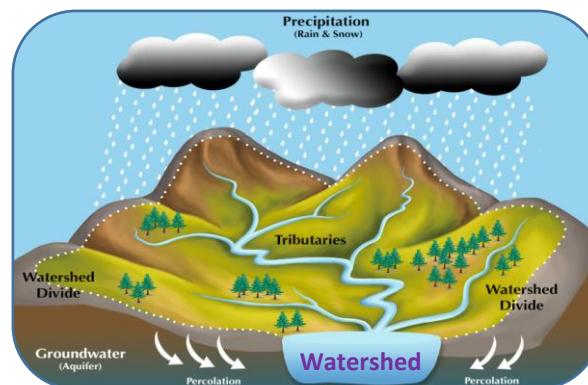


Government of Telangana – Forest Department



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

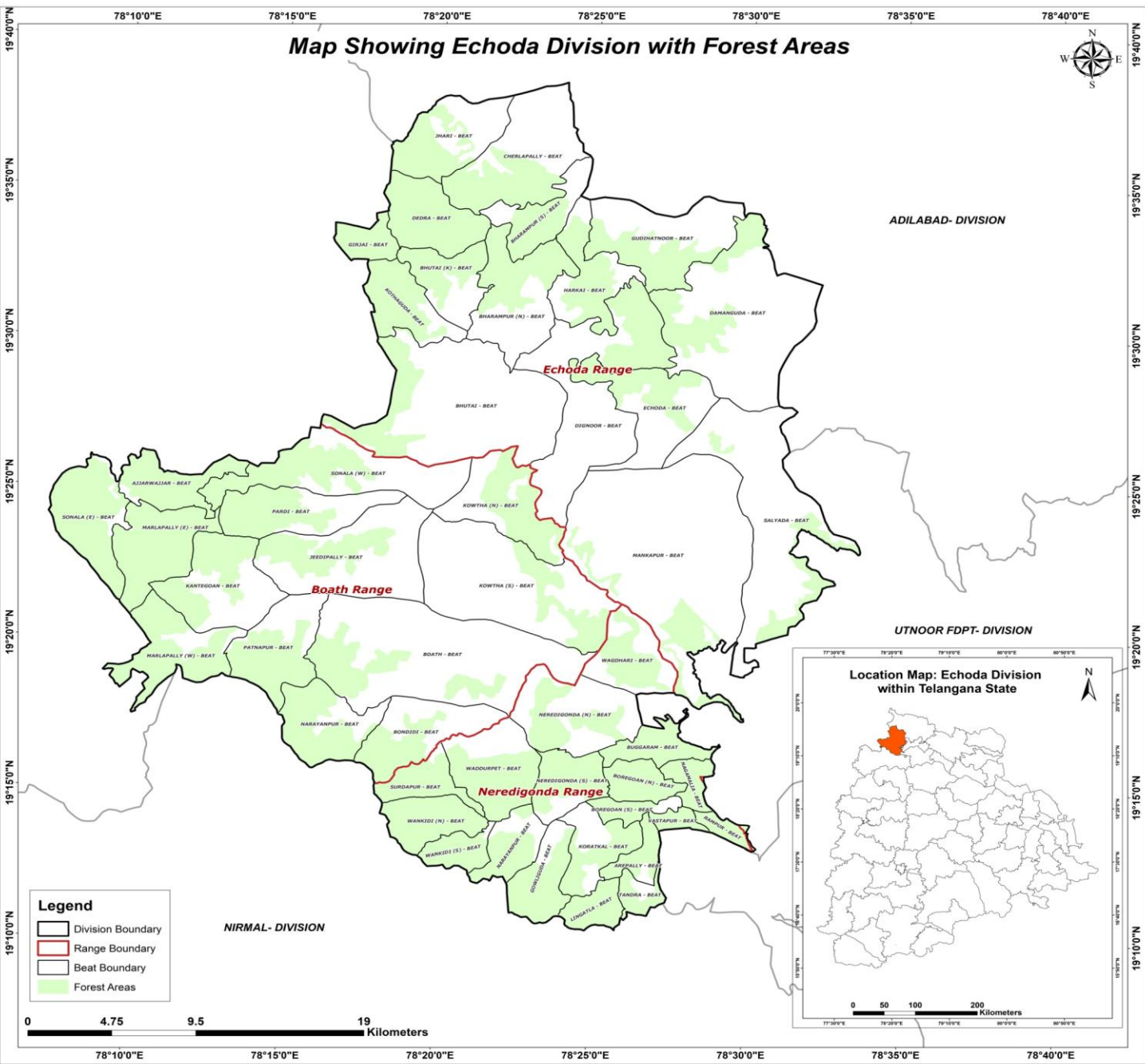


SITE SUITABILITY ANALYSIS FOR WATER HARVESTING STRUCTURES USING REMOTE SENSING & GIS

Circle: Basara
District: Adilabad
Division: Echoda

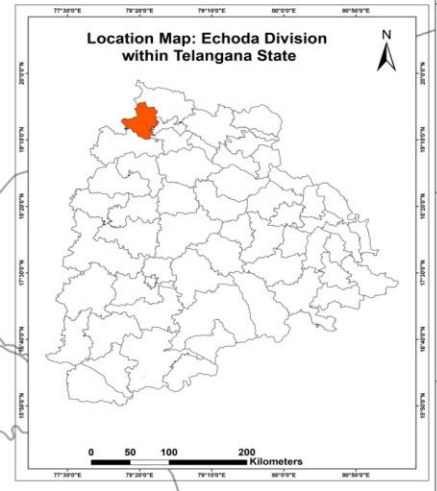
**Prepared at Geomatics Centre
O/o Prl.Chief Conservator of Forests
Aranya Bhavan, Saifabad
Hyderabad - 500004**

Map Showing Echoda Division with Forest Areas



Legend

- Division Boundary
- Range Boundary
- Beat Boundary
- Forest Areas



NIRMAL - DIVISION

ADILABAD - DIVISION

UTNOOR FDPT - DIVISION

Echoda Range

Boath Range

Neredigonda Range

- JHARI - BEAT
- CHERLAPALLY - BEAT
- DEORA - BEAT
- GUZAJI - BEAT
- BHUTAI (N) - BEAT
- SHARAPUR (D) - BEAT
- SHARAPUR (N) - BEAT
- HARKAT - BEAT
- GUDDHATNOOR - BEAT
- DAMANGUDA - BEAT
- ADILGODDI - BEAT
- BHUTAI - BEAT
- DIGONDOOR - BEAT
- ECHODA - BEAT
- SONALA (W) - BEAT
- KOWTHA (N) - BEAT
- SONALA (E) - BEAT
- PARADI - BEAT
- JEEDIPALLY - BEAT
- KANTYODAN - BEAT
- KOWTHA (S) - BEAT
- MANKAPUR - BEAT
- SALYADA - BEAT
- HARLAPALLY (E) - BEAT
- HARLAPALLY (W) - BEAT
- PATNAPUR - BEAT
- BOATH - BEAT
- WASHHARI - BEAT
- HARLAPALLY (W) - BEAT
- NARYANPUR - BEAT
- BONDIDI - BEAT
- NEREDIGONDA (N) - BEAT
- WADDURPET - BEAT
- BUGGARAM - BEAT
- SURDAPUR - BEAT
- NEREDIGONDA (S) - BEAT
- ROVVEDAN (N) - BEAT
- WANKIDI (N) - BEAT
- WANKIDI (S) - BEAT
- NEREDIGONDA (S) - BEAT
- ROVVEDAN (S) - BEAT
- OSTAPUR - BEAT
- MAKHOLI - BEAT
- MAKHOLI - BEAT
- KORATKAL - BEAT
- APPELALLY - BEAT
- CHANDRA - BEAT
- CHANDRA - BEAT
- JUGATLA - BEAT
- JUGATLA - BEAT

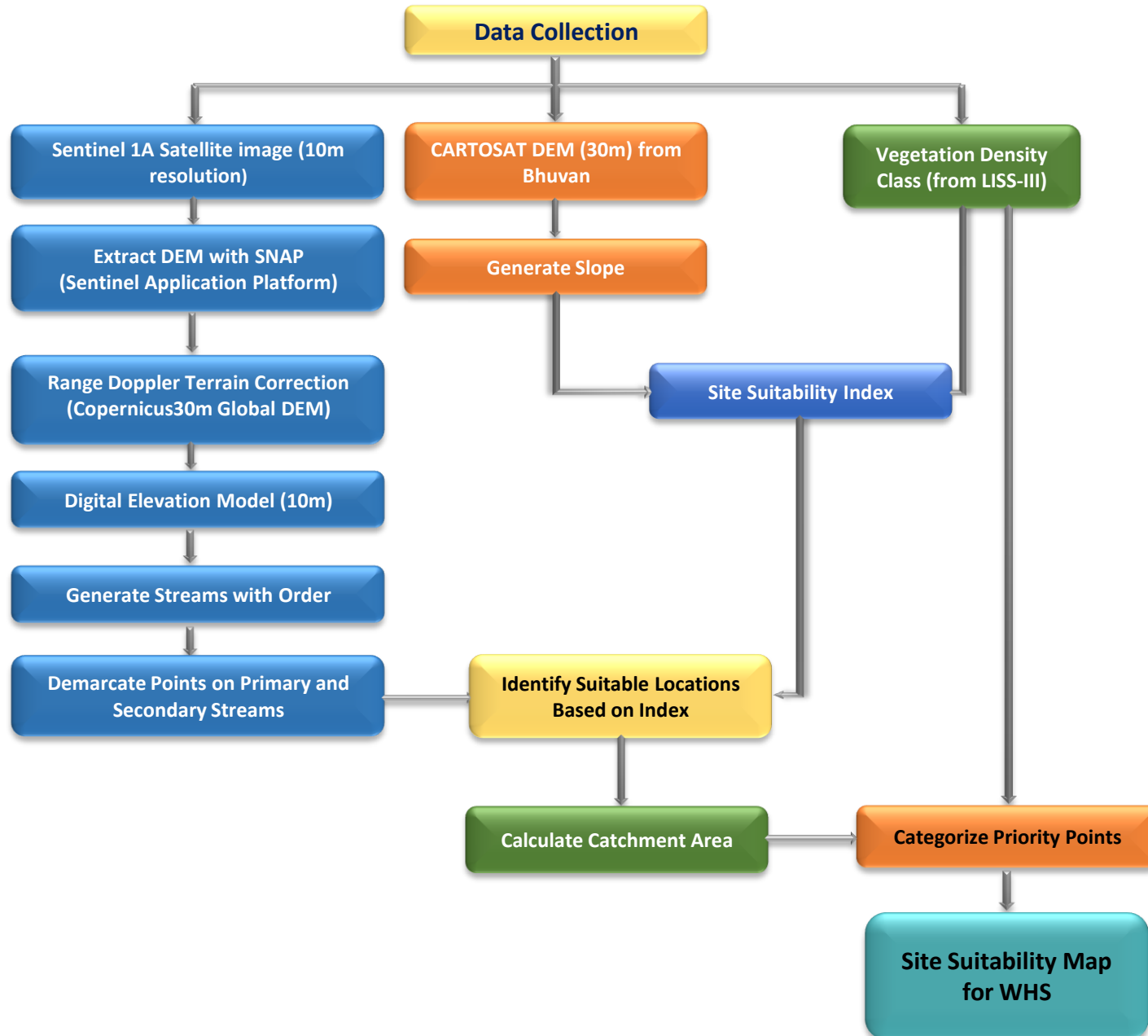
METHODOLOGY

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.



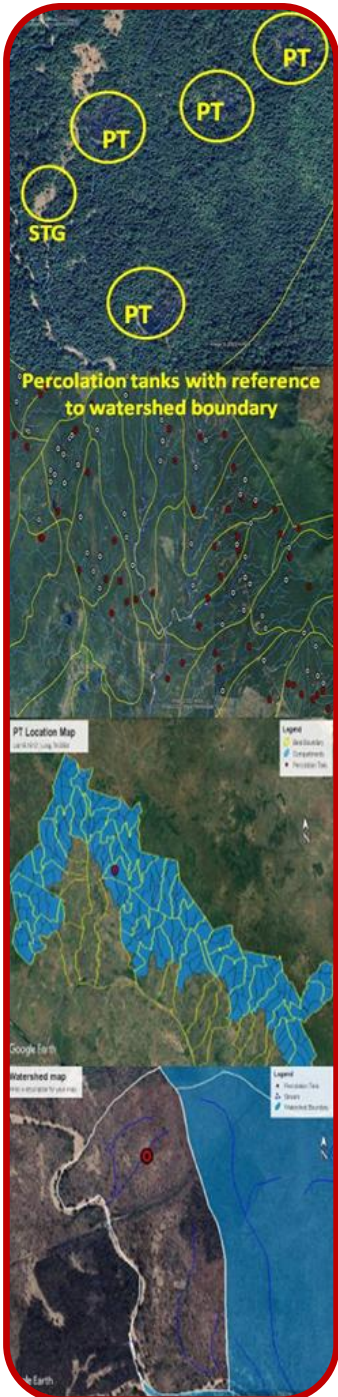
Suitability criteria for Check-Dams and Percolation Tanks (SITE SUITABILITY INDEX)

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





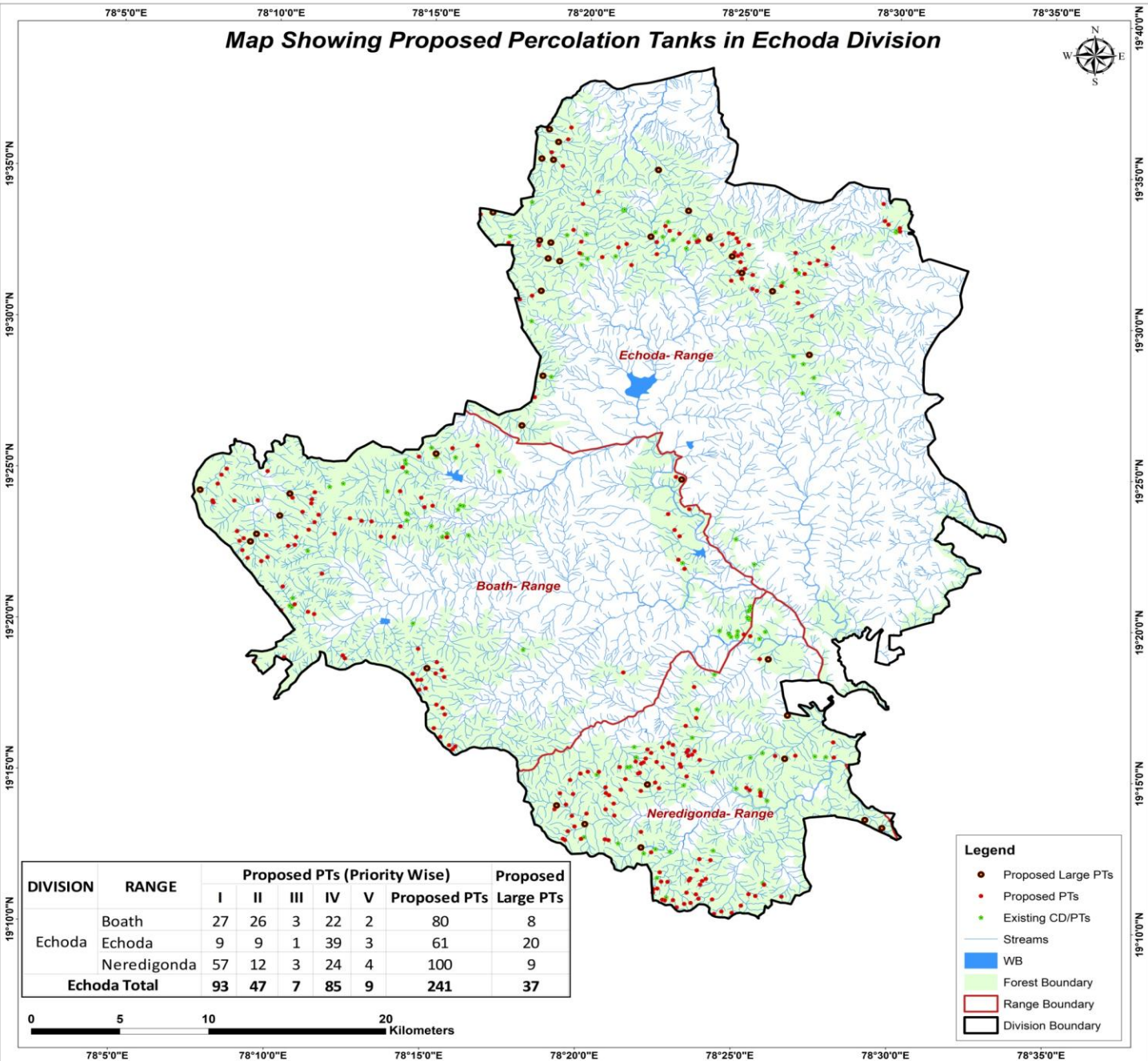
PRIORITY CLASSES FOR PERCOLATION TANK

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 Echoda Division

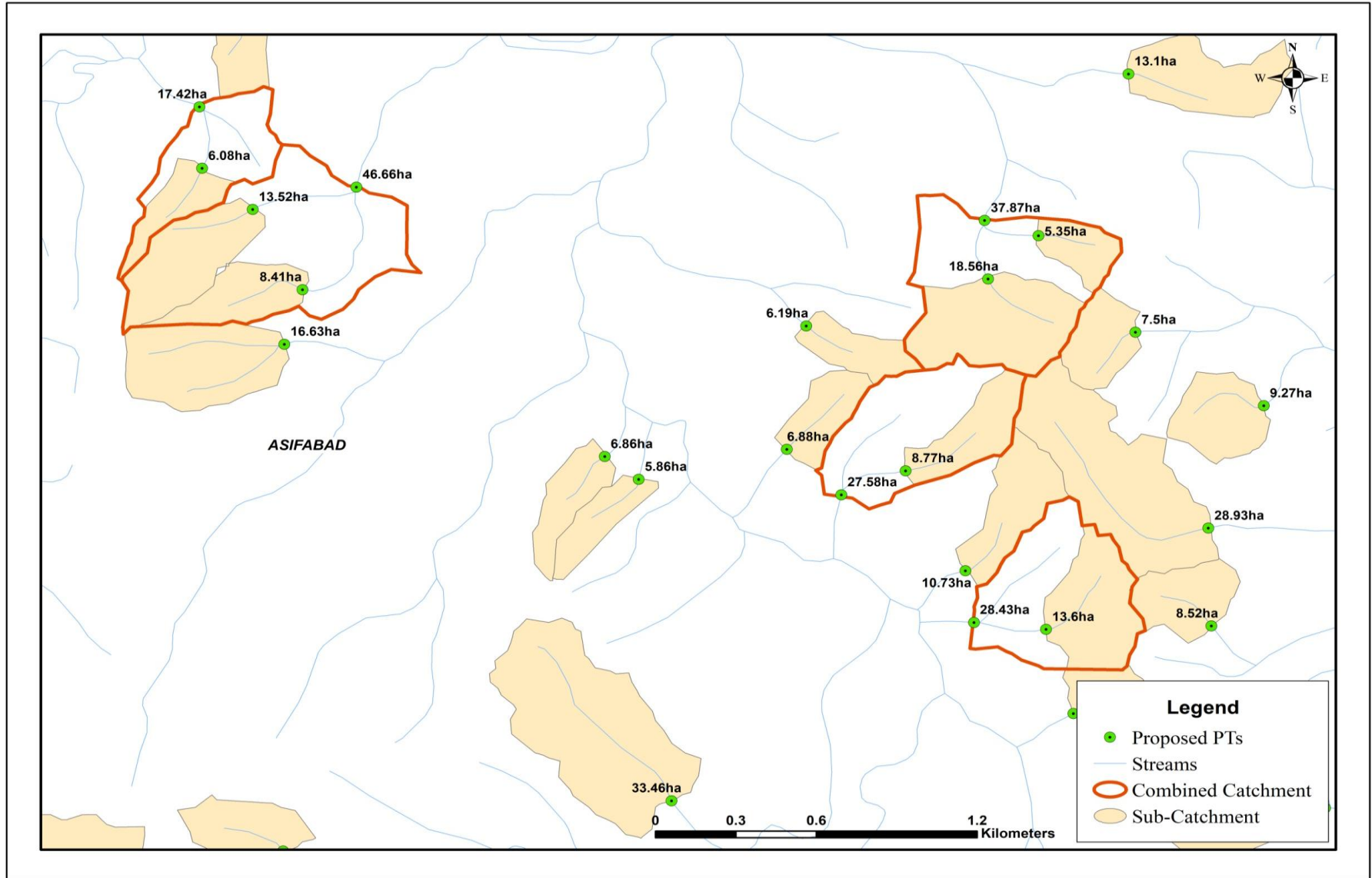


DIVISION	RANGE	Proposed PTs (Priority Wise)					Proposed PTs	Proposed Large PTs
		I	II	III	IV	V		
Echoda	Boath	27	26	3	22	2	80	8
	Echoda	9	9	1	39	3	61	20
	Neredigonda	57	12	3	24	4	100	9
Echoda Total		93	47	7	85	9	241	37

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



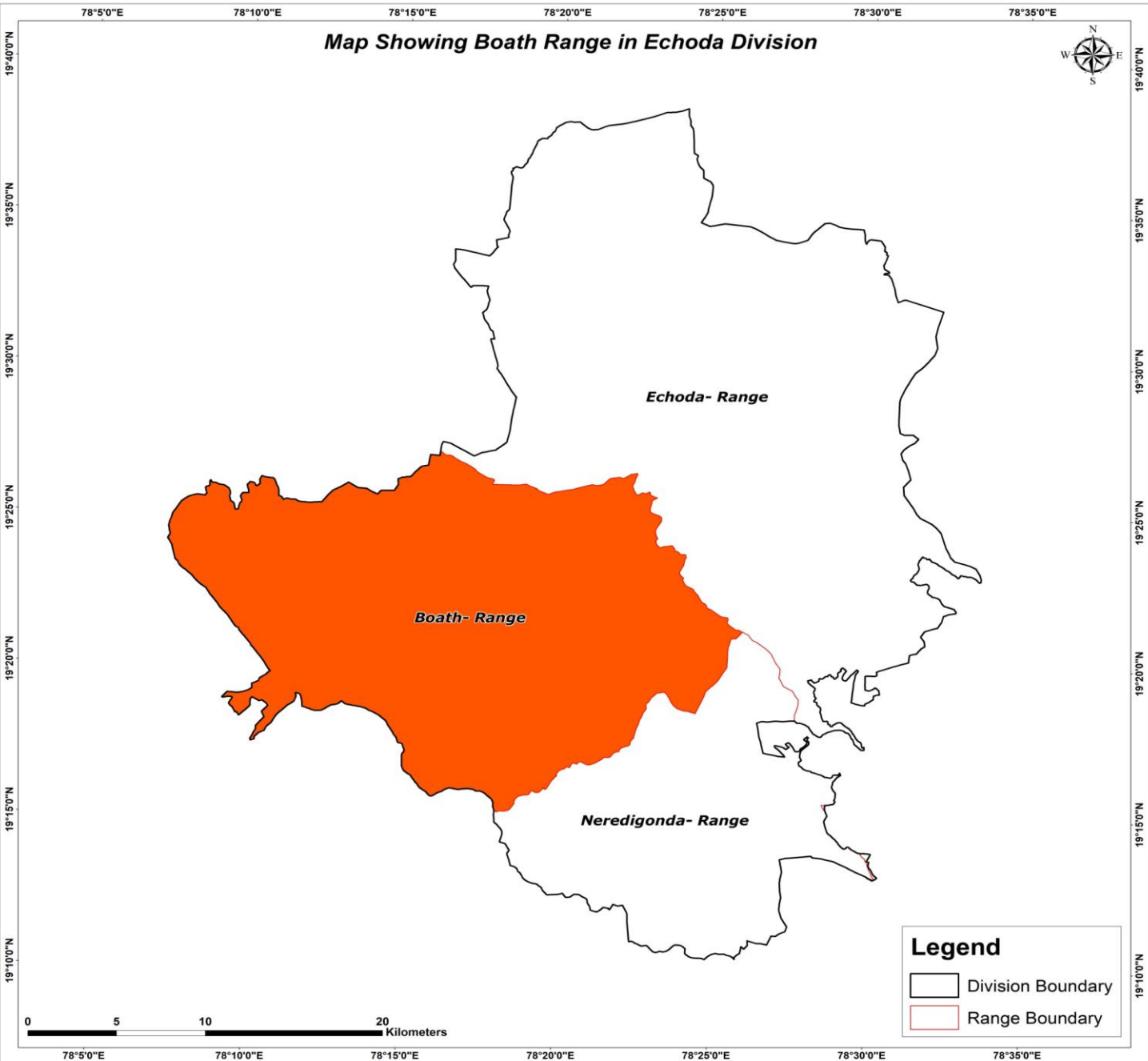
CATCHMENT AREA



Sample Catchment Map



Map Showing Boath Range in Echoda Division



19°40'0"N
19°35'0"N
19°30'0"N
19°25'0"N
19°20'0"N
19°15'0"N
19°10'0"N

78°5'0"E 78°10'0"E 78°15'0"E 78°20'0"E 78°25'0"E 78°30'0"E 78°35'0"E

19°40'0"N
19°35'0"N
19°30'0"N
19°25'0"N
19°20'0"N
19°15'0"N
19°10'0"N

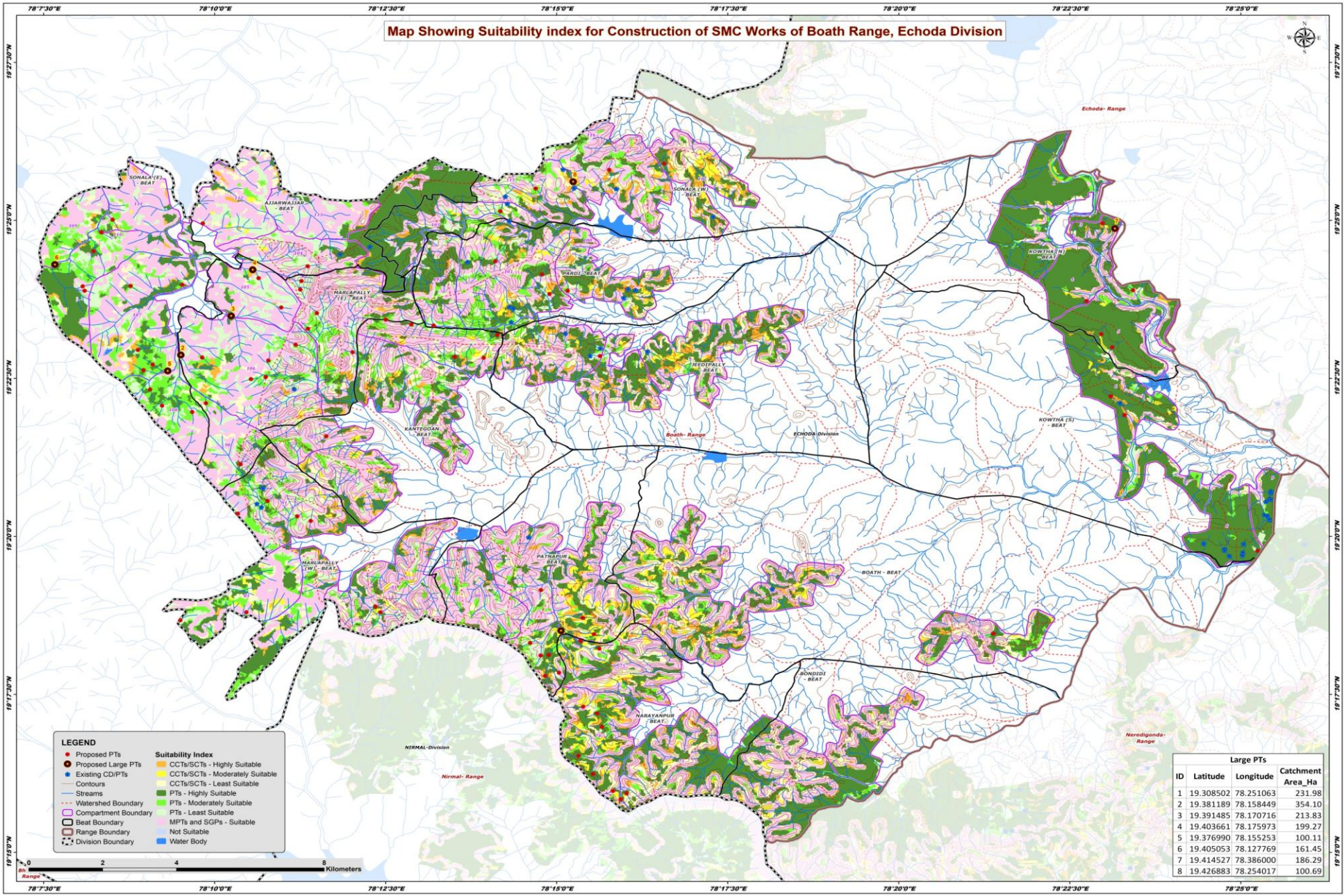
0 5 10 20 Kilometers

78°5'0"E 78°10'0"E 78°15'0"E 78°20'0"E 78°25'0"E 78°30'0"E 78°35'0"E

Legend

- Division Boundary
- Range Boundary

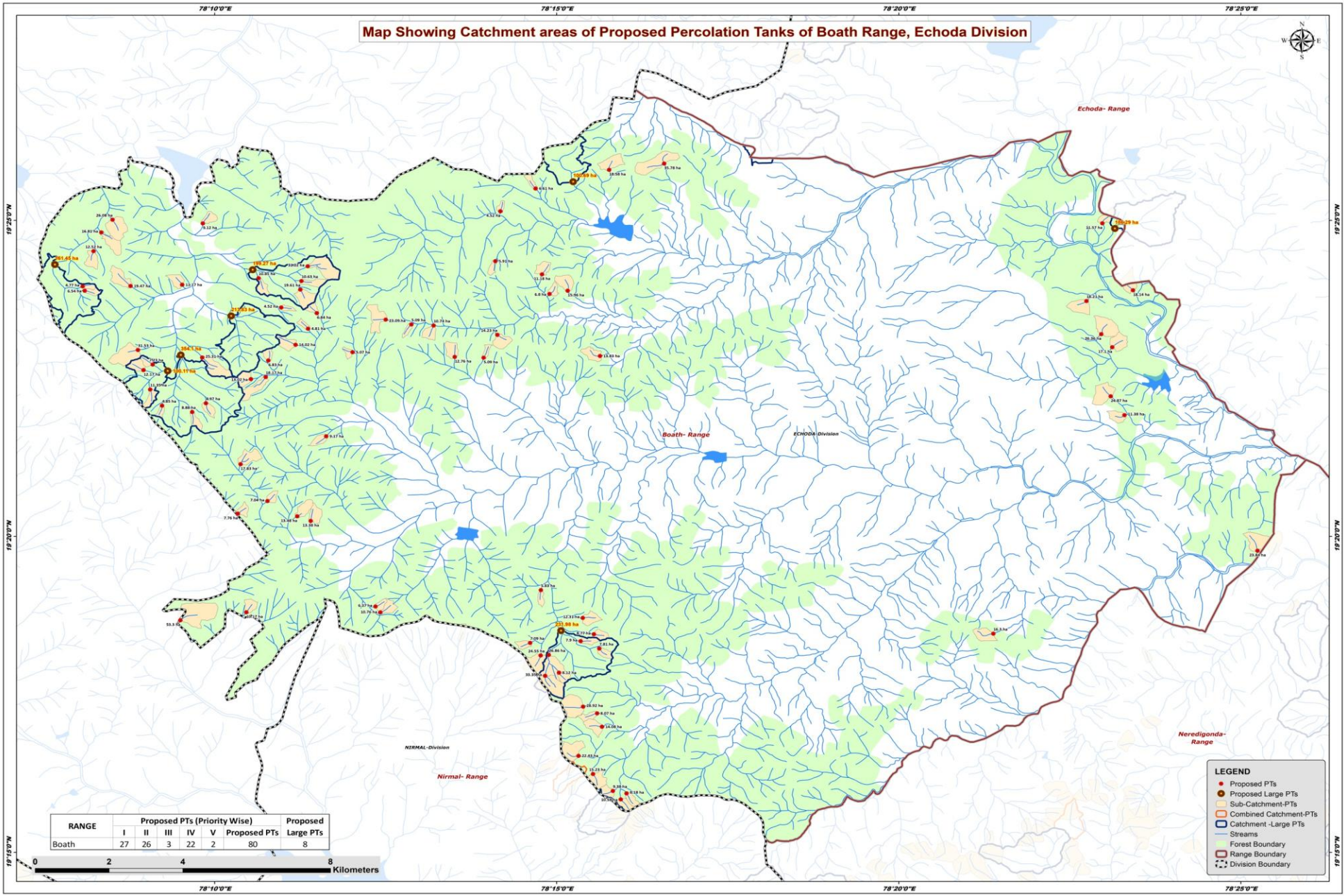
Map Showing Suitability index for Construction of SMC Works of Boath Range, Echoda Division



