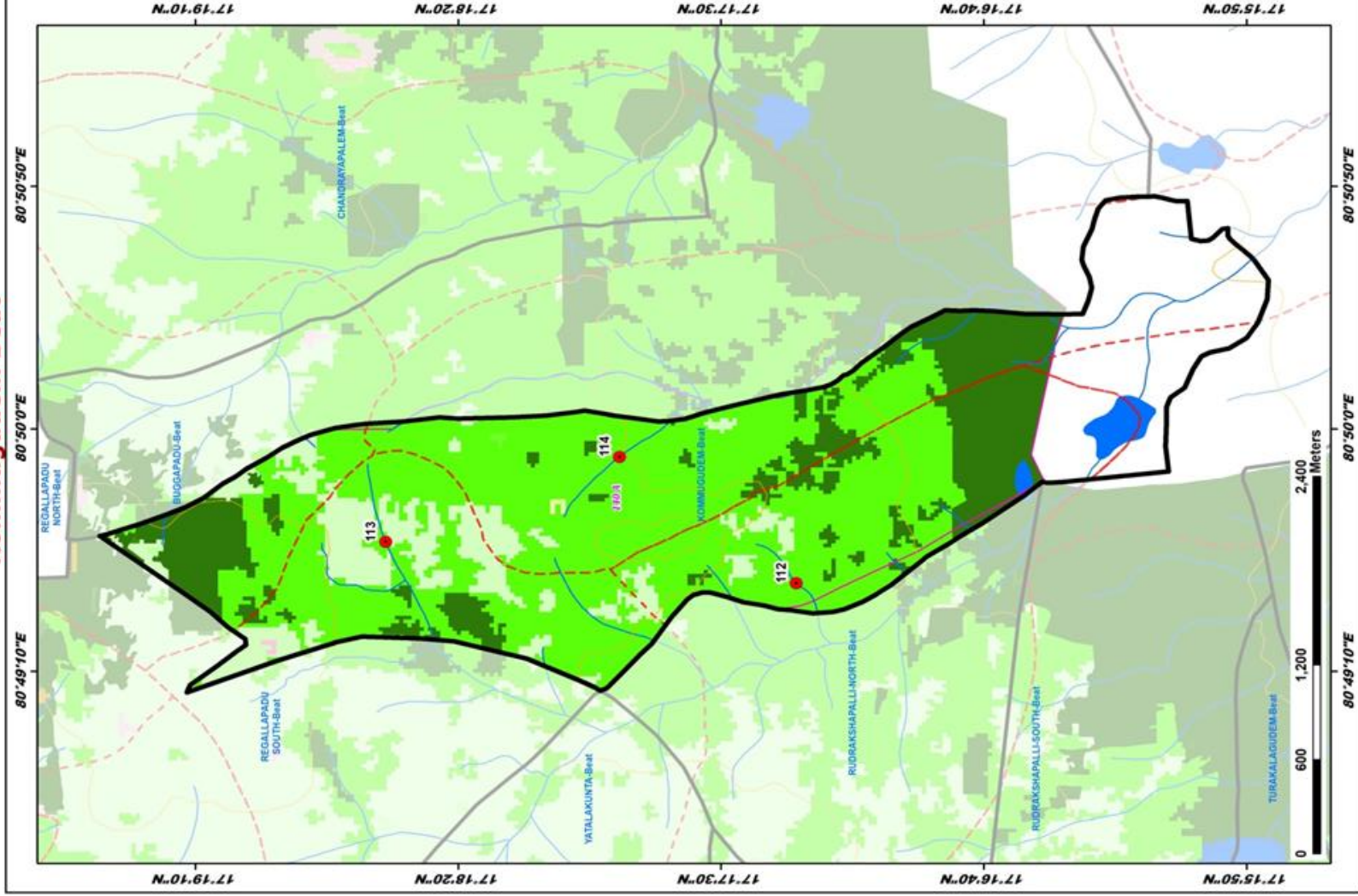
Suitability Index

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

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



Division : Sathupally
Range : Sathupally



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
112	17.267684	80.826521	20.41	II
113	17.309391	80.826887	30.34	III
114	17.297026	80.831751	45.11	III

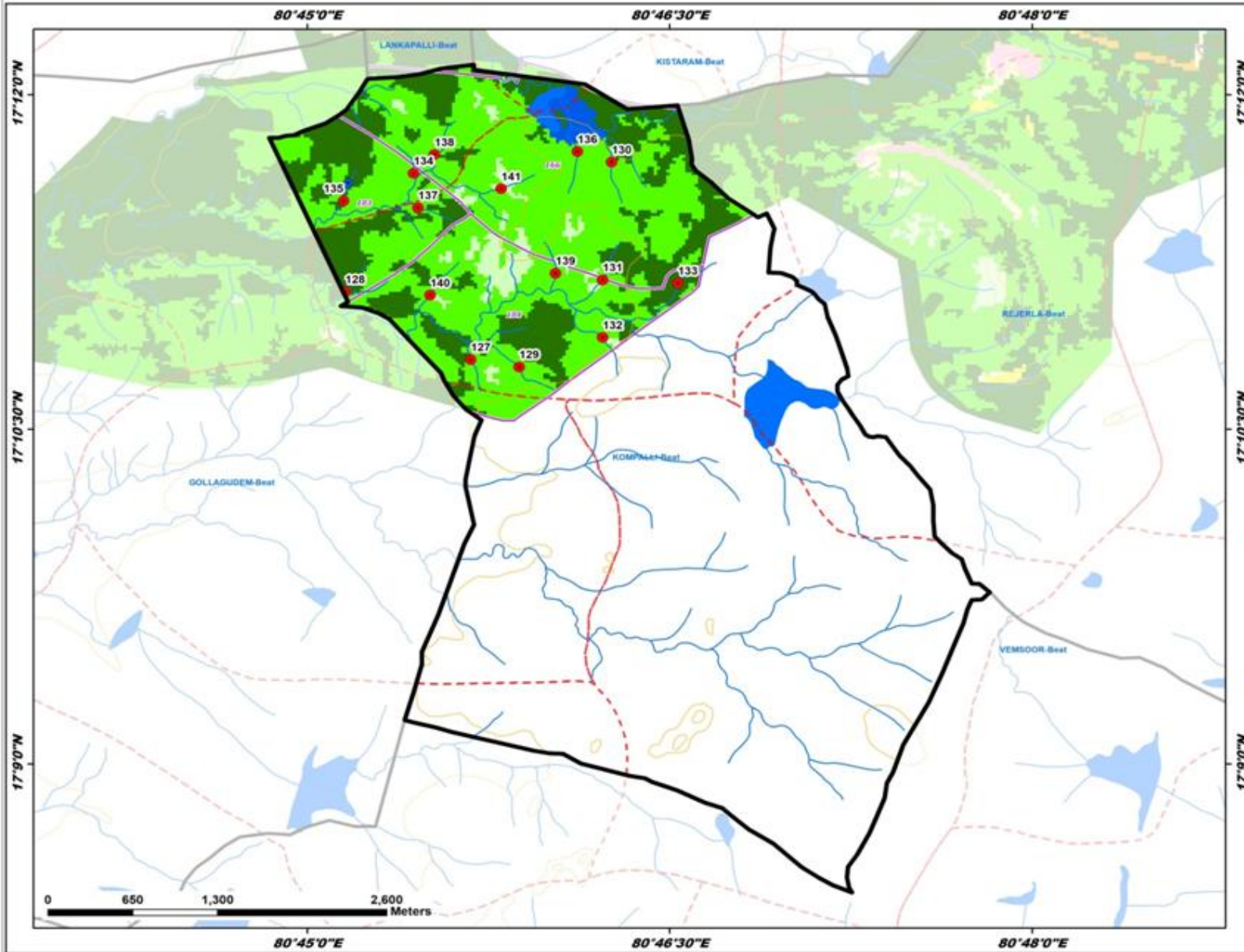
LEGEND

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

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



Division : Sathupally
Range : Sathupally



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
127	17.180221	80.761275	10.56	I
128	17.185280	80.752628	9.85	I
129	17.179672	80.764633	18.95	II
130	17.194976	80.770998	15.09	II
131	17.186183	80.770382	22.73	II
132	17.183877	80.770182	15.69	II
133	17.185930	80.775572	39.41	II
134	17.194142	80.757326	8.34	II
135	17.192080	80.752514	14.05	II
136	17.195762	80.768649	7.56	II
137	17.191573	80.757648	14.79	II
138	17.195544	80.758771	28.04	III
139	17.186673	80.767135	25.07	III
140	17.185039	80.758487	18.22	IV
141	17.192988	80.763389	15.15	IV

LEGEND

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

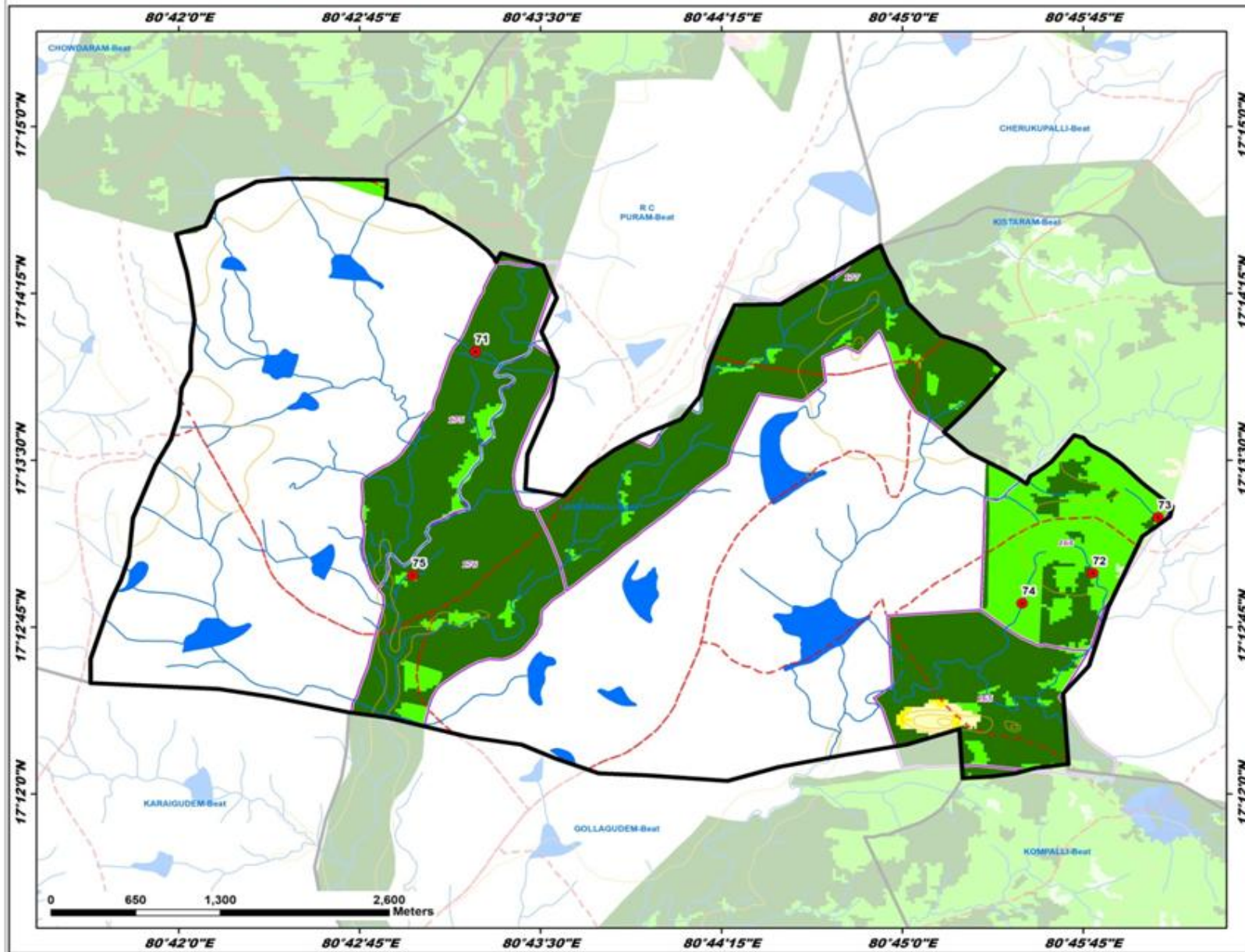
Suitability Index

- CCTs/SGTs - Highly Suitable
- CCTs/SGTs - Moderately Suitable
- CCTs/SGTs - 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 Lankapalli Beat



Division : Sathupally
Range : Sathupally



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
71	17.233162	80.720501	14.02	I
72	17.2316560	80.763175	17.60	I
73	17.220739	80.767679	15.37	II
74	17.234800	80.758294	27.11	III
75	17.2316803	80.736344	25.92	III

