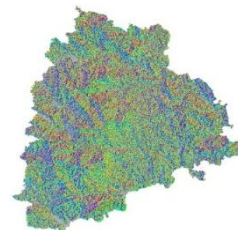
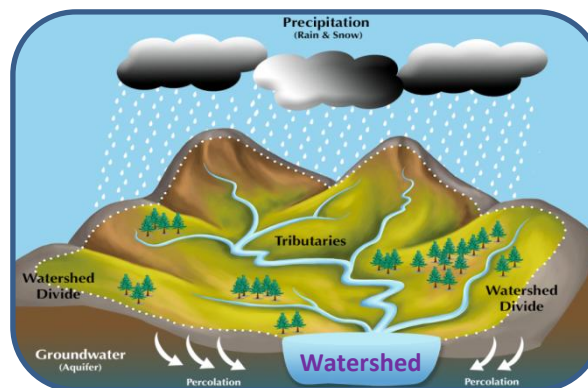


Government of Telangana – Forest Department



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

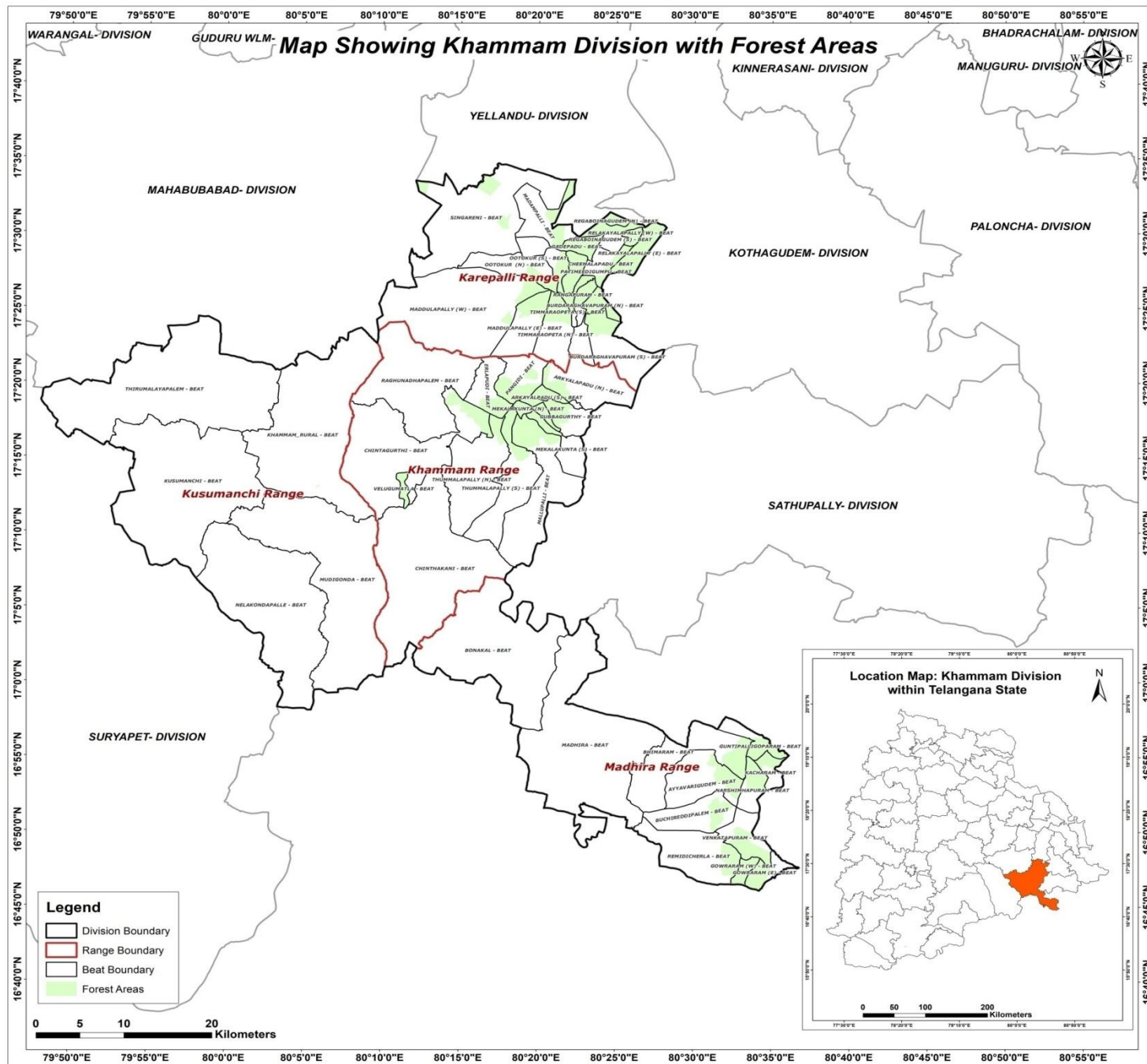




SITE SUITABILITY ANALYSIS FOR WATER HARVESTING STRUCTURES USING REMOTE SENSING & GIS

Circle: Bhadradi
District: Khammam
Division: Khammam

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



METHODOLOGY

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

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



FLOW CHART FOR METHODOLOGY



Guidelines for building Percolation Tanks:

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



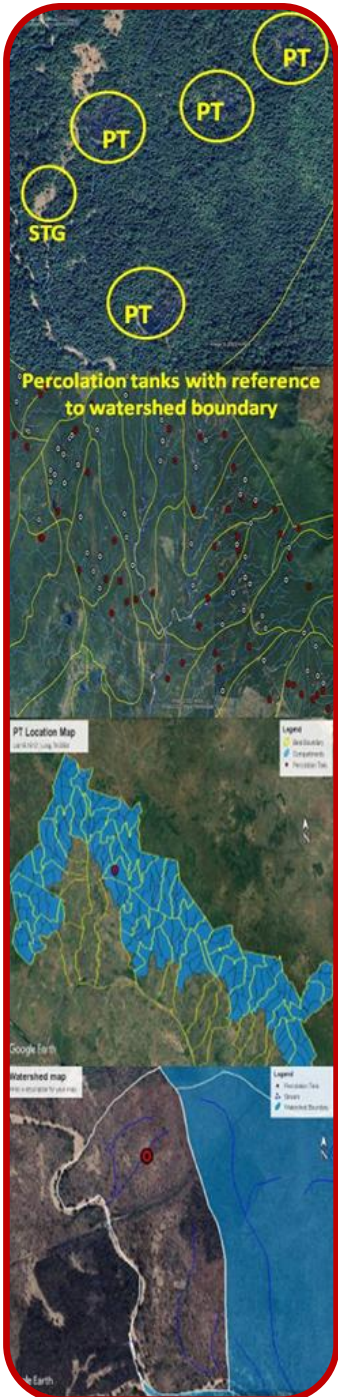
Suitability criteria for Check-Dams and Percolation Tanks (SITE SUITABILITY INDEX)