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

Large PTs			
ID	Latitude	Longitude	Catchment Area_Ha
1	19.308502	78.251063	231.98
2	19.381189	78.158449	354.10
3	19.391485	78.170716	213.83
4	19.403661	78.175973	199.27
5	19.376990	78.155253	100.11
6	19.405053	78.127769	161.45
7	19.414527	78.386000	186.29
8	19.426883	78.254017	100.69

Map Showing Catchment areas of Proposed Percolation Tanks of Boath Range, Echoda Division



RANGE	Proposed PTs (Priority Wise)					Proposed Large PTs
	I	II	III	IV	V	
Boath	27	26	3	22	2	80
						8

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

0 2 4 8 Kilometers

Beat wise Abstract of Proposed PT's – Boath Range

S. No.	Beat	Proposed PT's
1	AJJARWAJJAR	2
2	BOATH	1
3	JEEDIPALLY	1
4	KANTEGOAN	6
5	KOWTHA N	5
6	KOWTHA S	3
7	MARLAPALLY E	14
8	MARLAPALLY W	8
9	NARAYANPUR	10
10	PARDI	5
11	PATNAPUR	8
12	SONALA E	13
13	SONALA W	4
	Total	80

List of Proposed PTs – Boath Range

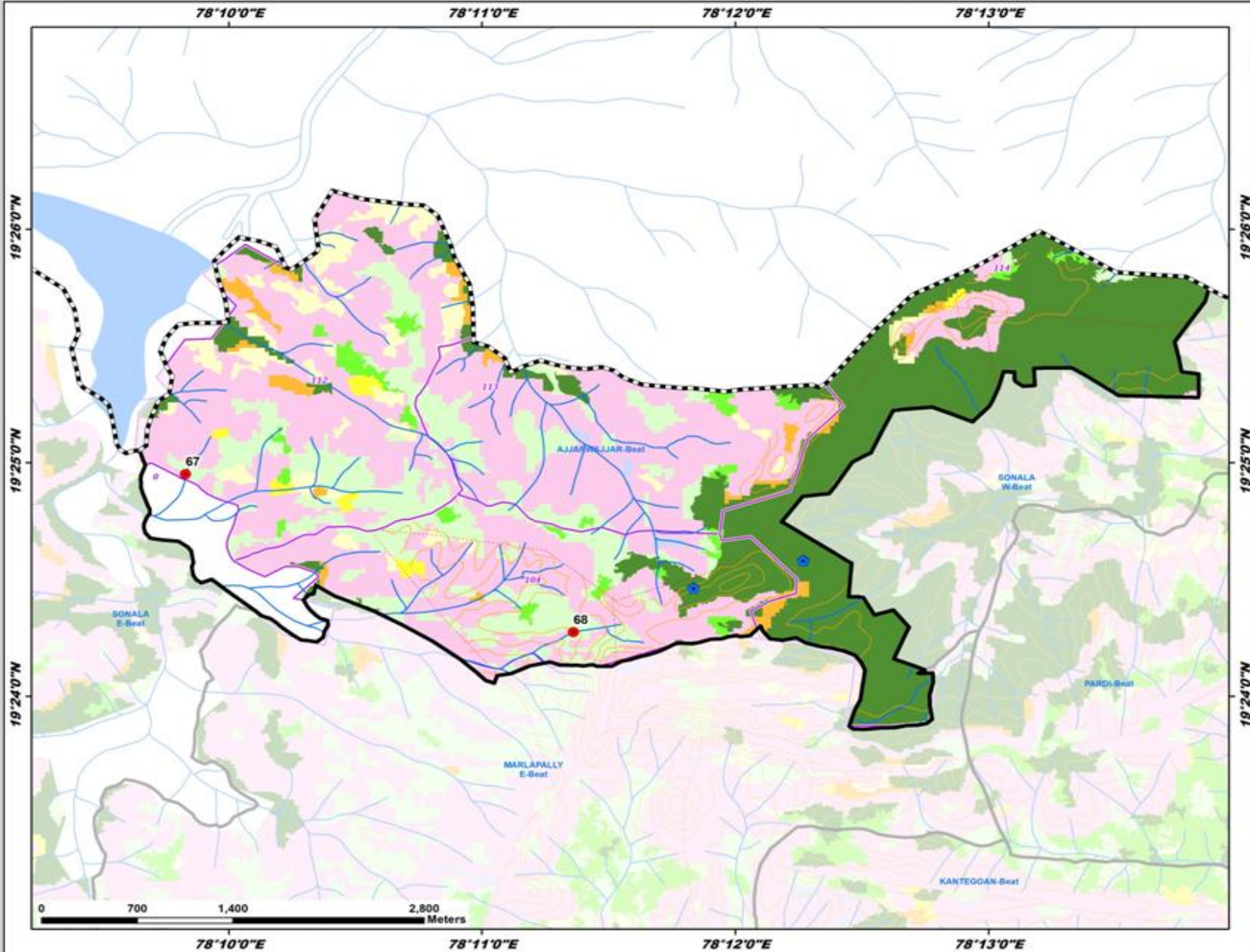
ID	Latitude	Longitude	Catchment Area_Ha	Priority	Beat
1	19.307690	78.356391	16.30	I	BOATH
2	19.305705	78.255841	7.90	I	NARAYANPUR
3	19.303775	78.260401	7.81	I	NARAYANPUR
4	19.266213	78.263702	9.38	I	NARAYANPUR
5	19.270696	78.258871	15.23	I	NARAYANPUR
6	19.263986	78.265636	10.58	I	NARAYANPUR
7	19.283144	78.261063	14.08	I	NARAYANPUR
8	19.286681	78.259866	8.07	I	NARAYANPUR
9	19.265573	78.267034	8.18	I	NARAYANPUR
10	19.275486	78.255344	22.43	II	NARAYANPUR
11	19.288441	78.256466	28.92	II	NARAYANPUR
12	19.301946	78.246112	24.55	I	PATNAPUR
13	19.297390	78.250575	8.12	I	PATNAPUR
14	19.307531	78.259082	8.77	I	PATNAPUR
15	19.311853	78.256382	12.31	I	PATNAPUR
16	19.302079	78.248095	26.86	II	PATNAPUR
17	19.296590	78.247209	33.35	II	PATNAPUR
18	19.319175	78.246184	5.83	II	PATNAPUR
19	19.305273	78.243539	7.09	IV	PATNAPUR
20	19.380915	78.260569	13.83	IV	JEEDIPALLY
21	19.402444	78.246436	11.18	I	PARDI
22	19.405921	78.235079	5.91	II	PARDI
23	19.398123	78.252681	15.96	II	PARDI
24	19.388957	78.220023	10.74	IV	PARDI
25	19.397261	78.248265	6.80	IV	PARDI
26	19.386483	78.235583	14.23	I	KANTEGOAN
27	19.380662	78.225178	12.76	I	KANTEGOAN
28	19.389243	78.214617	5.09	II	KANTEGOAN
29	19.390498	78.208364	23.09	II	KANTEGOAN
30	19.380447	78.232230	5.09	II	KANTEGOAN
31	19.359743	78.193869	9.17	IV	KANTEGOAN
32	19.388106	78.189452	4.81	II	MARLAPALLY E
33	19.368459	78.164571	8.97	II	MARLAPALLY E
34	19.375360	78.179135	18.17	II	MARLAPALLY E
35	19.380517	78.163675	25.31	III	MARLAPALLY E
36	19.400682	78.187856	10.63	IV	MARLAPALLY E
37	19.379740	78.179785	6.83	IV	MARLAPALLY E
38	19.352386	78.173002	17.83	IV	MARLAPALLY E
39	19.374812	78.175542	13.02	IV	MARLAPALLY E
40	19.381916	78.200304	5.07	IV	MARLAPALLY E

ID	Latitude	Longitude	Catchment Area_Ha	Priority	Beat
41	19.383884	78.186420	14.02	IV	MARLAPALLY E
42	19.401447	78.177410	10.85	IV	MARLAPALLY E
43	19.392221	78.191594	6.84	IV	MARLAPALLY E
44	19.393719	78.182910	4.52	IV	MARLAPALLY E
45	19.398441	78.187575	19.61	IV	MARLAPALLY E
46	19.342650	78.179573	7.04	I	MARLAPALLY W
47	19.314842	78.205871	6.37	I	MARLAPALLY W
48	19.313313	78.207053	10.76	II	MARLAPALLY W
49	19.338641	78.186823	13.48	II	MARLAPALLY W
50	19.337433	78.190105	13.38	IV	MARLAPALLY W
51	19.339335	78.172341	7.76	IV	MARLAPALLY W
52	19.313339	78.174411	10.17	IV	MARLAPALLY W
53	19.311238	78.158330	53.30	V	MARLAPALLY W
54	19.413502	78.139080	16.81	I	SONALA E
55	19.408558	78.137187	12.52	I	SONALA E
56	19.366136	78.161238	8.88	II	SONALA E
57	19.399702	78.158784	11.17	II	SONALA E
58	19.372087	78.151003	11.35	II	SONALA E
59	19.399371	78.146217	19.47	II	SONALA E
60	19.378663	78.151610	7.23	II	SONALA E
61	19.377202	78.149382	12.17	II	SONALA E
62	19.382511	78.148009	31.53	III	SONALA E
63	19.416850	78.141830	26.08	III	SONALA E
64	19.367812	78.153885	4.85	IV	SONALA E
65	19.398123	78.135045	6.54	IV	SONALA E
66	19.399282	78.134544	4.77	IV	SONALA E
67	19.415871	78.163825	9.12	IV	AJJARWAJJAR
68	19.404585	78.189356	31.02	V	AJJARWAJJAR
69	19.383227	78.385368	17.10	I	KOWTHA N
70	19.395424	78.379091	18.21	I	KOWTHA N
71	19.415921	78.382958	11.57	I	KOWTHA N
72	19.386676	78.382679	26.36	II	KOWTHA N
73	19.398244	78.390412	18.14	II	KOWTHA N
74	19.365329	78.388342	11.38	I	KOWTHA S
75	19.329566	78.420742	23.84	I	KOWTHA S
76	19.370288	78.384998	24.87	I	KOWTHA S
77	19.430014	78.262807	18.58	I	SONALA W
78	19.425092	78.244892	6.61	II	SONALA W
79	19.431658	78.276187	35.78	II	SONALA W
80	19.419073	78.236295	4.52	II	SONALA W

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



Division : Echoda
Range : Boath



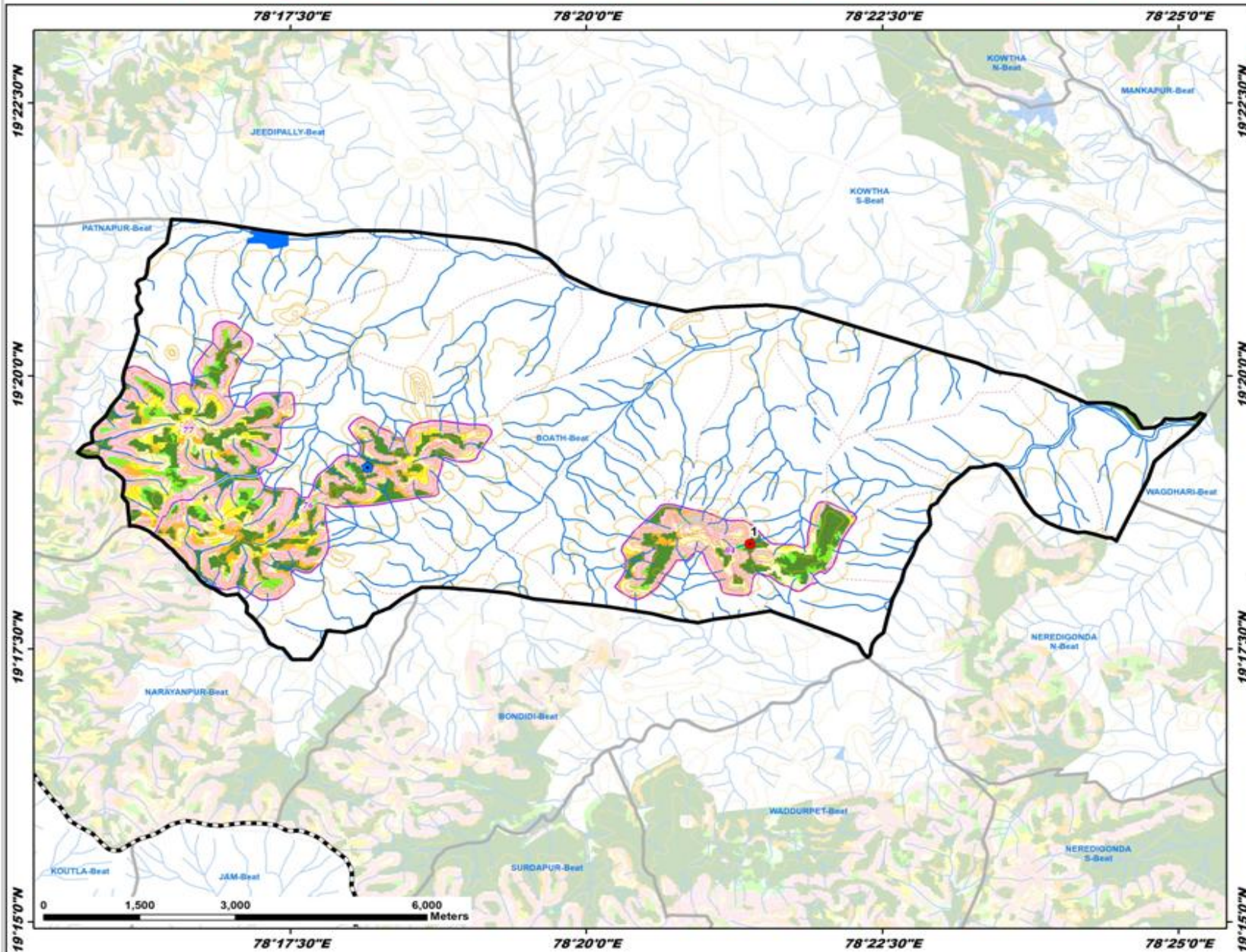
ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
67	19.415871	78.163825	9.12	IV
68	19.404585	78.189356	31.02	V

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

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



Division : Echoda
Range : Boath



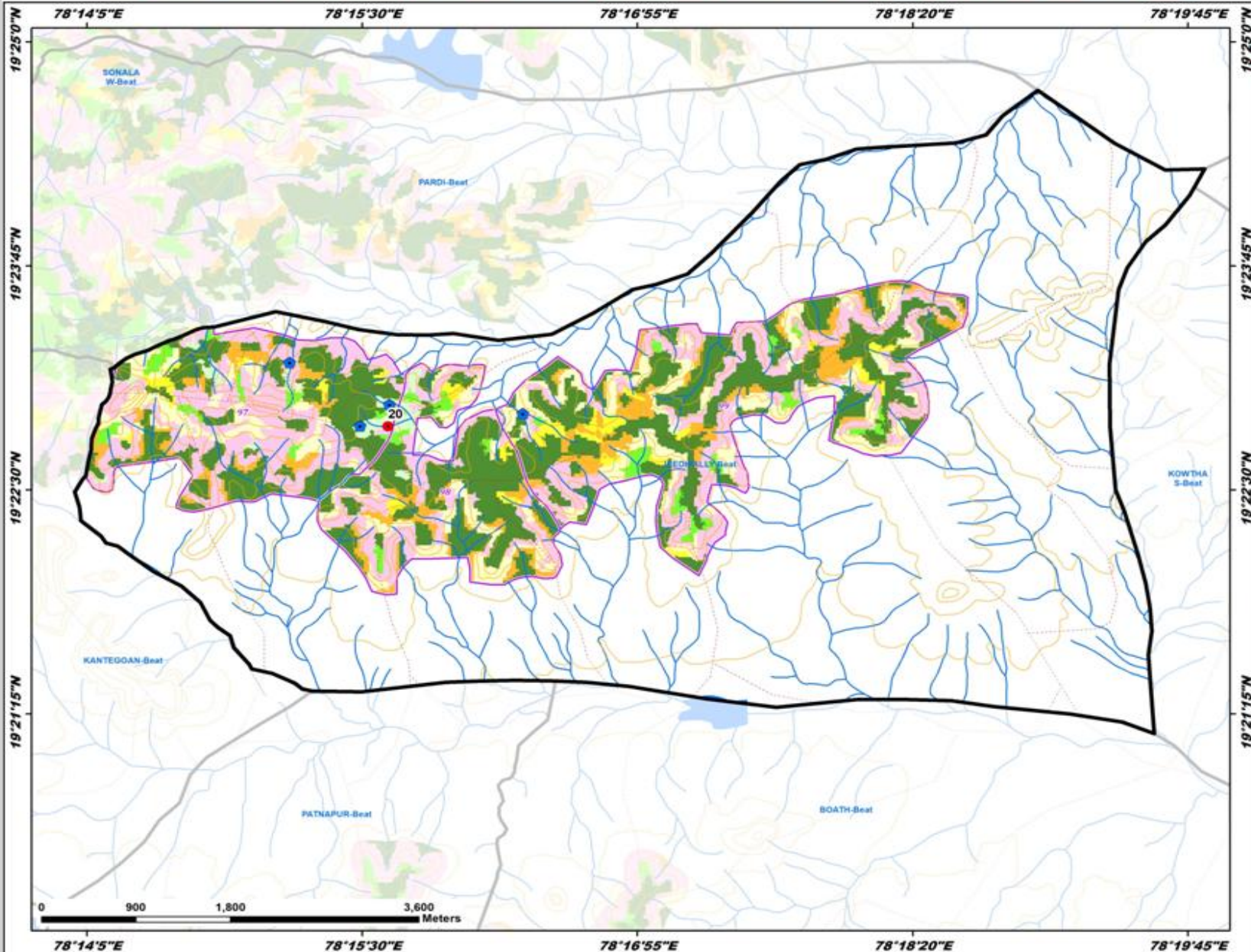
ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
1	19.307690	78.356391	16.30	1

- LEGEND**
- Proposed PTs
 - Existing CD/PTs
 - Contours
 - Streams
 - Watershed Boundary
 - Compartment Boundary
 - ▭ Beat Boundary
 - ▭ Division Boundary
 - Suitability Index**
 - CCTs/SCTs - Highly Suitable
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 - 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 Jeedipally Beat



Division : Echoda
Range : Boath



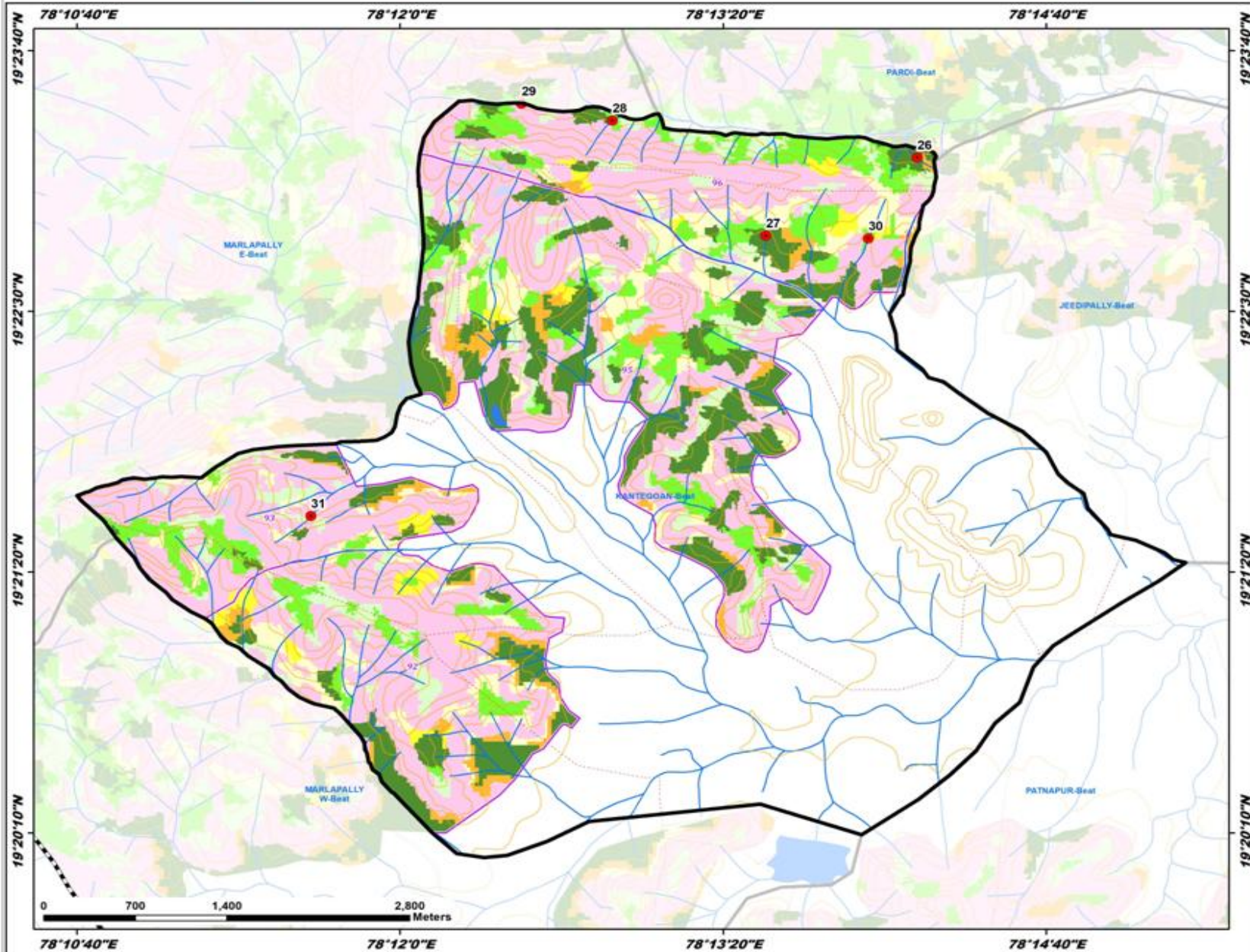
ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
20	19.380915	78.260569	13.83	IV

- LEGEND**
- Proposed PTs
 - Existing CD/PTs
 - Contours
 - Streams
 - Watershed Boundary
 - Compartment Boundary
 - Beat Boundary
 - Division Boundary
 - Suitability Index**
 - CCTs/SCTs - Highly Suitable
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 - 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 Kantegoan Beat



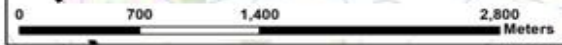
Division : Echoda
Range : Boath



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
26	19.386483	78.235583	14.23	I
27	19.380662	78.225178	12.76	I
28	19.389243	78.214617	5.09	II
29	19.390498	78.208364	23.09	II
30	19.380447	78.232230	5.09	II
31	19.359743	78.193869	9.17	IV

LEGEND

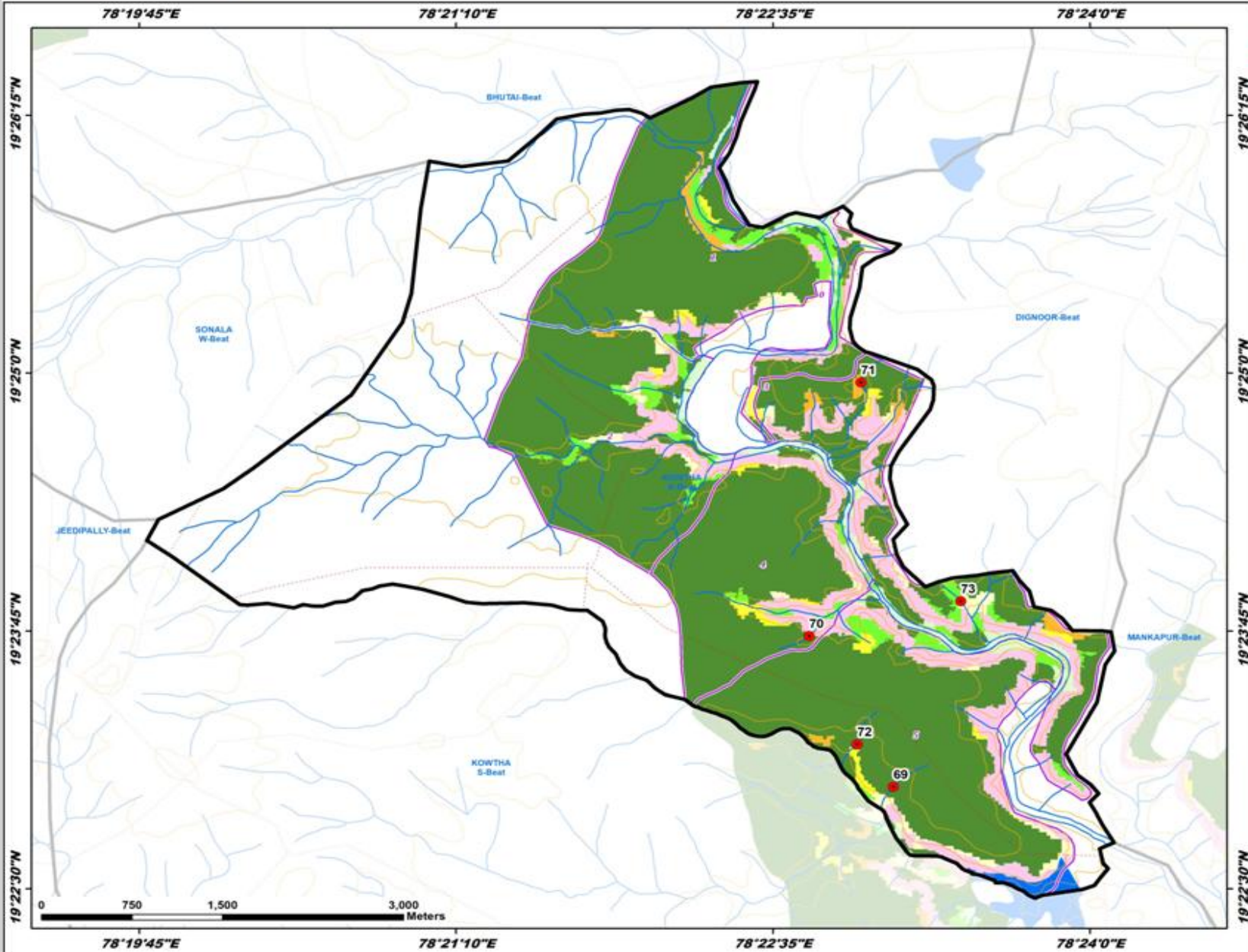
- Proposed PTs
- Existing CD/PTs
- Contours
- Streams
- Watershed Boundary
- Compartment Boundary
- ▭ Beat Boundary
- ▭ Division Boundary
- Suitability Index**
- CCTs/SCTs - Highly Suitable
- CCTs/SCTs - Moderately Suitable
- CCTs/SCTs - Least Suitable
- PTs - Highly Suitable
- PTs - Moderately Suitable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



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



Division : Echoda
Range : Boath



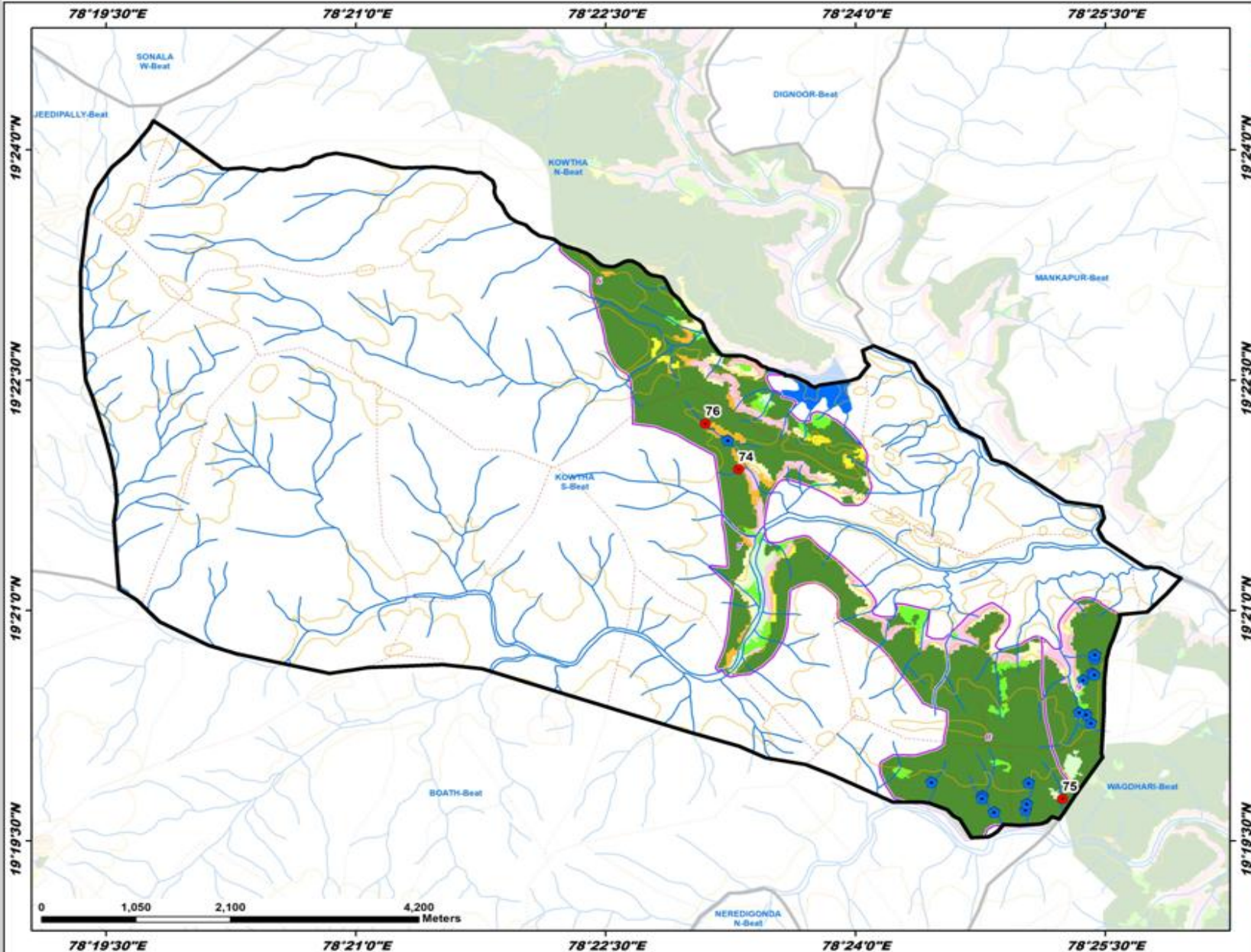
ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
69	19.383227	78.385368	17.10	I
70	19.395424	78.379091	18.21	I
71	19.415921	78.382958	11.57	I
72	19.396676	78.382679	26.36	II
73	19.398244	78.390412	18.14	II