LEGEND

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

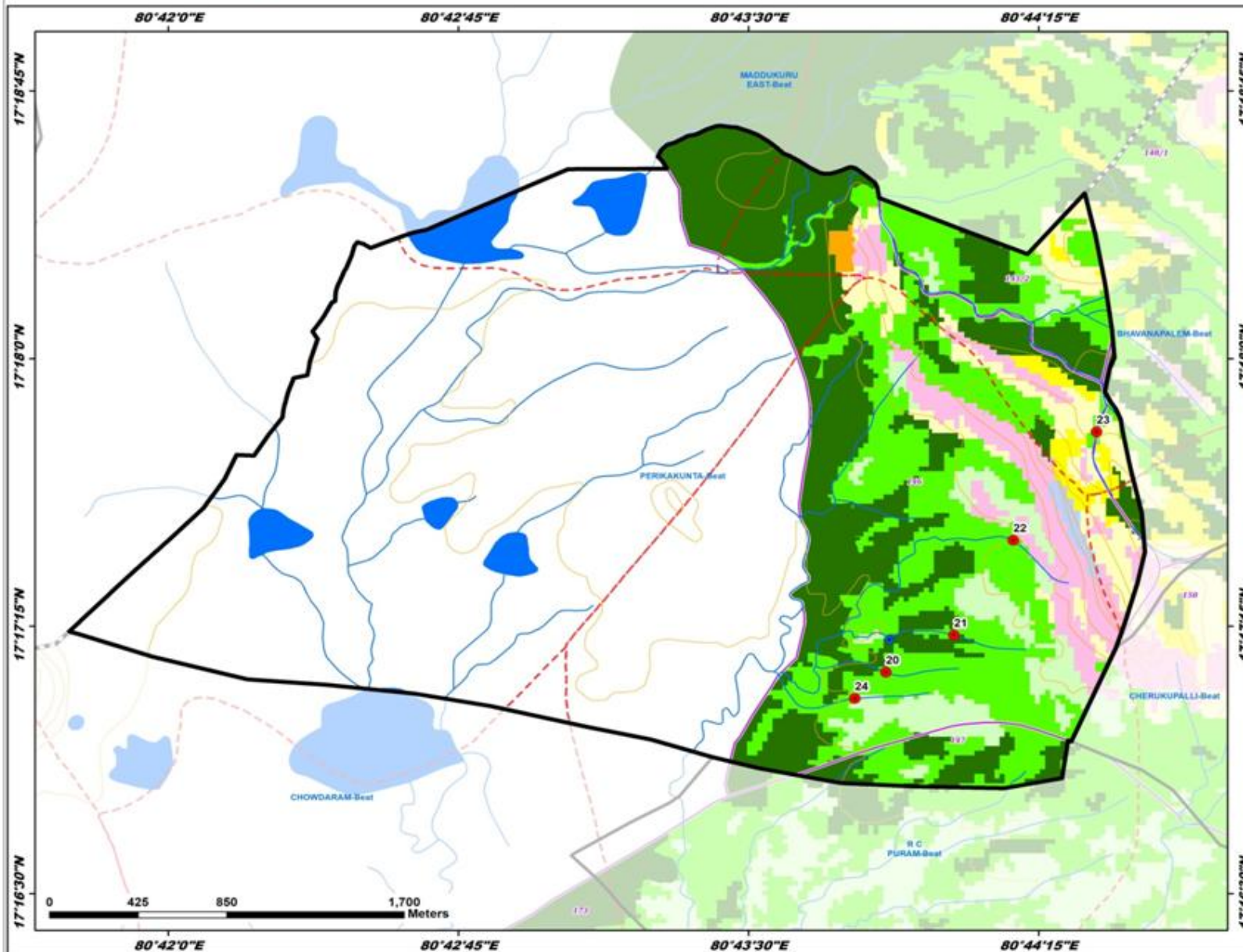
Suitability Index

- 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 Perikakunta Beat



Division : Sathupally
Range : Sathupally



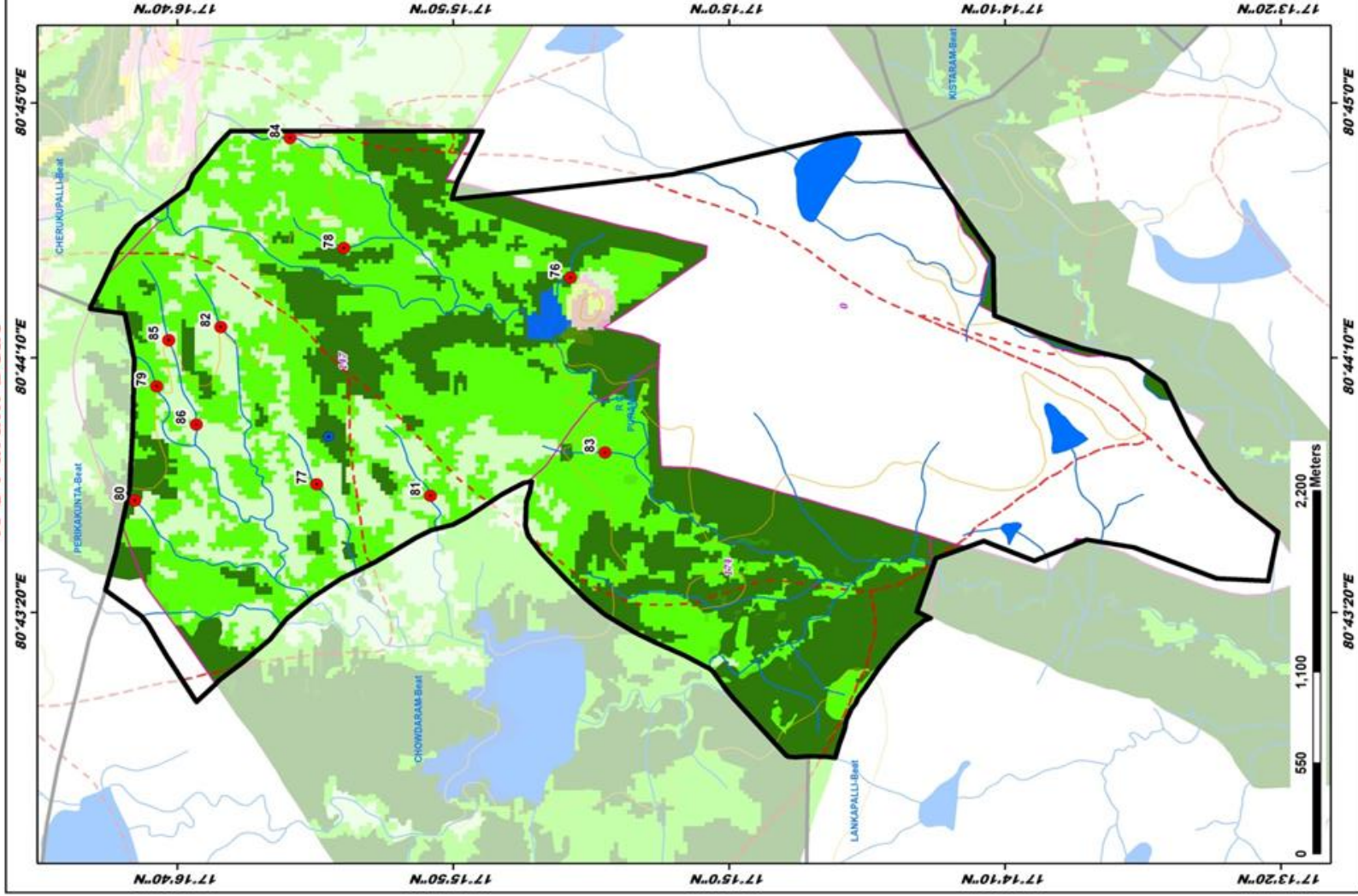
ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
20	17.285355	80.730931	11.25	II
21	17.287088	80.738666	27.57	II
22	17.291526	80.736418	14.96	II
23	17.296574	80.740002	12.08	II
24	17.284127	80.729595	8.68	IV

- 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 R C Puram Beat



Division : Sathupally
Range : Sathupally



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
76	17.257982	80.740090	22.51	I
77	17.270756	80.729221	11.67	II
78	17.269388	80.742109	14.75	III
79	17.278815	80.745072	27.72	IV
80	17.279913	80.728336	16.25	IV
81	17.265028	80.728594	59.75	IV
82	17.275592	80.721797	11.27	IV
83	17.266251	80.720955	63.18	IV
84	17.272091	80.748110	27.05	V
85	17.278197	80.727082	37.46	V
86	17.276820	80.732492	51.59	V

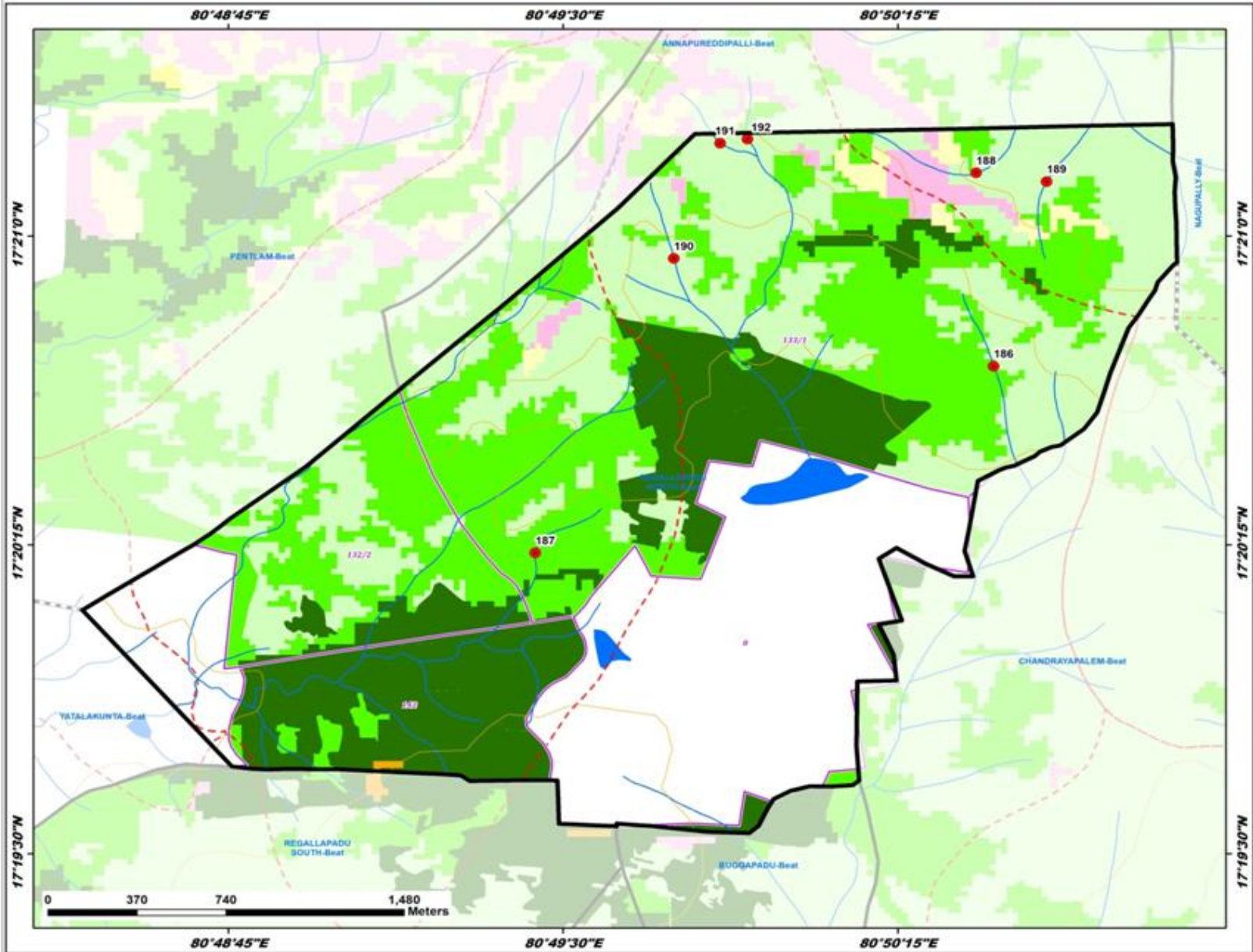
LEGEND

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

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



Division : Sathupally
Range : Sathupally



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
186	17.344735	80.841088	23.99	II
187	17.337181	80.823960	10.68	II
188	17.352561	80.840434	13.96	IV
189	17.352210	80.840064	10.89	IV
190	17.349100	80.829134	6.17	IV
191	17.353796	80.830866	13.33	IV
192	17.353929	80.831889	13.57	IV

LEGEND

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

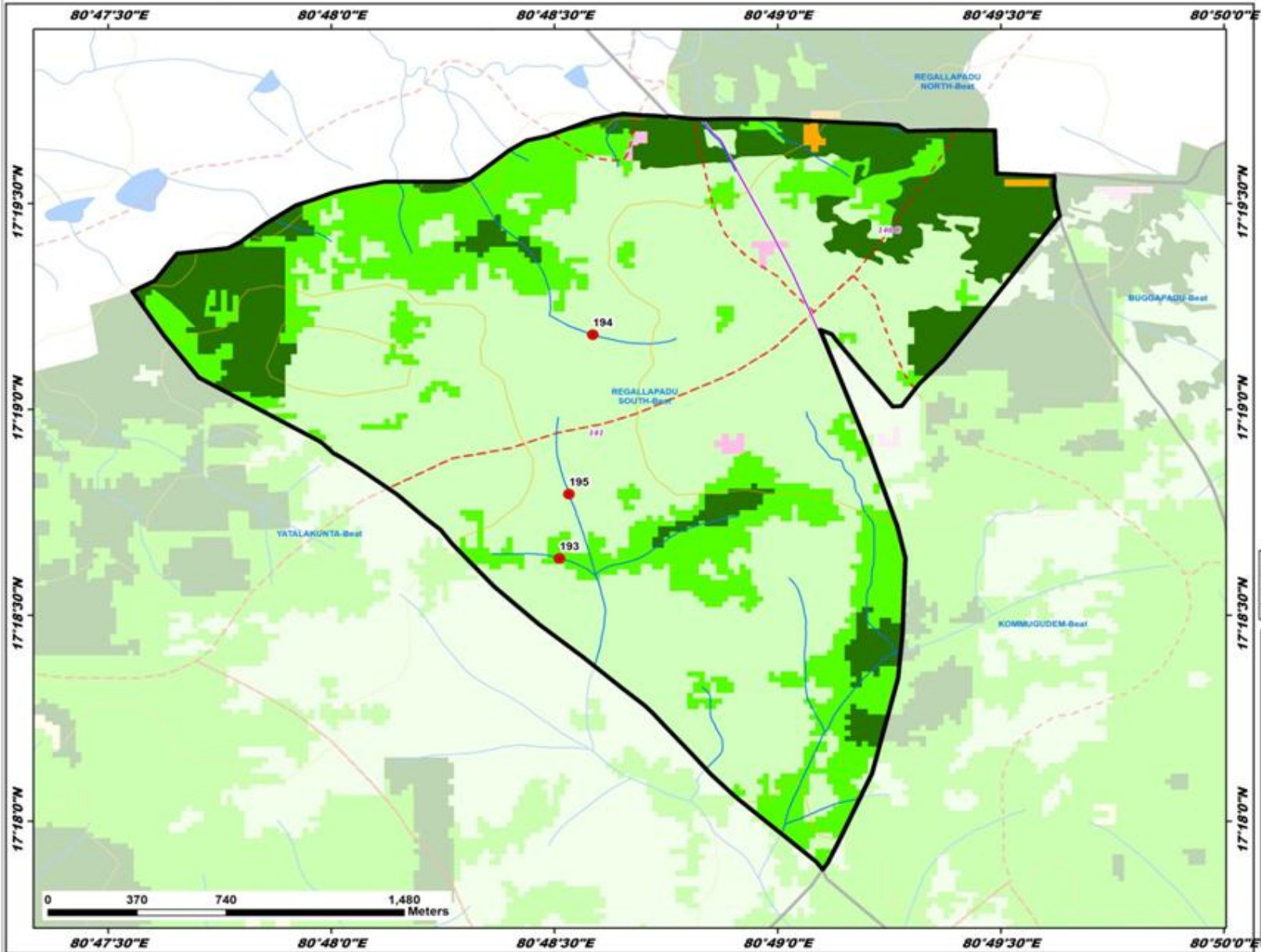
Suitability Index

- CCTs/STs - Highly Suitable
- CCTs/STs - Moderately Suitable
- CCTs/STs - 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 Regallapadu South Beat



Division : Sathupally
Range : Sathupally



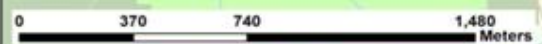
ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
193	17.310643	80.808520	25.35	III
194	17.319897	80.809765	12.17	IV
195	17.313237	80.808877	39.32	V

LEGEND

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

Suitability Index

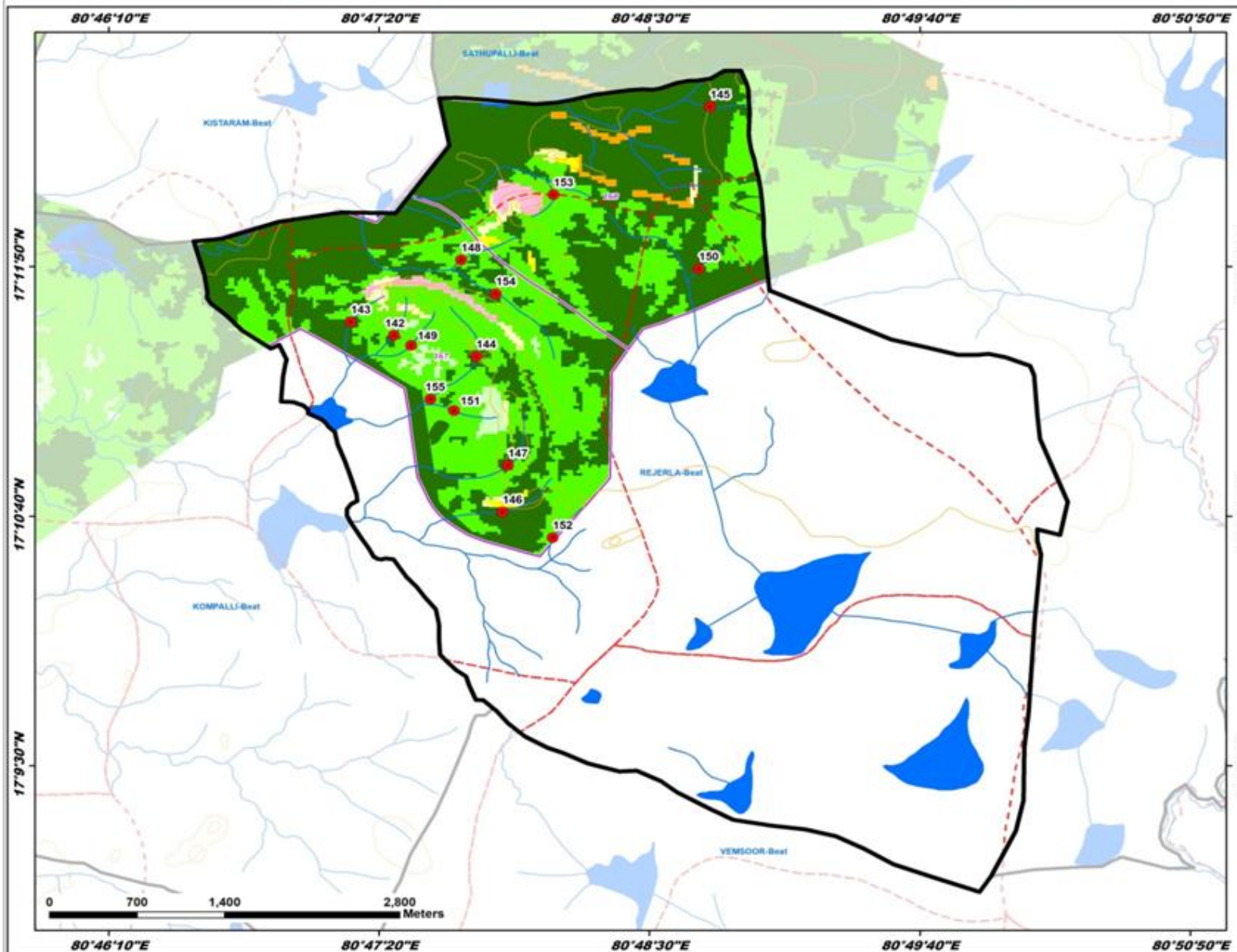
- CCTs/STCs - Highly Suitable
- CCTs/STCs - Moderately Suitable
- CCTs/STCs - Least Suitable
- PTs - Highly Suitable
- PTs - Moderately Suitable
- PTs - Least Suitable
- MPTs and SGPs - Suitable
- Not Suitable
- Water Body