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

Suitability criteria for Continuous/Staggered contour trenches

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





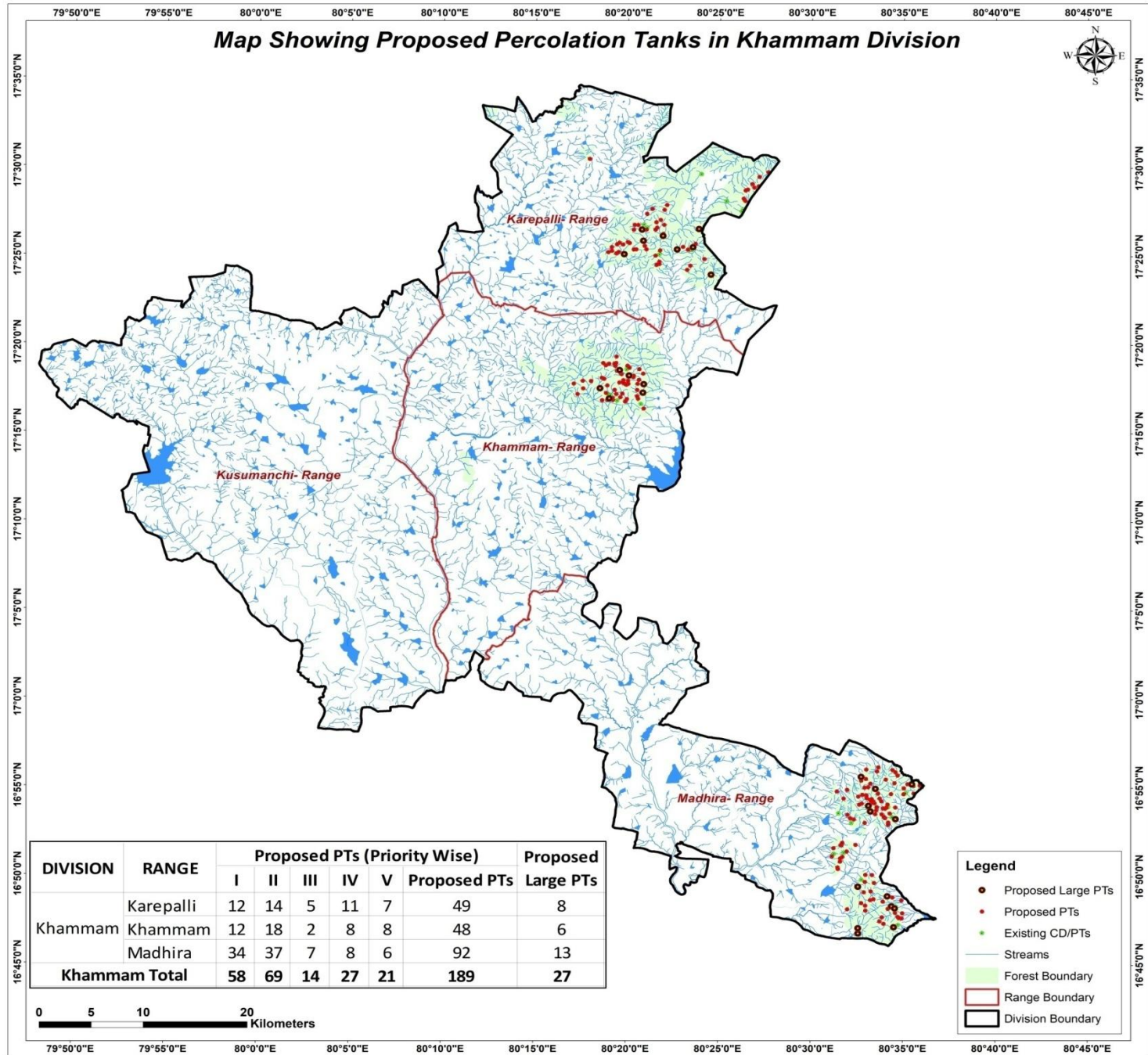
PRIORITY CLASSES FOR PERCOLATION TANK

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





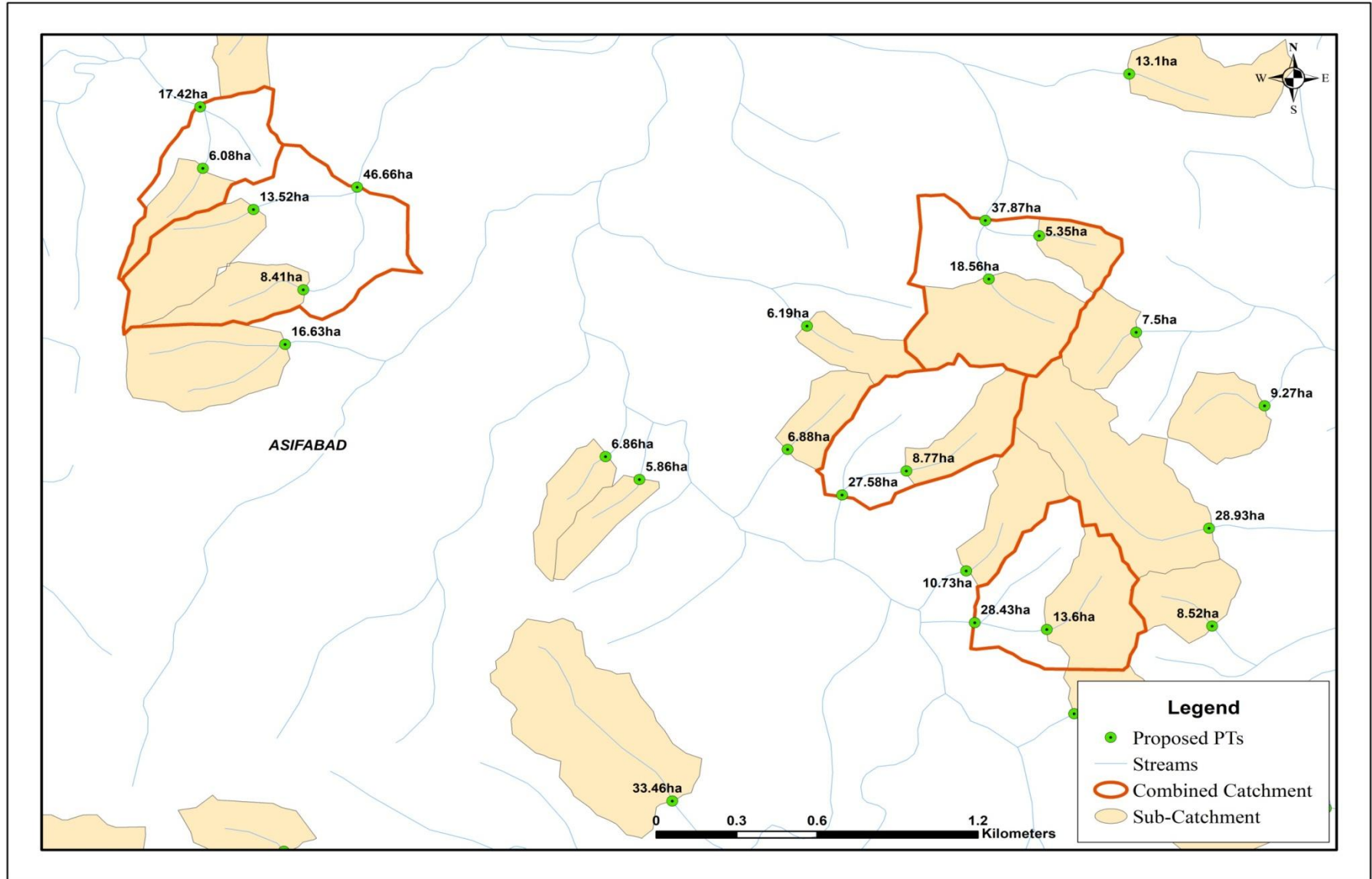
Map Showing Proposed Percolation Tanks in Khammam Division