- 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 Kowtha South Beat



Division : Echoda
Range : Boath



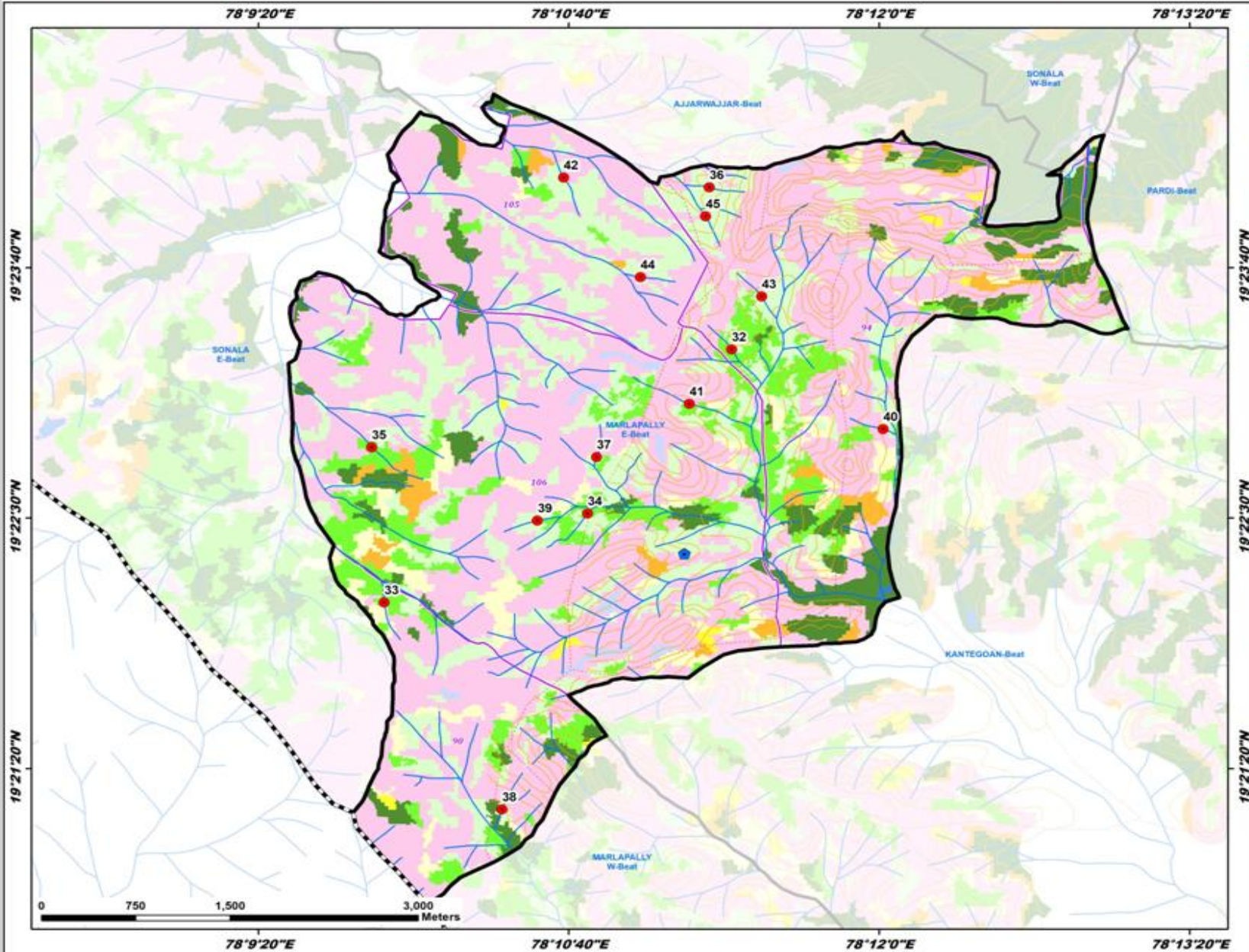
ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
74	19.365329	78.388342	11.58	I
75	19.329566	78.420742	23.84	I
76	19.370288	78.384998	24.87	I

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

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



Division : Echoda
Range : Boath



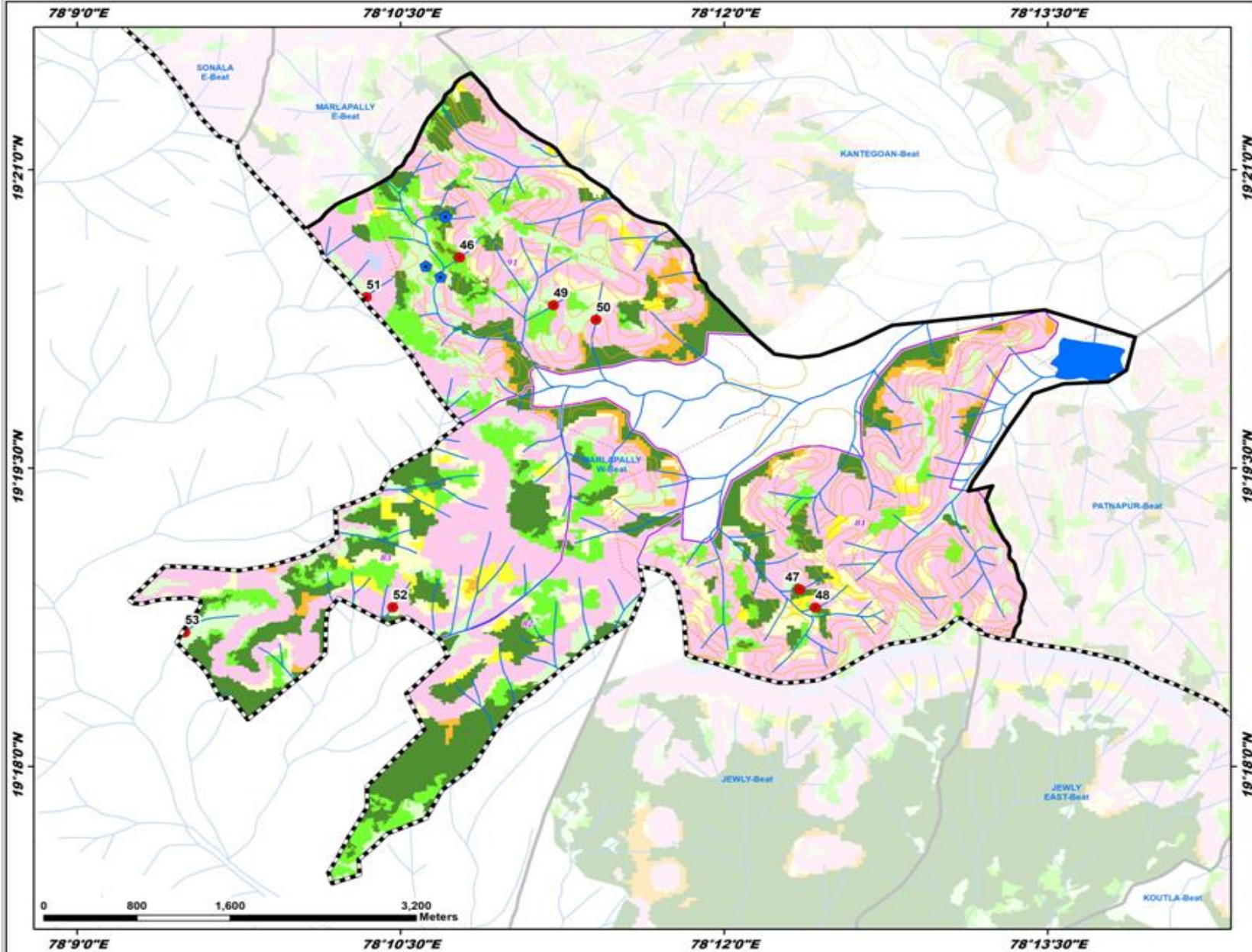
ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
32	19.388506	78.189452	4.81	II
33	19.368459	78.164571	8.97	II
34	19.375360	78.179135	18.17	II
35	19.380517	78.163675	25.31	III
36	19.400682	78.187856	10.63	IV
37	19.379740	78.179785	6.83	IV
38	19.352386	78.173002	17.83	IV
39	19.374812	78.175542	13.02	IV
40	19.381916	78.200304	5.07	IV
41	19.383884	78.186420	14.02	IV
42	19.401447	78.177410	10.85	IV
43	19.392221	78.191594	6.84	IV
44	19.393729	78.182910	4.52	IV
45	19.398441	78.187575	19.61	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
 - 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 Marlapally West Beat



Division : Echoda
Range : Boath



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
46	19.342650	78.179579	7.04	I
47	19.314842	78.205871	6.37	I
48	19.313313	78.207053	10.76	II
49	19.338641	78.186823	13.48	II
50	19.337433	78.190105	13.38	IV
51	19.339335	78.172341	7.76	IV
52	19.313399	78.174411	10.17	IV
53	19.311238	78.158330	53.30	V

LEGEND

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

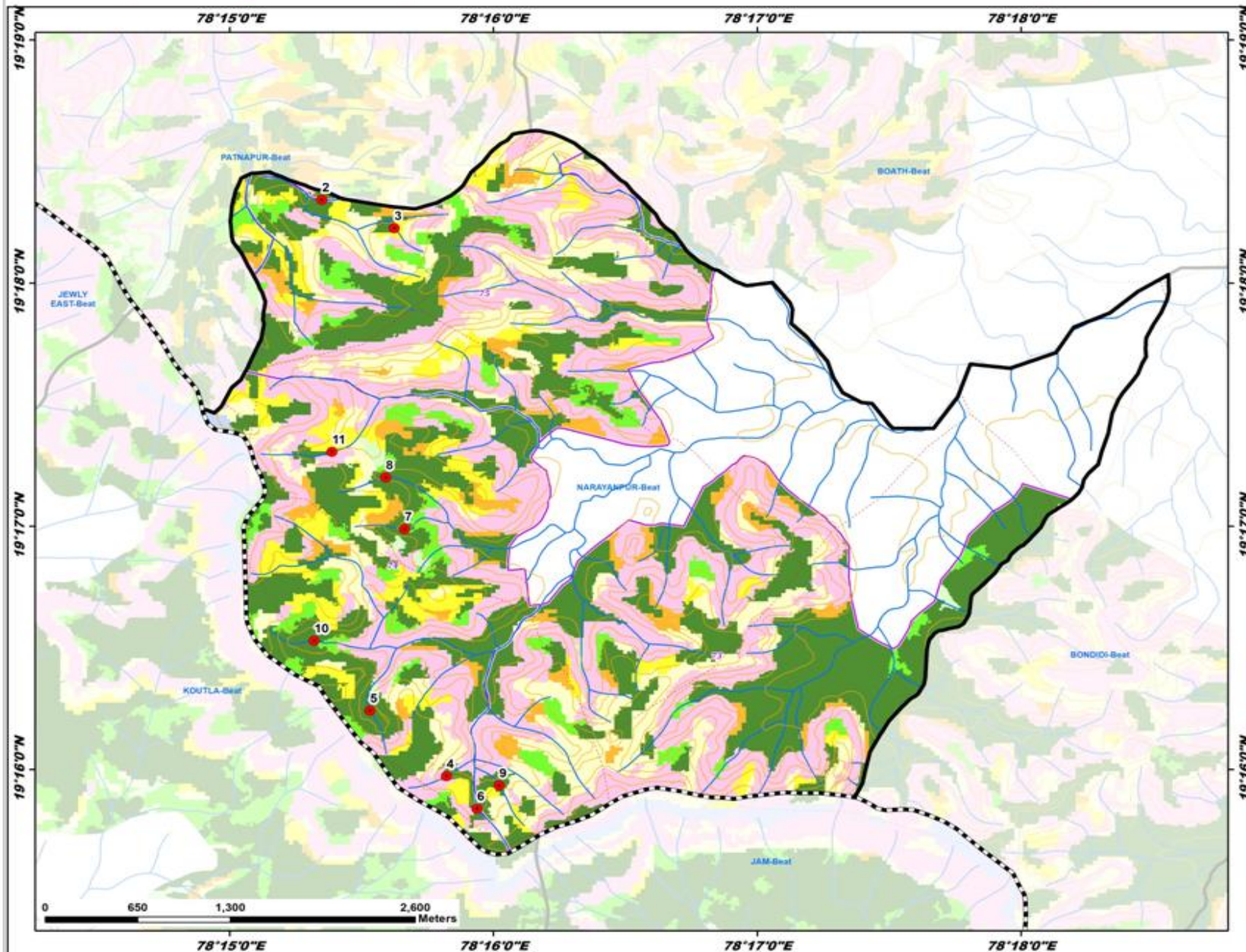
Suitability Index

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

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



Division : Echoda
Range : Boath & Neredigonda



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
2	19.305705	78.255841	7.90	I
3	19.303775	78.260401	7.81	I
4	19.266213	78.263702	9.38	I
5	19.270696	78.258871	15.23	I
6	19.263986	78.265636	10.58	I
7	19.283144	78.261063	14.08	I
8	19.286681	78.259866	8.07	I
9	19.265573	78.267034	8.18	I
10	19.275486	78.255344	22.43	II
11	19.288441	78.256466	28.92	II

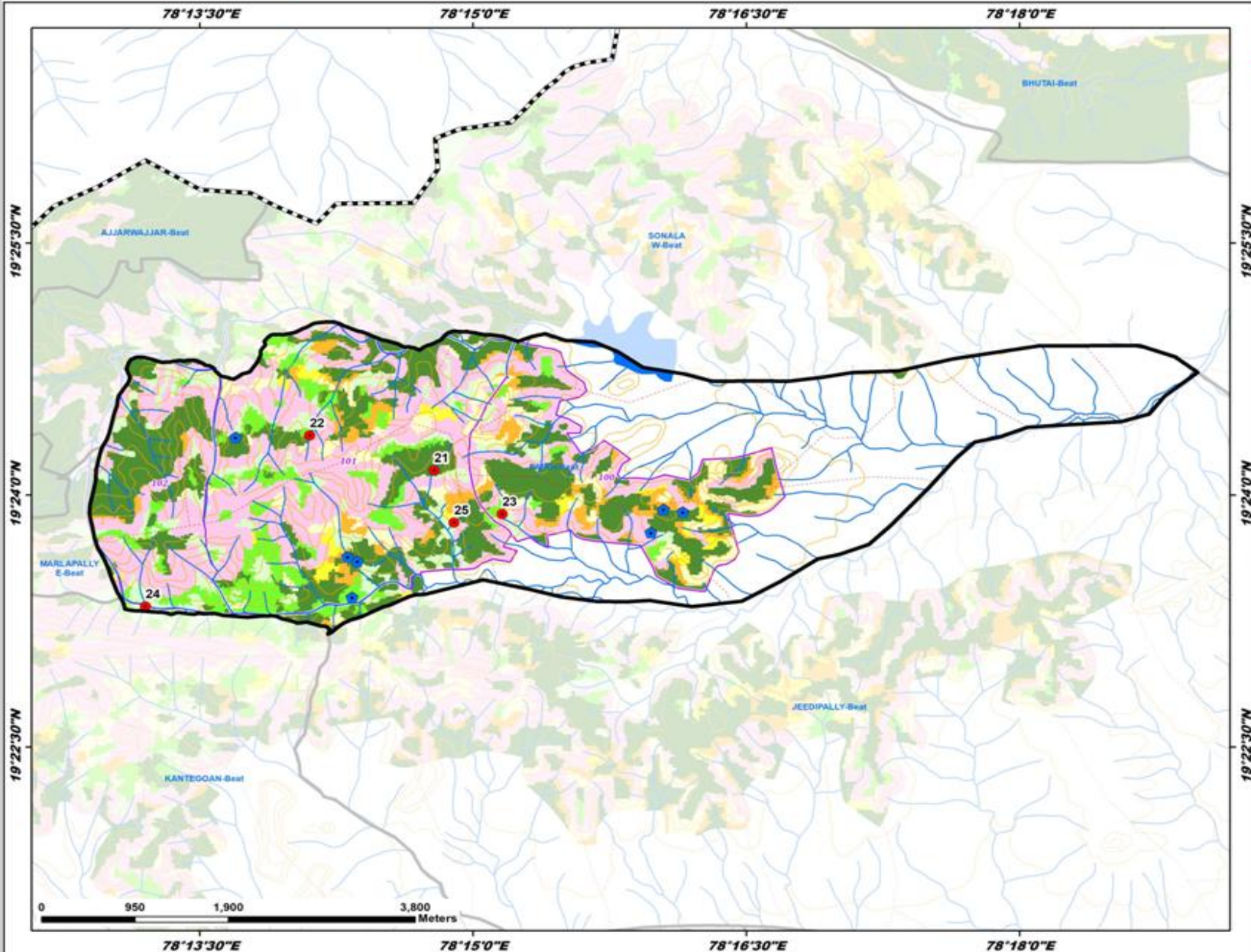
LEGEND

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

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



Division : Echoda
Range : Boath



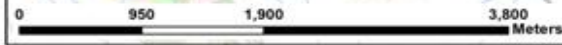
ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
21	19.402444	78.246436	11.18	I
22	19.405921	78.235079	5.91	II
23	19.398128	78.252681	15.96	II
24	19.389957	78.220023	10.74	IV
25	19.397261	78.248265	6.80	IV

LEGEND

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

Suitability Index

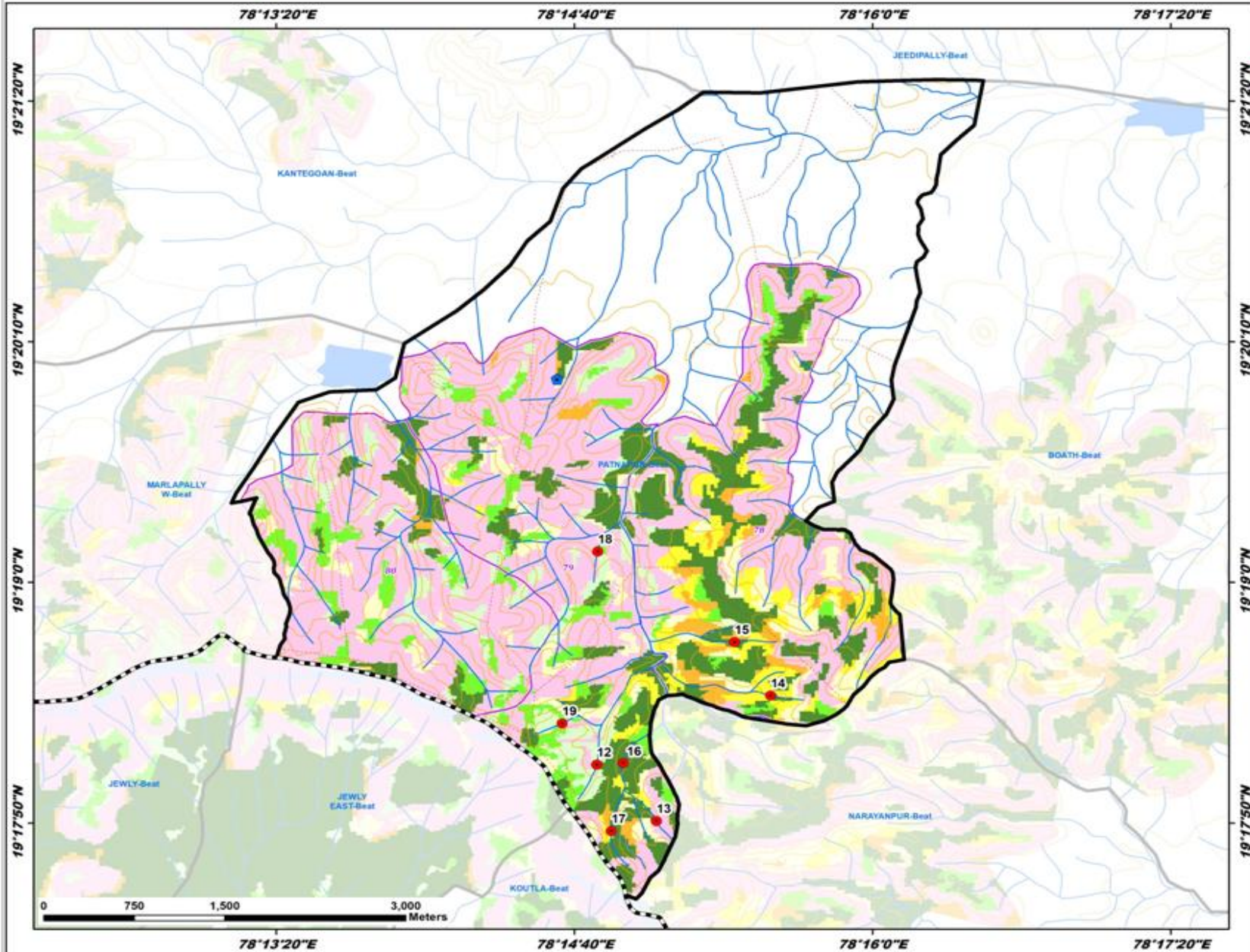
- CCTs/SCTs - Highly Suitable
- CCTs/SCTs - Moderately Suitable
- CCTs/SCTs - Least Suitable
- PTs - Highly Suitable
- PTs - Moderately Suitable
- PTs - Least Suitable
- MPTs and SGPs - Suitable
- Not Suitable
- Water Body



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



Division : Echoda
Range : Boath



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
12	19.301946	78.246112	24.55	I
13	19.297390	78.250575	8.12	I
14	19.307531	78.259082	8.77	I
15	19.311853	78.256382	12.31	I
16	19.302079	78.248095	26.86	II
17	19.296590	78.247209	33.35	II
18	19.319175	78.246184	5.83	II
19	19.305273	78.243539	7.09	IV

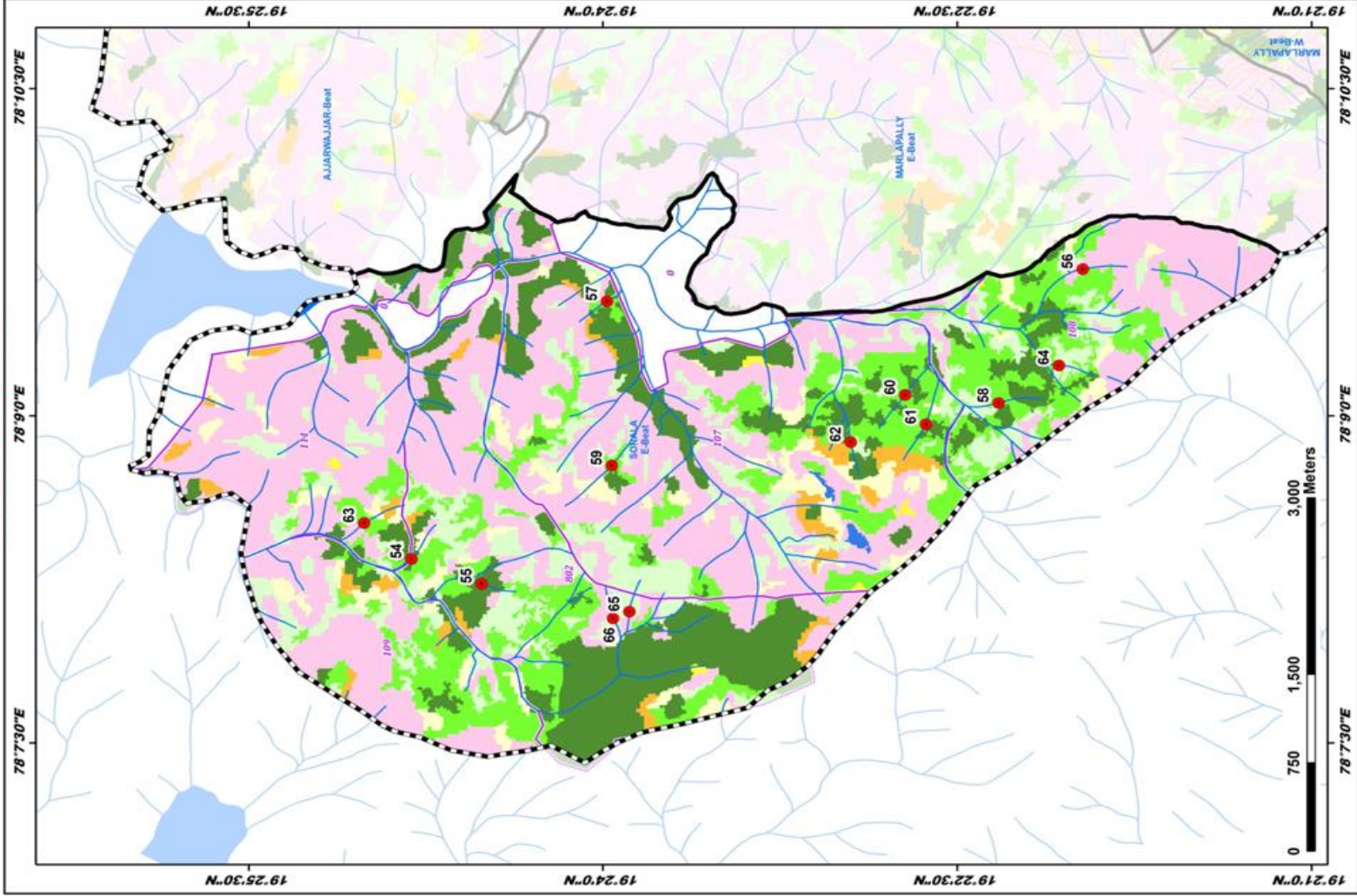
LEGEND

- 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 Sonala East Beat



Division : Echoda
Range : Boath



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
54	19.413502	78.139080	16.61	I
55	19.408558	78.137187	12.52	I
56	19.366136	78.161238	8.88	II
57	19.399702	78.150794	11.17	II
58	19.372087	78.151003	11.95	II
59	19.399371	78.146217	19.47	II
60	19.378663	78.151610	7.23	II
61	19.377202	78.149382	12.17	II
62	19.382511	78.148009	31.33	III
63	19.416850	78.141830	26.08	III
64	19.367812	78.153885	4.85	IV
65	19.398123	78.135045	6.54	IV
66	19.399282	78.134544	4.77	IV

LEGEND

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

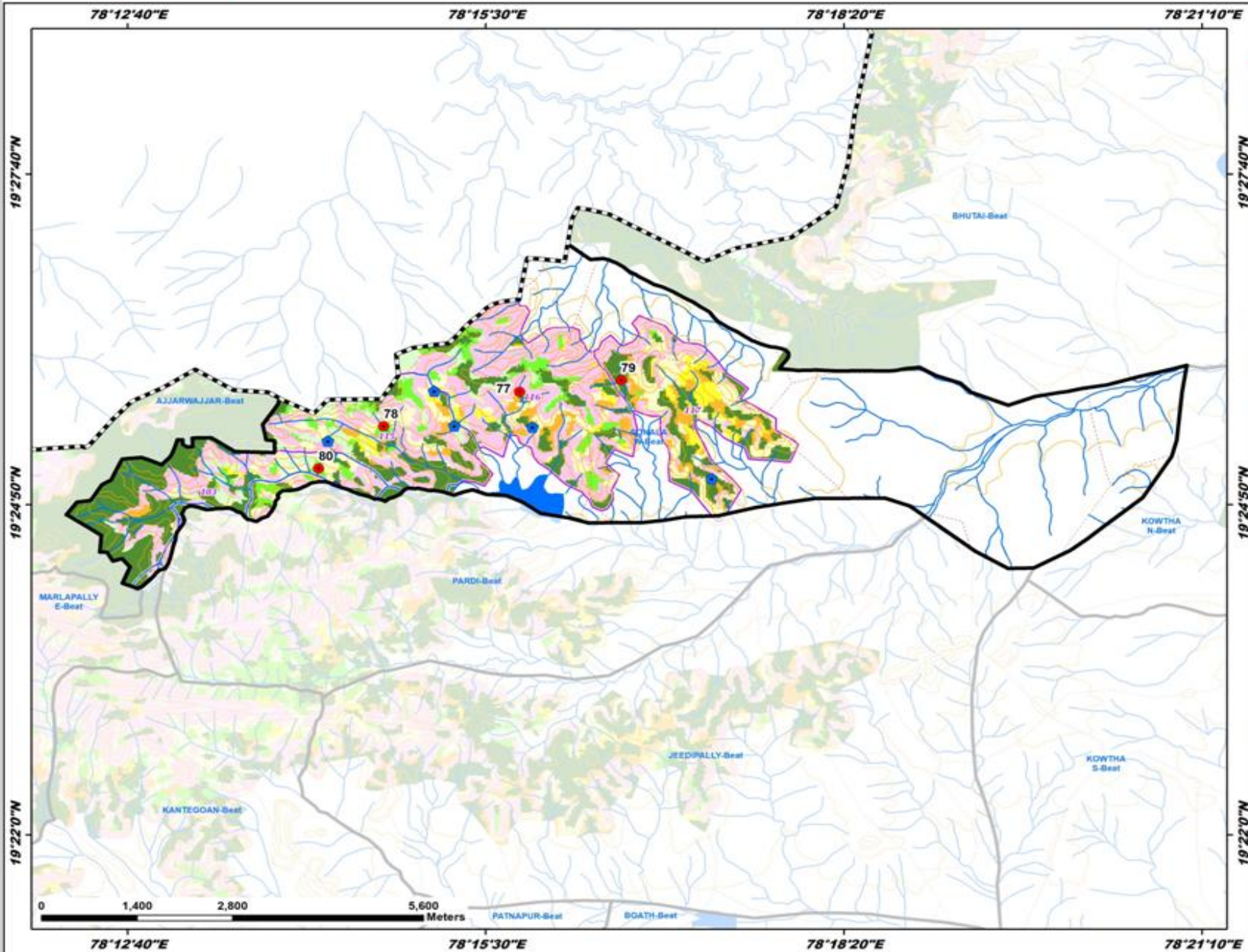
Suitability Index

- 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 Sonala West Beat



Division : Echoda
Range : Boath

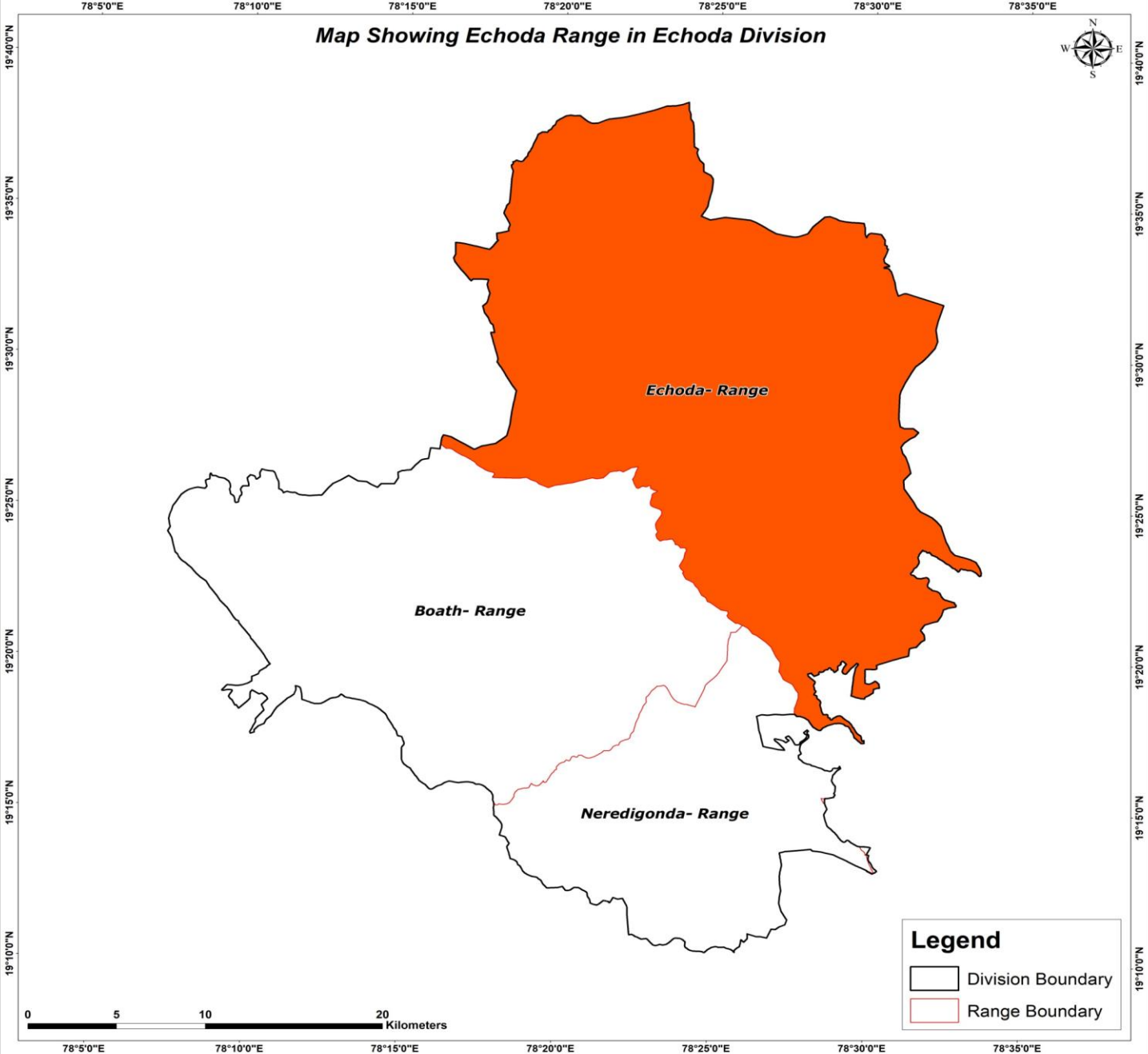


ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
77	19.430054	78.262807	18.58	I
78	19.425092	78.244892	6.61	II
79	19.431658	78.276187	35.78	II
80	19.419073	78.236295	4.52	II