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



Division : Sathupally
Range : Sathupally



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
142	17.191875	80.789964	10.53	I
143	17.192987	80.796653	6.24	I
144	17.190230	80.795883	16.08	I
145	17.209608	80.812692	22.97	I
146	17.178120	80.797767	14.34	I
147	17.181746	80.798165	24.07	I
148	17.197757	80.794796	11.87	II
149	17.191093	80.791189	10.97	II
150	17.197071	80.811877	28.62	II
151	17.186014	80.794271	15.71	II
152	17.176122	80.801383	14.01	II
153	17.202841	80.801431	9.57	II
154	17.195124	80.797284	71.62	III
155	17.186908	80.792580	37.04	III

LEGEND

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

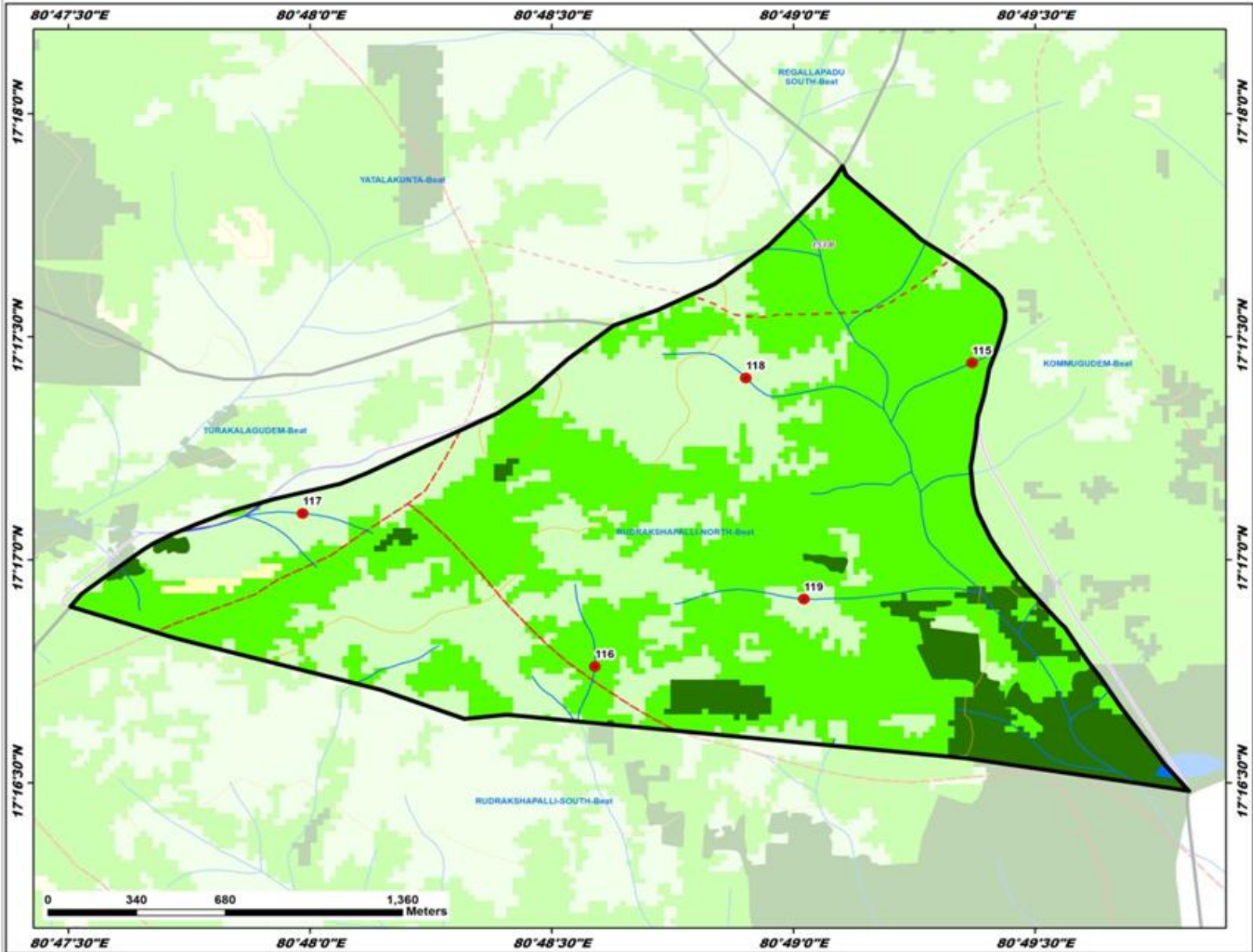
Suitability Index

- CCTs/STCs - Highly Suitable
- CCTs/STCs - Moderately Suitable
- CCTs/STCs - 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 Rudrakshapalli North Beat



Division : Sathupally
Range : Sathupally



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
115	17.290694	80.822833	16.69	II
116	17.279349	80.809818	25.90	III
117	17.285069	80.799740	20.42	IV
118	17.290130	80.815026	31.25	V
119	17.283865	80.817026	37.52	V

LEGEND

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

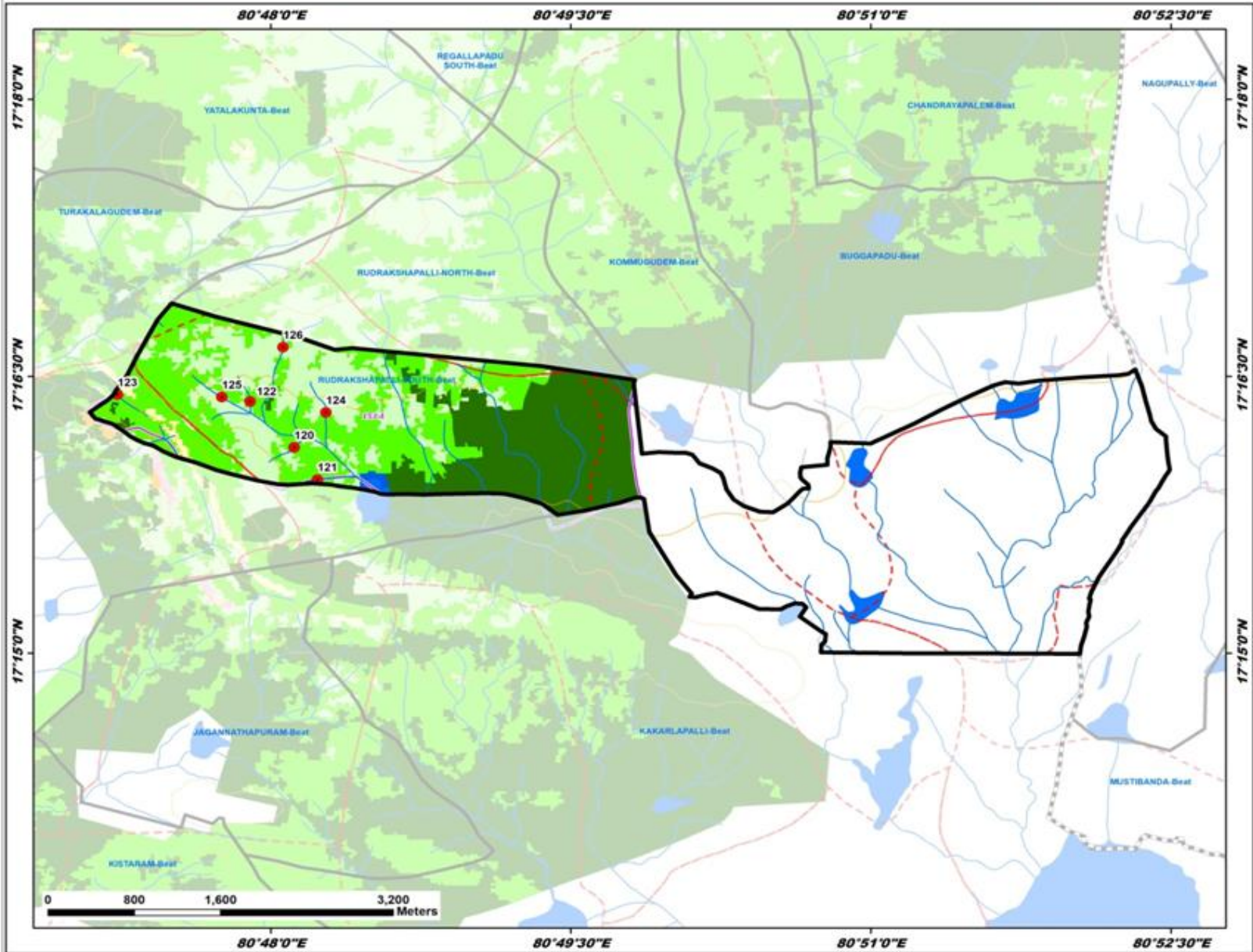
Suitability Index

- 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 Rudrakshapalli South Beat



Division : Sathupally
Range : Sathupally



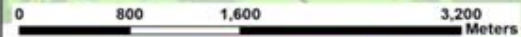
ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
120	17.268586	80.801955	19.15	II
121	17.265675	80.803873	24.29	II
122	17.272749	80.798271	16.99	II
123	17.273347	80.787208	15.59	II
124	17.271739	80.804596	19.29	IV
125	17.273128	80.795902	37.06	V
126	17.277640	80.801019	43.34	V

LEGEND

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

Suitability Index

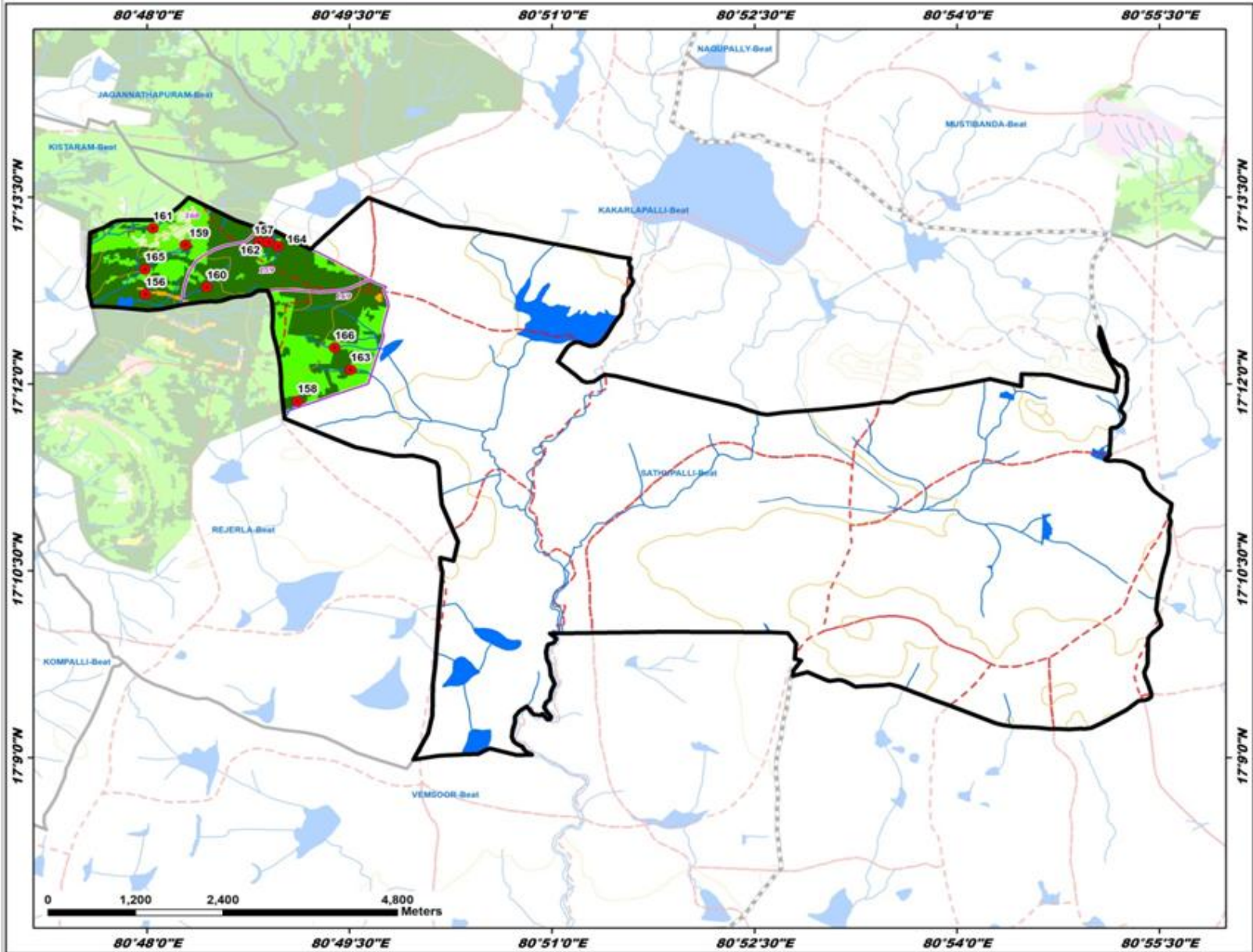
- CCTs/SCTs - Highly Suitable
- CCTs/SCTs - Moderately Suitable
- CCTs/SCTs - Least Suitable
- PTs - Highly Suitable
- PTs - Moderately Suitable
- PTs - Least Suitable
- MPTs and SGPs - Suitable
- Not Suitable
- Water Body



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



Division : Sathupally
Range : Sathupally



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
156	17.212004	80.799833	12.64	I
157	17.218996	80.813833	18.32	I
158	17.197719	80.818579	22.94	I
159	17.218639	80.804747	16.97	II
160	17.212937	80.807359	28.38	II
161	17.220838	80.800743	16.65	II
162	17.218995	80.815017	5.02	II
163	17.201906	80.825136	27.46	II
164	17.218489	80.816219	14.14	II
165	17.215348	80.799761	37.05	II
166	17.204854	80.823181	20.24	II