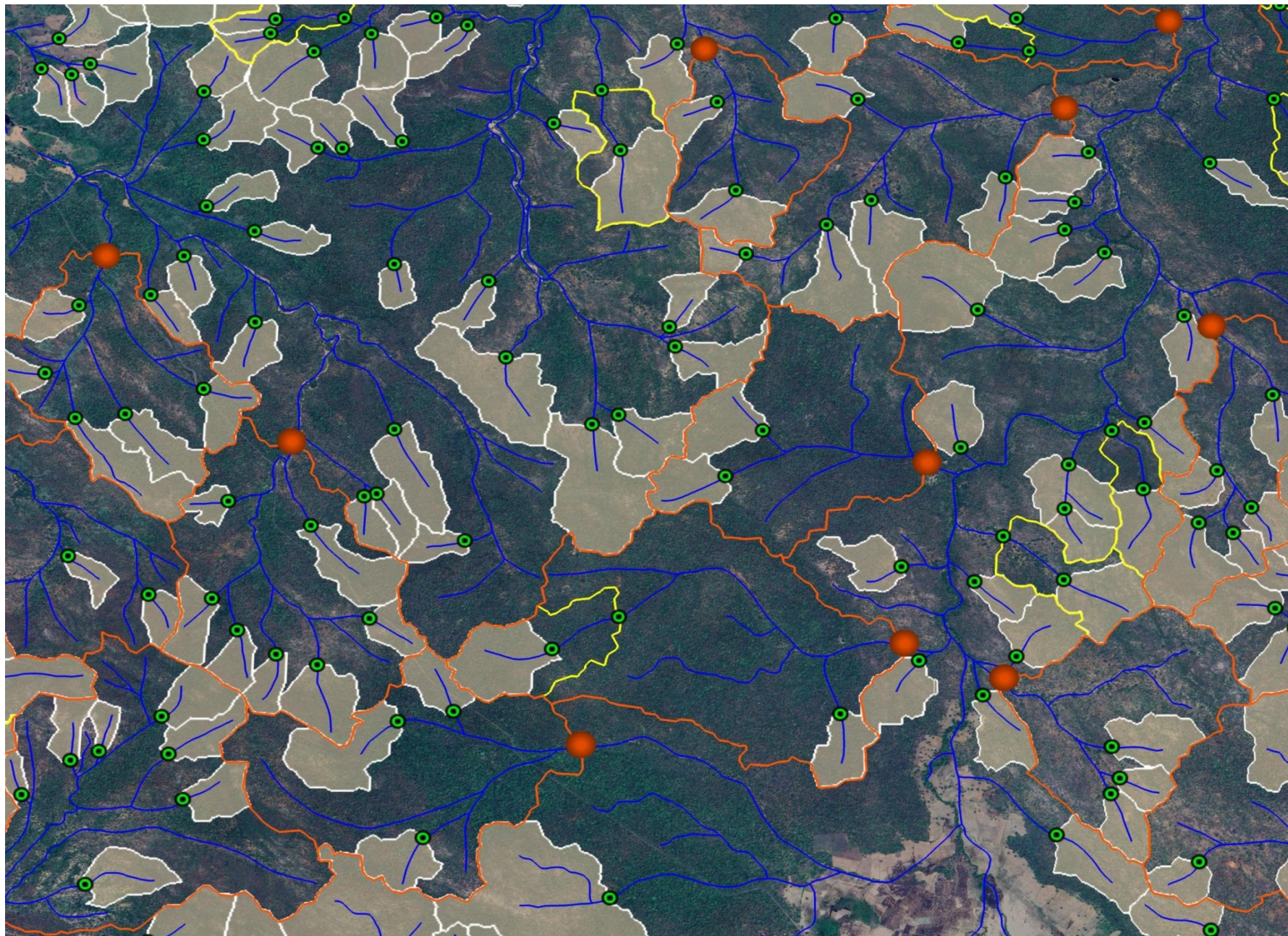
DIVISION	RANGE	Proposed PTs (Priority Wise)					Proposed PTs	Proposed Large PTs
		I	II	III	IV	V		
Khammam	Karepalli	12	14	5	11	7	49	8
	Khammam	12	18	2	8	8	48	6
	Madhira	34	37	7	8	6	92	13
Khammam Total		58	69	14	27	21	189	27