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

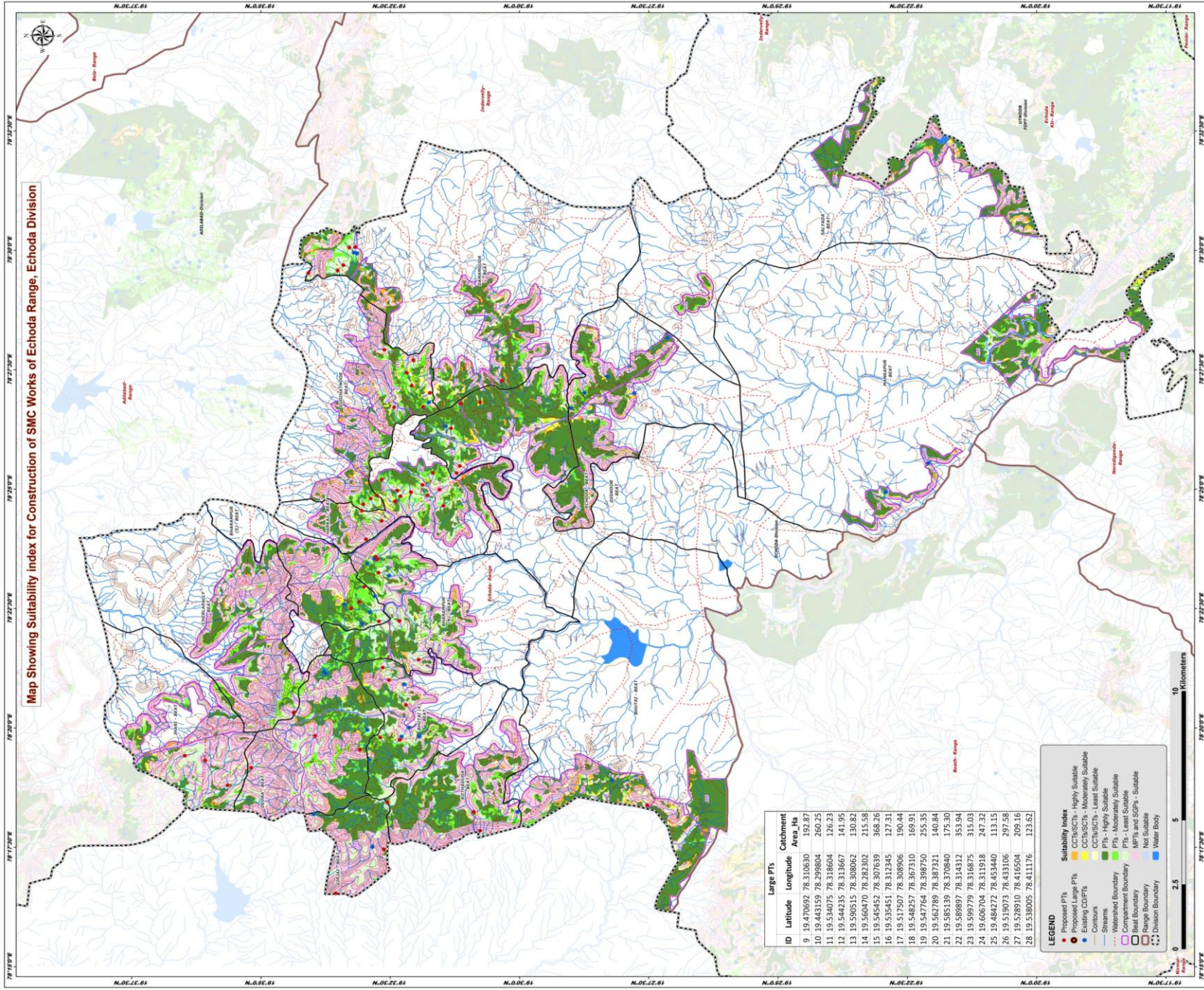
Map Showing Echoda Range in Echoda Division



Legend

- Division Boundary
- Range Boundary

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



ID	Latitude	Longitude	Catchment Area_Ha
9	19.470692	78.310630	197.87
10	19.443159	78.299804	260.25
11	19.534075	78.318604	126.23
12	19.544235	78.313667	141.95
13	19.590215	78.308062	130.82
14	19.560470	78.282302	215.58
15	19.545452	78.307659	368.26
16	19.535451	78.312345	127.31
17	19.517407	78.308906	190.44
18	19.548257	78.367310	169.91
19	19.547764	78.398750	255.35
20	19.562789	78.387321	140.84
21	19.585139	78.370840	175.30
22	19.589897	78.314312	353.94
23	19.599779	78.316875	315.03
24	19.606704	78.311918	247.32
25	19.484272	78.453440	113.15
26	19.519073	78.433106	297.58
27	19.528910	78.416504	209.16
28	19.538005	78.411176	123.62

- LEGEND**
- Proposed Large PTs
 - Existing CDPTs
 - Contours
 - Watershed Boundary
 - Best Boundary
 - Range Boundary
 - Division Boundary
 - Suitability Index
 - CCTB/SCTs - Highly Suitable
 - CCTB/SCTs - Moderately Suitable
 - CCTB/SCTs - Least Suitable
 - PTLs - Highly Suitable
 - PTLs - Moderately Suitable
 - PTLs - Least Suitable
 - MPTs and SGPA - Suitable
 - MPTs and SGPA - Not Suitable
 - Water Body



Beat wise Abstract of Proposed PT's – Echoda Range

S. No.	Beat	Proposed PT's
1	BHARAMPUR N	5
2	BHARAMPUR S	4
3	BHUTAI	1
4	BHUTAI K	5
5	CHERLAPALLY	1
6	DAMANGUDA	6
7	DEDRA	3
8	DIGNOOR	5
9	GIRJAI	2
10	GUDIHATNOOR	10
11	HARKAI	13
12	JHARI	3
13	KOTHAGUDA	3
	Total	61

List of Proposed PTs – Echoda Range

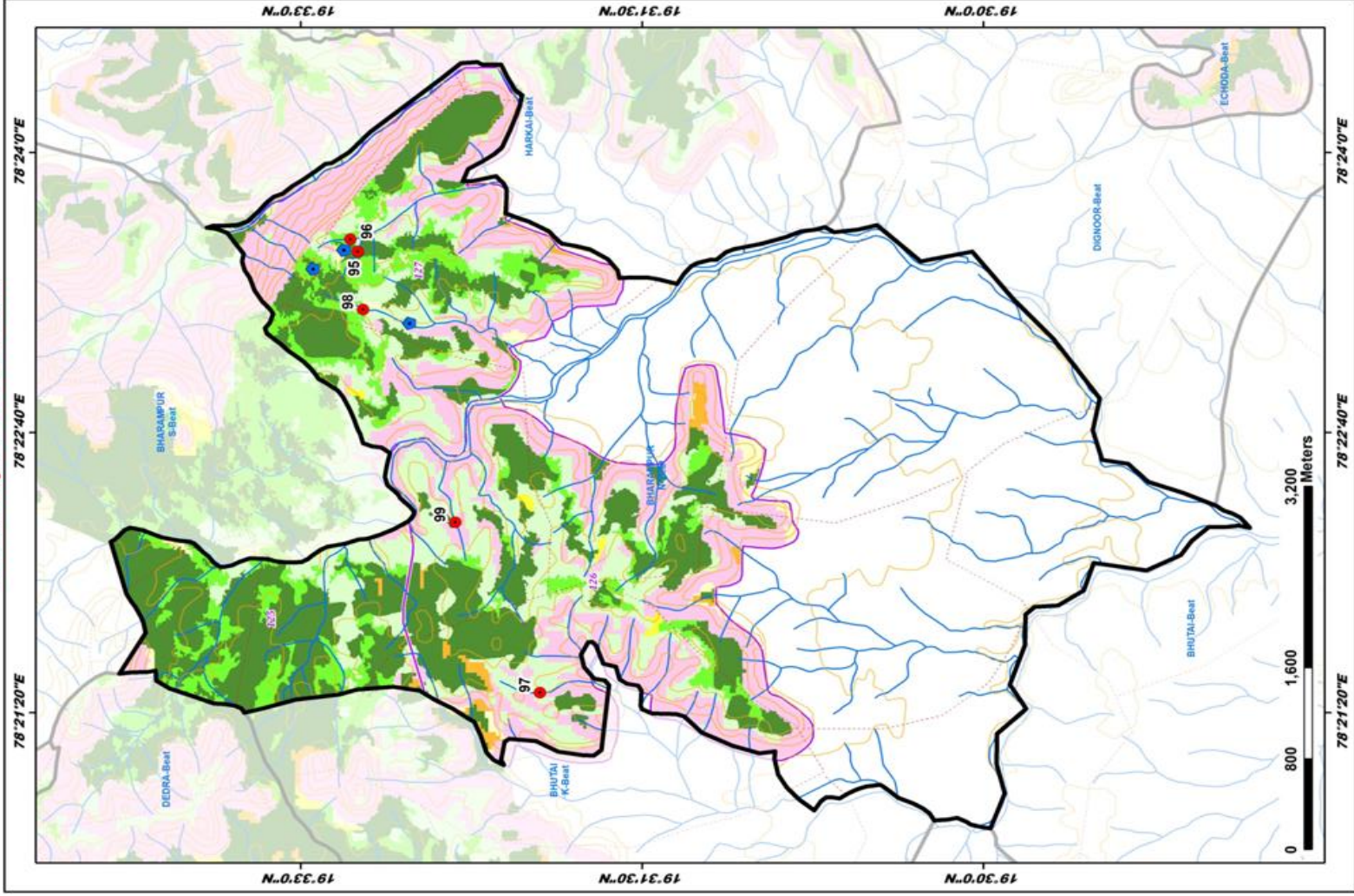
ID	Latitude	Longitude	Catchment Area_Ha	Priority	Beat
81	19.458806	78.306418	15.79	I	BHUTAI
82	19.544892	78.330025	13.06	IV	BHUTAI K
83	19.538603	78.329203	11.18	IV	BHUTAI K
84	19.536594	78.341395	19.40	IV	BHUTAI K
85	19.544033	78.354406	5.71	IV	BHUTAI K
86	19.542099	78.350056	10.17	IV	BHUTAI K
87	19.551380	78.325760	10.22	II	DEDRA
88	19.565812	78.330632	5.83	IV	DEDRA
89	19.586490	78.319477	34.03	V	DEDRA
90	19.543680	78.291012	17.60	IV	GIRJAI
91	19.559214	78.275692	46.45	V	GIRJAI
92	19.514746	78.304082	9.67	I	KOTHAGUDA
93	19.542604	78.307314	8.56	IV	KOTHAGUDA
94	19.512695	78.297506	4.60	IV	KOTHAGUDA
95	19.545805	78.392144	8.32	I	BHARAMPUR N
96	19.546358	78.393135	7.14	II	BHARAMPUR N
97	19.532467	78.357172	12.59	IV	BHARAMPUR N
98	19.545433	78.387552	17.88	IV	BHARAMPUR N
99	19.538678	78.370687	9.66	IV	BHARAMPUR N
100	19.551647	78.377357	15.94	I	BHARAMPUR S
101	19.554235	78.375027	12.99	II	BHARAMPUR S
102	19.550111	78.382607	9.45	II	BHARAMPUR S
103	19.545306	78.370562	9.90	IV	BHARAMPUR S
104	19.572659	78.338750	5.62	IV	CHERLAPALLY
105	19.594032	78.313323	7.57	IV	JHARI
106	19.607808	78.323674	23.76	IV	JHARI
107	19.601246	78.322053	5.50	IV	JHARI
108	19.505691	78.454527	9.70	I	DAMANGUDA
109	19.556743	78.494822	10.86	IV	DAMANGUDA
110	19.552939	78.501102	15.29	IV	DAMANGUDA
111	19.558587	78.492933	24.15	IV	DAMANGUDA
112	19.554832	78.500982	6.84	IV	DAMANGUDA
113	19.568075	78.492092	9.32	IV	DAMANGUDA
114	19.518944	78.446600	26.25	II	DIGNOOR
115	19.512720	78.447006	27.33	II	DIGNOOR
116	19.522051	78.437880	18.68	IV	DIGNOOR
117	19.520239	78.422317	5.14	IV	DIGNOOR
118	19.519232	78.424754	11.27	IV	DIGNOOR
119	19.534163	78.461768	9.53	I	GUDIHAATNOOR
120	19.531056	78.445422	21.23	II	GUDIHAATNOOR

ID	Latitude	Longitude	Catchment Area_Ha	Priority	Beat
121	19.534759	78.452842	35.61	III	GUDIHAATNOOR
122	19.545899	78.414446	14.33	IV	GUDIHAATNOOR
123	19.528880	78.450268	10.26	IV	GUDIHAATNOOR
124	19.543528	78.465319	18.25	IV	GUDIHAATNOOR
125	19.547938	78.413392	9.81	IV	GUDIHAATNOOR
126	19.550379	78.411365	11.75	IV	GUDIHAATNOOR
127	19.540410	78.445215	10.36	IV	GUDIHAATNOOR
128	19.536334	78.457263	62.17	IV	GUDIHAATNOOR
129	19.539318	78.416166	13.97	I	HARKAI
130	19.540153	78.412378	6.96	I	HARKAI
131	19.534918	78.415652	10.55	I	HARKAI
132	19.527924	78.422330	8.91	II	HARKAI
133	19.544369	78.405644	7.76	II	HARKAI
134	19.550817	78.409192	19.23	IV	HARKAI
135	19.529640	78.414520	7.34	IV	HARKAI
136	19.544421	78.420012	18.74	IV	HARKAI
137	19.531227	78.418165	9.59	IV	HARKAI
138	19.524560	78.410860	19.96	IV	HARKAI
139	19.549475	78.399182	8.31	IV	HARKAI
140	19.538325	78.414193	6.27	IV	HARKAI
141	19.525739	78.416525	31.26	V	HARKAI

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



Division : Echoda
Range : Echoda



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
95	19.545805	78.392144	8.32	I
96	19.545358	78.393135	7.14	II
97	19.532407	78.387372	12.59	IV
98	19.545433	78.387552	17.88	IV
99	19.538678	78.370687	9.66	IV

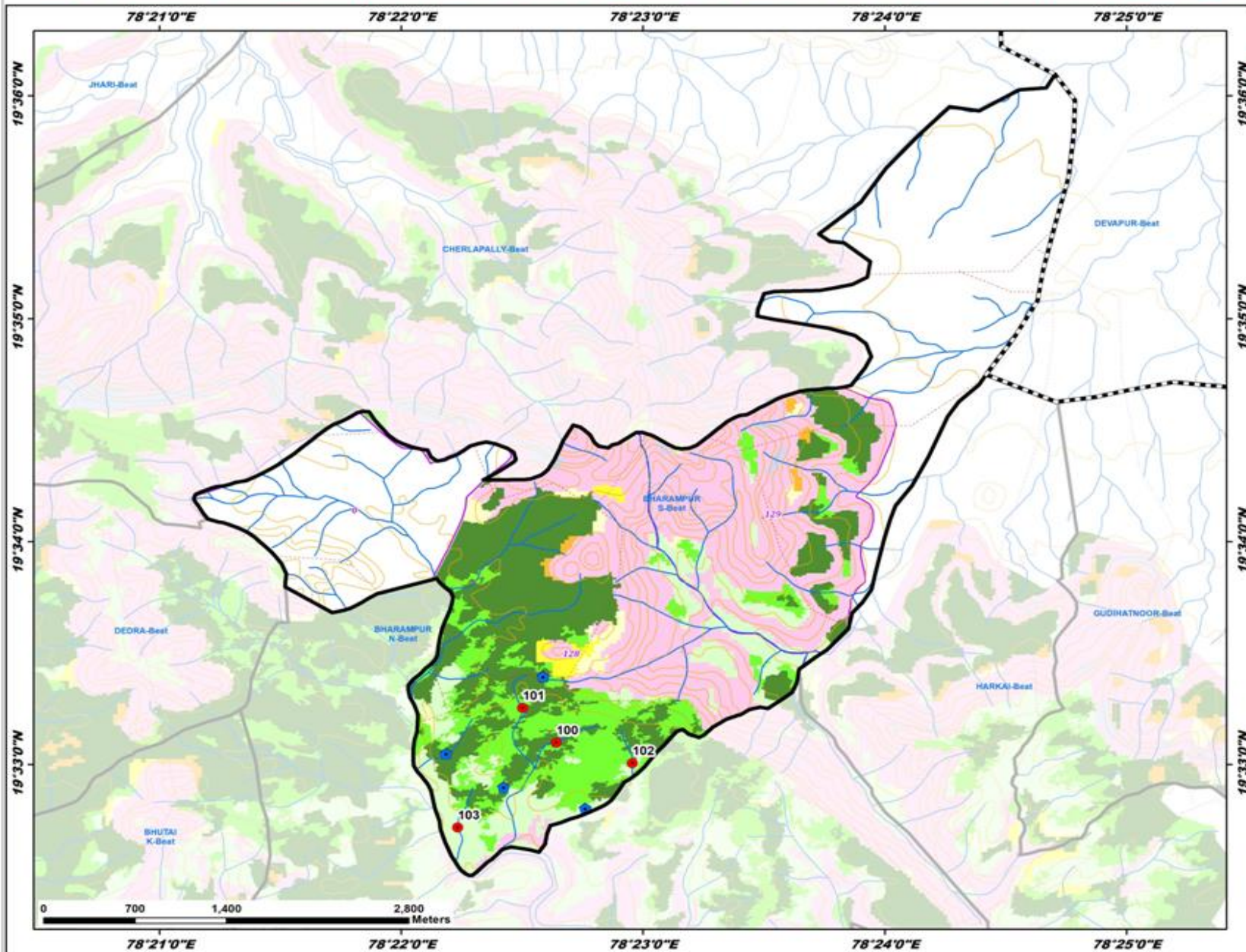
LEGEND

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

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



Division : Echoda
Range : Echoda



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
100	19.551647	78.377357	15.94	I
101	19.554235	78.375027	12.99	II
102	19.550111	78.382607	9.45	II
103	19.545306	78.370562	9.90	IV

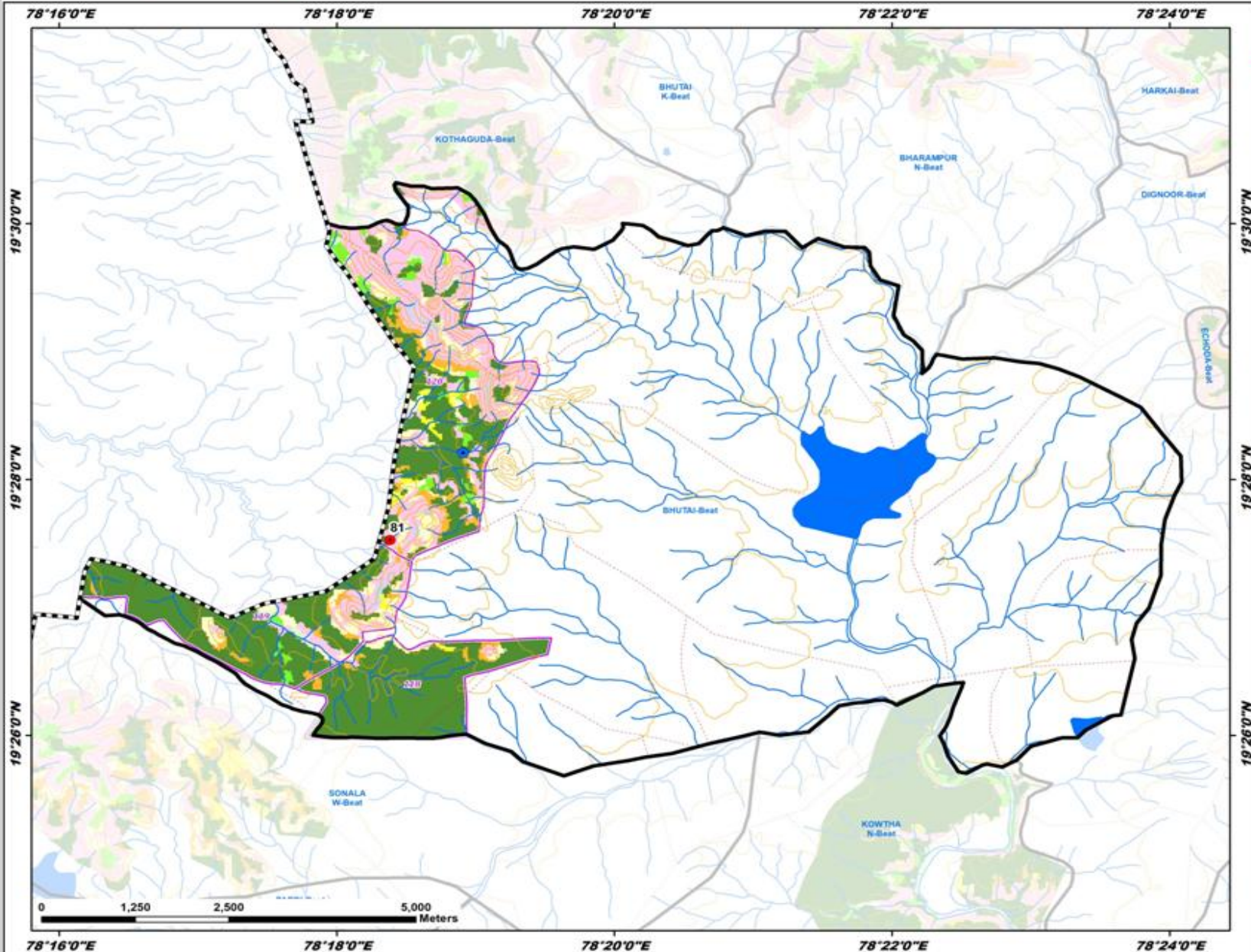
LEGEND

- 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 Bhutai Beat

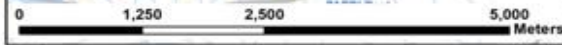


Division : Echoda
Range : Echoda



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
81	19.458806	78.306418	15.79	I

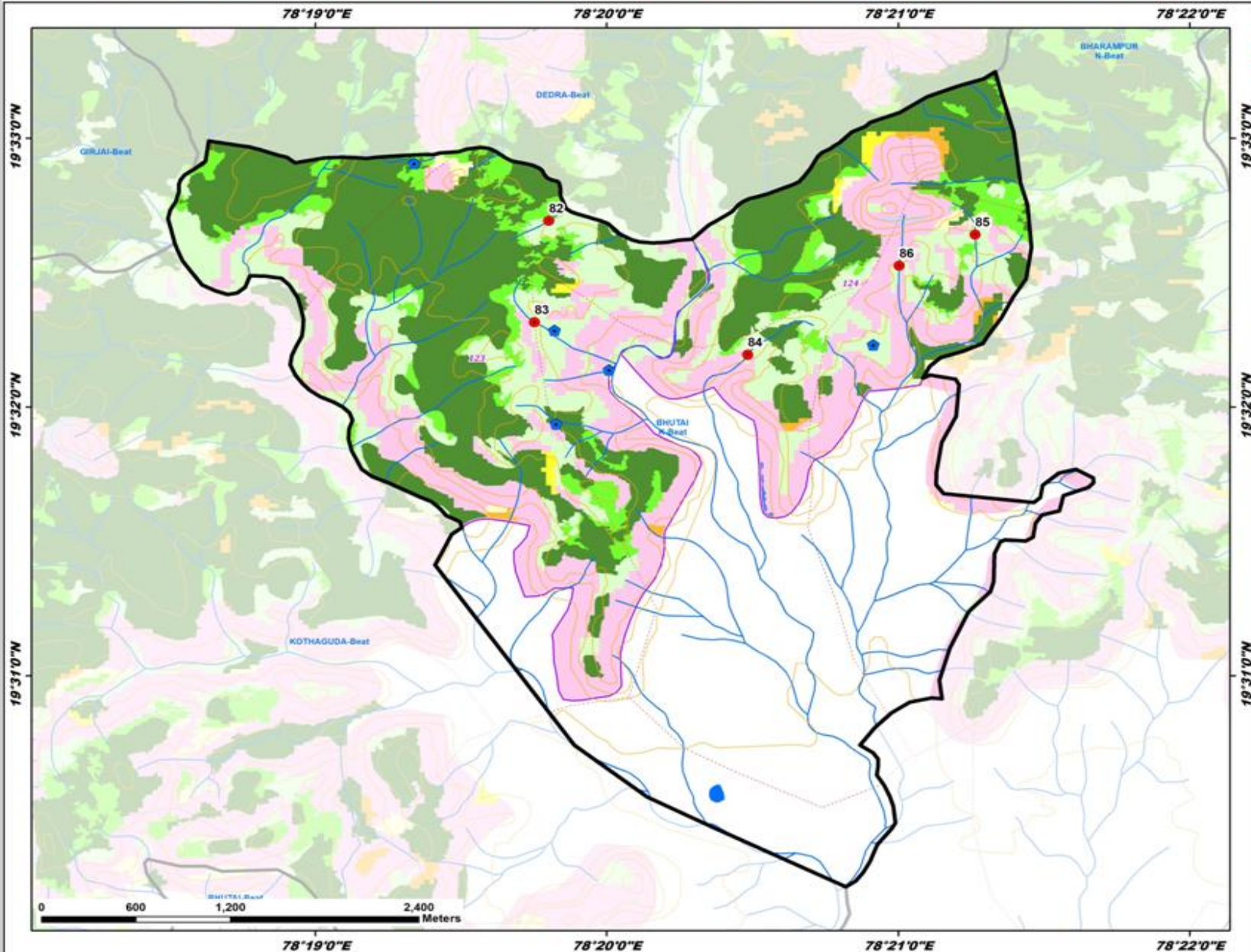
- LEGEND**
- Proposed PTs
 - Existing CD/PTs
 - Contours
 - Streams
 - Watershed Boundary
 - Compartment Boundary
 - Beat Boundary
 - Division Boundary
 - Suitability Index**
 - CCTs/SCTs - Highly Suitable
 - CCTs/SCTs - Moderately Suitable
 - CCTs/SCTs - Least Suitable
 - PTs - Highly Suitable
 - PTs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



Map Showing Suitability Index for Construction of SMC Works of Bhutai K Beat



Division : Echoda
Range : Echoda



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
82	19.544892	78.330025	13.06	IV
83	19.538603	78.329203	11.18	IV
84	19.536594	78.341395	19.40	IV
85	19.544033	78.354406	5.71	IV
86	19.542099	78.350056	10.17	IV