LEGEND

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

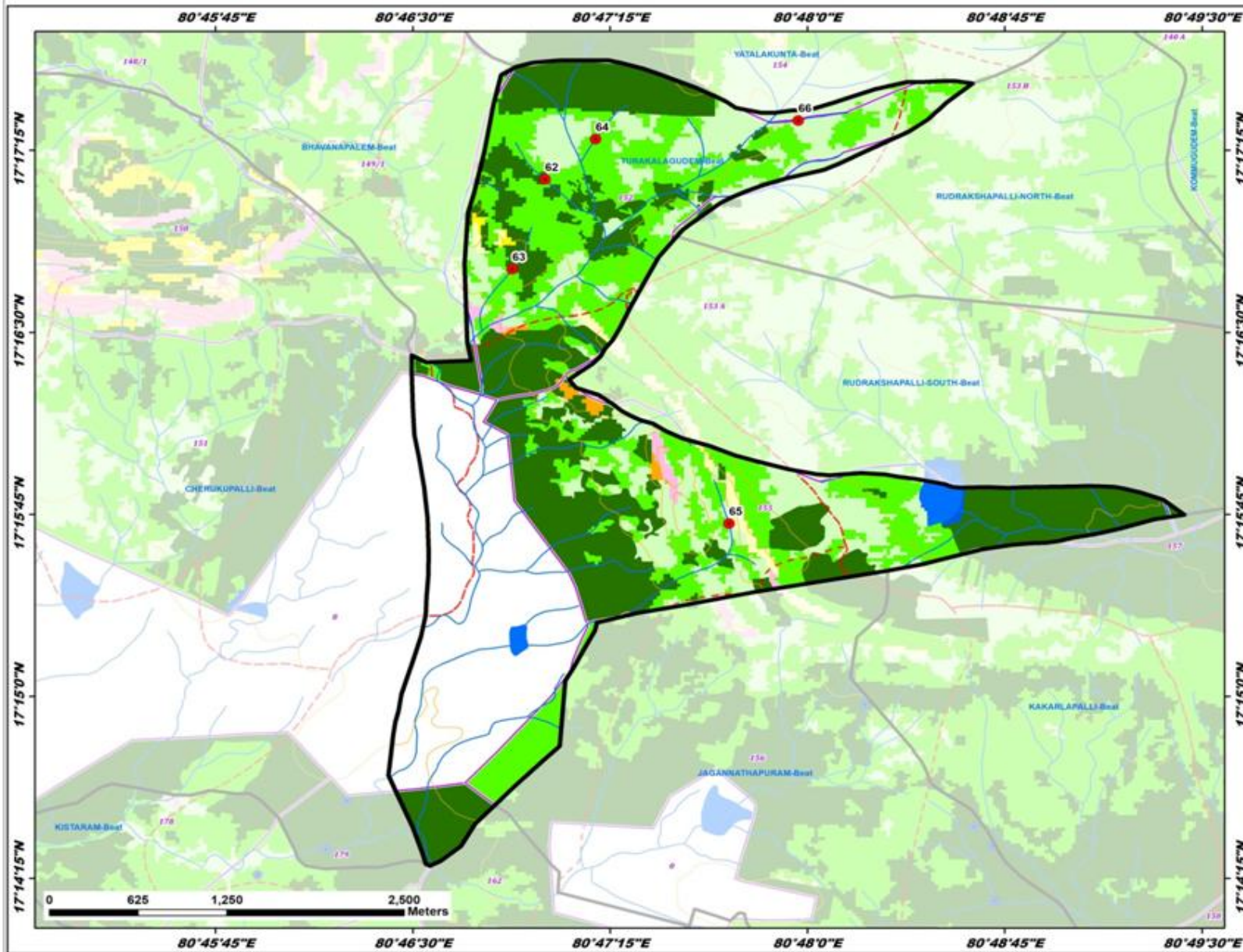
Suitability Index

- 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 Turakalagudem Beat



Division : Sathupally
Range : Sathupally



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
62	17.285513	80.783983	15.26	I
63	17.279942	80.781304	13.99	II
64	17.288279	80.786582	46.43	III
65	17.261871	80.795037	22.69	IV
66	17.289559	80.799433	14.72	IV

LEGEND

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

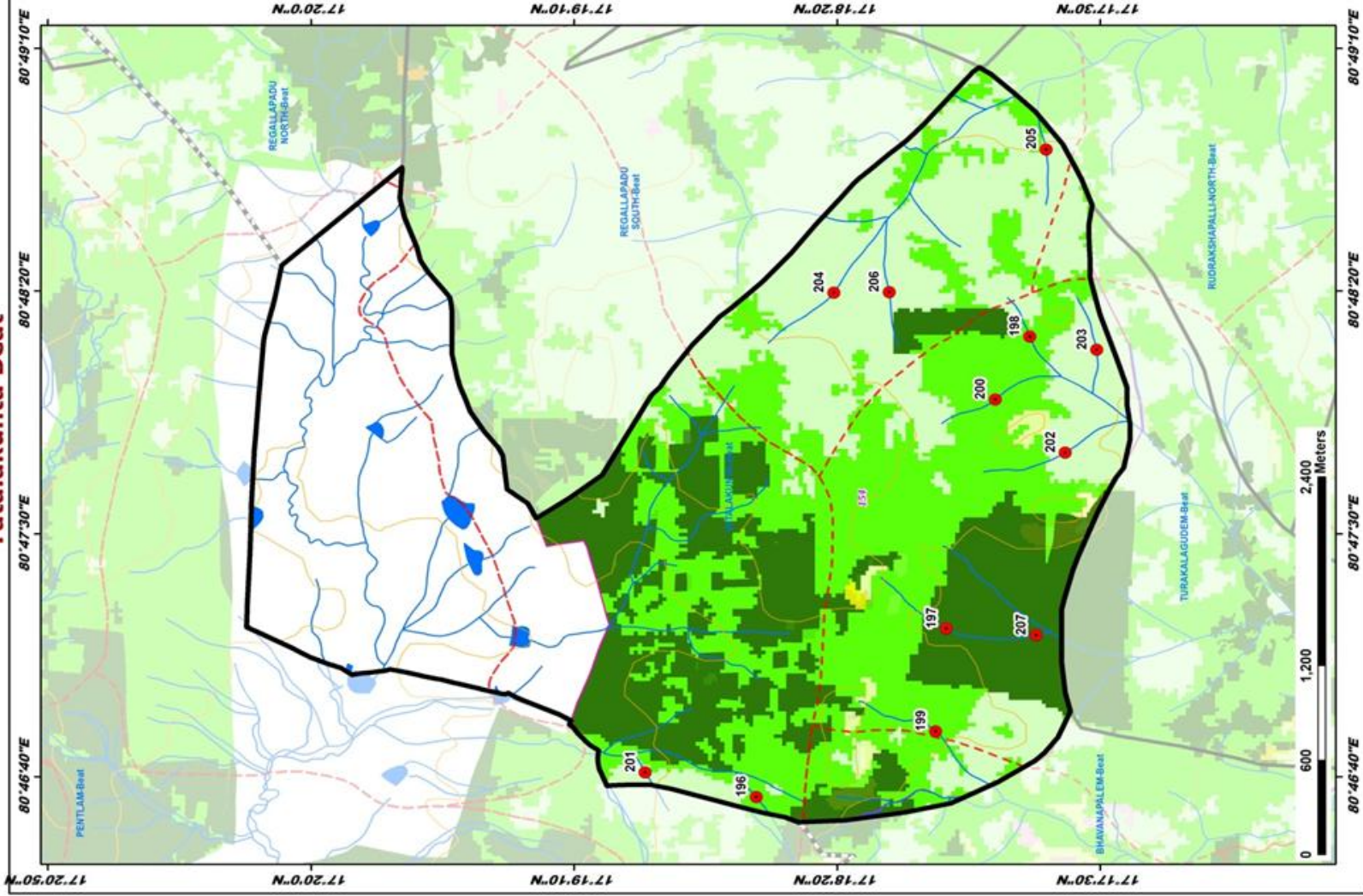
Suitability Index

- 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 Yatalakunta Beat



Division : Sathupally
Range : Sathupally



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
196	17.20927	80.77640	22.55	II
197	17.209790	80.78275	37.39	II
198	17.295384	80.802968	24.09	II
199	17.300352	80.793384	17.15	II
200	17.297311	80.799369	39.94	II
201	17.315982	80.778048	17.22	IV
202	17.293507	80.796338	21.65	IV
203	17.291848	80.802209	15.88	IV
204	17.305724	80.805482	37.28	V
205	17.294537	80.813674	31.83	V
206	17.302807	80.805507	46.88	V
207	17.295049	80.785891	62.58	III

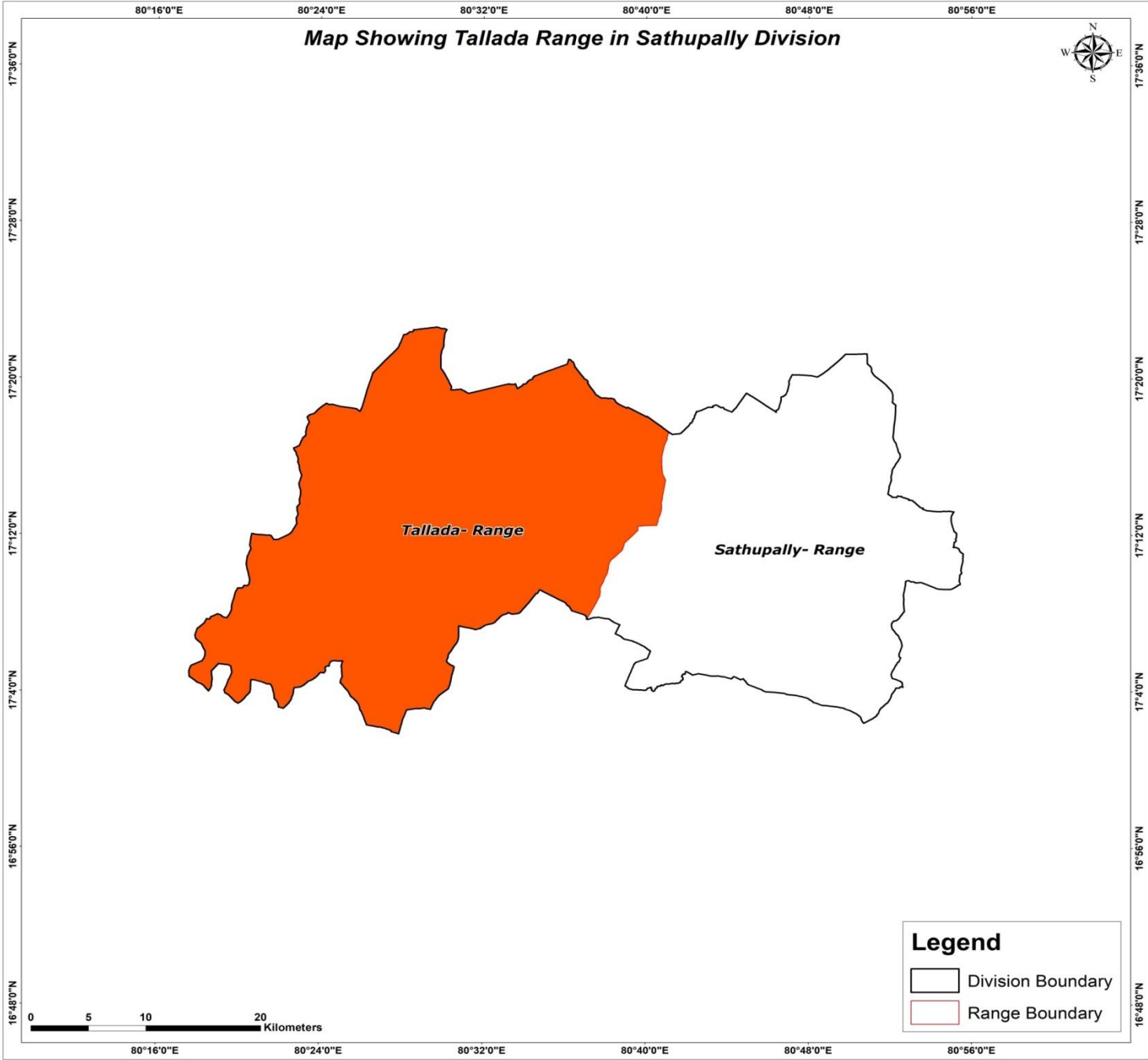
LEGEND

- 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's - Suitable
- Not Suitable
- Water Body

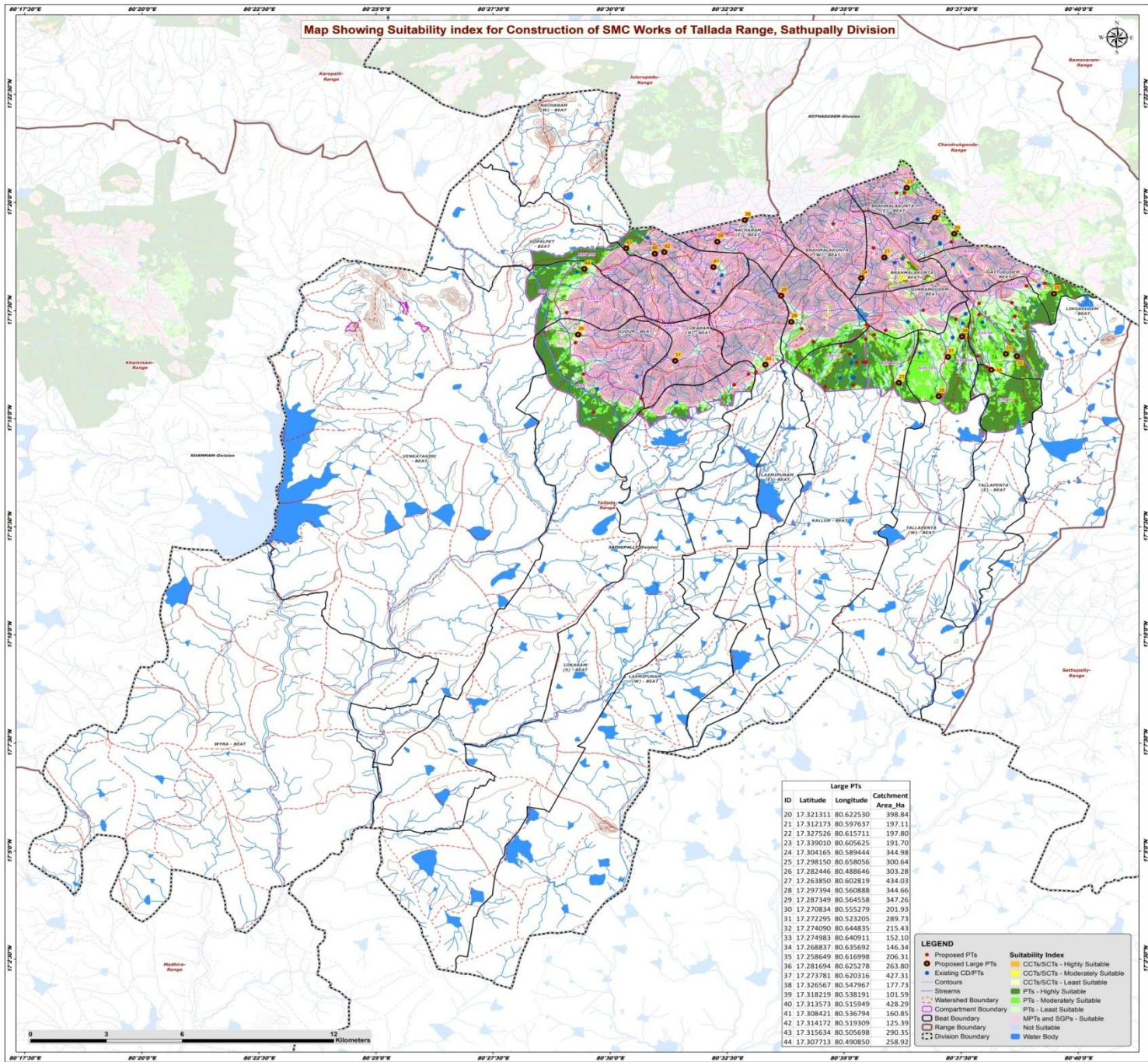
Map Showing Tallada Range in Sathupally Division



Legend

-  Division Boundary
-  Range Boundary

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



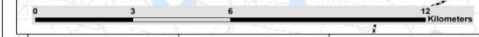
Large Pts			
ID	Latitude	Longitude	Catchment Area_Ha
20	17.321311	80.622530	398.84
21	17.312173	80.597637	197.11
22	17.327526	80.615711	197.80
23	17.330010	80.665625	191.70
24	17.304165	80.589444	344.98
25	17.298150	80.658056	300.64
26	17.282446	80.488646	303.28
27	17.263850	80.662819	434.03
28	17.297394	80.560888	344.66
29	17.287349	80.564558	347.26
30	17.270834	80.555279	201.93
31	17.272295	80.532305	289.73
32	17.274090	80.644835	215.43
33	17.274983	80.640911	152.10
34	17.268837	80.635692	146.34
35	17.258649	80.616998	206.31
36	17.281694	80.625278	263.80
37	17.273781	80.620316	427.31
38	17.326567	80.547967	177.73
39	17.318219	80.538191	101.59
40	17.313573	80.515949	428.29
41	17.308421	80.536794	160.85
42	17.314172	80.519309	125.39
43	17.315634	80.505698	290.35
44	17.307713	80.490850	258.92