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

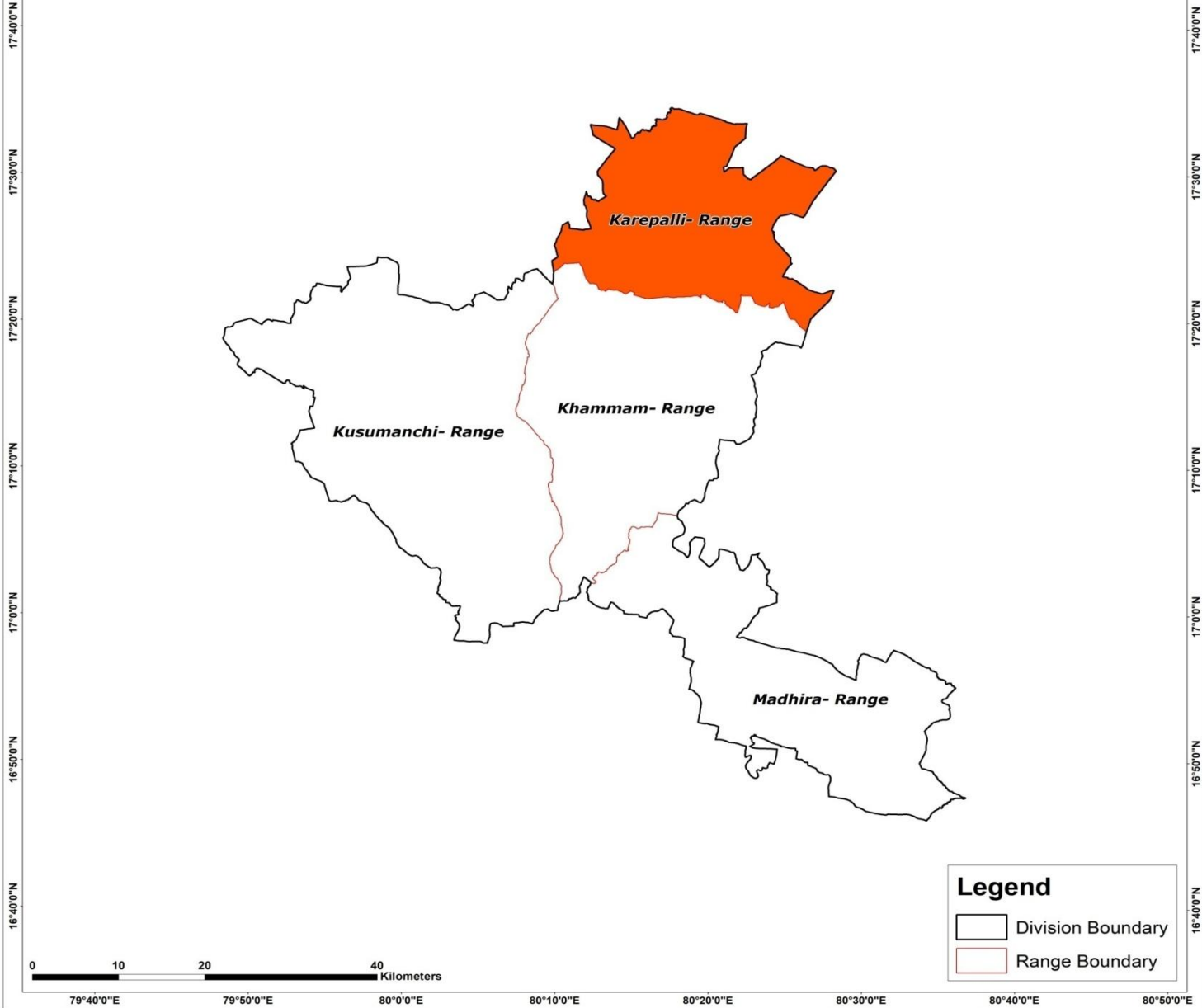
CATCHMENT AREA



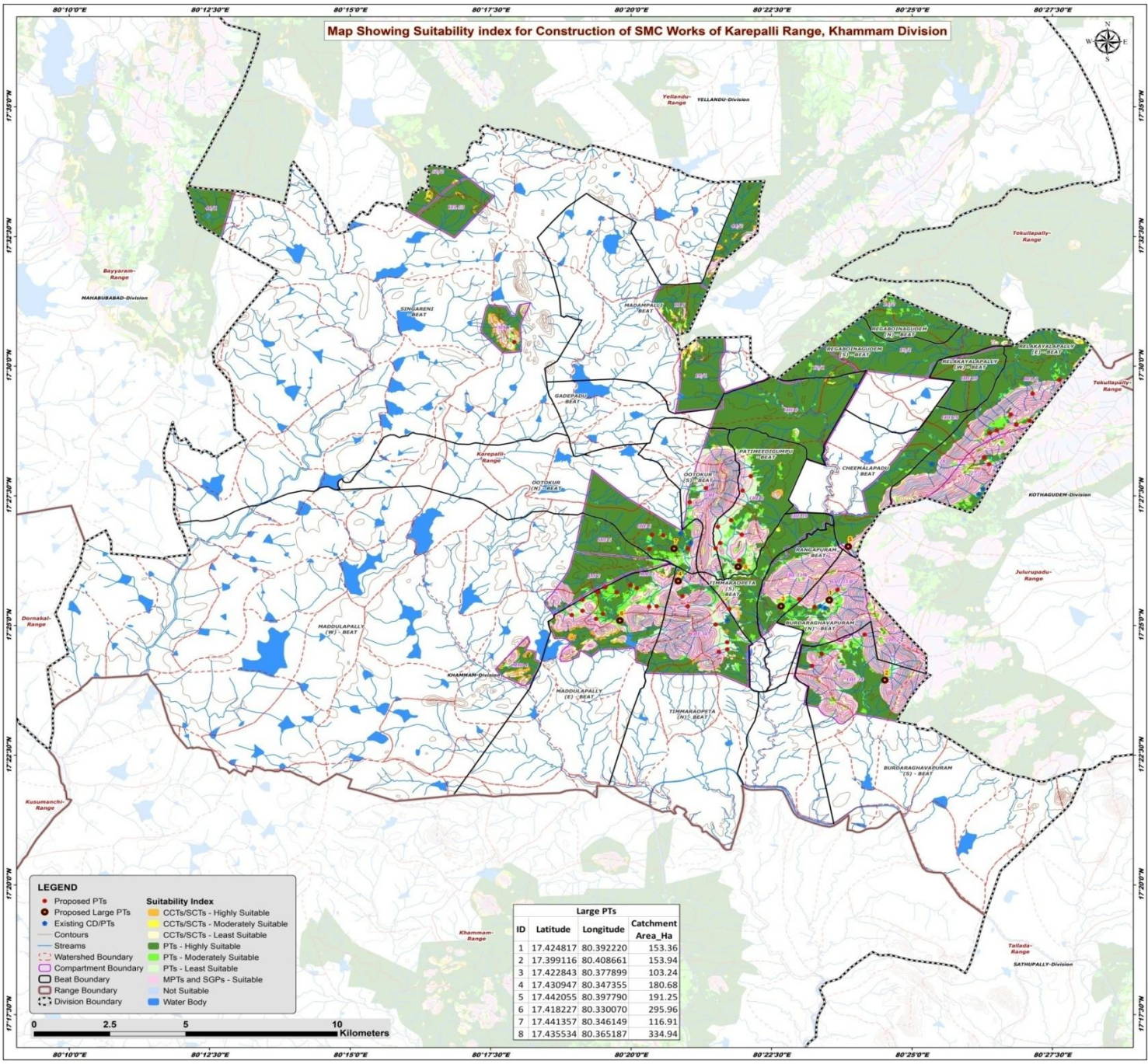
Sample Catchment Map



Map Showing Karepalli Range in Khammam Division



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



LEGEND

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

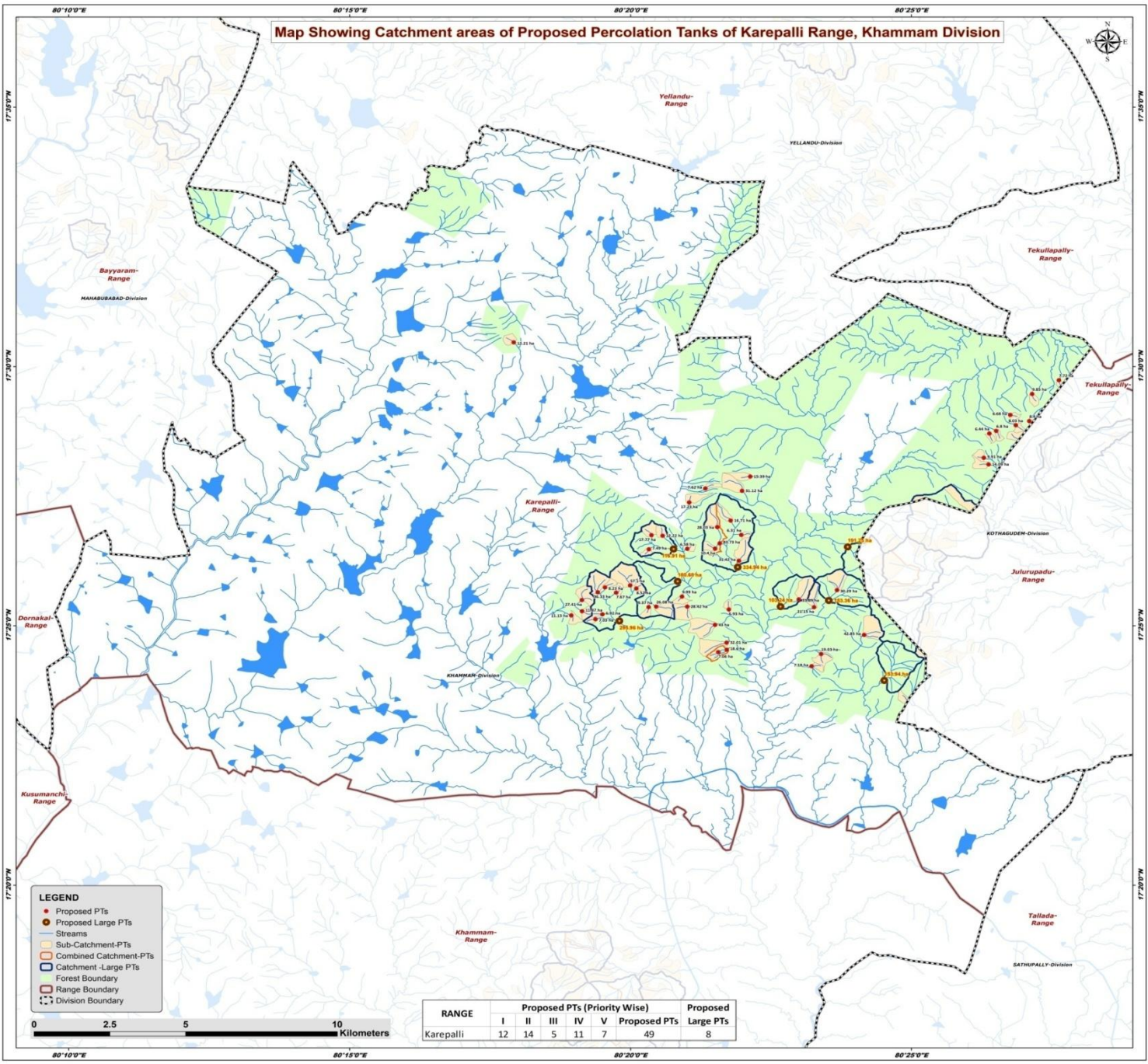
Suitability Index

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

Large PTs			
ID	Latitude	Longitude	Catchment Area_Ha
1	17.424817	80.392220	153.36
2	17.399116	80.408661	153.94
3	17.422843	80.377899	103.24
4	17.430947	80.347355	180.68
5	17.442055	80.397790	191.25
6	17.418227	80.330070	295.96
7	17.441357	80.346149	116.91
8	17.435534	80.365187	334.94

0 2.5 5 10 Kilometers

Map Showing Catchment areas of Proposed Percolation Tanks of Karepalli Range, Khammam 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	Proposed PTs	
Karepalli	12	14	5	11	7	49	8

Beat wise Abstract of Proposed PT's – Karepalli Range

S. No.	Beat	Proposed PT's
1	BURDARAGHAVAPURAM NORTH	2
2	BURDARAGHAVAPURAM SOUTH	3
3	MADDULAPALLY EAST	12
4	OOTOKUR NORTH	4
5	OOTOKUR SOUTH	2
6	PATIMEEDIGUMPU	8
7	RANGAPURAM	1
8	RELAKAYALAPALLY EAST	9
9	SINGARENI SOUTH	1
10	TIMMARAOPETA NORTH	6
11	TIMMARAOPETA SOUTH	1
	Total	49