LEGEND

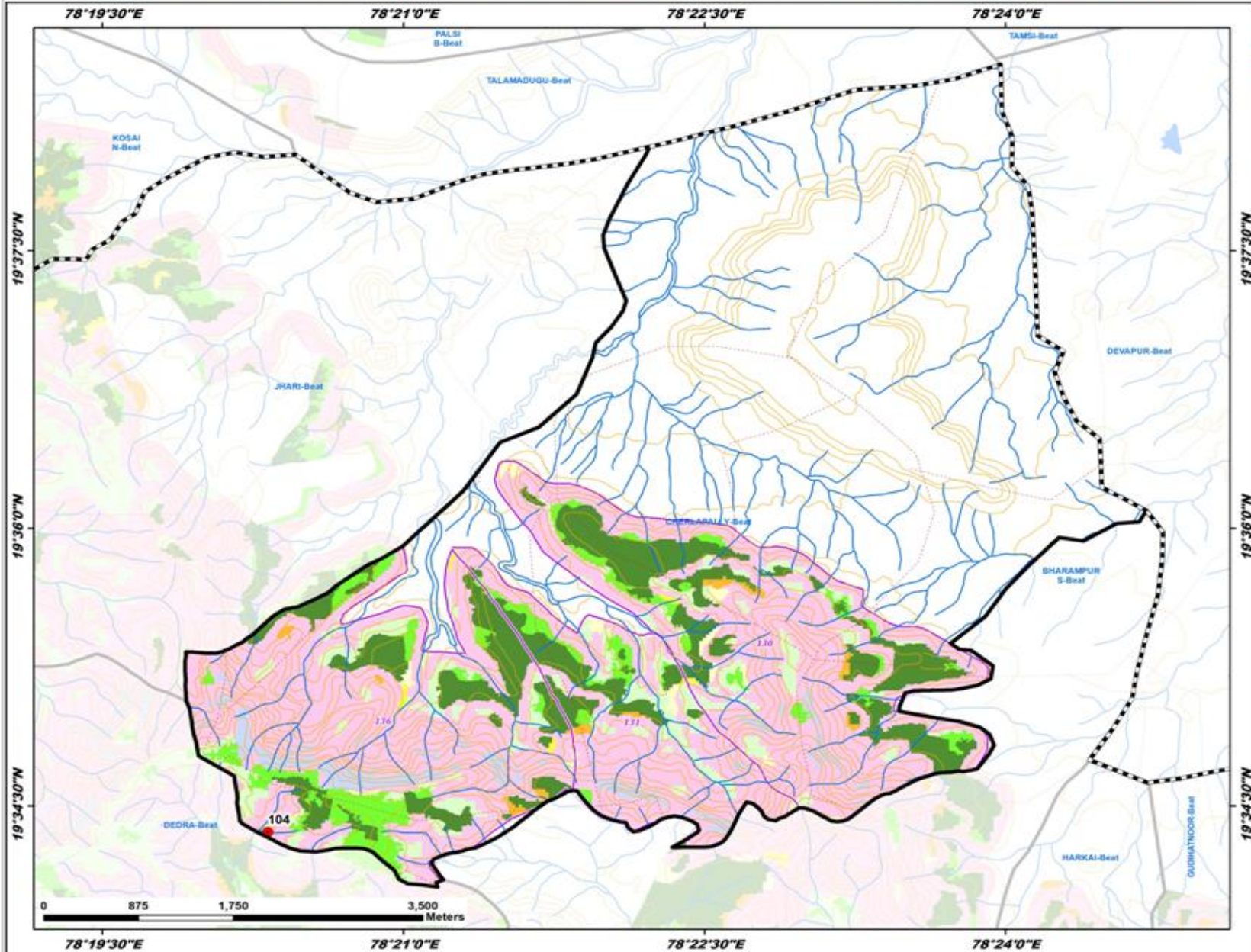
- Proposed PTs
- Existing CD/PTs
- Contours
- Streams
- Watershed Boundary
- Compartment Boundary
- ▭ Beat Boundary
- ▭ Division Boundary

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 Cherlapally Beat



Division : Echoda
Range : Echoda

ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
104	19.572659	78.338750	5.62	IV

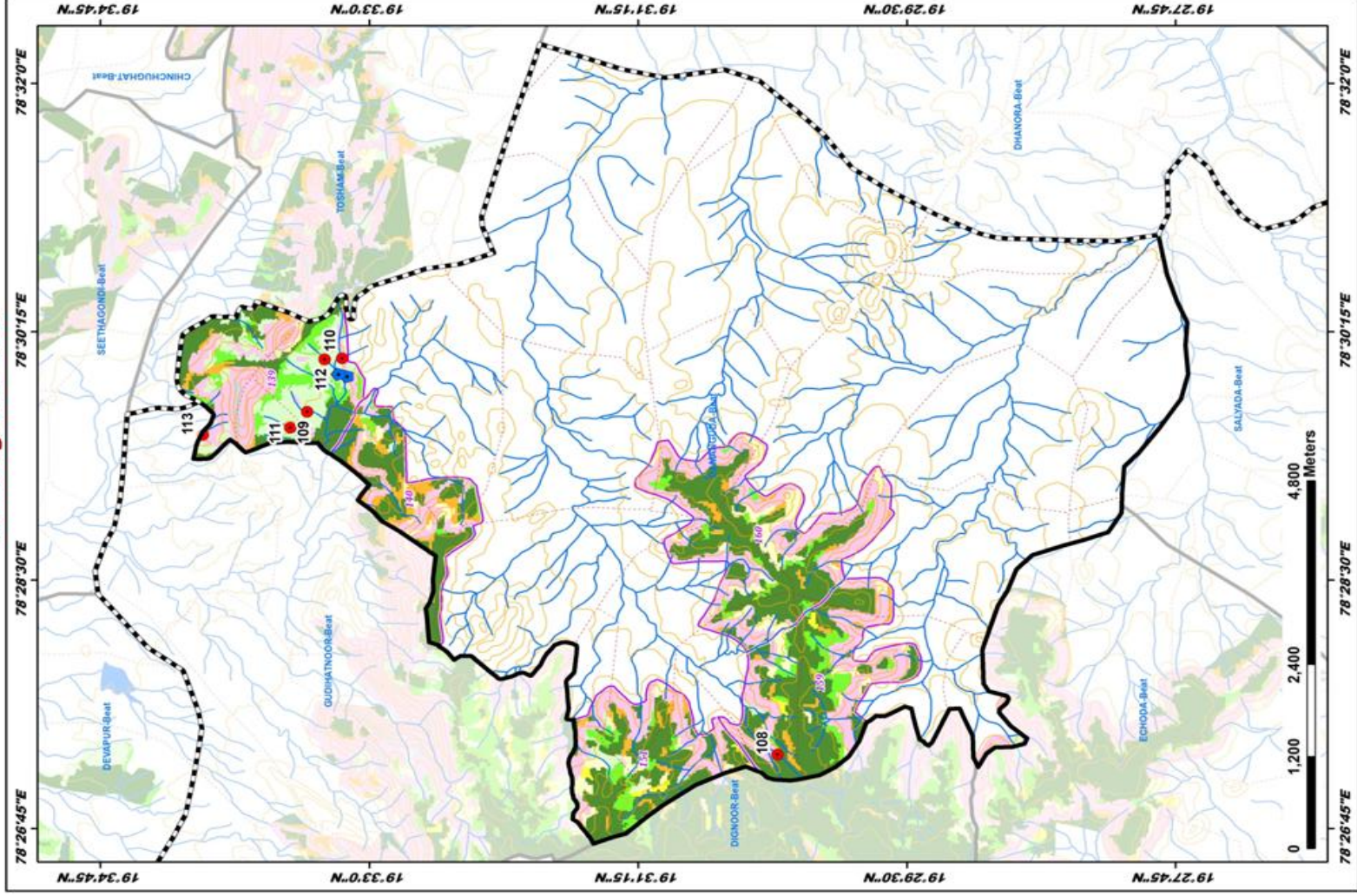
LEGEND

- 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 Damanguda Beat



Division : Echoda
Range : Echoda



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
108	19.506691	78.454327	9.70	I
109	19.556743	78.494822	10.86	IV
110	19.552939	78.501102	15.29	IV
111	19.556887	78.492933	24.15	IV
112	19.554832	78.500982	6.84	IV
113	19.568075	78.493092	9.32	IV

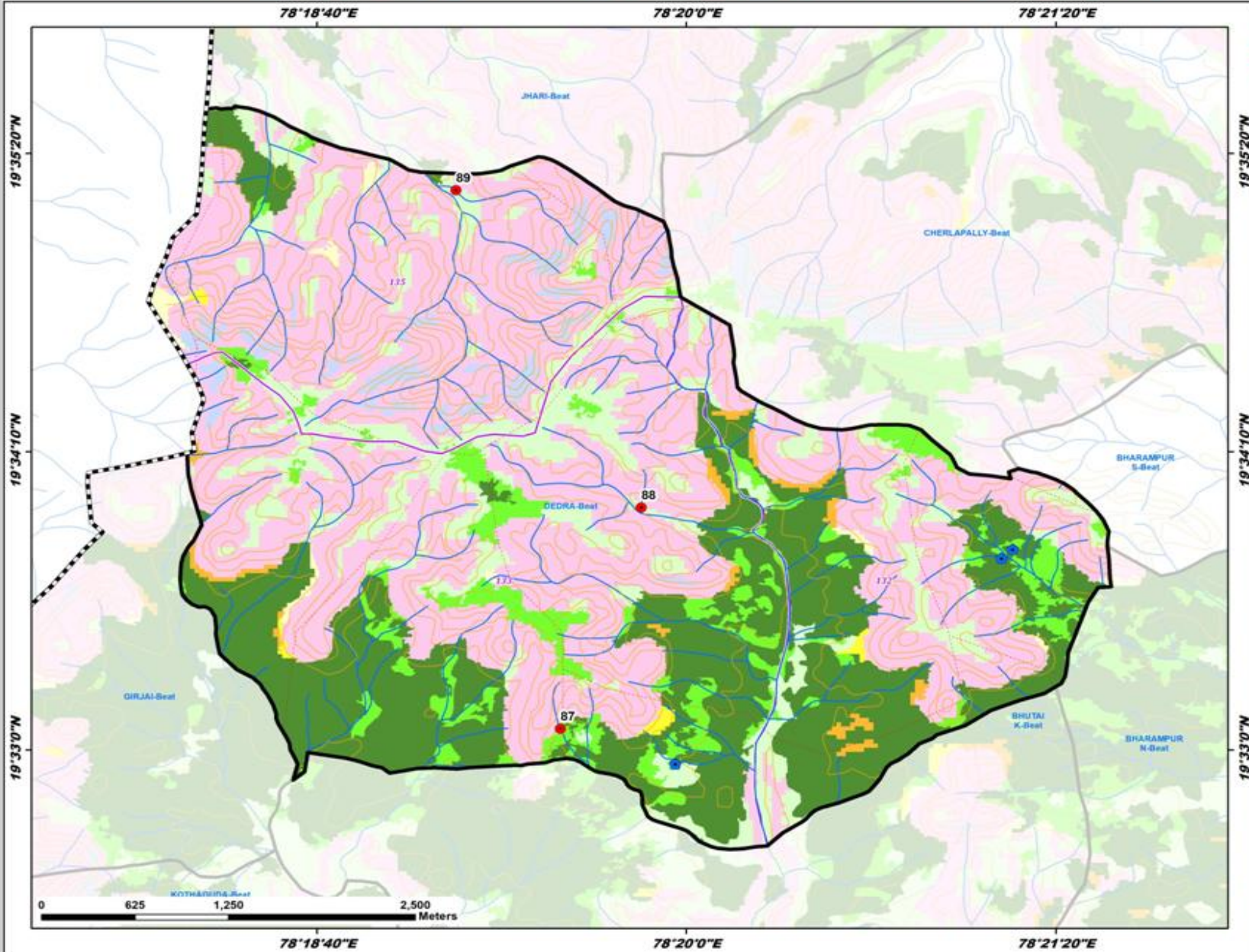
LEGEND

- 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 Dedra Beat

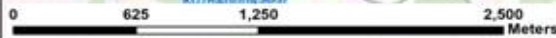


Division : Echoda
Range : Echoda



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
87	19.551380	78.325760	10.22	II
88	19.565812	78.330632	5.83	IV
89	19.586490	78.319477	34.03	V

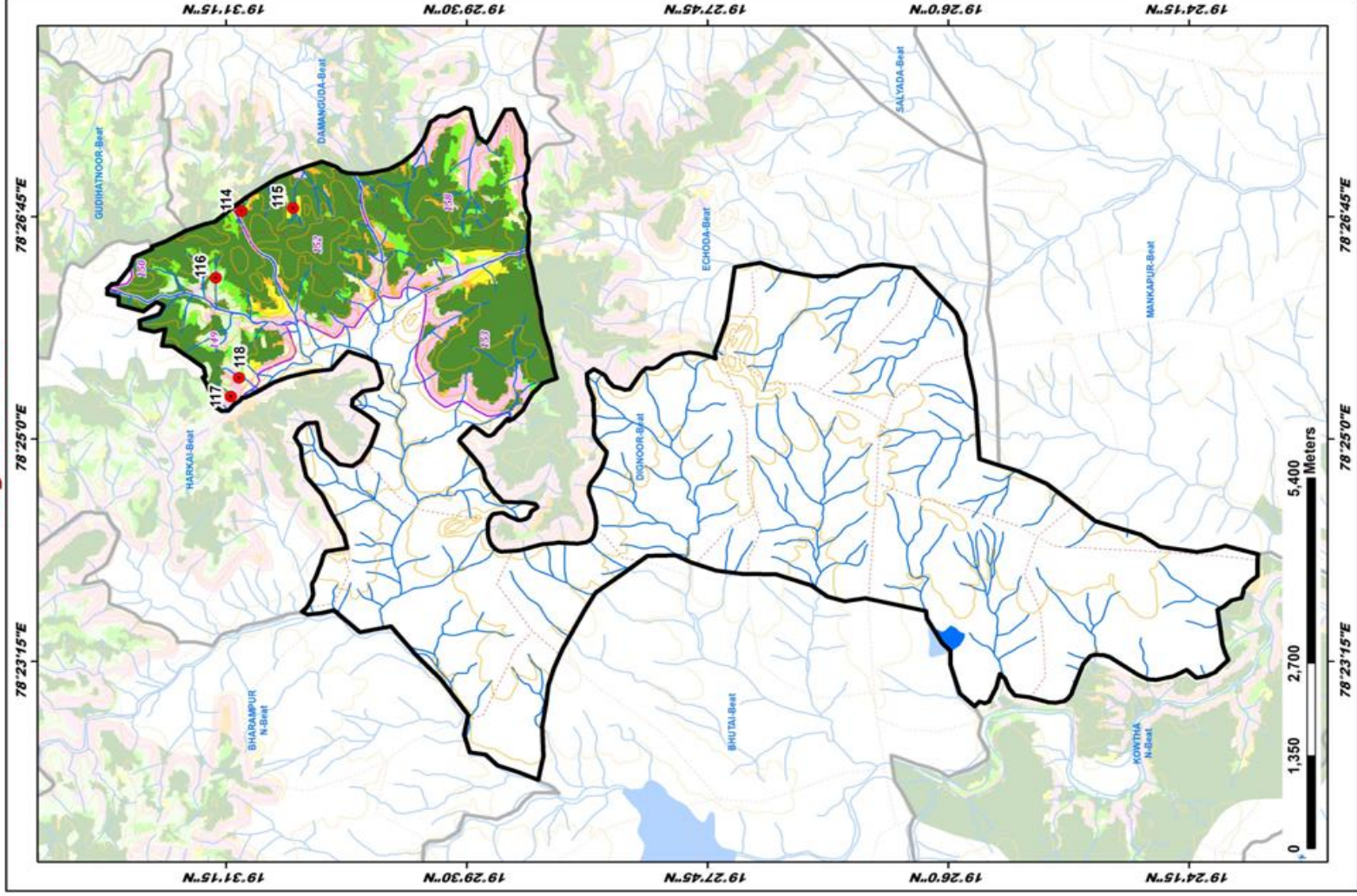
- LEGEND**
- Proposed PTs
 - Existing CD/PTs
 - Contours
 - Streams
 - Watershed Boundary
 - Compartment Boundary
 - Beat Boundary
 - Division Boundary
 - Suitability Index**
 - CCTs/SCTs - Highly Suitable
 - CCTs/SCTs - Moderately Suitable
 - CCTs/SCTs - Least Suitable
 - PTs - Highly Suitable
 - PTs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



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



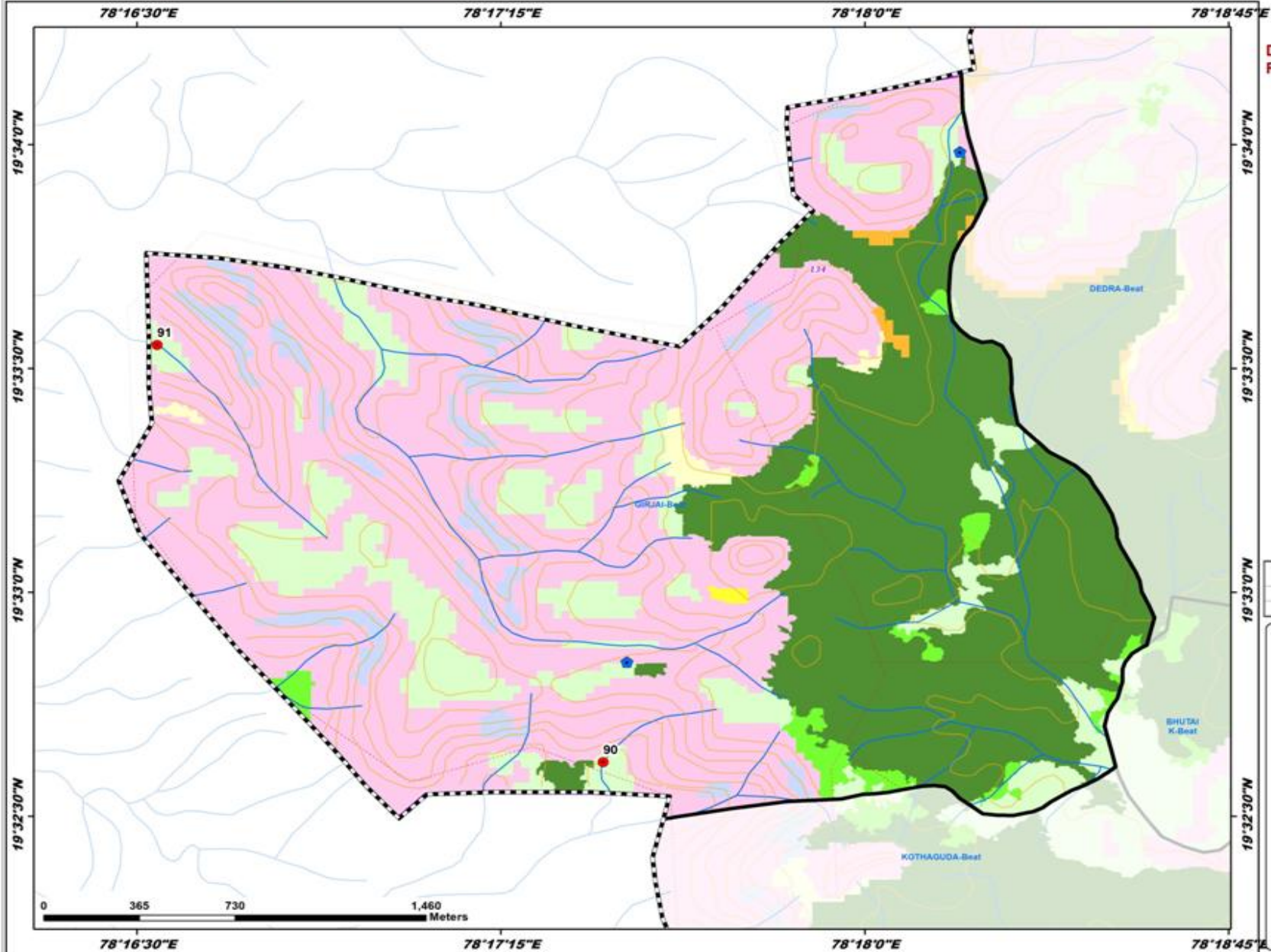
Division : Echoda
Range : Echoda



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



Division : Echoda
Range : Echoda



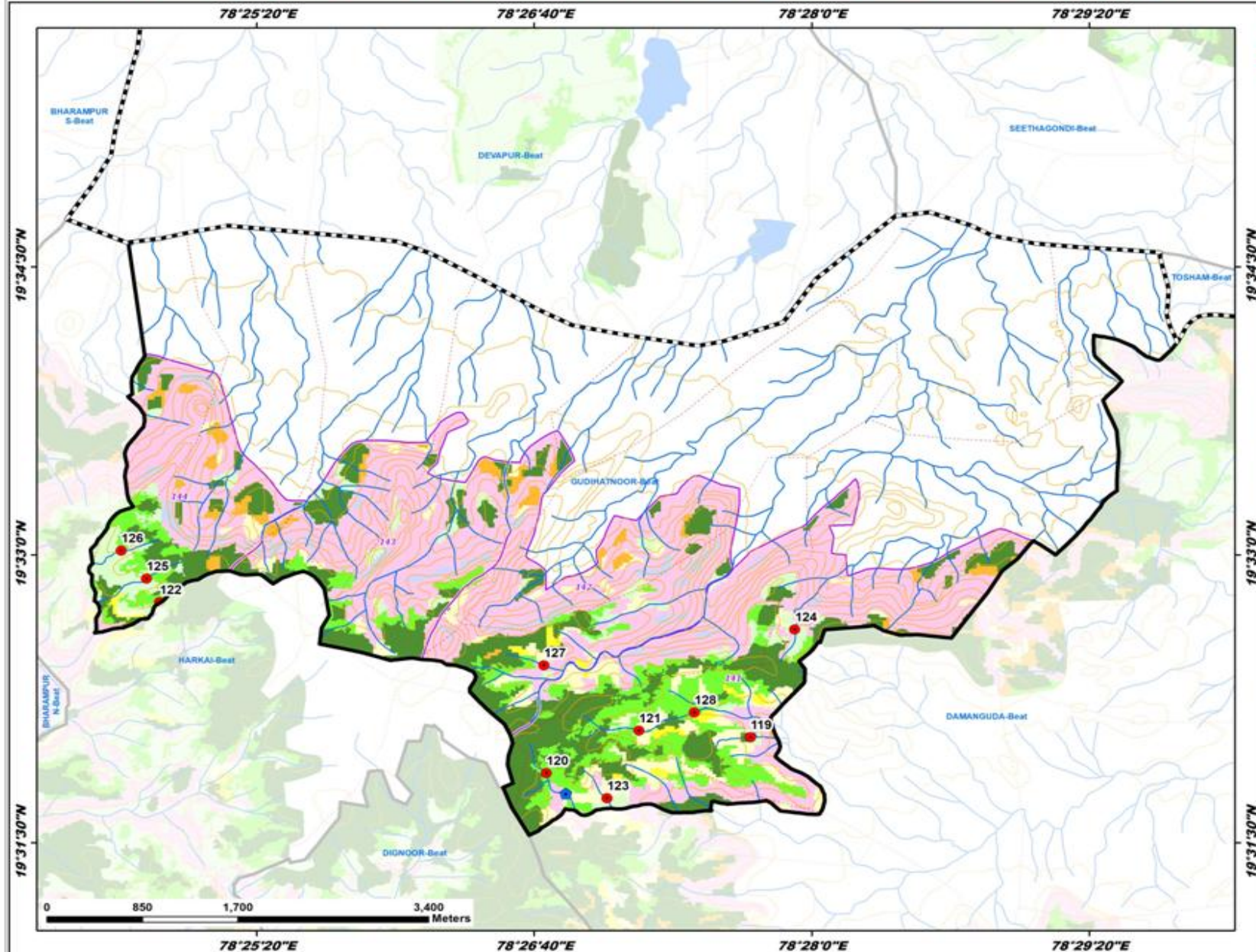
ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
90	19.543680	78.291012	17.60	IV
91	19.559214	78.275692	46.45	V

- 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 Gudihatnoor Beat



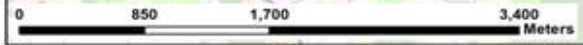
Division : Echoda
Range : Echoda



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
119	19.534563	78.461768	9.53	I
120	19.531056	78.445422	21.23	II
121	19.534759	78.452842	35.61	III
122	19.545899	78.414446	14.33	IV
123	19.528880	78.450268	10.26	IV
124	19.543528	78.465319	18.25	IV
125	19.547938	78.413392	9.81	IV
126	19.550379	78.411365	11.75	IV
127	19.540410	78.445215	10.36	IV
128	19.536334	78.457263	62.17	IV

LEGEND

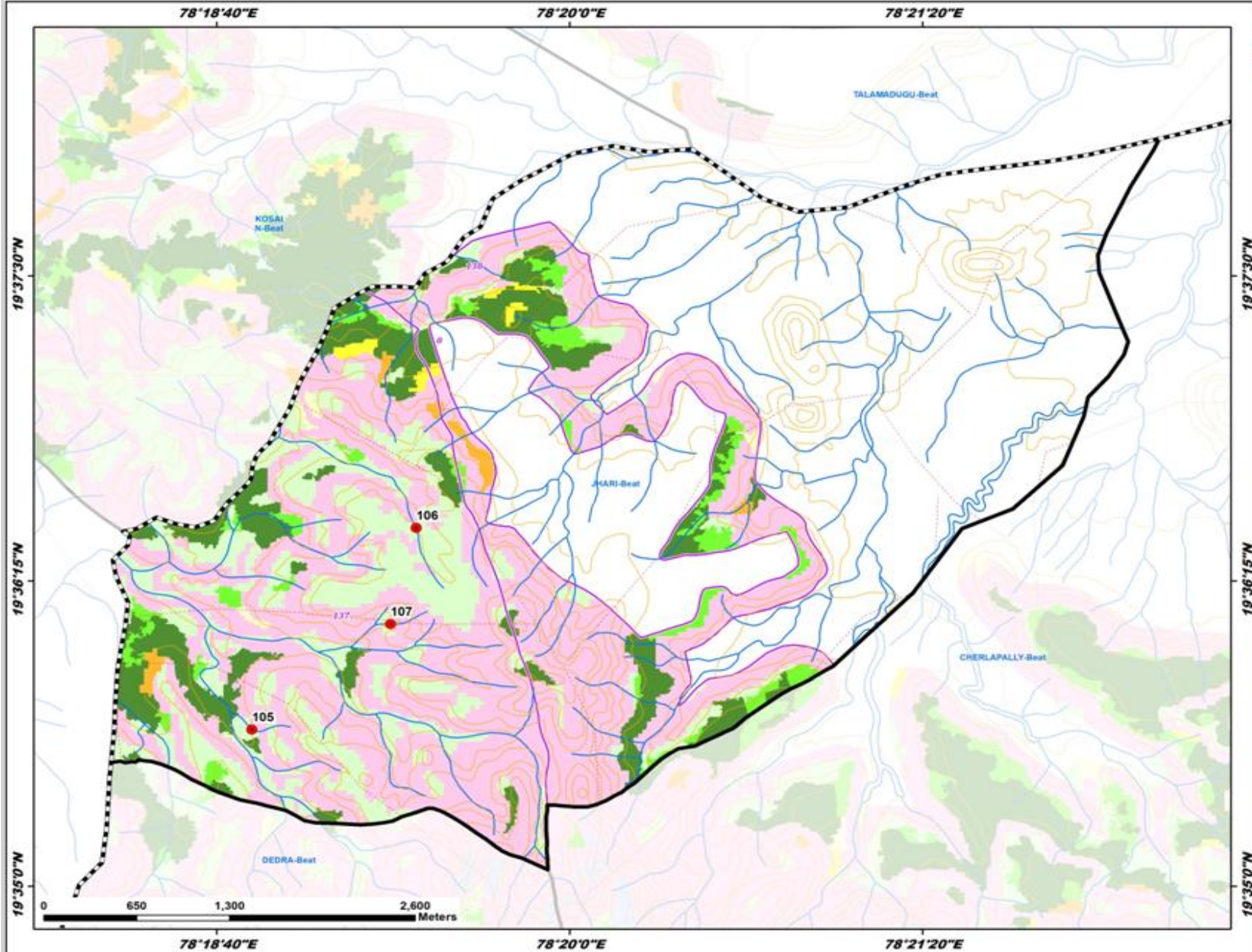
- Proposed PTs
- Existing CD/PTs
- Contours
- Streams
- Watershed Boundary
- Compartment Boundary
- ▭ Beat Boundary
- ▭ Division Boundary
- Suitability Index**
- CCTs/SCTs - Highly Suitable
- CCTs/SCTs - Moderately Suitable
- CCTs/SCTs - Least Suitable
- PTs - Highly Suitable
- PTs - Moderately Suitable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



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



Division : Echoda
Range : Echoda



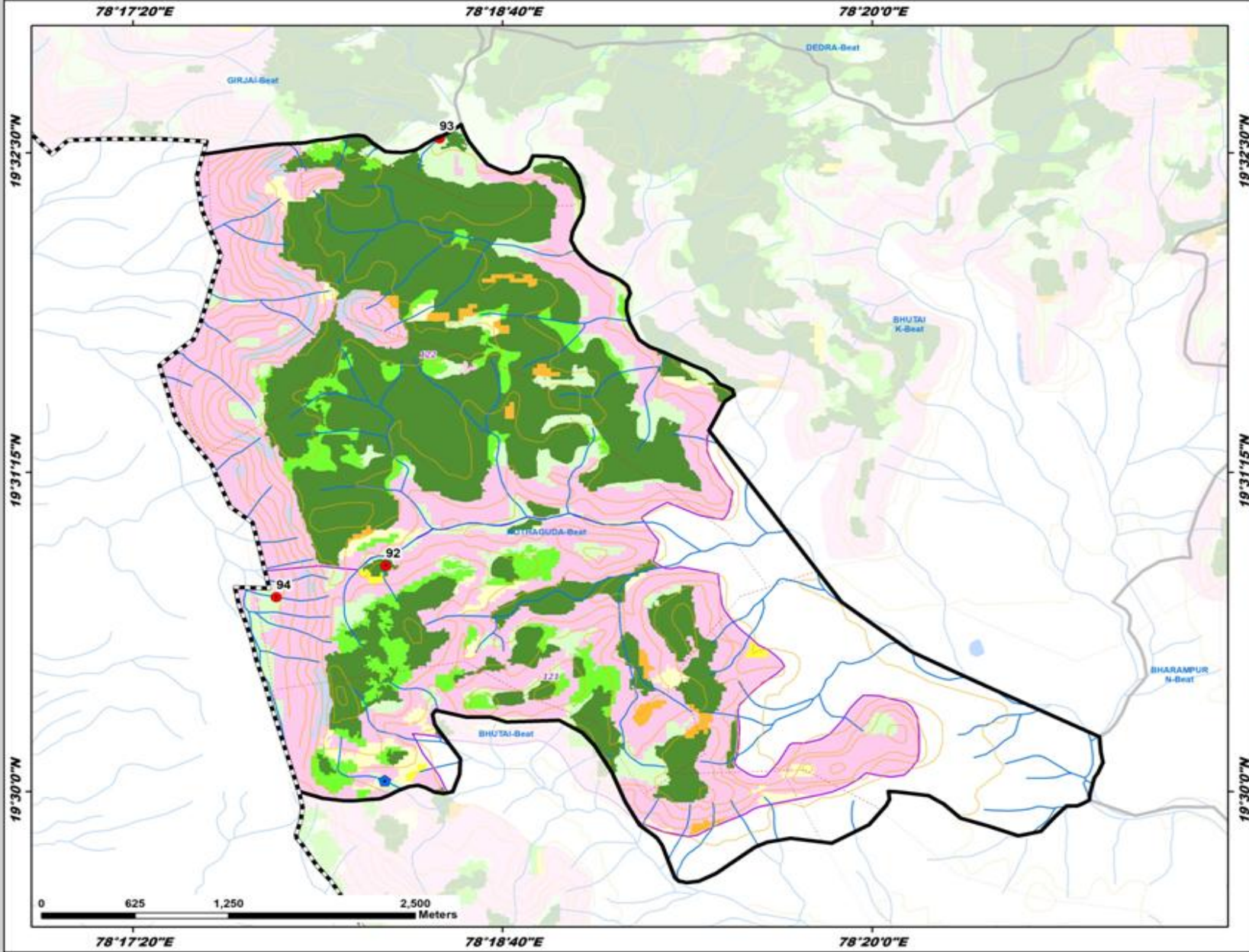
ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
105	19.594932	78.313323	7.57	IV
106	19.607808	78.323674	23.76	IV
107	19.601246	78.322053	5.50	IV