LEGEND

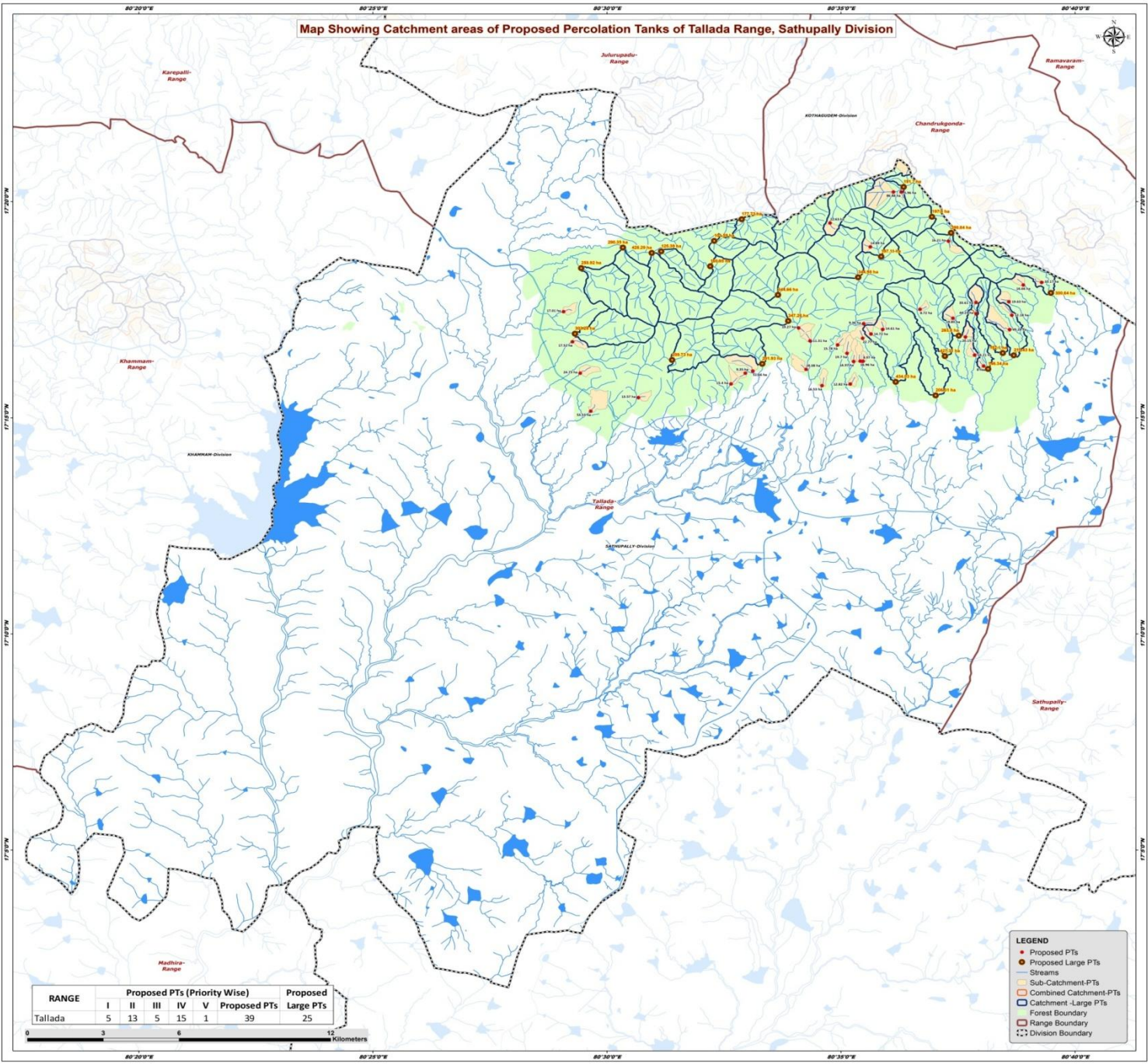
- Proposed Pts
- Proposed Large Pts
- Existing CD/Pts
- Contours
- Streams
- - - Watershed Boundary
- - - Compartment Boundary
- - - Heat Boundary
- - - Range Boundary
- - - Division Boundary

Suitability Index

- CCTw/SCTs - Highly Suitable
- CCTw/SCTs - Moderately Suitable
- CCTw/SCTs - Least Suitable
- Pts - Highly Suitable
- Pts - Moderately Suitable
- Pts - Least Suitable
- MPTs and SCIPs - Suitable
- Not Suitable
- Blue Water Body

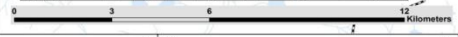


Map Showing Catchment areas of Proposed Percolation Tanks of Tallada Range, Sathupally Division



RANGE	Proposed PTs (Priority Wise)					Proposed PTs	Proposed Large PTs
	I	II	III	IV	V		
Tallada	5	13	5	15	1	39	25

- 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 – Tallada Range

S. No.	Beat	Proposed PT's
1	BRAHMALAKUNTA	2
2	BRAHMALAKUNTA EAST	2
3	BRAHMALAKUNTA WEST	1
4	GATTUGUEDEM	1
5	GUDUR	4
6	GURRAMGUEDEM	2
7	KALLUR	10
8	LAXMIPURAM EAST	3
9	LAXMIPURAM WEST	1
10	LINGAGUEDEM	8
11	LOKARAM SOUTH	2
12	TALLAPENTA EAST	1
13	TALLAPENTA WEST	1
14	VENKATAGIRI	1
	Total	39

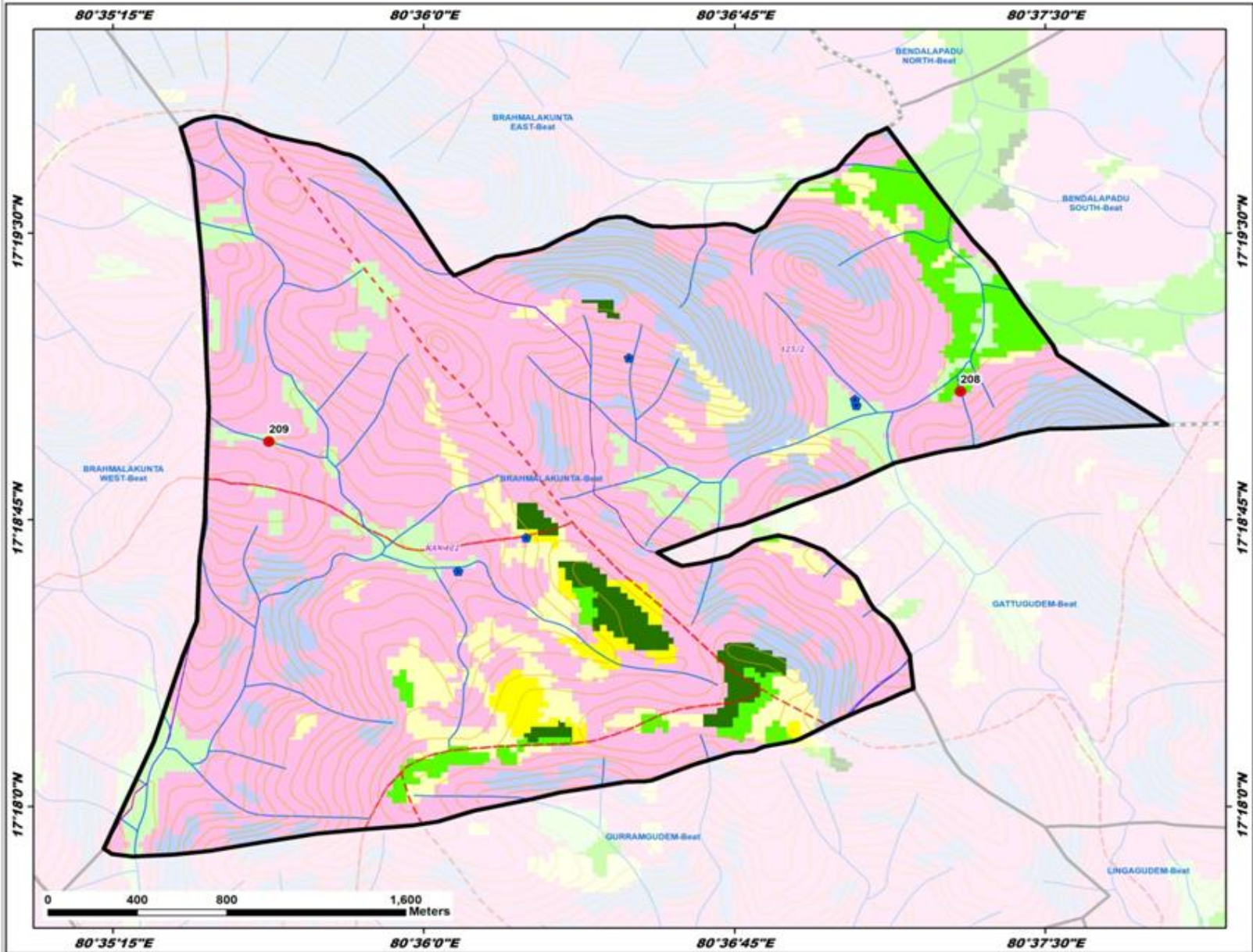
List of Proposed PTs – Tallada Range

ID	Latitude	Longitude	Catchment Area_Ha	Priority	Beat
208	17.318095	80.621595	16.21	II	BRAHMALAKUNTA
209	17.315917	80.593776	14.89	IV	BRAHMALAKUNTA
210	17.337074	80.604783	5.96	II	BRAHMALAKUNTA EAST
211	17.337069	80.602015	86.88	V	BRAHMALAKUNTA EAST
212	17.325126	80.579417	22.63	IV	BRAHMALAKUNTA WEST
213	17.302197	80.654763	10.17	II	GATTUGUEM
214	17.252535	80.494233	53.53	III	GUDUR
215	17.267216	80.490480	24.73	IV	GUDUR
216	17.257769	80.511203	13.57	IV	GUDUR
217	17.279301	80.487713	17.52	IV	GUDUR
218	17.271859	80.590156	16.96	I	KALLUR
219	17.271823	80.591203	8.97	I	KALLUR
220	17.263028	80.586631	12.82	I	KALLUR
221	17.271682	80.587848	16.97	I	KALLUR
222	17.262406	80.576566	16.53	I	KALLUR
223	17.278096	80.582135	15.78	II	KALLUR
224	17.280663	80.591051	22.77	II	KALLUR
225	17.274861	80.585480	19.70	II	KALLUR
226	17.282310	80.594007	14.72	II	KALLUR
227	17.268707	80.570912	28.08	III	KALLUR
228	17.286278	80.591373	9.36	II	LAXMIPURAM EAST
229	17.279668	80.572302	11.31	II	LAXMIPURAM EAST
230	17.284652	80.568239	19.27	II	LAXMIPURAM EAST
231	17.267991	80.551927	51.66	IV	LAXMIPURAM WEST
232	17.267201	80.549277	9.35	IV	LOKARAM SOUTH
233	17.263070	80.544192	15.40	IV	LOKARAM SOUTH
234	17.291850	80.611461	8.72	IV	GURRAMGUEM
235	17.284068	80.598162	14.61	IV	GURRAMGUEM
236	17.274188	80.630904	18.21	II	LINGAGUEM
237	17.294740	80.643097	19.63	II	LINGAGUEM
238	17.281123	80.627623	20.15	II	LINGAGUEM
239	17.294475	80.631400	33.61	III	LINGAGUEM
240	17.284015	80.643352	49.28	III	LINGAGUEM
241	17.289564	80.644150	12.18	IV	LINGAGUEM
242	17.301207	80.648229	16.66	IV	LINGAGUEM
243	17.290141	80.631436	44.23	III	LINGAGUEM
244	17.269967	80.634117	8.00	IV	TALLAPENTA EAST
245	17.288359	80.623181	19.85	IV	TALLAPENTA WEST
246	17.290929	80.484550	17.01	IV	VENKATAGIRI

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



Division : Sathupally
Range : Tallada



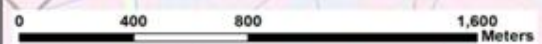
ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
208	17.318095	80.623595	16.21	II
209	17.315917	80.593776	14.89	IV

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



80°35'15"E 80°36'0"E 80°36'45"E 80°37'30"E

17°19'30"N 17°19'30"N

17°18'45"N 17°18'45"N

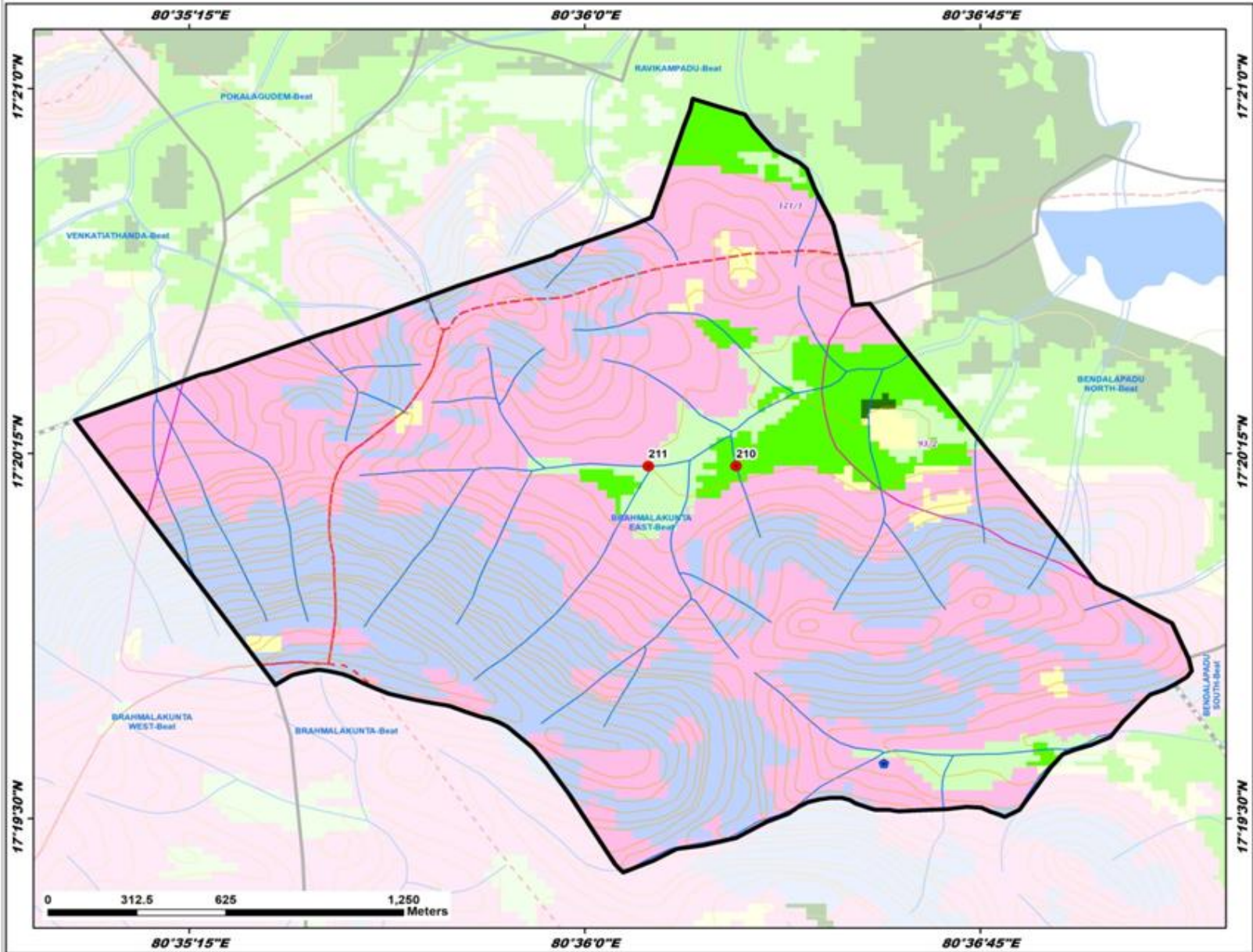
17°18'0"N 17°18'0"N

80°35'15"E 80°36'0"E 80°36'45"E 80°37'30"E

Map Showing Suitability index for Construction of SMC Works of Brahmakunta East Beat