List of Proposed PTs – Karepalli Range

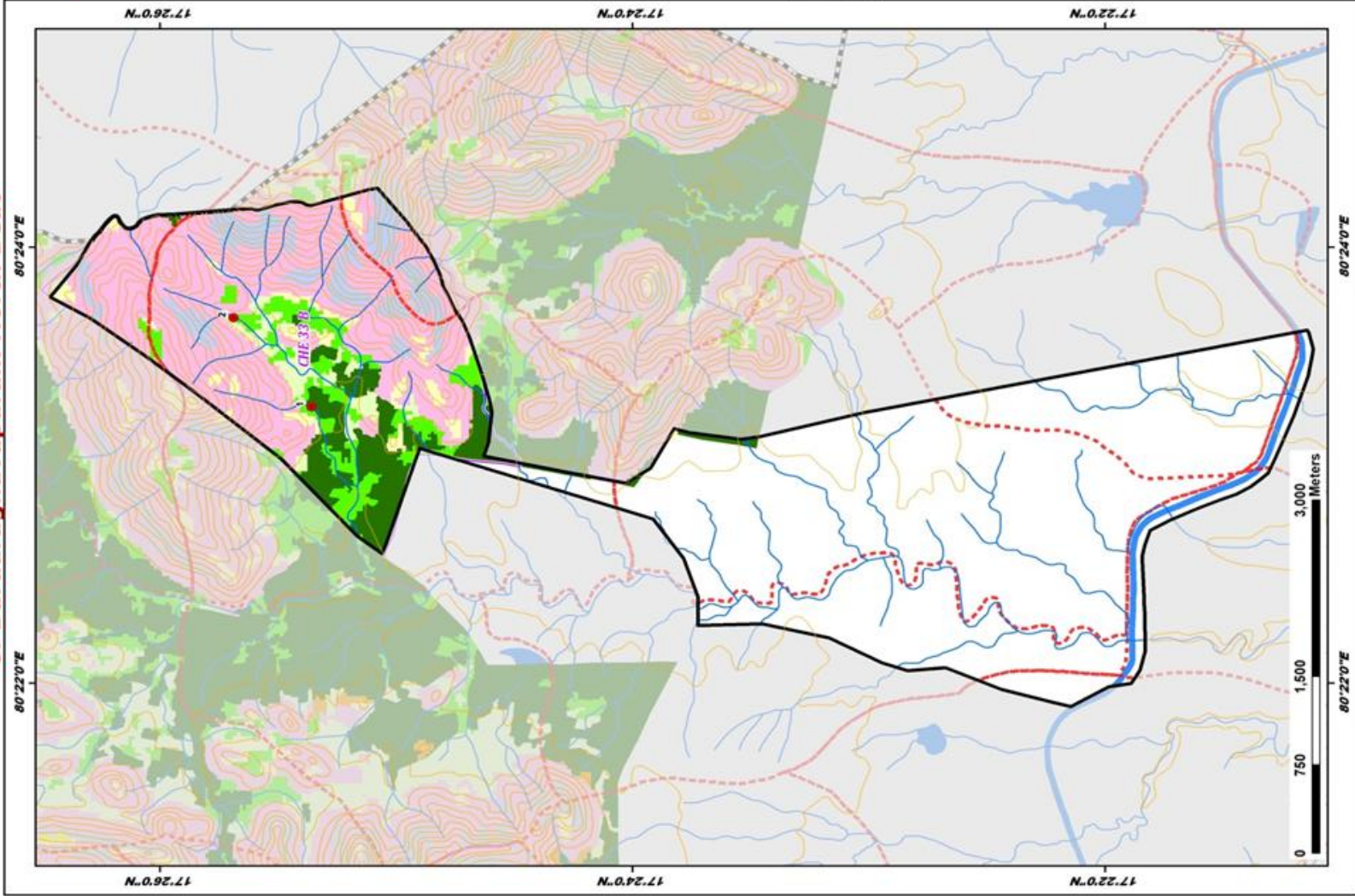
ID	Latitude	Longitude	Catchment Area_Ha	Priority	Beat
1	17.422647	80.387822	21.15	II	BURDARAGHAVAPURAM NORTH
2	17.428141	80.394628	30.29	III	BURDARAGHAVAPURAM NORTH
3	17.407625	80.389924	19.03	I	BURDARAGHAVAPURAM SOUTH
4	17.413765	80.402661	42.85	III	BURDARAGHAVAPURAM SOUTH
5	17.403688	80.387103	7.18	IV	BURDARAGHAVAPURAM SOUTH
6	17.425181	80.383297	33.89	III	RANGAPURAM
7	17.426093	80.348649	9.99	I	TIMMARAOPETA NORTH
8	17.408222	80.359445	7.06	IV	TIMMARAOPETA NORTH
9	17.408998	80.361928	18.60	IV	TIMMARAOPETA NORTH
10	17.411279	80.361903	32.01	V	TIMMARAOPETA NORTH
11	17.416969	80.358485	43.00	V	TIMMARAOPETA NORTH
12	17.422860	80.350225	28.42	V	TIMMARAOPETA NORTH
13	17.421930	80.362562	6.93	IV	TIMMARAOPETA SOUTH
14	17.437600	80.365537	31.42	II	PATIMEEDIGUMPU
15	17.450501	80.363086	16.71	II	PATIMEEDIGUMPU
16	17.445900	80.366254	6.31	IV	PATIMEEDIGUMPU
17	17.464641	80.368913	15.39	IV	PATIMEEDIGUMPU
18	17.441474	80.358460	10.40	IV	PATIMEEDIGUMPU
19	17.460053	80.366491	31.12	V	PATIMEEDIGUMPU
20	17.443196	80.359862	83.73	V	PATIMEEDIGUMPU
21	17.448407	80.359132	28.03	V	PATIMEEDIGUMPU
22	17.478481	80.439826	6.44	I	RELAKAYALAPALLY EAST
23	17.479304	80.441839	6.80	I	RELAKAYALAPALLY EAST
24	17.470675	80.438186	9.91	I	RELAKAYALAPALLY EAST
25	17.495602	80.460475	7.72	I	RELAKAYALAPALLY EAST
26	17.484462	80.446033	6.68	I	RELAKAYALAPALLY EAST
27	17.481120	80.447694	8.03	I	RELAKAYALAPALLY EAST
28	17.482481	80.451672	8.40	II	RELAKAYALAPALLY EAST
29	17.468544	80.439625	14.09	II	RELAKAYALAPALLY EAST
30	17.491205	80.452504	9.85	II	RELAKAYALAPALLY EAST
31	17.507761	80.298744	12.21	II	SINGARENI SOUTH
32	17.420361	80.325069	6.92	I	MADDULAPALLY EAST
33	17.427352	80.329116	7.67	I	MADDULAPALLY EAST
34	17.427438	80.323666	36.33	II	MADDULAPALLY EAST
35	17.420036	80.315803	11.13	II	MADDULAPALLY EAST
36	17.428688	80.335108	8.52	II	MADDULAPALLY EAST
37	17.429005	80.325806	8.23	II	MADDULAPALLY EAST
38	17.424943	80.318942	27.41	III	MADDULAPALLY EAST
39	17.429649	80.333276	57.10	III	MADDULAPALLY EAST
40	17.422681	80.338772	9.37	IV	MADDULAPALLY EAST

ID	Latitude	Longitude	Catchment Area_Ha	Priority	Beat
41	17.421353	80.319008	11.87	IV	MADDULAPALLY EAST
42	17.418806	80.322985	7.03	IV	MADDULAPALLY EAST
43	17.422857	80.341020	26.08	V	MADDULAPALLY EAST
44	17.441411	80.350203	6.58	I	OOTOKUR NORTH
45	17.441265	80.338850	7.49	I	OOTOKUR NORTH
46	17.445628	80.342899	12.22	II	OOTOKUR NORTH
47	17.445804	80.339609	17.77	II	OOTOKUR NORTH
48	17.456313	80.350780	17.23	II	OOTOKUR SOUTH
49	17.460824	80.355586	7.62	IV	OOTOKUR SOUTH