- 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 Kothaguda Beat



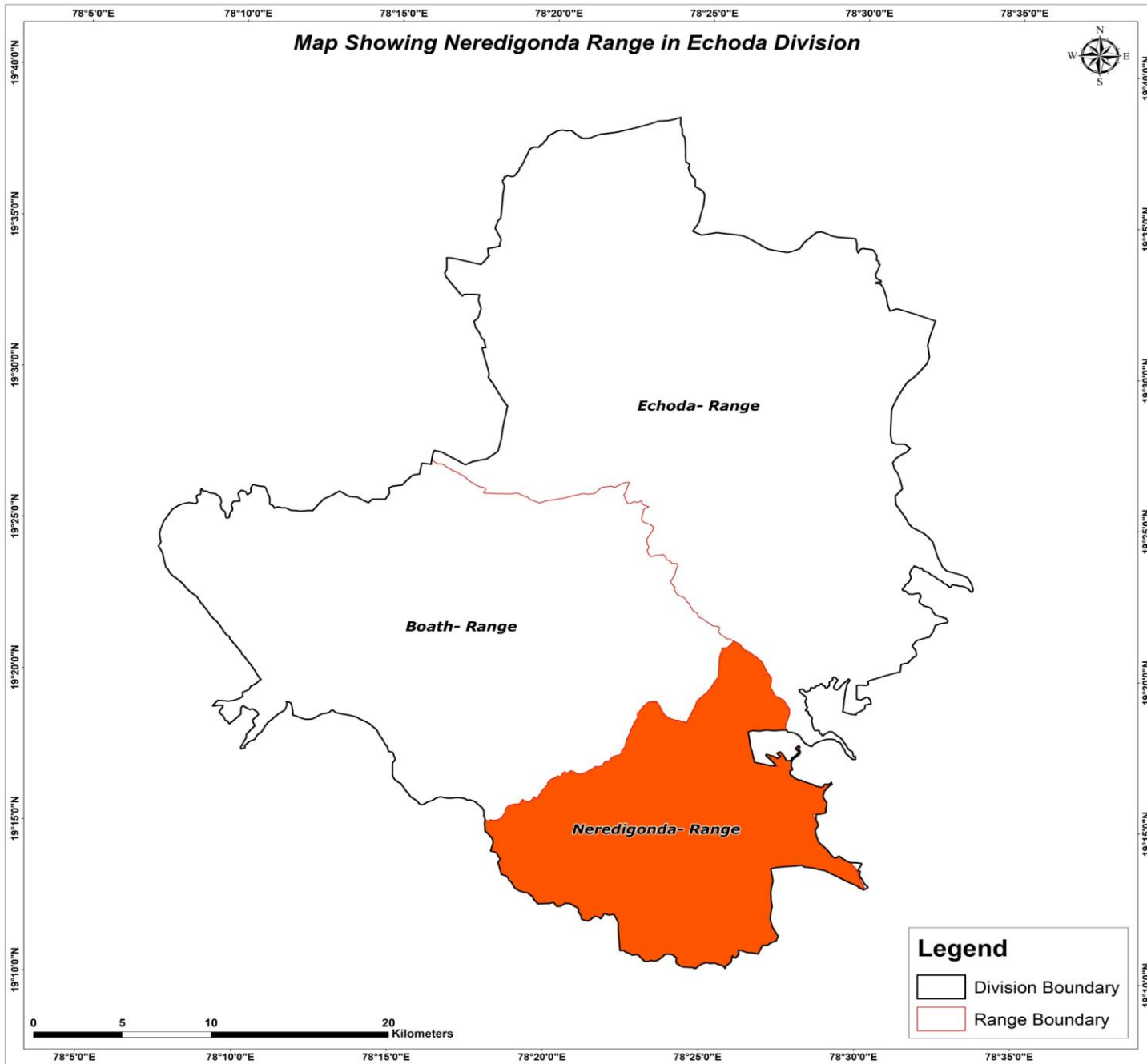
Division : Echoda
Range : Echoda



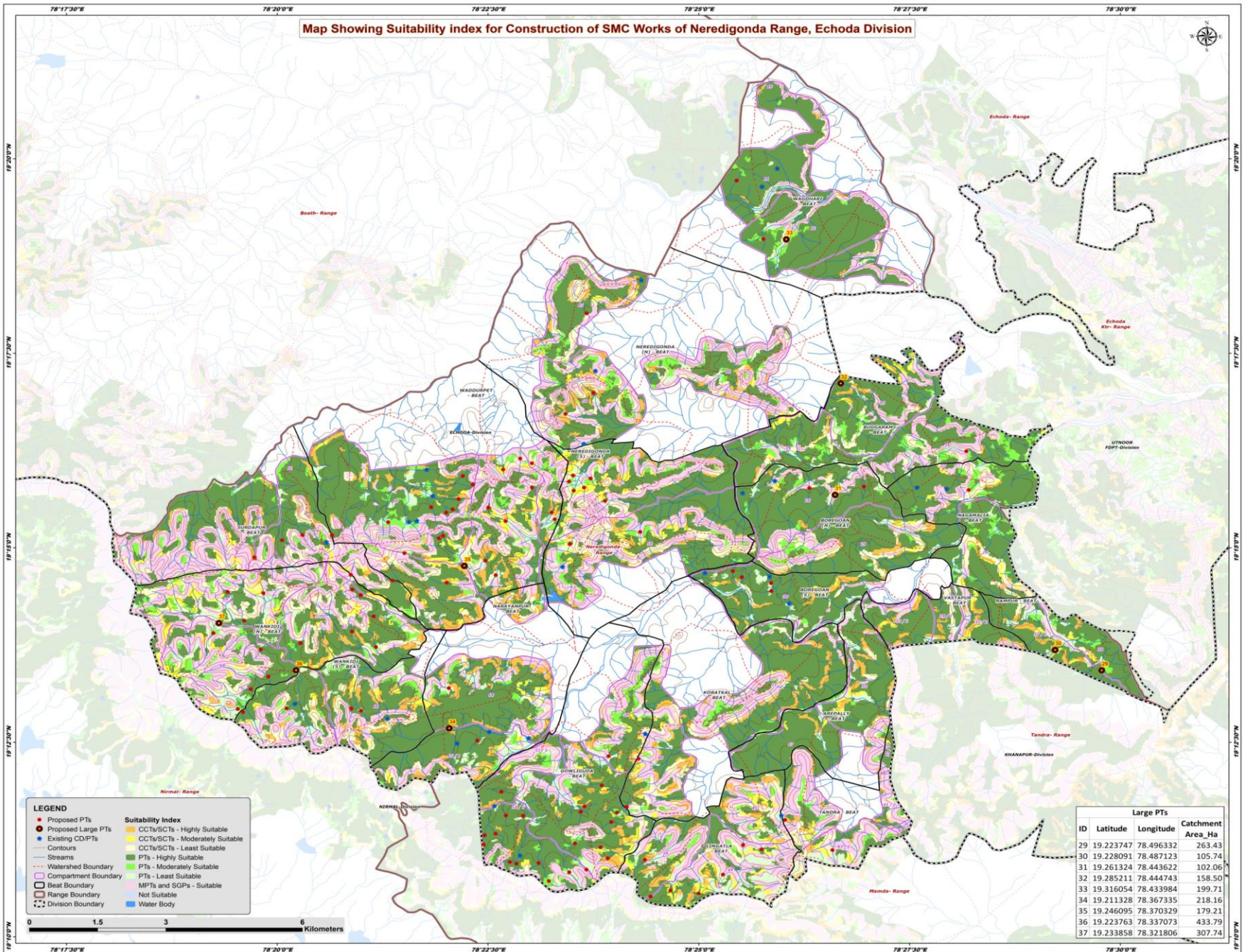
ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
92	19.514746	78.304082	9.67	I
93	19.542604	78.307314	8.56	IV
94	19.512695	78.297506	4.60	IV

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 Neredigonda Range, Echoda Division

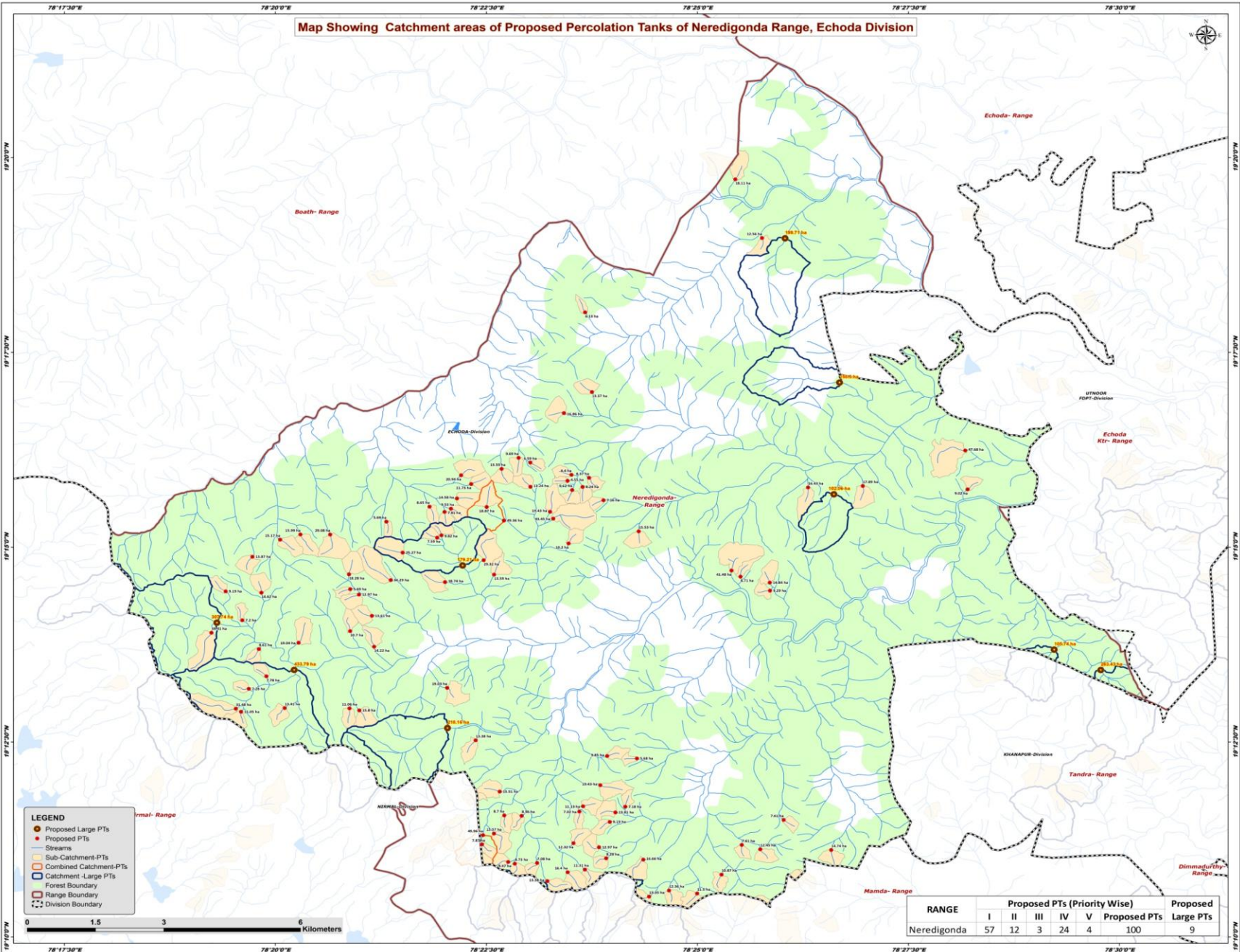


- LEGEND**
- Proposed PTs
 - Proposed Large PTs
 - Existing CD/PTs
 - Contours
 - Streams
 - Watershed Boundary
 - Compartment Boundary
 - Beat Boundary
 - Range Boundary
 - Division Boundary
- Suitability Index**
- CCTs/SCTs - Highly Suitable
 - CCTs/SCTs - Moderately Suitable
 - CCTs/SCTs - Least Suitable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

Large PTs			
ID	Latitude	Longitude	Area_Ha
29	19.223747	78.496332	263.43
30	19.228091	78.487123	105.74
31	19.261324	78.443622	102.06
32	19.285211	78.444743	158.50
33	19.316054	78.433984	199.71
34	19.211328	78.367335	218.16
35	19.246095	78.370329	179.21
36	19.223763	78.337073	433.79
37	19.233858	78.321806	307.74



Map Showing Catchment areas of Proposed Percolation Tanks of Neredigonda Range, Echoda Division



- LEGEND**
- Proposed Large PTs
 - Proposed 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	
Neredigonda	57	12	3	24	4	9
	Proposed PTs					100

Beat wise Abstract of Proposed PT's – Neredigonda Range

S. No.	Beat	Proposed PT's
1	BOREGOAN N	2
2	BOREGOAN S	4
3	BUGGARAM	1
4	GOWLIGUDA	21
5	KORATKAL	2
6	LINGATLA	7
7	NAGAMALIA	1
8	NARAYANPUR	2
9	NEREDIGONDA N	3
10	NEREDIGONDA S	8
11	SURDAPUR	5
12	TANDRA	2
13	WADDURPET	22
14	WAGDHARI	2
15	WANKIDI NORTH	14
16	WANKIDI SOUTH	4
	Total	100

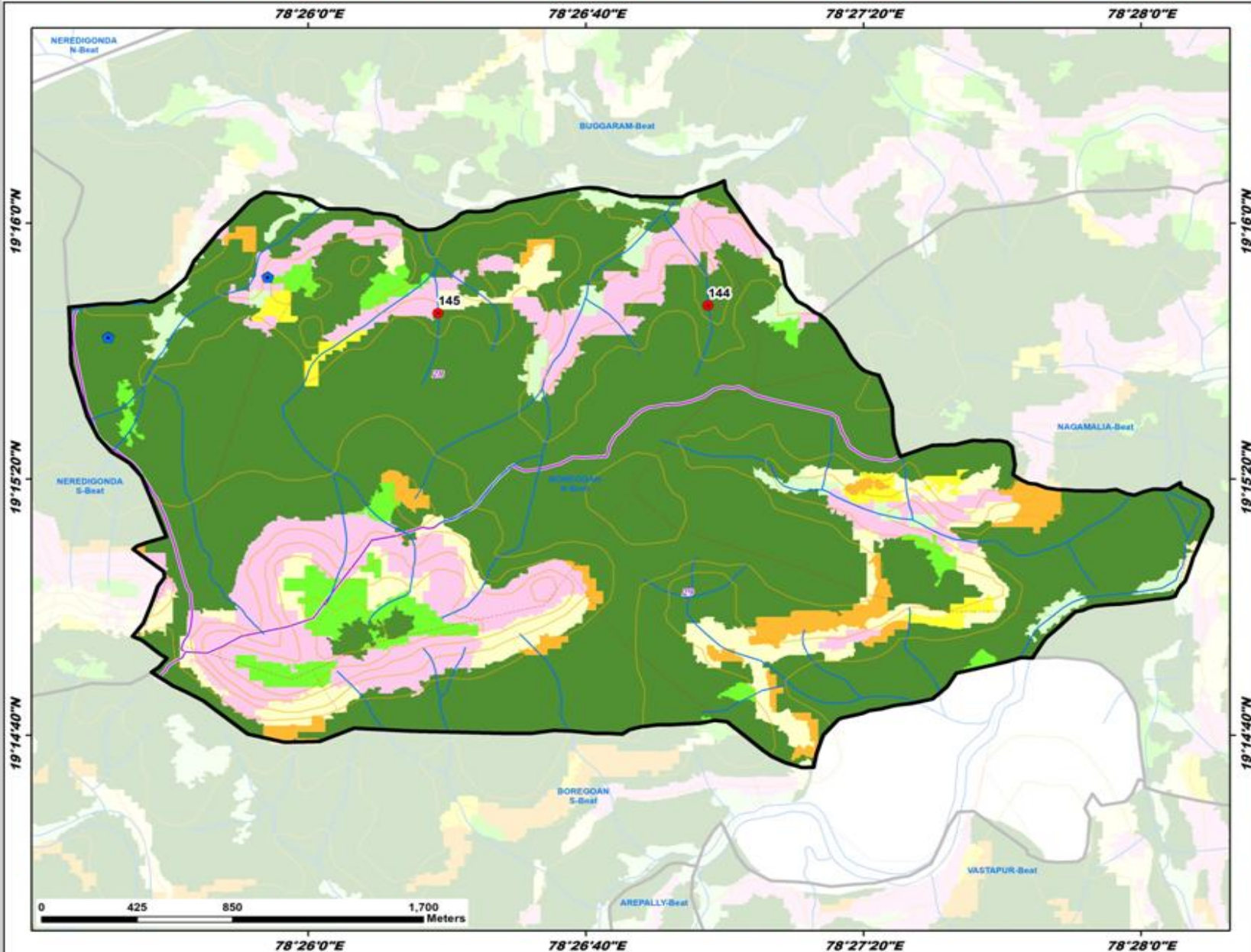
List of Proposed PTs – Neredigonda Range

ID	Latitude	Longitude	Catchment Area_Ha	Priority	Beat	ID	Latitude	Longitude	Catchment Area_Ha	Priority	Beat	ID	Latitude	Longitude	Catchment Area_Ha	Priority	Beat
142	19.191696	78.433725	7.61	IV	TANDRA	182	19.178601	78.387051	13.38	IV	GOWLIGUDA	222	19.247211	78.374490	29.32	V	WADDURPET
143	19.185255	78.443113	14.74	IV	TANDRA	183	19.181073	78.394483	11.31	IV	GOWLIGUDA	223	19.255700	78.378492	49.36	V	WADDURPET
144	19.263095	78.449344	17.89	I	BOREGOAN N	184	19.180492	78.391077	16.40	IV	GOWLIGUDA	224	19.241020	78.348146	5.69	I	WANKIDI NORTH
145	19.262765	78.438528	16.43	I	BOREGOAN N	185	19.188415	78.374341	49.96	II	GOWLIGUDA	225	19.228215	78.330094	8.61	I	WANKIDI NORTH
146	19.243694	78.425202	8.71	I	BOREGOAN S	186	19.194486	78.402437	7.18	I	KORATKAL	226	19.229564	78.337932	19.04	I	WANKIDI NORTH
147	19.245008	78.423421	41.48	II	BOREGOAN S	187	19.204828	78.404750	5.68	IV	KORATKAL	227	19.234376	78.326846	7.20	I	WANKIDI NORTH
148	19.242427	78.430986	14.84	IV	BOREGOAN S	188	19.175286	78.407140	13.35	I	LINGATLA	228	19.235312	78.352416	13.61	I	WANKIDI NORTH
149	19.240703	78.431028	9.29	IV	BOREGOAN S	189	19.183183	78.405997	16.66	I	LINGATLA	229	19.232045	78.348120	10.70	I	WANKIDI NORTH
150	19.262372	78.470045	9.02	II	NAGAMALIA	190	19.176591	78.411075	12.36	I	LINGATLA	230	19.222390	78.331597	7.78	I	WANKIDI NORTH
151	19.270687	78.469579	47.68	V	BUGGARAM	191	19.175949	78.416619	11.50	II	LINGATLA	231	19.219709	78.328108	7.28	I	WANKIDI NORTH
152	19.283164	78.395877	13.37	I	NEREDIGONDA N	192	19.185399	78.429108	12.45	IV	LINGATLA	232	19.240555	78.323538	9.19	I	WANKIDI NORTH
153	19.300212	78.394523	6.13	I	NEREDIGONDA N	193	19.180003	78.421447	10.87	IV	LINGATLA	233	19.239867	78.349870	12.97	I	WANKIDI NORTH
154	19.278664	78.390334	16.86	IV	NEREDIGONDA N	194	19.186335	78.425458	7.61	IV	LINGATLA	234	19.228726	78.352843	14.22	II	WANKIDI NORTH
155	19.260039	78.398144	7.16	I	NEREDIGONDA S	195	19.208704	78.372901	13.38	I	NARAYANPUR	235	19.231702	78.320744	33.31	III	WANKIDI NORTH
156	19.250800	78.391254	10.20	I	NEREDIGONDA S	196	19.219924	78.367255	19.03	IV	NARAYANPUR	236	19.215468	78.325547	31.48	III	WANKIDI NORTH
157	19.264202	78.391055	4.55	II	NEREDIGONDA S	197	19.252714	78.338294	15.99	I	SURDAPUR	237	19.240272	78.330603	14.62	IV	WANKIDI NORTH
158	19.262224	78.391968	9.62	II	NEREDIGONDA S	198	19.251609	78.334306	15.17	I	SURDAPUR	238	19.215532	78.347987	11.06	I	WANKIDI SOUTH
159	19.264841	78.395290	8.37	II	NEREDIGONDA S	199	19.247958	78.328815	13.87	I	SURDAPUR	239	19.214799	78.326595	11.05	I	WANKIDI SOUTH
160	19.262893	78.394012	8.24	IV	NEREDIGONDA S	200	19.242961	78.356131	34.29	II	SURDAPUR	240	19.215596	78.335202	13.41	I	WANKIDI SOUTH
161	19.265482	78.391827	8.40	IV	NEREDIGONDA S	201	19.244210	78.347896	18.28	IV	SURDAPUR	241	19.215104	78.349929	15.80	IV	WANKIDI SOUTH
162	19.253398	78.405088	15.53	IV	NEREDIGONDA S	202	19.257550	78.366762	7.81	I	WADDURPET						
163	19.328663	78.424177	18.11	I	WAGDHARI	203	19.258226	78.368017	9.53	I	WADDURPET						
164	19.316112	78.429440	12.56	I	WAGDHARI	204	19.258588	78.375081	18.87	I	WADDURPET						
165	19.183477	78.398674	8.28	I	GOWLIGUDA	205	19.262912	78.383718	11.24	I	WADDURPET						
166	19.182327	78.380633	8.73	I	GOWLIGUDA	206	19.252049	78.365308	7.59	I	WADDURPET						
167	19.191261	78.399395	9.19	I	GOWLIGUDA	207	19.242541	78.366850	18.74	I	WADDURPET						
168	19.192556	78.381969	8.36	I	GOWLIGUDA	208	19.252542	78.366138	9.82	I	WADDURPET						
169	19.185833	78.397255	12.97	I	GOWLIGUDA	209	19.258663	78.363806	8.65	I	WADDURPET						
170	19.199121	78.397517	19.43	I	GOWLIGUDA	210	19.266752	78.378035	13.33	I	WADDURPET						
171	19.188771	78.376513	15.57	I	GOWLIGUDA	211	19.260416	78.369210	14.58	I	WADDURPET						
172	19.182481	78.385027	7.08	I	GOWLIGUDA	212	19.265377	78.370027	20.94	I	WADDURPET						
173	19.182684	78.379334	9.47	I	GOWLIGUDA	213	19.263517	78.372022	11.73	I	WADDURPET						
174	19.197740	78.377659	15.51	I	GOWLIGUDA	214	19.257566	78.387595	19.43	I	WADDURPET						
175	19.194593	78.394106	11.13	I	GOWLIGUDA	215	19.252706	78.344172	29.08	II	WADDURPET						
176	19.186449	78.374139	7.87	I	GOWLIGUDA	216	19.248840	78.358505	25.27	III	WADDURPET						
177	19.193460	78.393387	7.02	I	GOWLIGUDA	217	19.255472	78.355276	5.69	IV	WADDURPET						
178	19.192642	78.378548	8.70	I	GOWLIGUDA	218	19.268096	78.383690	6.59	IV	WADDURPET						
179	19.186706	78.392219	12.32	II	GOWLIGUDA	219	19.244130	78.376550	13.59	IV	WADDURPET						
180	19.193297	78.400499	13.81	II	GOWLIGUDA	220	19.269106	78.381373	9.69	IV	WADDURPET						
181	19.205337	78.398857	9.85	IV	GOWLIGUDA	221	19.256112	78.388218	43.45	V	WADDURPET						

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



Division : Echoda
Range : Neredigonda



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
144	19.263095	78.449344	17.89	I
145	19.262765	78.438528	16.43	I

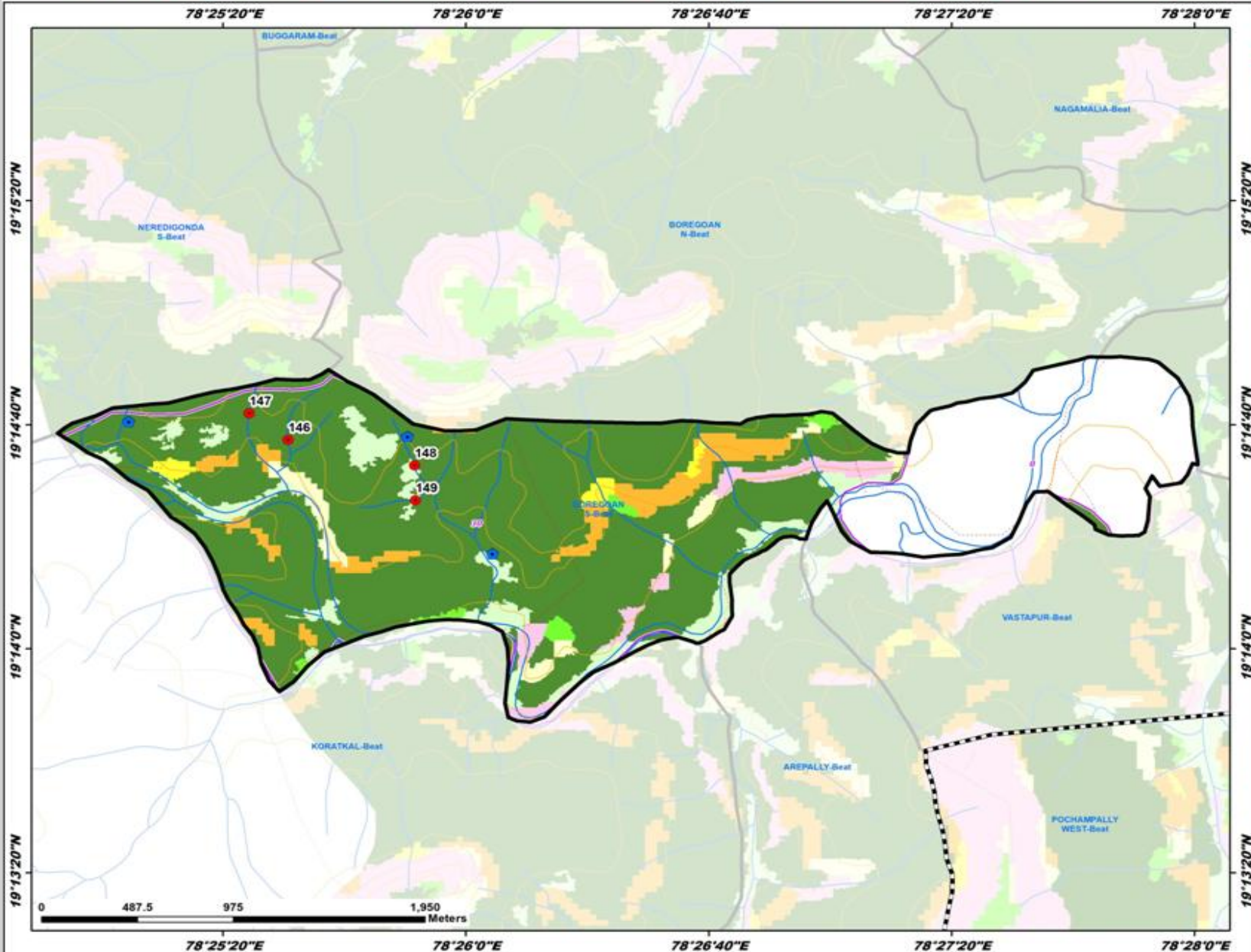
- LEGEND**
- Proposed PTs
 - Existing CD/PTs
 - Contours
 - Streams
 - Watershed Boundary
 - Compartment Boundary
 - ▭ Beat Boundary
 - ▭ Division Boundary
 - Suitability Index**
 - CCTs/SCTs - Highly Suitable
 - CCTs/SCTs - Moderately Suitable
 - CCTs/SCTs - Least Suitable
 - PTs - Highly Suitable
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



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



Division : Echoda
Range : Neredigonda



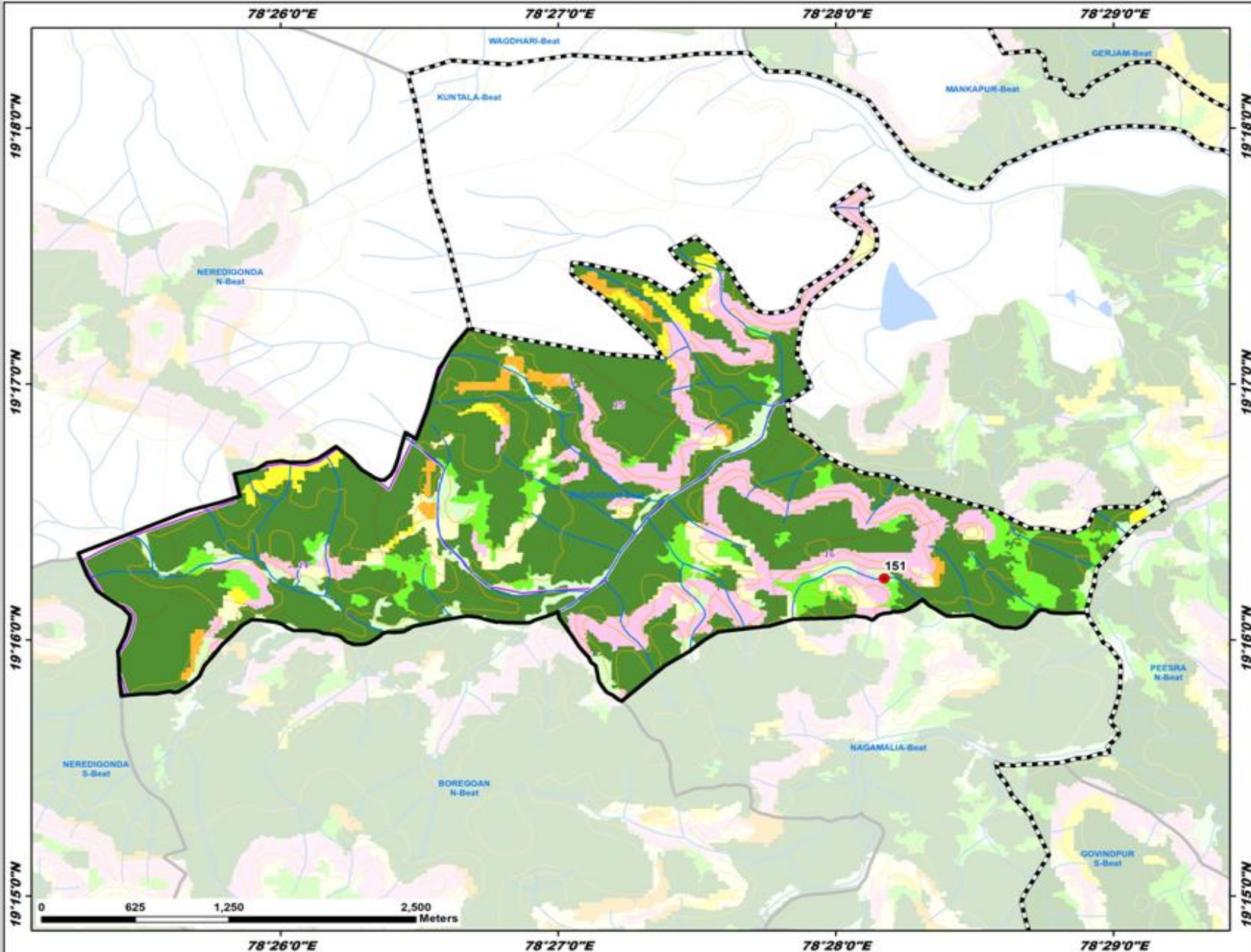
ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
146	19.243694	78.425202	8.71	I
147	19.245008	78.423421	41.48	II
148	19.242427	78.430986	14.84	IV
149	19.240703	78.431028	9.29	IV