Division : Sathupally
Range : Tallada



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
210	17.337074	80.604783	5.96	II
211	17.337069	80.603015	66.88	V

LEGEND

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

Suitability Index

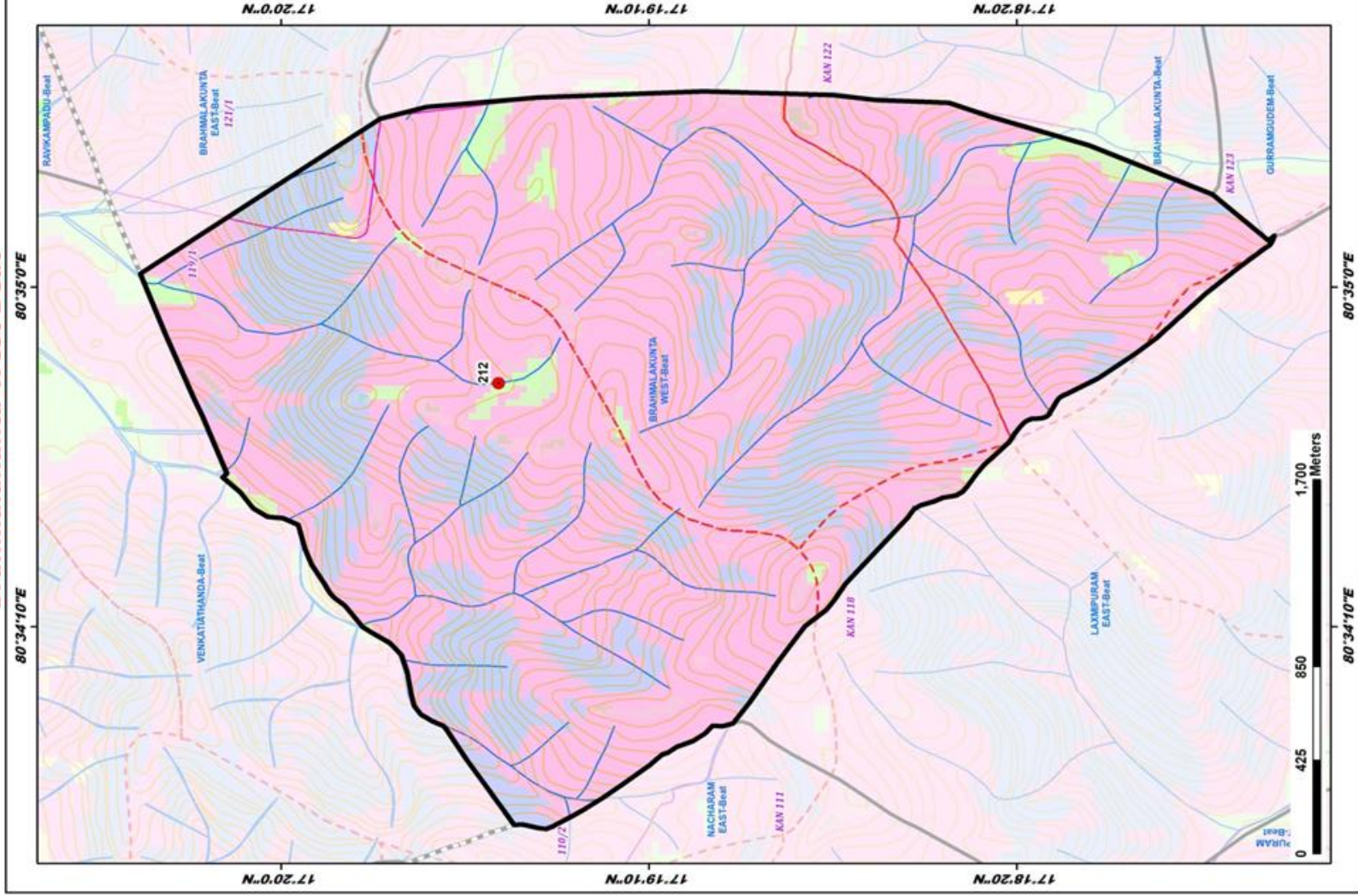
- CCTs/SCTs - Highly Suitable
- CCTs/SCTs - Moderately Suitable
- CCTs/SCTs - Least Suitable
- PTs - Highly Suitable
- PTs - Moderately Suitable
- PTs - Least Suitable
- MPTs and SGPs - Suitable
- Not Suitable
- Water Body



Map Showing Suitability index for Construction of SMC Works of Brahmalakunta West Beat



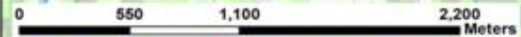
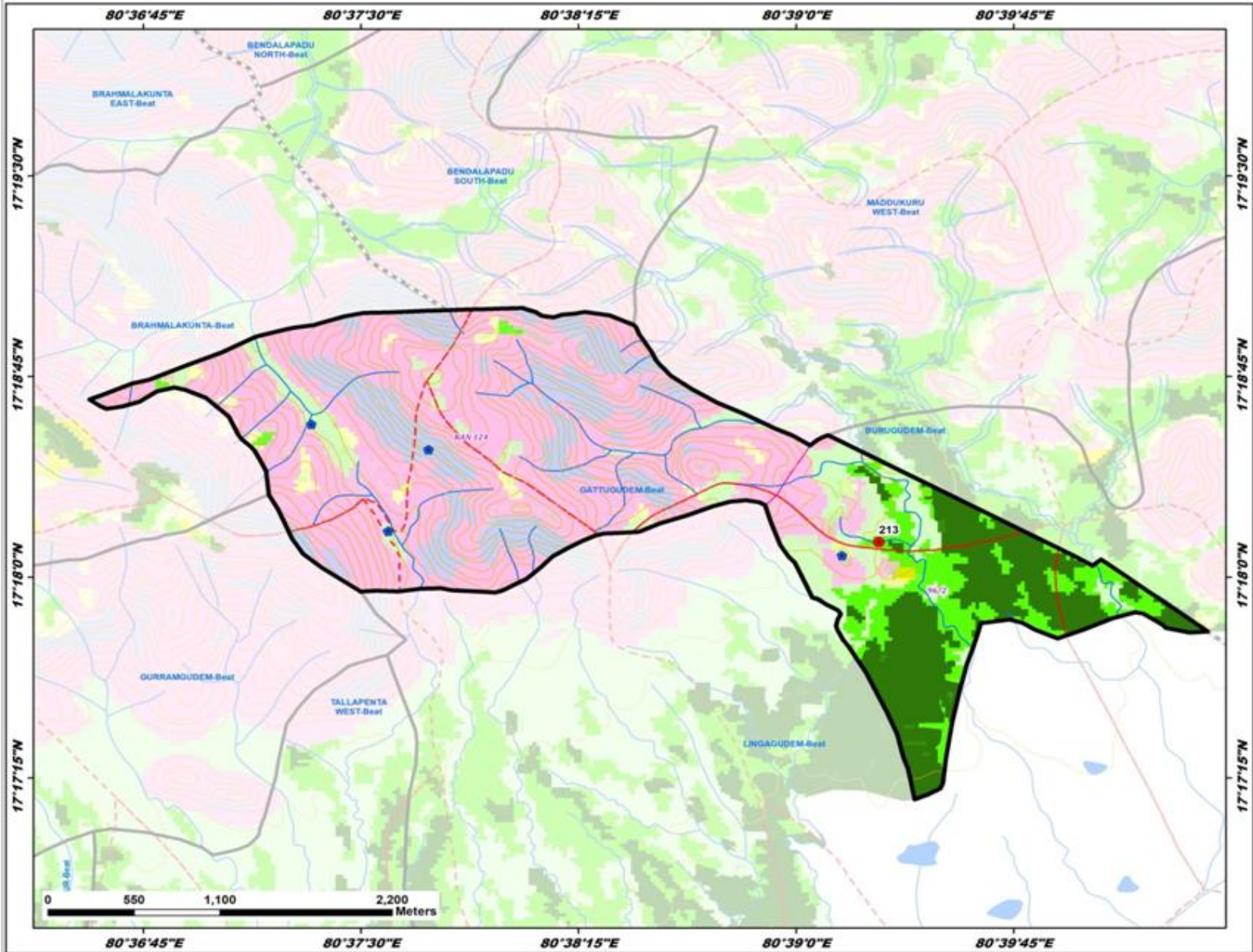
Division : Sathupally
Range : Tallada



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



Division : Sathupally
Range : Tallada



ID	Latitude	Longitude	Catchment Area Hc	PRIORITY
213	17.302197	80.654763	10.17	II

LEGEND

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

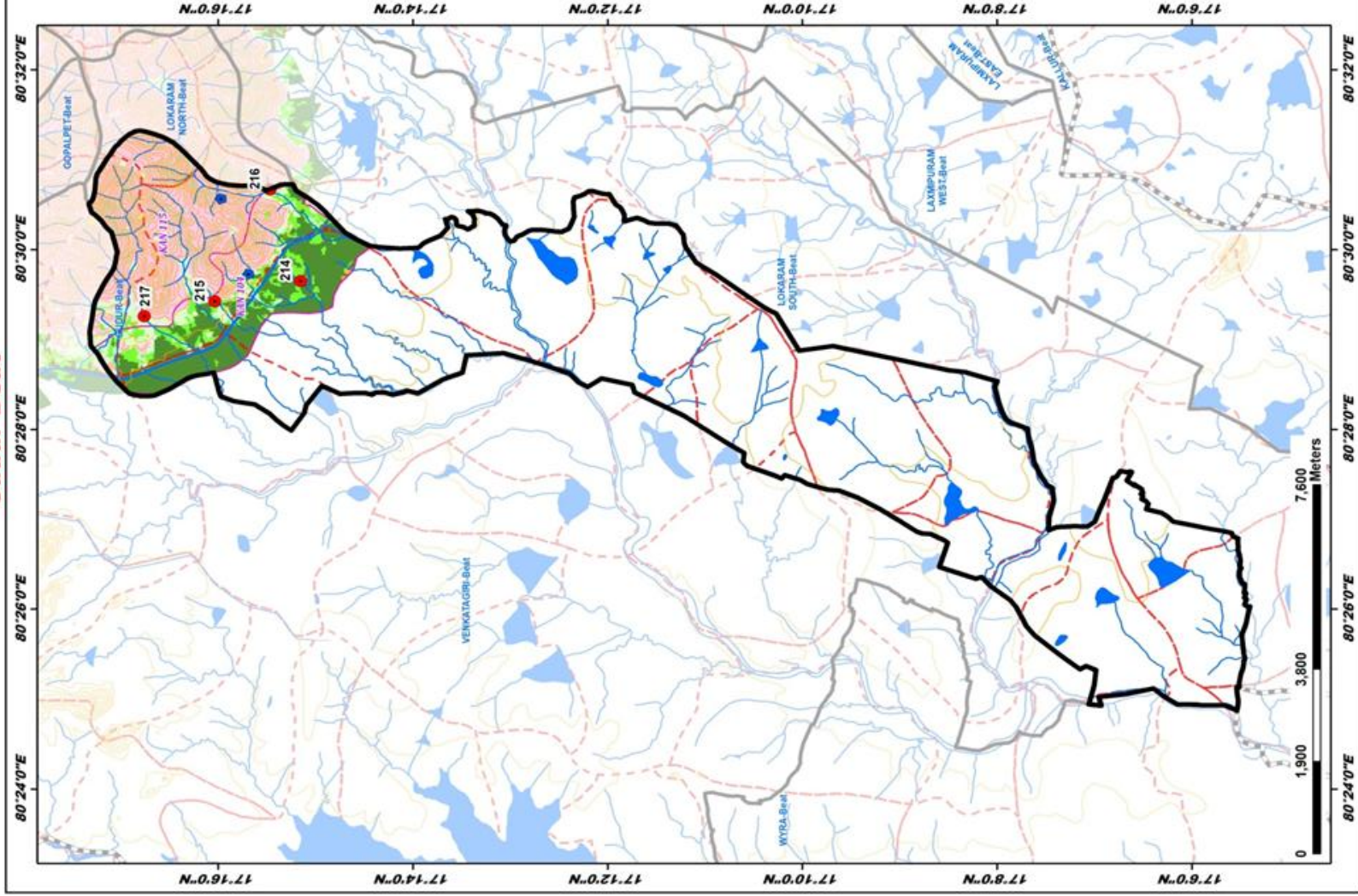
Suitability Index

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

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



Division : Sathupally
Range : Tallada



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
214	17.252935	80.484233	53.53	III
215	17.267216	80.490480	24.73	IV
216	17.257769	80.511203	11.57	IV
217	17.279501	80.487713	17.52	IV

LEGEND

- Proposed PTIs (Red dot)
- Existing CD/PTIs (Blue dot)
- Contours (Yellow line)
- Streams (Blue line)
- Watershed Boundary (Red dashed line)
- Compartment Boundary (Pink dashed line)
- Beat Boundary (Black solid line)
- Division Boundary (Black dashed line)

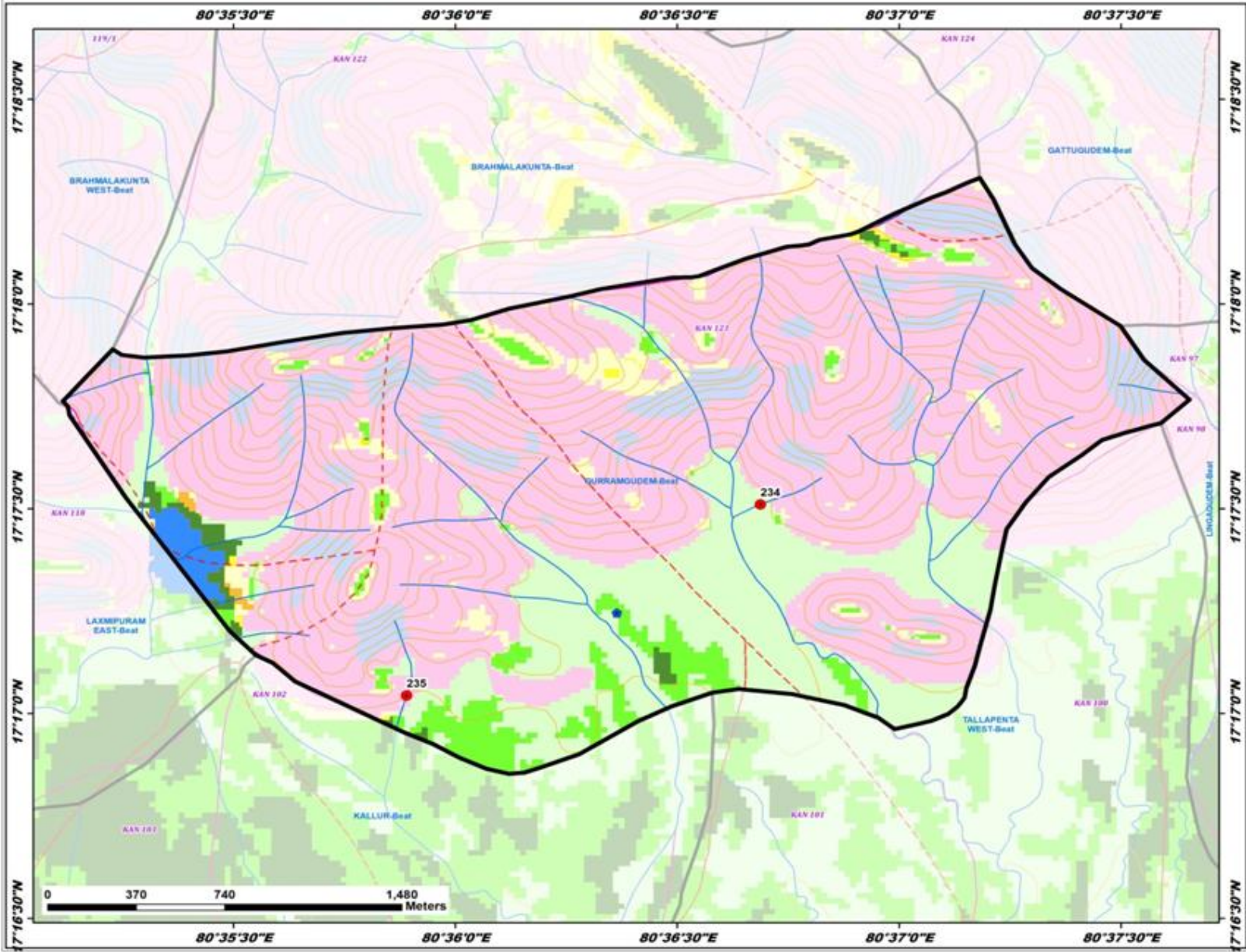
Suitability Index

- CCTs/SCTs - Highly Suitable (Red)
- CCTs/SCTs - Moderately Suitable (Orange)
- CCTs/SCTs - Least Suitable (Yellow)
- PTIs - Highly Suitable (Green)
- PTIs - Moderately Suitable (Light Green)
- PTIs - Least Suitable (Light Blue)
- MPTIs and SGP's - Suitable (Pink)
- Not Suitable (Blue)
- Water Body (Dark Blue)