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



Division : Khammam
Range : Karepalli



ID	Latitude	Longitude	Catchment Area_Ha	PRIORITY
1	17.427647	80.387822	21.15	II
2	17.428141	80.394628	30.29	III

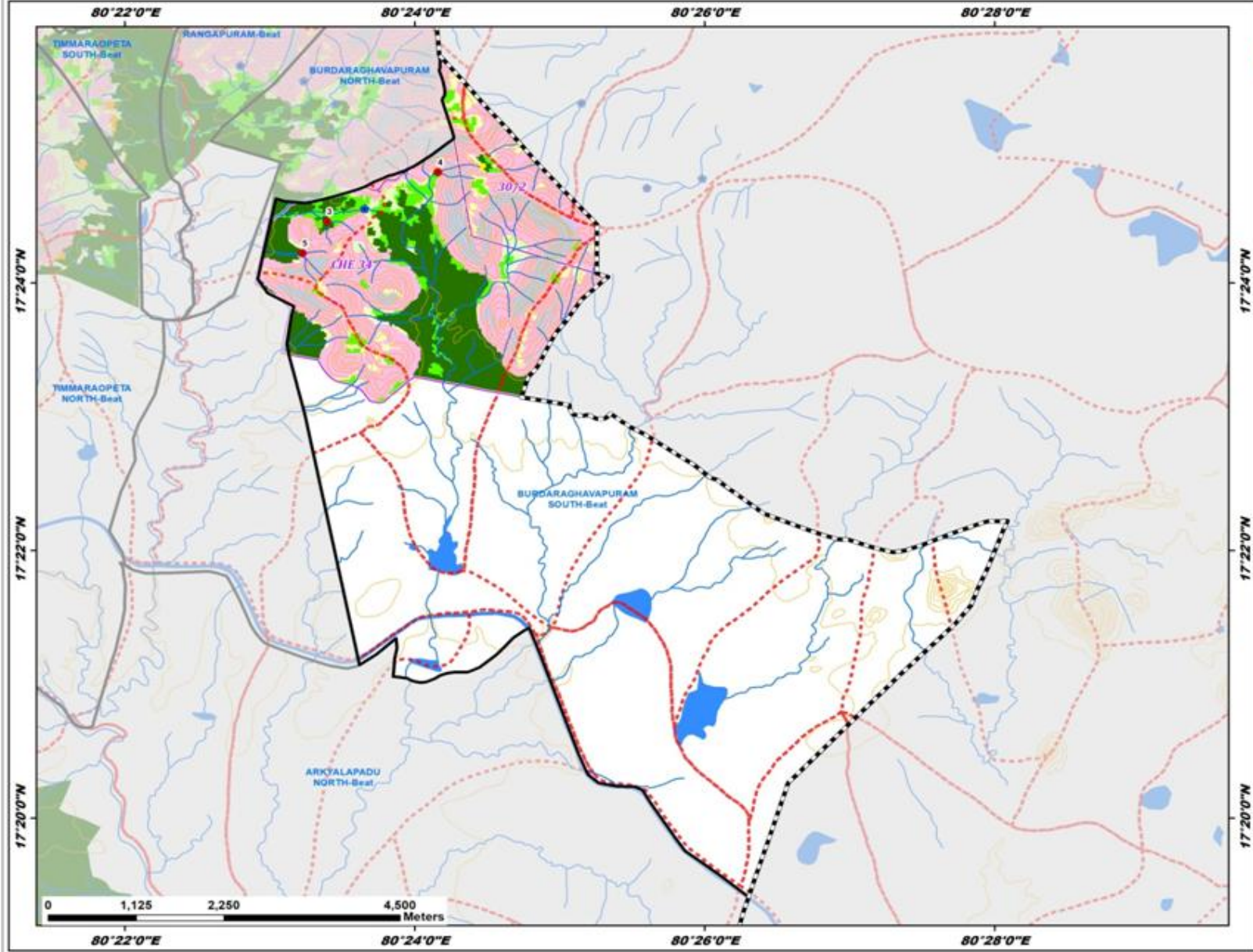
LEGEND

- 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
 - MIPs and SGPs - Suitable
 - Not Suitable
 - Water Body

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



Division : Khammam
Range : Karepalli



ID	Latitude	Longitude	Catchment Area_Ha	PRIORITY
3	17.407625	80.389924	19.03	I
4	17.413765	80.402661	42.85	III
5	17.403688	80.387103	7.18	IV