- LEGEND**
- Proposed PTs
 - Existing CD/PTs
 - Contours
 - Streams
 - Watershed Boundary
 - Compartment Boundary
 - Beat Boundary
 - Division Boundary
 - Suitability Index**
 - CCTs/SCTs - Highly Suitable
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 - 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 Buggaram Beat



Division : Echoda
Range : Neredigonda



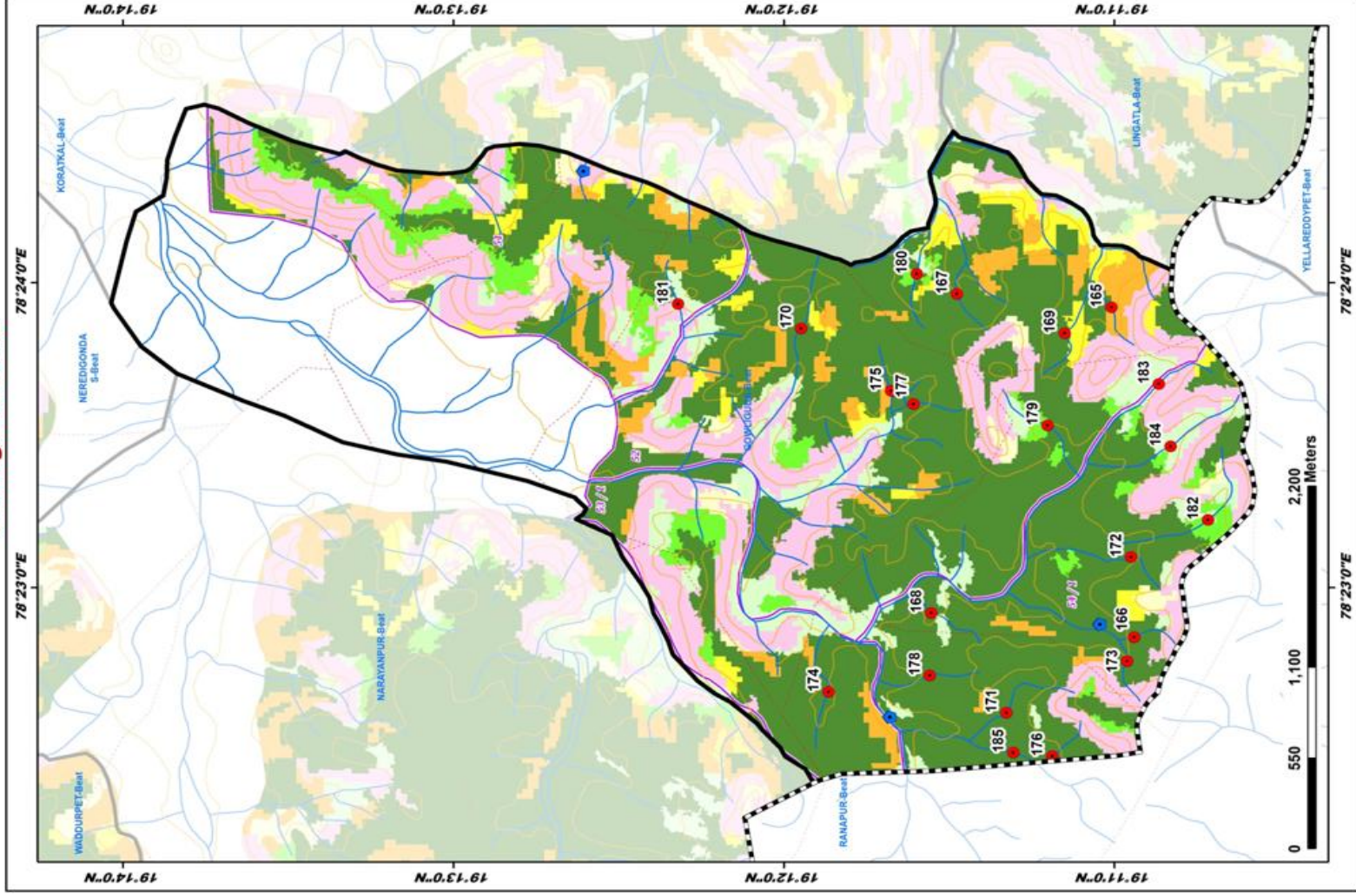
ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
151	19.270687	78.469579	47.68	V

- 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 Gowliguda Beat



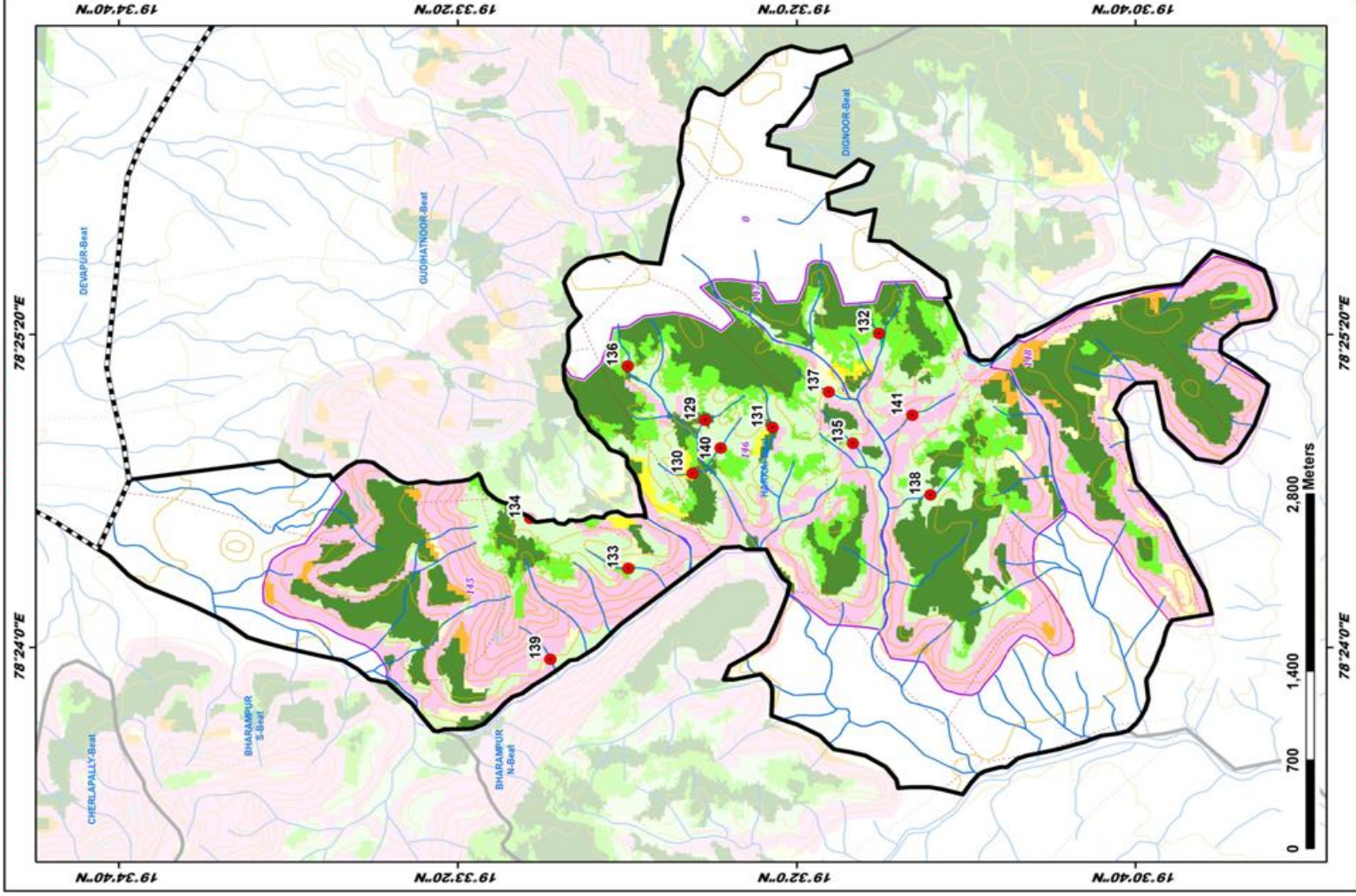
Division : Echoda
Range : Neredigonda



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



Division : Echoda
Range : Neredigonda



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
129	19.539318	78.415166	11.97	I
130	19.540153	78.412378	6.96	I
131	19.534918	78.415652	10.55	I
132	19.527924	78.422330	8.91	II
133	19.544369	78.405644	7.76	II
134	19.550817	78.409192	19.23	II
135	19.529640	78.416520	7.34	IV
136	19.544421	78.420012	18.74	IV
137	19.531227	78.418165	9.59	IV
138	19.526560	78.410860	19.96	IV
139	19.549875	78.399182	8.31	IV
140	19.538325	78.414193	6.27	IV
141	19.525739	78.416525	31.26	V

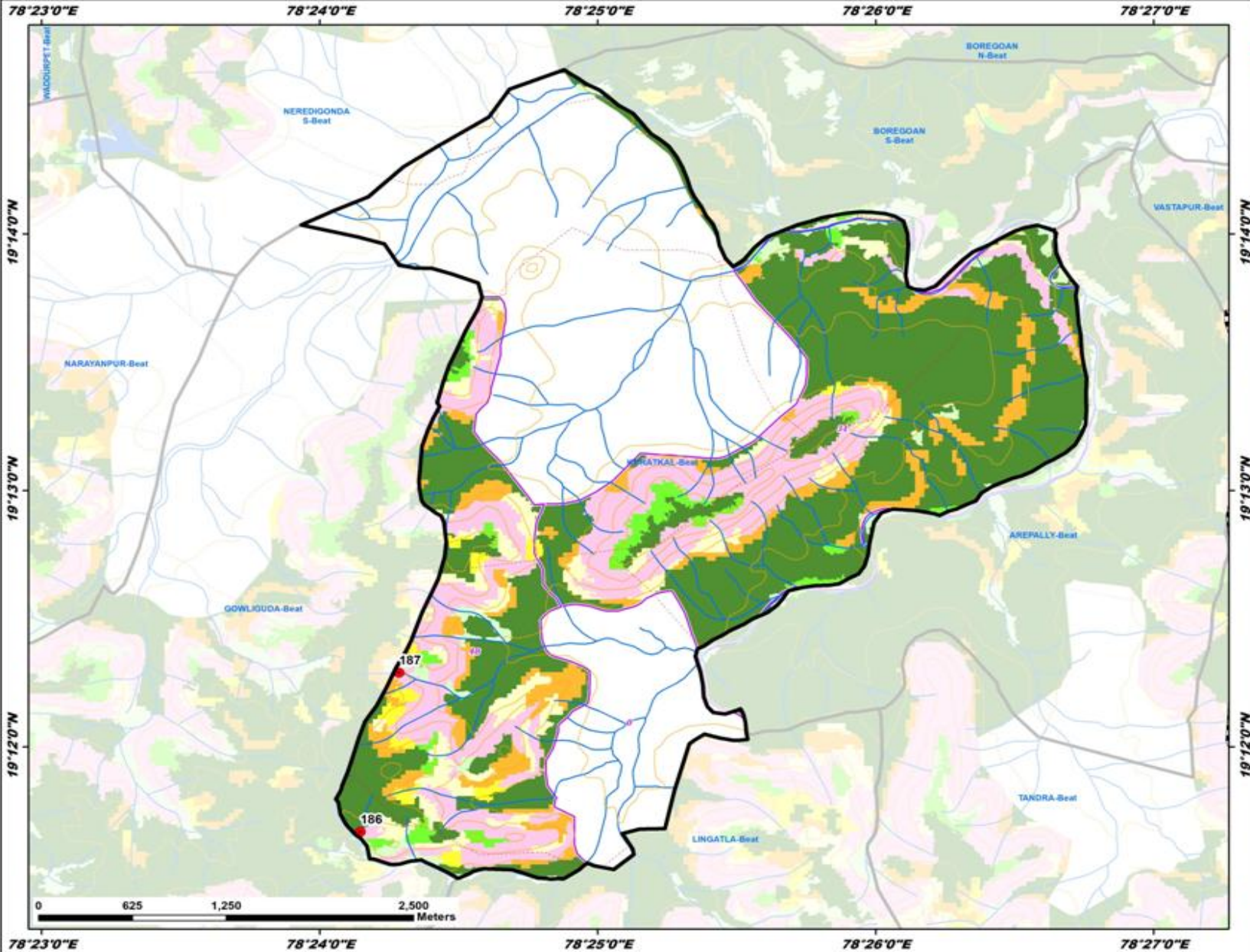
LEGEND

- 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 Koratkal Beat



Division : Echoda
Range : Neredigonda

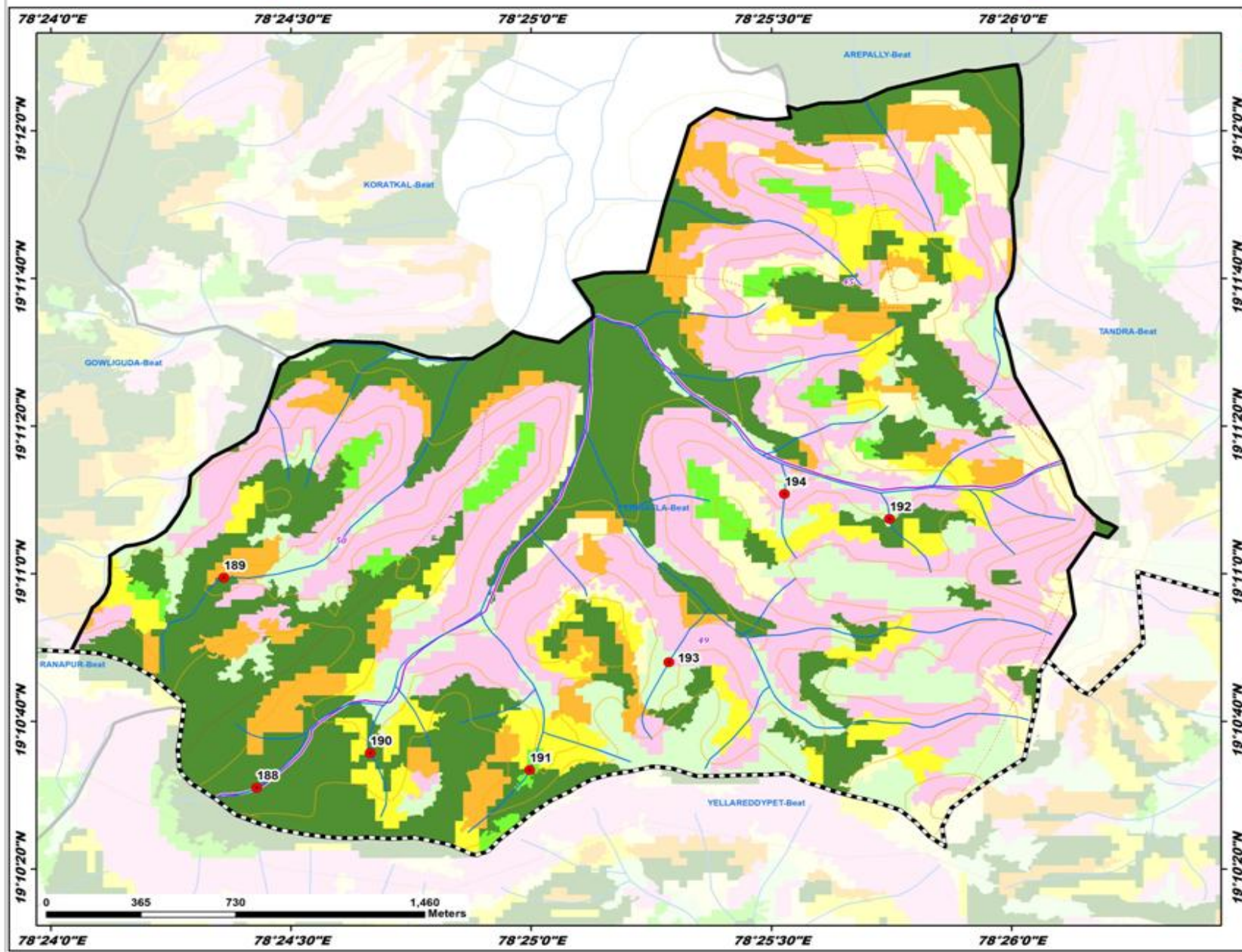
ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
186	19.194486	78.403437	7.18	I
187	19.204628	78.404750	5.68	IV

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

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

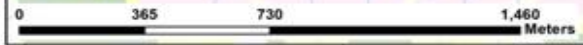


Division : Echoda
Range : Neredigonda



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
188	19.175286	78.407140	13.35	I
189	19.183183	78.405997	16.66	I
190	19.176591	78.413075	12.36	I
191	19.175949	78.416619	11.50	II
192	19.185399	78.429108	12.45	IV
193	19.180003	78.421447	10.87	IV
194	19.186335	78.425458	7.61	IV

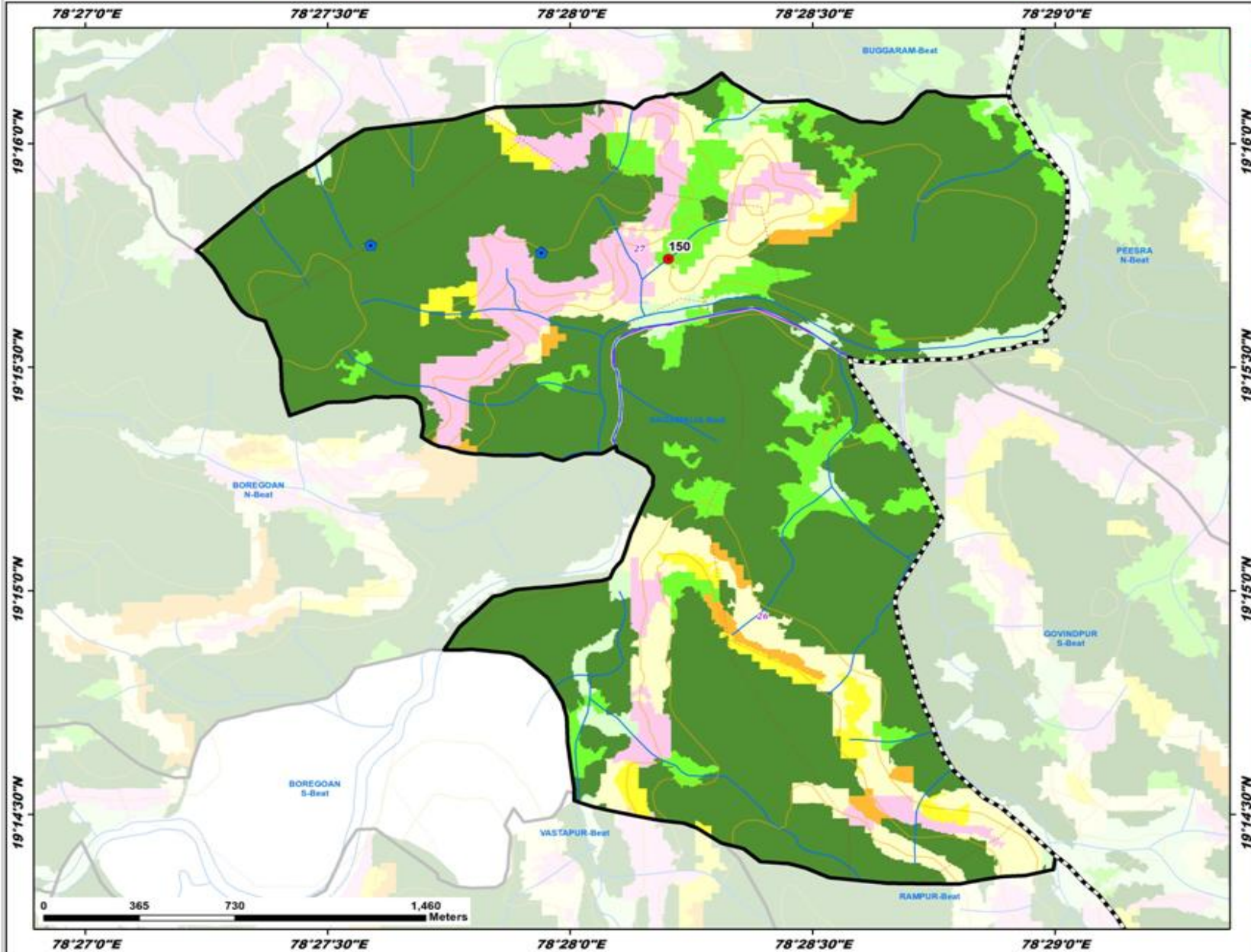
- LEGEND**
- Proposed PTs
 - Existing CD/PTs
 - Contours
 - Streams
 - Watershed Boundary
 - Compartment Boundary
 - ▭ Beat Boundary
 - ▭ Division Boundary
 - Suitability Index**
 - CCTs/SCTs - Highly Suitable
 - CCTs/SCTs - Moderately Suitable
 - CCTs/SCTs - Least Suitable
 - PTs - Highly Suitable
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



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



Division : Echoda
Range : Neredigonda



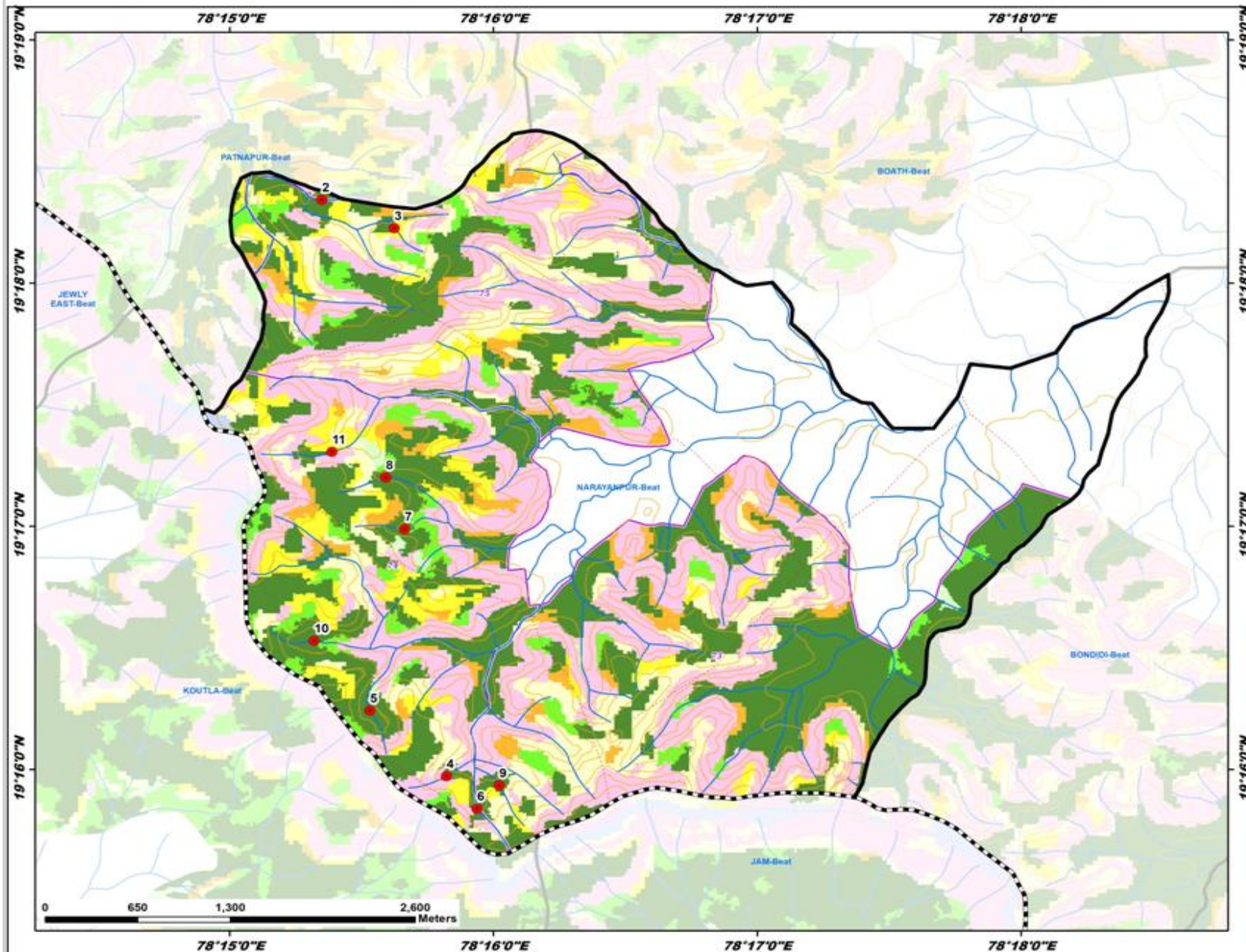
ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
150	19.262372	78.470045	9.02	II

- 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 Narayanpur Beat



Division : Echoda
Range : Boath & Neredigonda



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
2	19.305705	78.255841	7.90	I
3	19.303775	78.260401	7.81	I
4	19.266213	78.263702	9.38	I
5	19.270696	78.258871	15.23	I
6	19.263986	78.265636	10.58	I
7	19.283144	78.261063	14.08	I
8	19.286681	78.259866	8.07	I
9	19.265573	78.267034	8.18	I
10	19.275486	78.255344	22.43	II
11	19.288441	78.256466	28.92	II

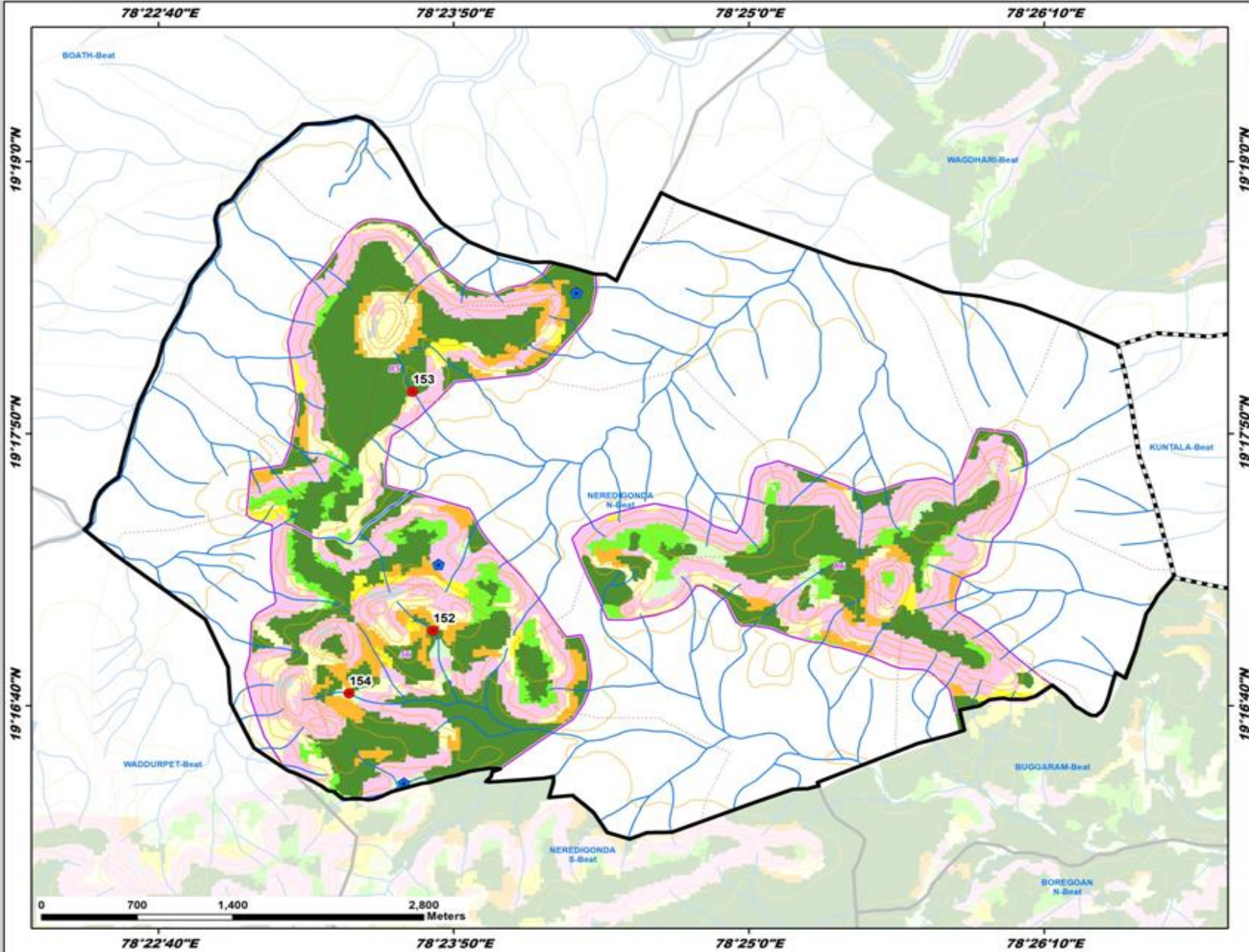
LEGEND

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

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



Division : Echoda
Range : Neredigonda



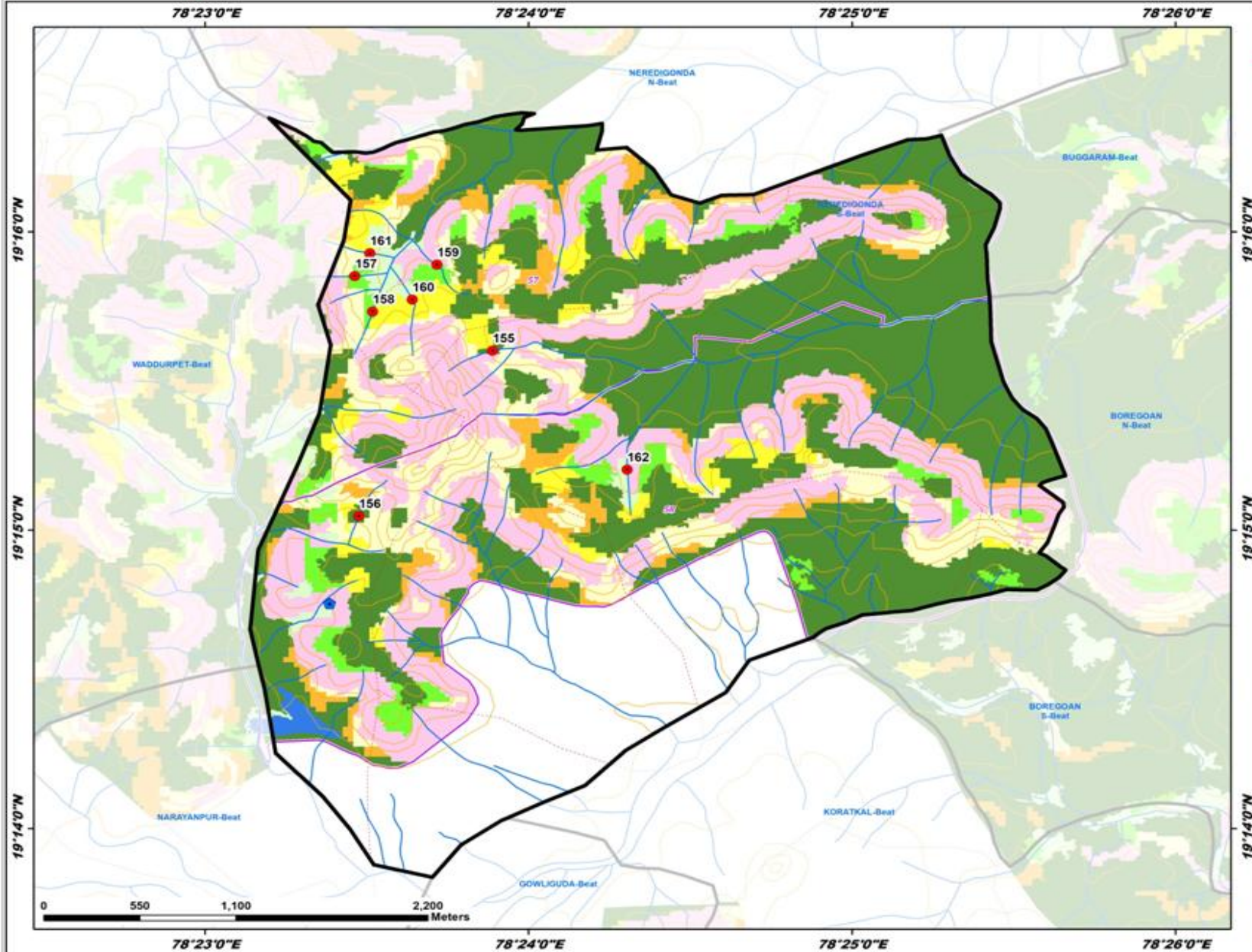
ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
152	19.283164	78.395877	13.37	I
153	19.300212	78.394523	6.13	I
154	19.278664	78.390334	16.86	IV