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



Division : Sathupally
Range : Tallada



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
234	17.295850	80.63461	8.72	IV
235	17.294068	80.598162	14.61	IV

LEGEND

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

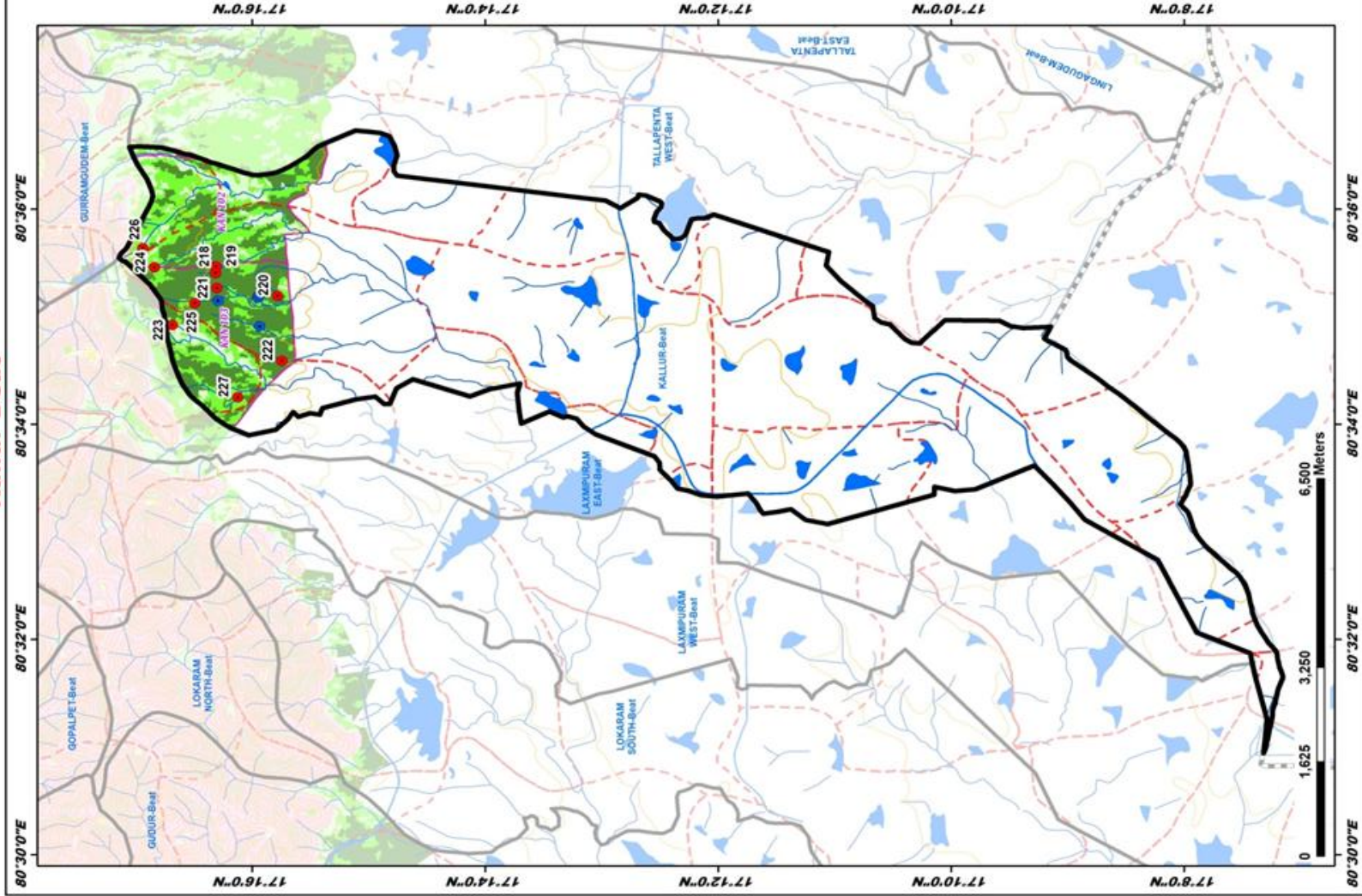
Suitability Index

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

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



Division : Sathupally
Range : Tallada



ID	Latitude	Longitude	Catchment Area No	PRIORITY
218	17.271659	80.590156	16.96	I
219	17.271823	80.591203	8.97	I
220	17.263028	80.586631	12.82	I
221	17.271682	80.587948	16.97	I
222	17.262406	80.576666	16.53	I
223	17.278096	80.582135	15.78	II
224	17.280663	80.590051	22.77	II
225	17.274861	80.585480	19.70	II
226	17.282310	80.594007	14.72	II
227	17.288707	80.570912	28.08	III

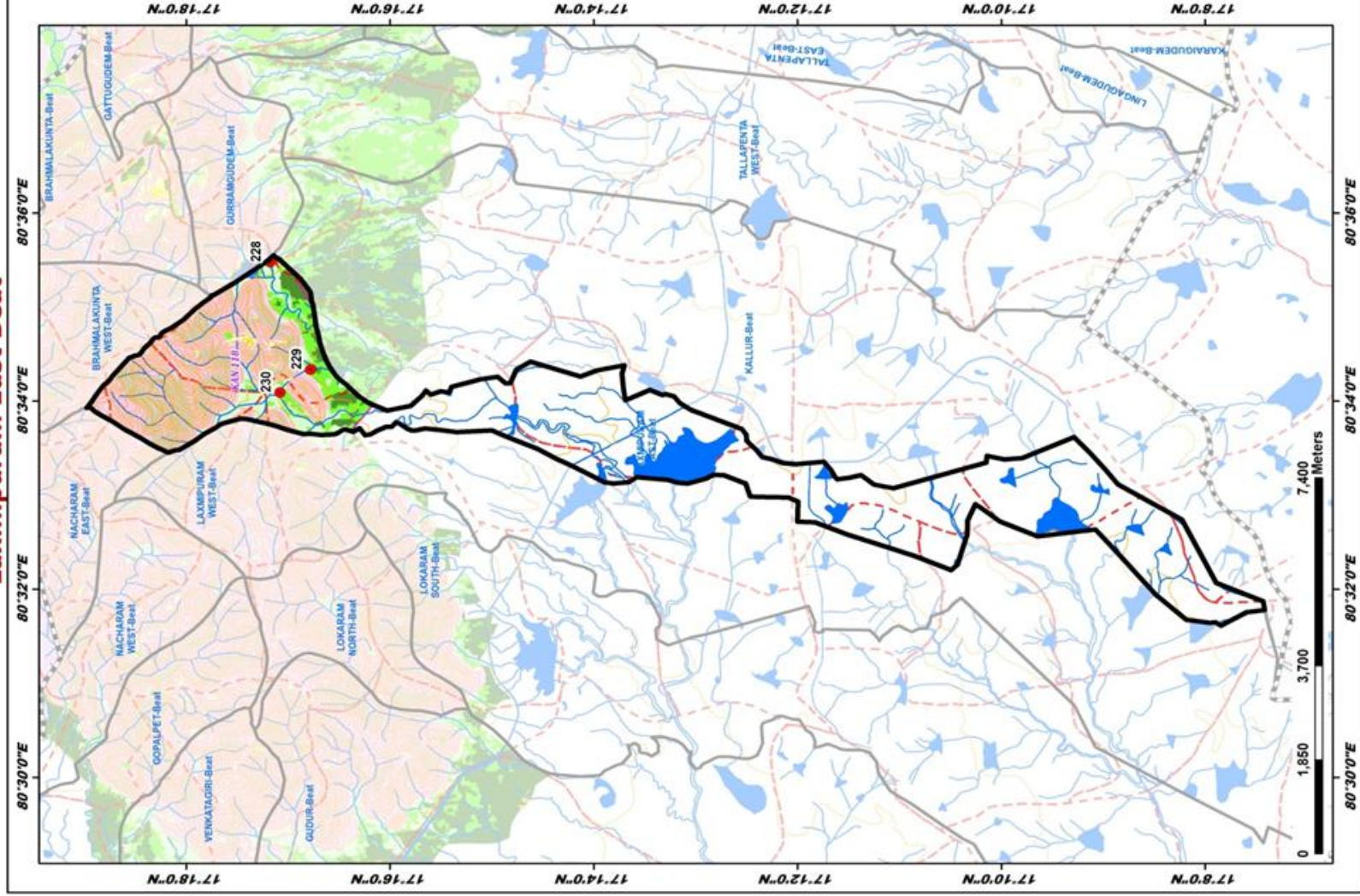
LEGEND

- 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's - Suitable
 - Not Suitable
 - Water Body

Map Showing Suitability index for Construction of SMC Works of Laxmipuram East Beat



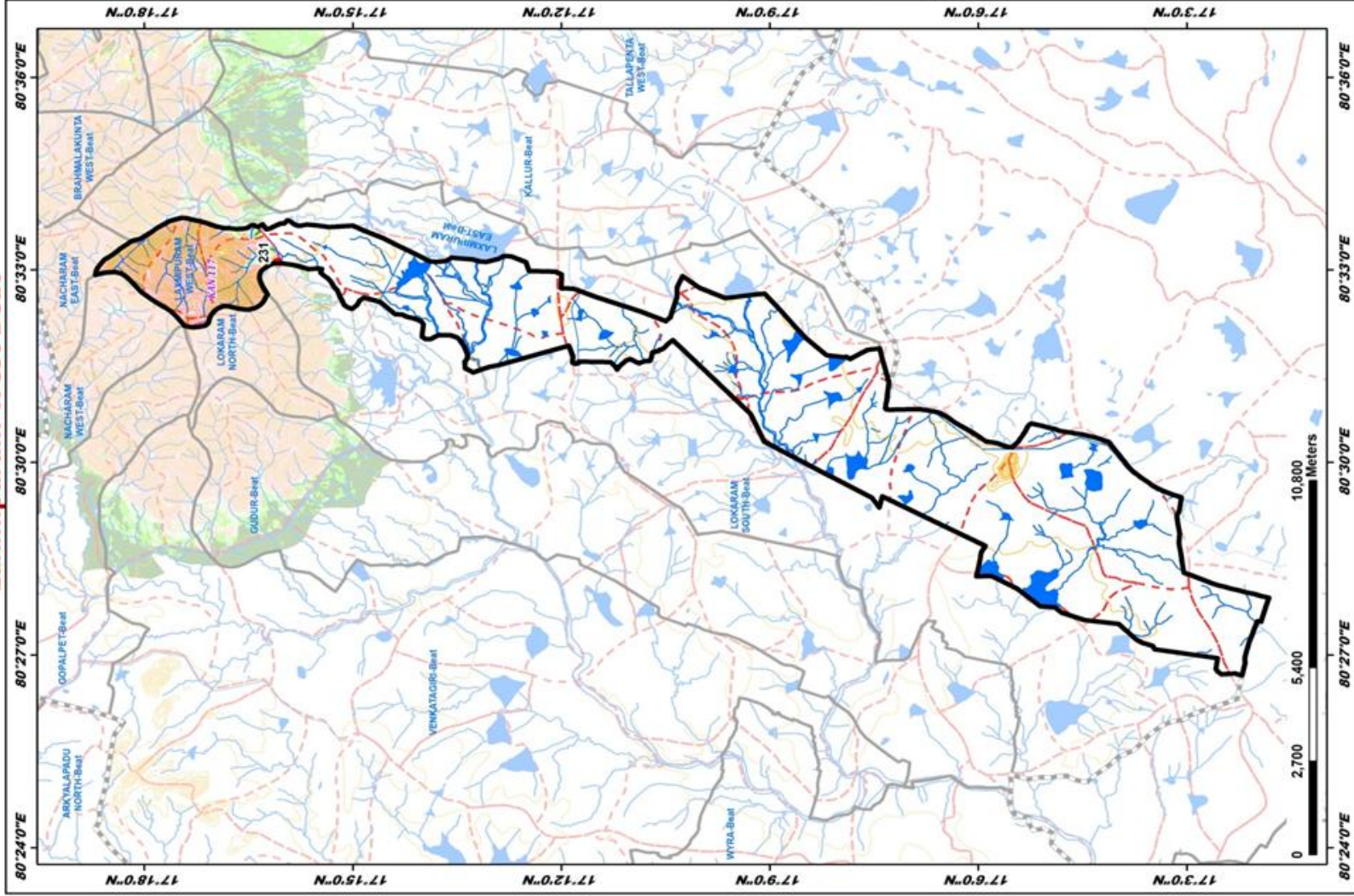
Division : Sathupally
Range : Tallada



Map Showing Suitability index for Construction of SMC Works of Laxmipuram West Beat



Division : Sathupally
Range : Tallada



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
231	17.267991	80.519207	51.66	IV