- 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 Neredigonda South Beat

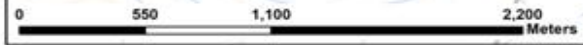


Division : Echoda
Range : Neredigonda



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
155	19.250039	78.398144	7.16	I
156	19.250800	78.391254	10.20	I
157	19.264202	78.393055	4.55	II
158	19.262224	78.391968	9.62	II
159	19.264841	78.395290	8.37	II
160	19.262893	78.394012	8.24	IV
161	19.265482	78.391827	8.40	IV
162	19.253398	78.405088	15.53	IV

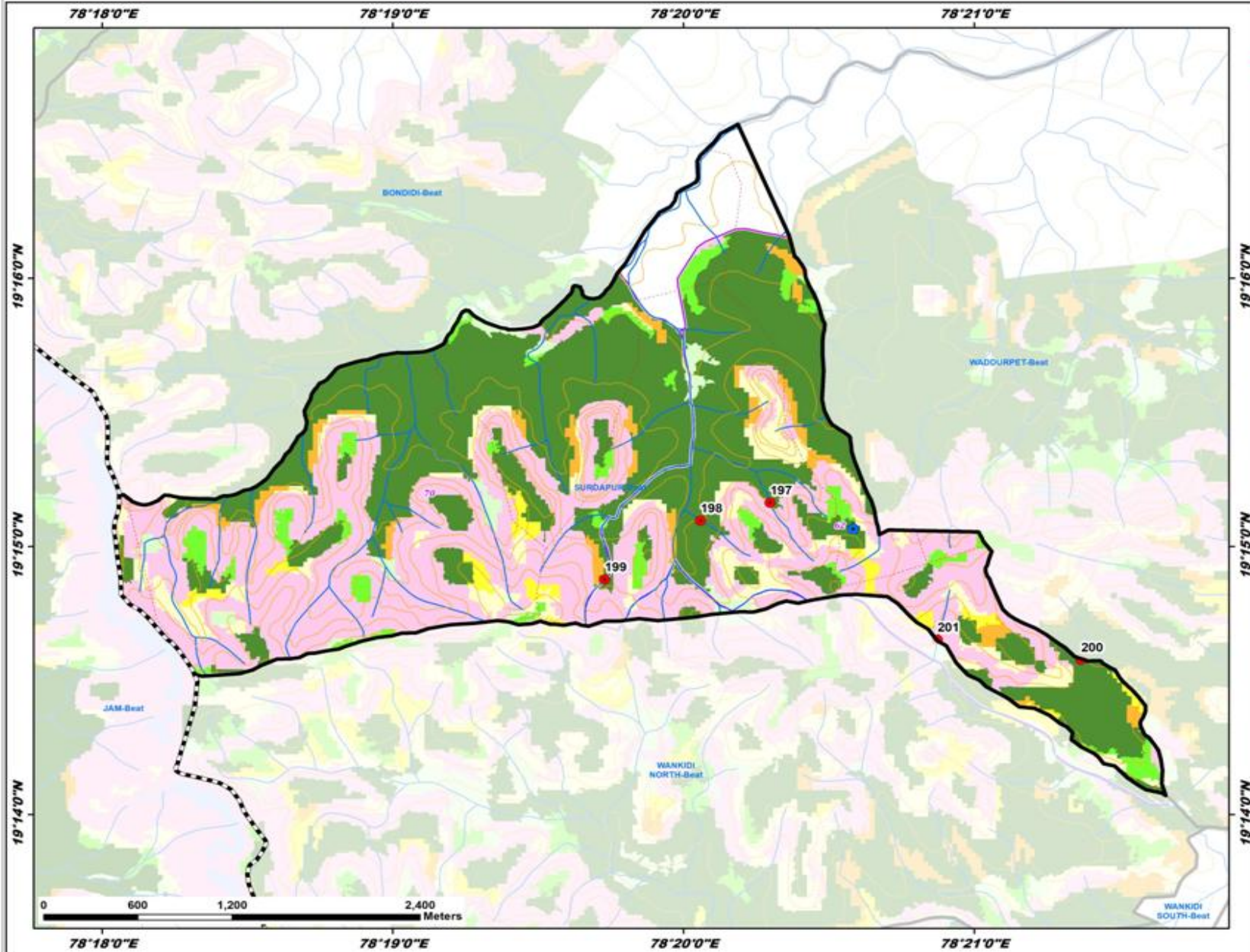
- LEGEND**
- Proposed PTs
 - Existing CD/PTs
 - Contours
 - Streams
 - Watershed Boundary
 - Compartment Boundary
 - ▭ Beat Boundary
 - ▭ Division Boundary
 - Suitability Index**
 - CCTs/SCTs - Highly Suitable
 - CCTs/SCTs - Moderately Suitable
 - CCTs/SCTs - Least Suitable
 - PTs - Highly Suitable
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



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



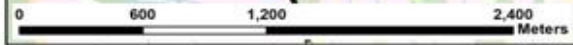
Division : Echoda
Range : Neredigonda



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
197	19.252714	78.338294	15.99	I
198	19.251609	78.334306	15.17	I
199	19.247958	78.328815	13.87	I
200	19.242961	78.356131	34.29	II
201	19.244210	78.347896	18.28	IV

LEGEND

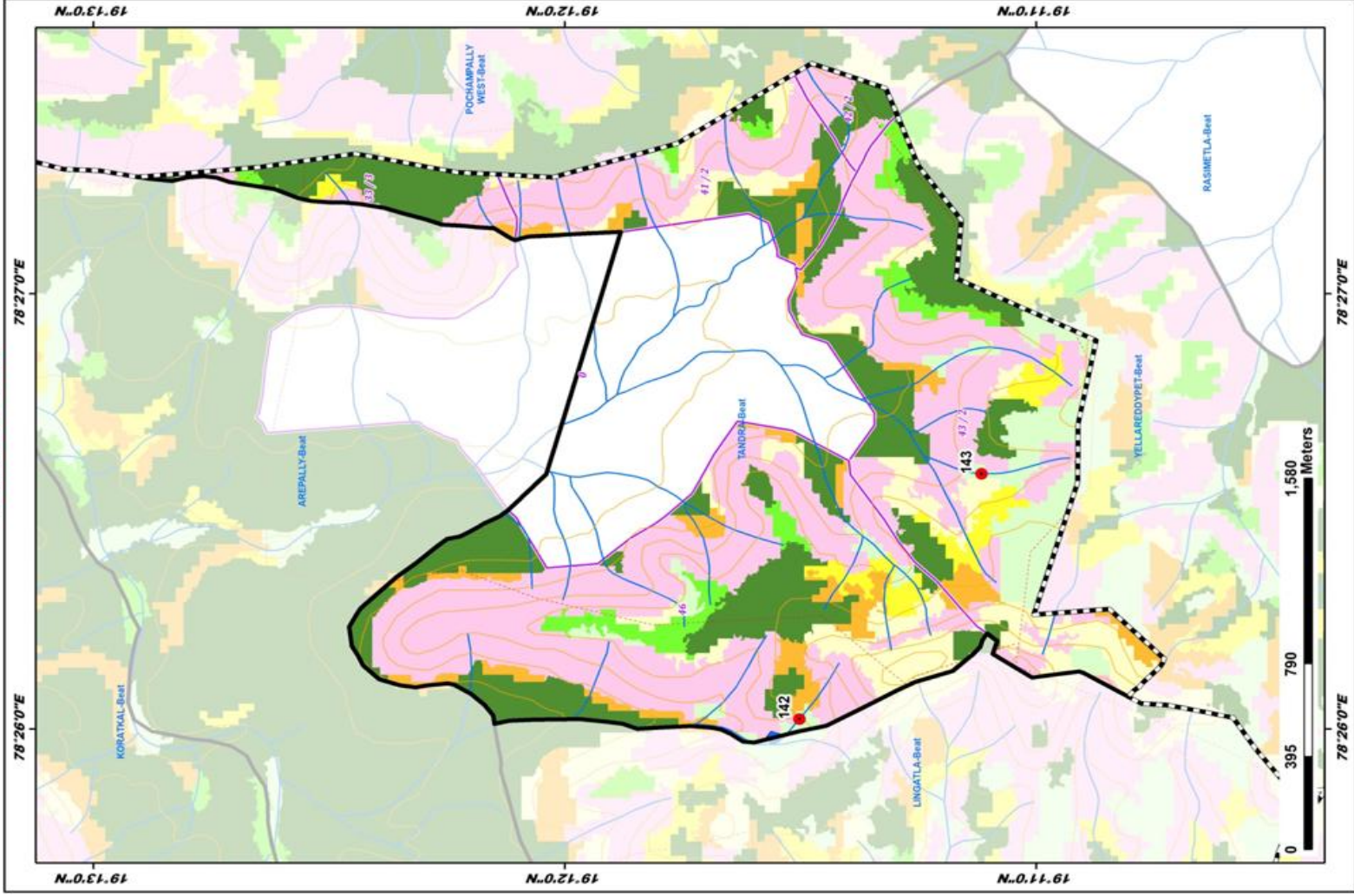
- Proposed PTs
- Existing CD/PTs
- Contours
- Streams
- Watershed Boundary
- Compartment Boundary
- ▭ Beat Boundary
- ▭ Division Boundary
- Suitability Index**
- CCTs/SCTs - Highly Suitable
- CCTs/SCTs - Moderately Suitable
- CCTs/SCTs - Least Suitable
- PTs - Highly Suitable
- PTs - Moderately Suitable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



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



Division : Echoda
Range : Neredigonda



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
142	19.191696	78.433725	7.61	IV
143	19.185255	78.443113	14.74	IV

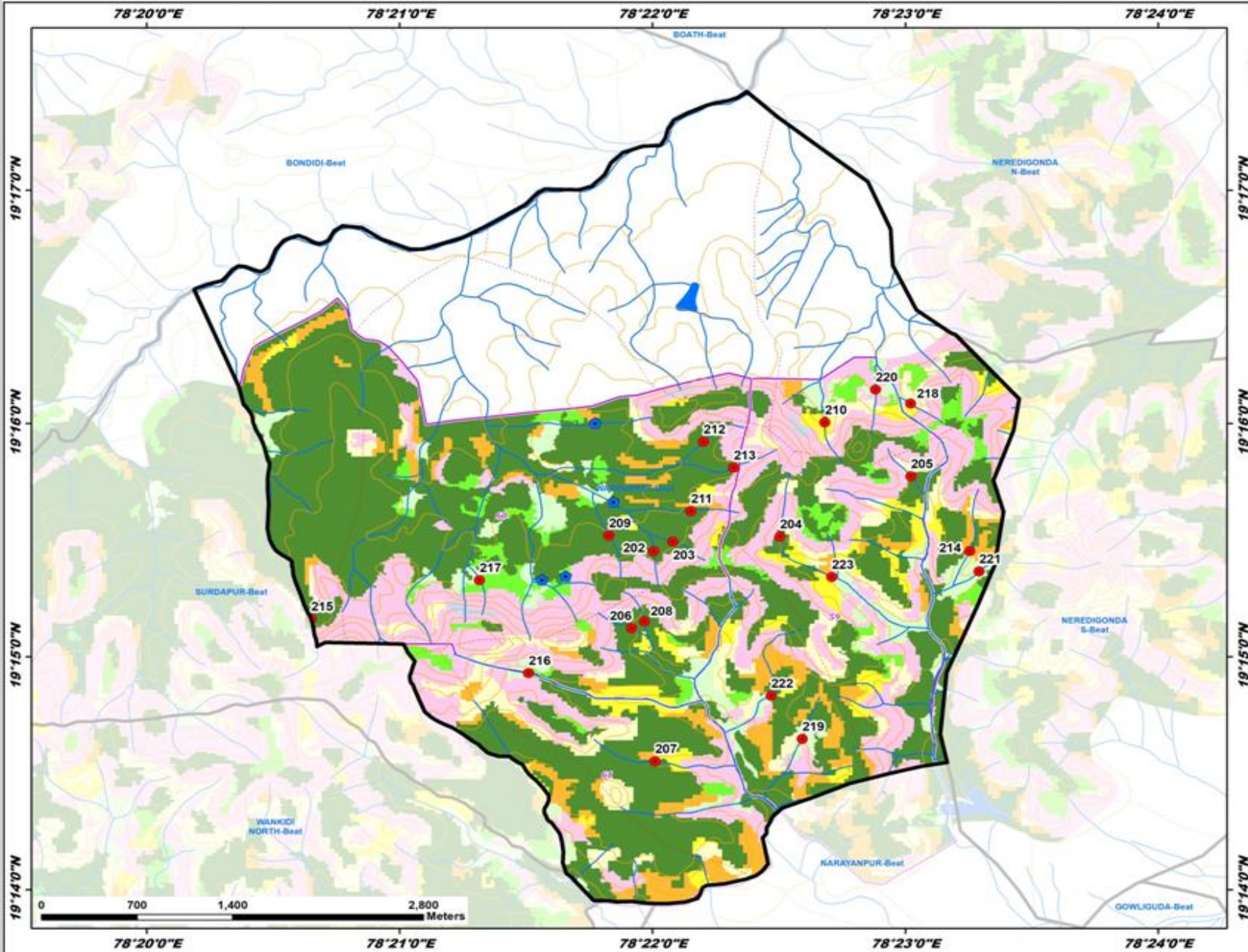
LEGEND

- Proposed PTs (Red dot)
 - Existing CD/PTs (Blue dot)
 - Contours (Brown line)
 - Streams (Blue line)
 - Watershed Boundary (Dotted line)
 - Compartment Boundary (Purple dashed line)
 - Beat Boundary (Black solid line)
 - Division Boundary (Black dashed 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 (Pink)
 - MPTs and SGP's - Suitable (Light Blue)
 - Not Suitable (Light Blue)
 - Water Body (Dark Blue)

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



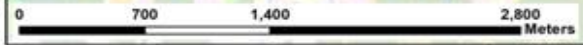
Division : Echoda
Range : Neredigonda



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
202	19.257550	78.366762	7.81	I
203	19.258226	78.368017	9.53	I
204	19.258588	78.375081	18.87	I
205	19.262912	78.383718	11.24	I
206	19.252049	78.365308	7.59	I
207	19.242541	78.366850	18.74	I
208	19.252542	78.366138	9.82	I
209	19.258663	78.363806	8.65	I
210	19.266752	78.378035	13.33	I
211	19.260416	78.369210	14.58	I
212	19.265377	78.370027	20.94	I
213	19.263517	78.372022	11.73	I
214	19.257566	78.387595	19.43	I
215	19.252706	78.344172	29.08	II
216	19.248840	78.358505	25.27	III
217	19.255472	78.355276	5.69	IV
218	19.268096	78.383690	6.59	IV
219	19.244130	78.376550	13.59	IV
220	19.269106	78.381373	9.69	IV
221	19.256112	78.388218	43.45	V
222	19.247211	78.374490	29.32	V
223	19.255700	78.378492	49.36	V

LEGEND

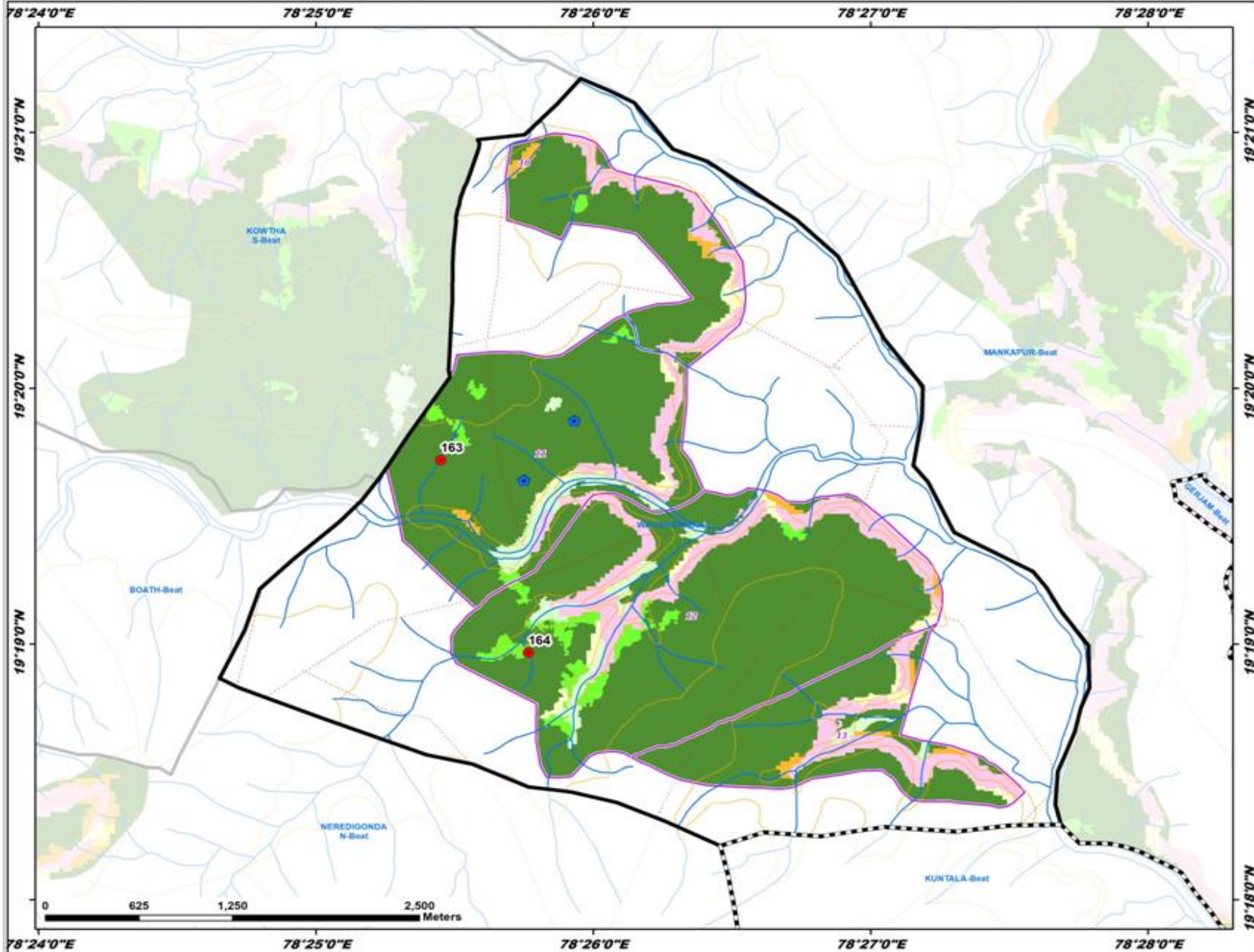
- Proposed PTs
- Existing CD/PTs
- Contours
- Streams
- Watershed Boundary
- Compartment Boundary
- ▭ Beat Boundary
- ▭ Division Boundary
- Suitability Index**
- CCTs/SCTs - Highly Suitable
- CCTs/SCTs - Moderately Suitable
- CCTs/SCTs - Least Suitable
- PTs - Highly Suitable
- PTs - Moderately Suitable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



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



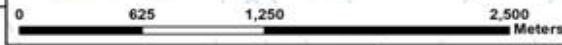
Division : Echoda
Range : Neredigonda



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
163	19.329663	78.424177	18.11	I
164	19.316112	78.429440	12.56	I

LEGEND

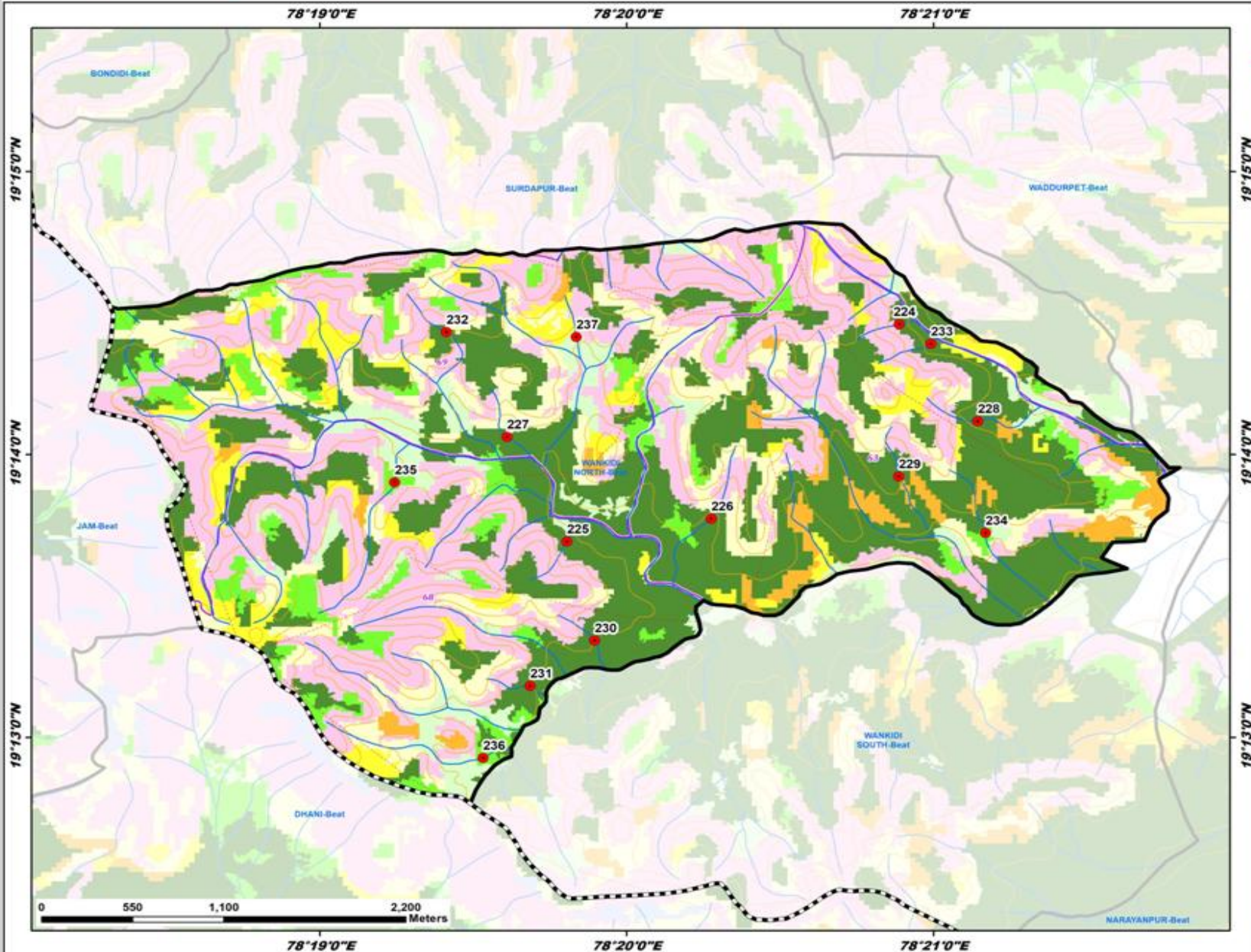
- Proposed PTs
- Existing CD/PTs
- Contours
- Streams
- Watershed Boundary
- Compartment Boundary
- Beat Boundary
- Division Boundary
- Suitability Index**
- CCTs/SCTs - Highly Suitable
- CCTs/SCTs - Moderately Suitable
- CCTs/SCTs - Least Suitable
- PTs - Highly Suitable
- PTs - Moderately Suitable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



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



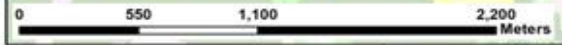
Division : Echoda
Range : Neredigonda



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
224	19.241020	78.348146	5.69	I
225	19.228215	78.330094	8.61	I
226	19.229564	78.337932	19.04	I
227	19.234376	78.326846	7.20	I
228	19.235312	78.352416	13.61	I
229	19.232045	78.348120	10.70	I
230	19.222990	78.331597	7.78	I
231	19.219709	78.328108	7.28	I
232	19.240555	78.329538	9.19	I
233	19.238867	78.349870	12.97	I
234	19.228726	78.352843	14.22	II
235	19.231702	78.320744	33.31	III
236	19.215468	78.325547	31.48	III
237	19.240272	78.330603	14.62	IV

LEGEND

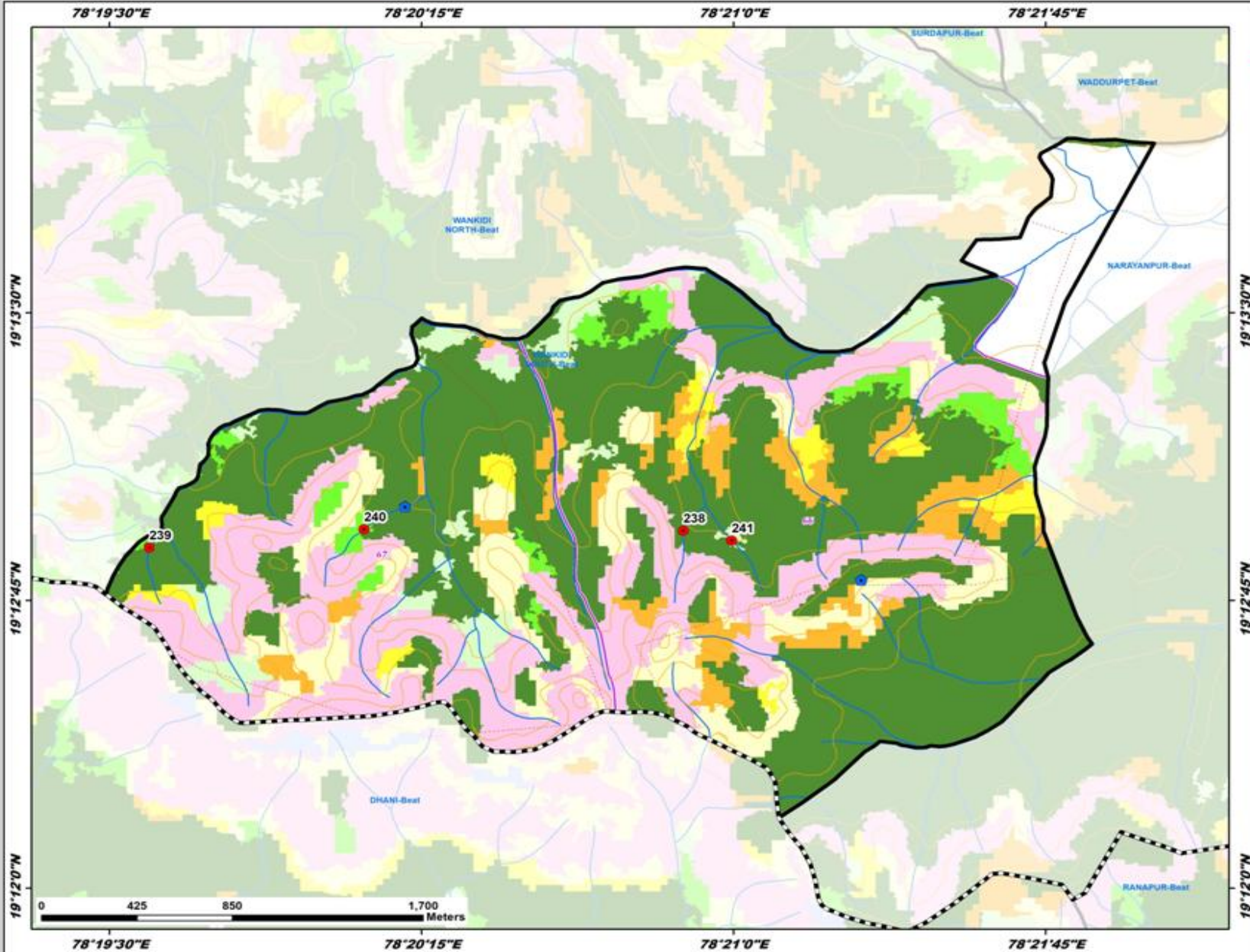
- Proposed PTs
- Existing CD/PTs
- Contours
- Streams
- Watershed Boundary
- Compartment Boundary
- ⬢ Beat Boundary
- ⬢ Division Boundary
- Suitability Index**
- CCTs/SCTs - Highly Suitable
- CCTs/SCTs - Moderately Suitable
- CCTs/SCTs - Least Suitable
- PTs - Highly Suitable
- PTs - Moderately Suitable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



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



Division : Echoda
Range : Neredigonda



ID	Latitude	Longitude	Catchment Area Ha	PRIORITY
238	19.215532	78.347987	11.06	I
239	19.214799	78.326595	11.05	I
240	19.215596	78.335202	13.41	I
241	19.215104	78.349929	15.80	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