LEGEND

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

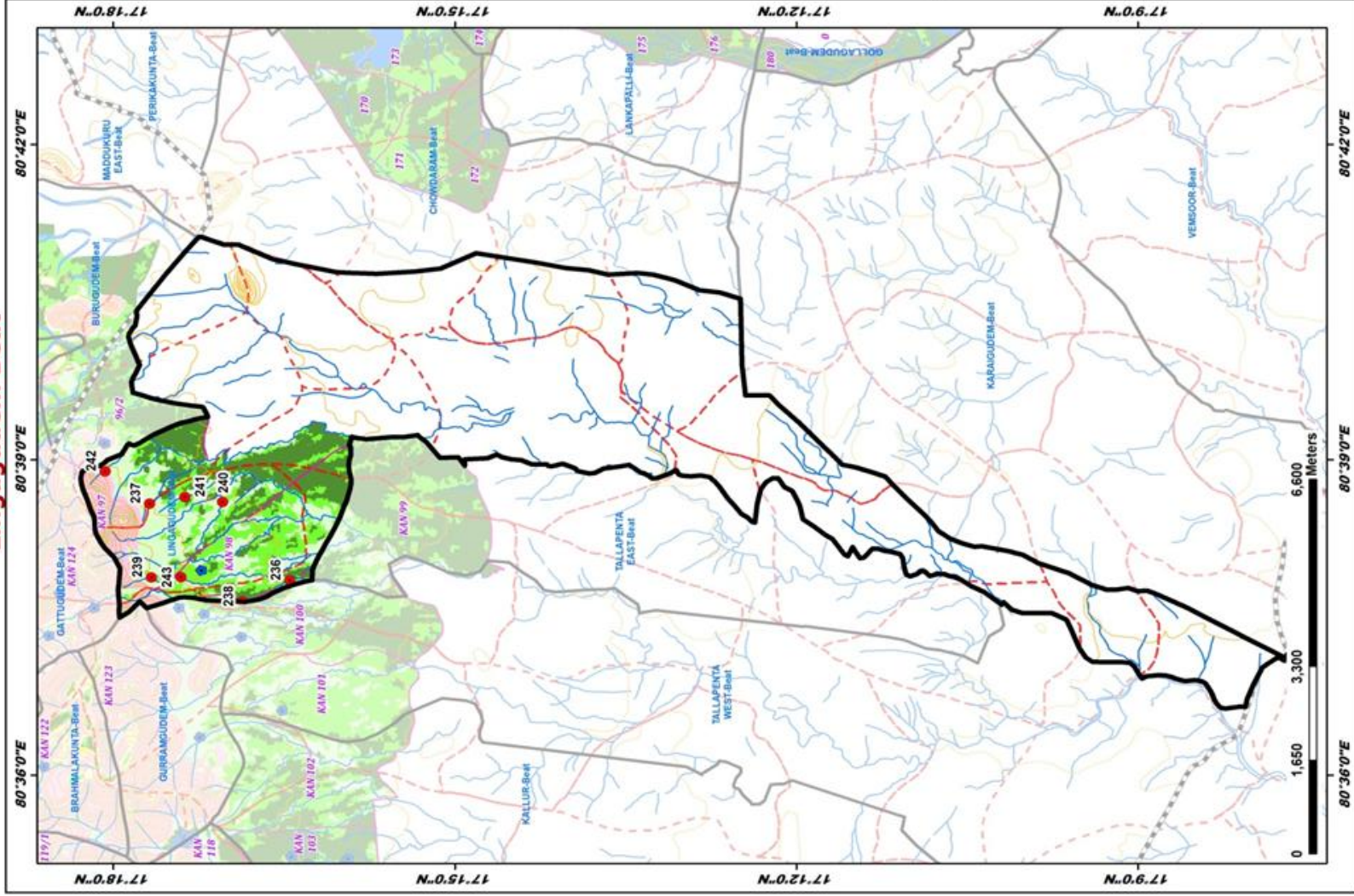
Suitability Index

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

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



Division : Sathupally
Range : Tallada



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
236	17.274188	80.630904	18.21	II
237	17.294340	80.643097	19.63	II
238	17.281123	80.627823	20.15	II
239	17.294475	80.631400	33.61	III
240	17.294515	80.643352	49.28	III
241	17.289564	80.644150	12.18	IV
242	17.301207	80.648229	16.66	IV
243	17.290441	80.631436	44.23	III

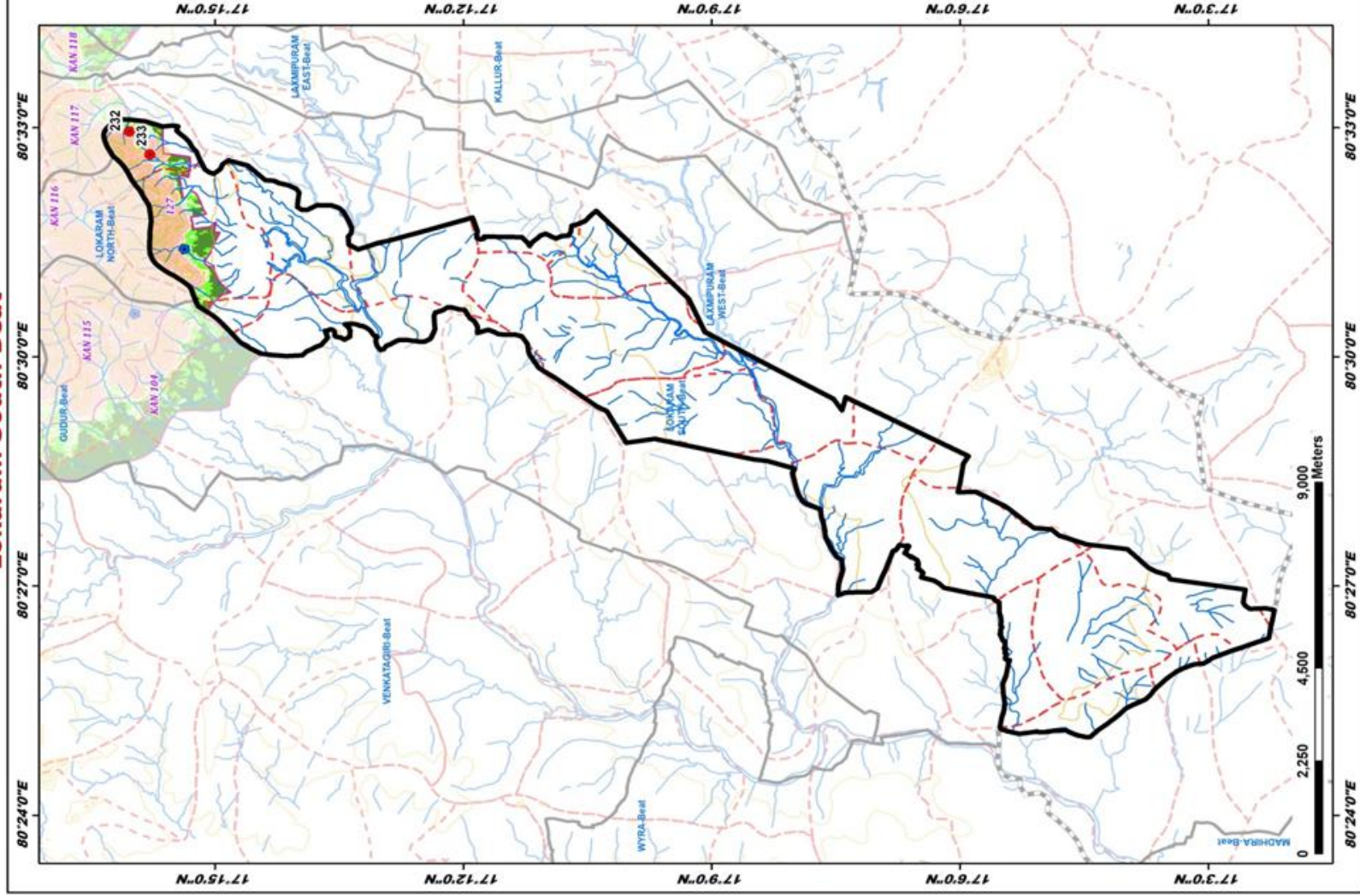
LEGEND

- 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
 - CD and PT - Highly Suitable
 - CD and PT - Moderately Suitable
 - CD and PT - Least Suitable
 - MPTs and SGP's - Suitable
 - Not Suitable
 - Water Body

Map Showing Suitability index for Construction of SMC Works of Lokaram South Beat



Division : Sathupally
Range : Tallada



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
232	17.267201	80.549277	9.35	IV
233	17.263070	80.544192	15.40	IV

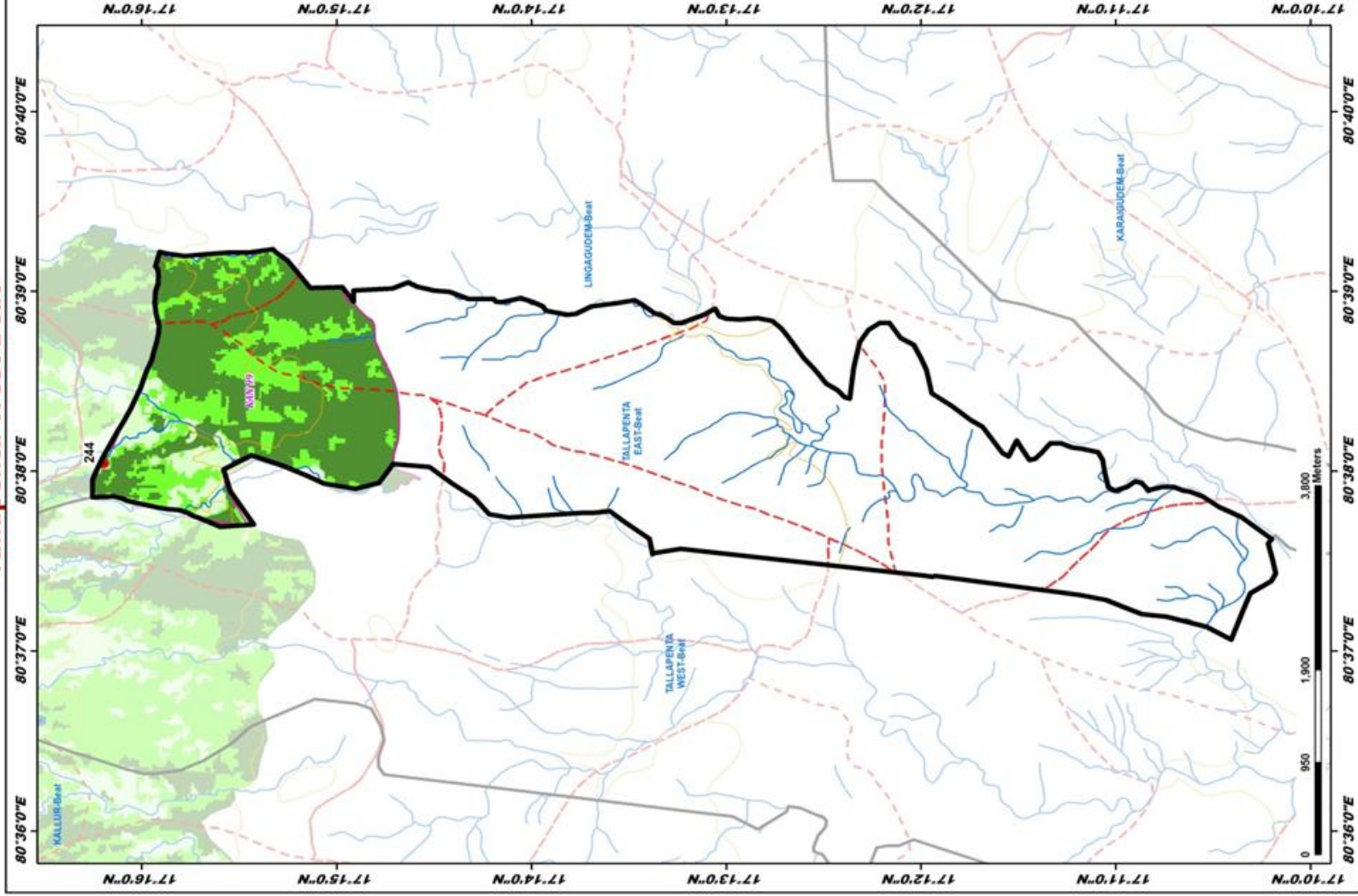
LEGEND

- 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
 - CD and PT - Highly Suitable
 - CD and PT - Moderately Suitable
 - CD and PT - Least Suitable
 - MPTs and SGPs - Suitable
 - Not Suitable
 - Water Body

Map Showing Suitability index for Construction of SMC Works of Tallapenta West Beat



Division : Sathupally
Range : Tallada



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
244	17.269967	80.694117	8.00	IV

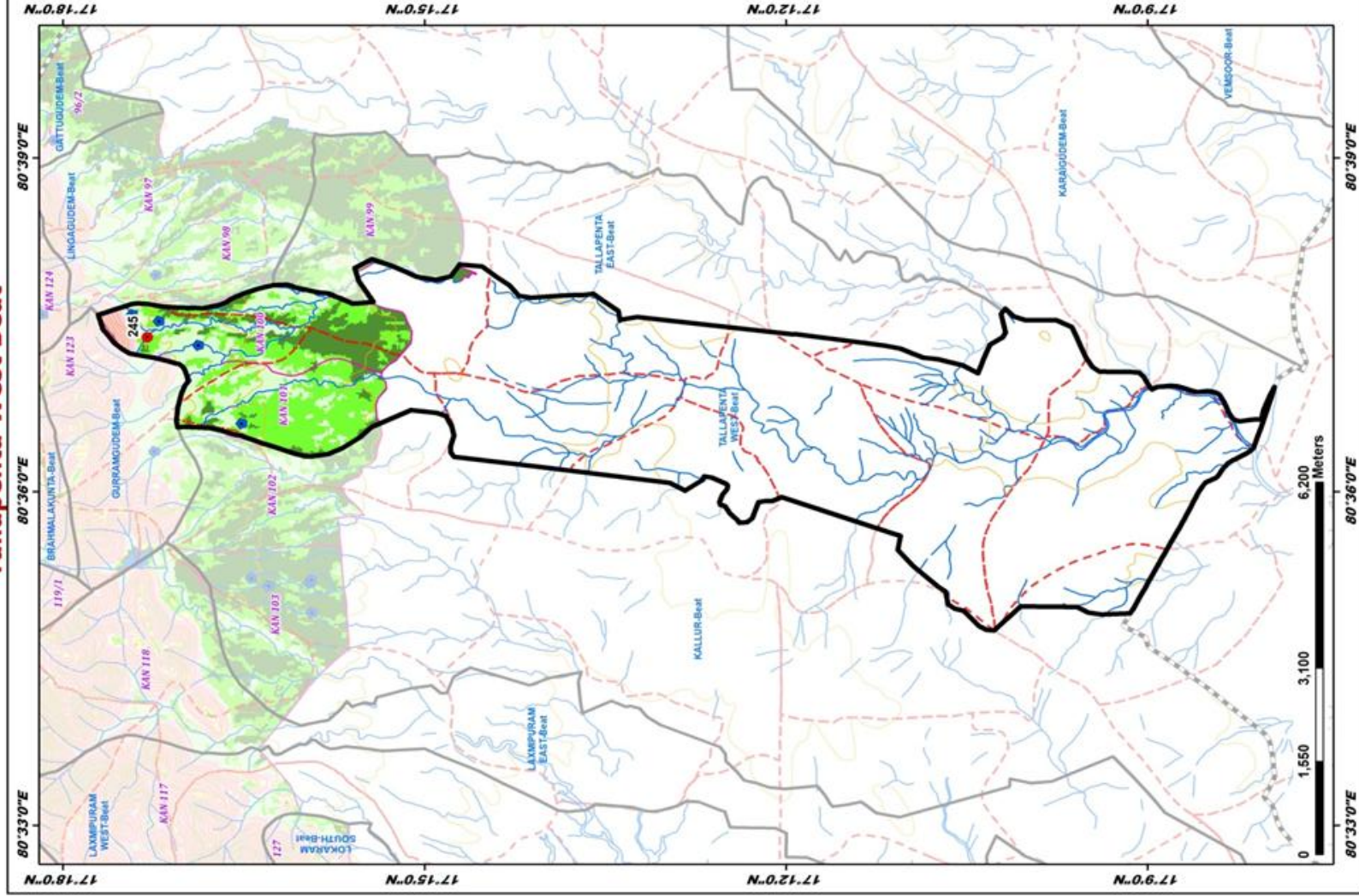
LEGEND

- 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
 - CD and PT - Highly Suitable
 - CD and PT - Moderately Suitable
 - CD and PT - Least Suitable
 - MPTs and SGPs - Suitable
 - Not Suitable
 - Water Body

Map Showing Suitability index for Construction of SMC Works of Tallapenta West Beat



Division : Sathupally
Range : Tallada



ID	Latitude	Longitude	Catchment Area No	PRIORITY
245	17.288359	80.623181	19.85	IV

LEGEND

- Proposed PTs (Red dot)
 - Existing CD/PTs (Blue dot)
 - Contours (Yellow line)
 - Streams (Blue line)
 - Watershed Boundary (Red dashed line)
 - Compartment Boundary (Pink dashed line)
 - Beat Boundary (Black solid line)
 - Division Boundary (Black dashed line)
- Suitability Index**
- CCTs/SCTs - Highly Suitable (Yellow)
 - CCTs/SCTs - Moderately Suitable (Light Green)
 - CCTs/SCTs - Least Suitable (Dark Green)
 - CD and PT - Highly Suitable (Light Green)
 - CD and PT - Moderately Suitable (Dark Green)
 - CD and PT - Least Suitable (Light Blue)
 - MPTs and SGPs - Suitable (Light Blue)
 - Not Suitable (White)
 - Water Body (Blue)

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



Division : Sathupally
Range : Tallada