Legend

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

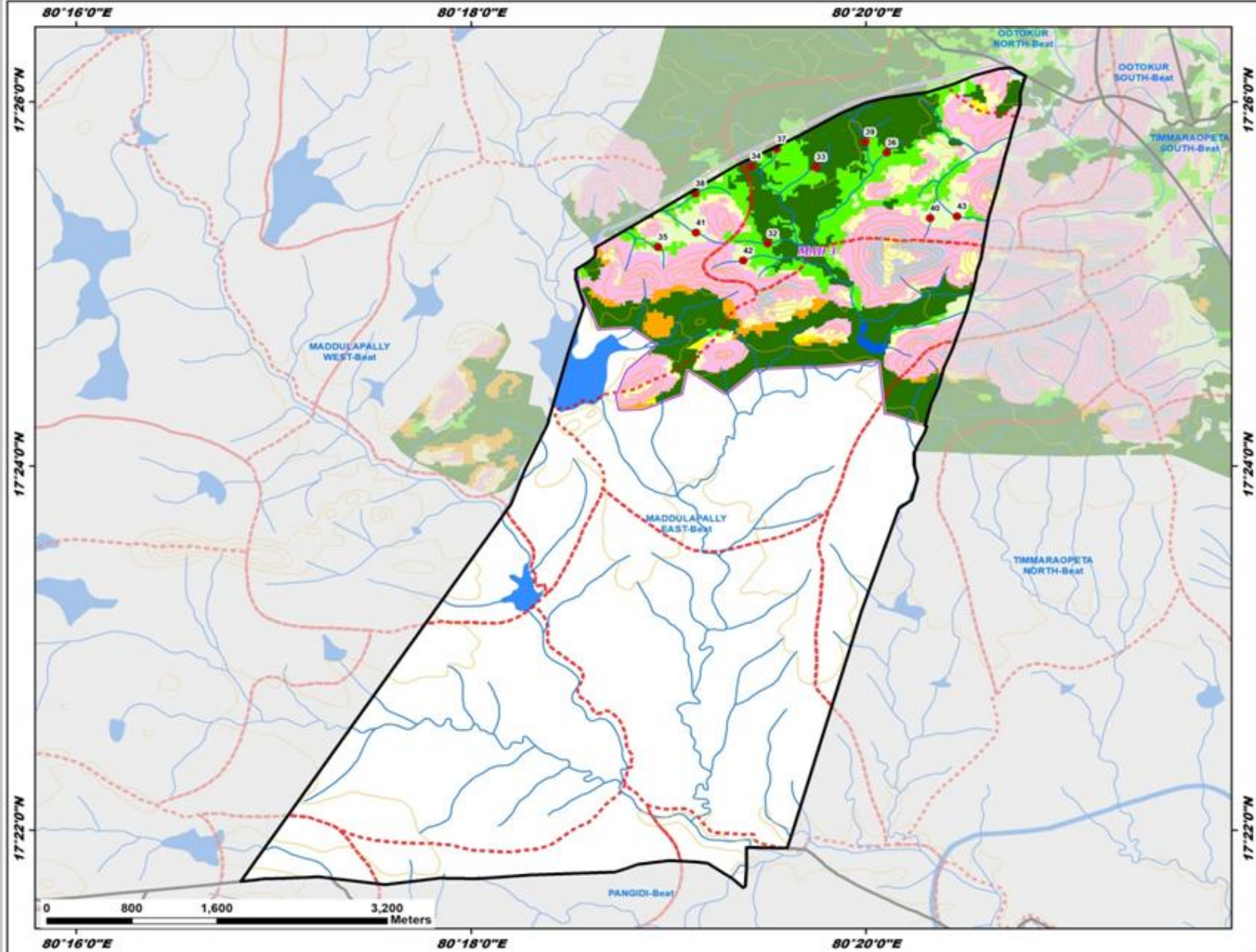
Suitability Index

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- 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 Muddalapally East Beat



Division : Khammam
Range : Karepalli



ID	Latitude	Longitude	Catchment Area_Ha	Priority
32	17.420361	80.325069	6.92	I
33	17.427352	80.329116	7.67	I
34	17.427438	80.323666	36.33	II
35	17.420036	80.315803	11.13	II
36	17.428688	80.335108	8.52	II
37	17.429005	80.325806	8.23	II
38	17.424943	80.318942	27.41	III
39	17.429649	80.333276	57.10	III
40	17.422681	80.338772	9.37	IV
41	17.421353	80.319008	11.87	IV
42	17.418806	80.322985	7.03	IV
43	17.422857	80.341020	26.08	V

Legend

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

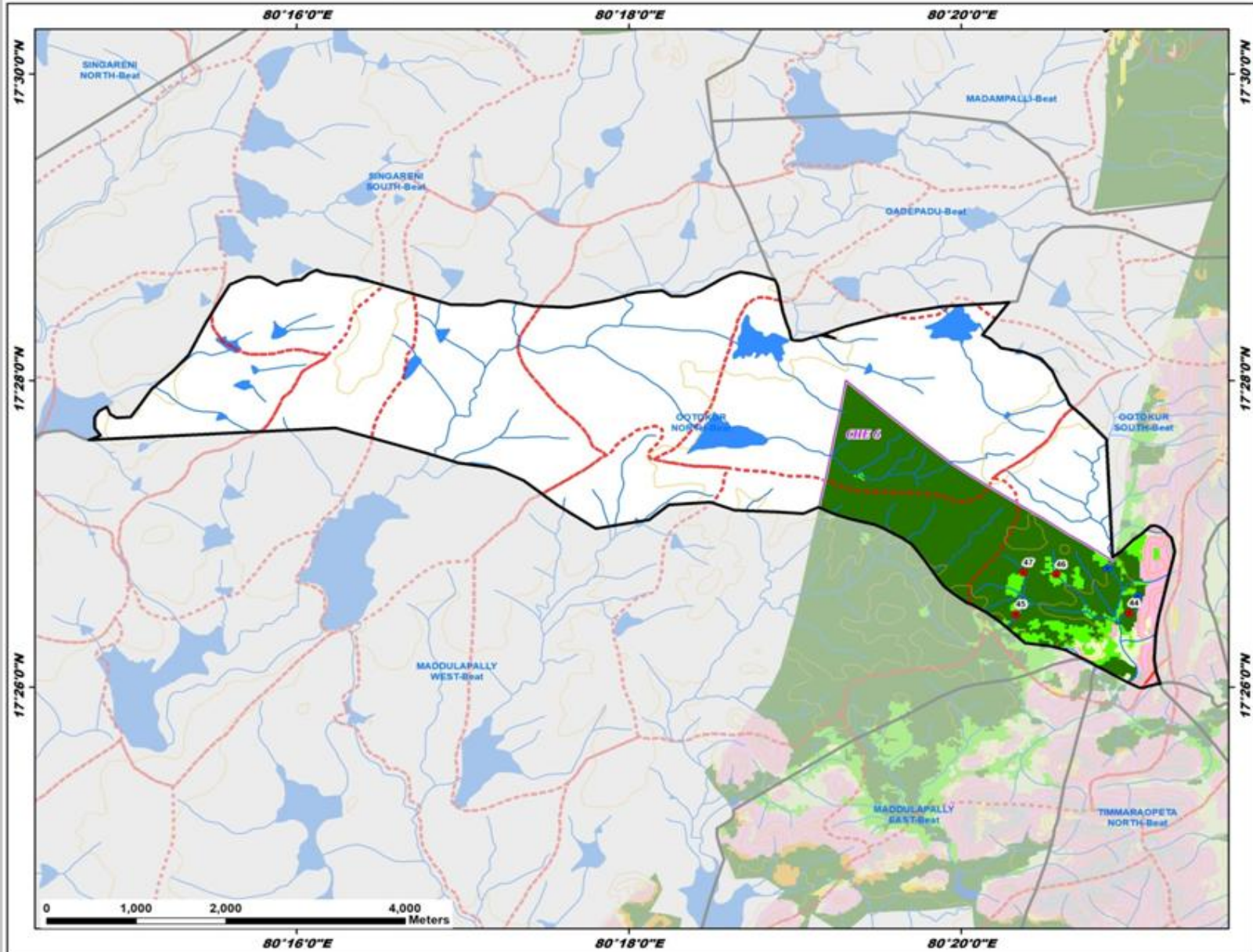
Suitability Index

- 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 Ootokur North Beat



Division : Khammam
Range : Karepalli



ID	Latitude	Longitude	Catchment Area_Ha	Priority
44	17.441411	80.350203	6.58	I
45	17.441265	80.338850	7.49	I
46	17.445628	80.342899	12.22	II
47	17.445804	80.339609	17.77	II

Legend

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

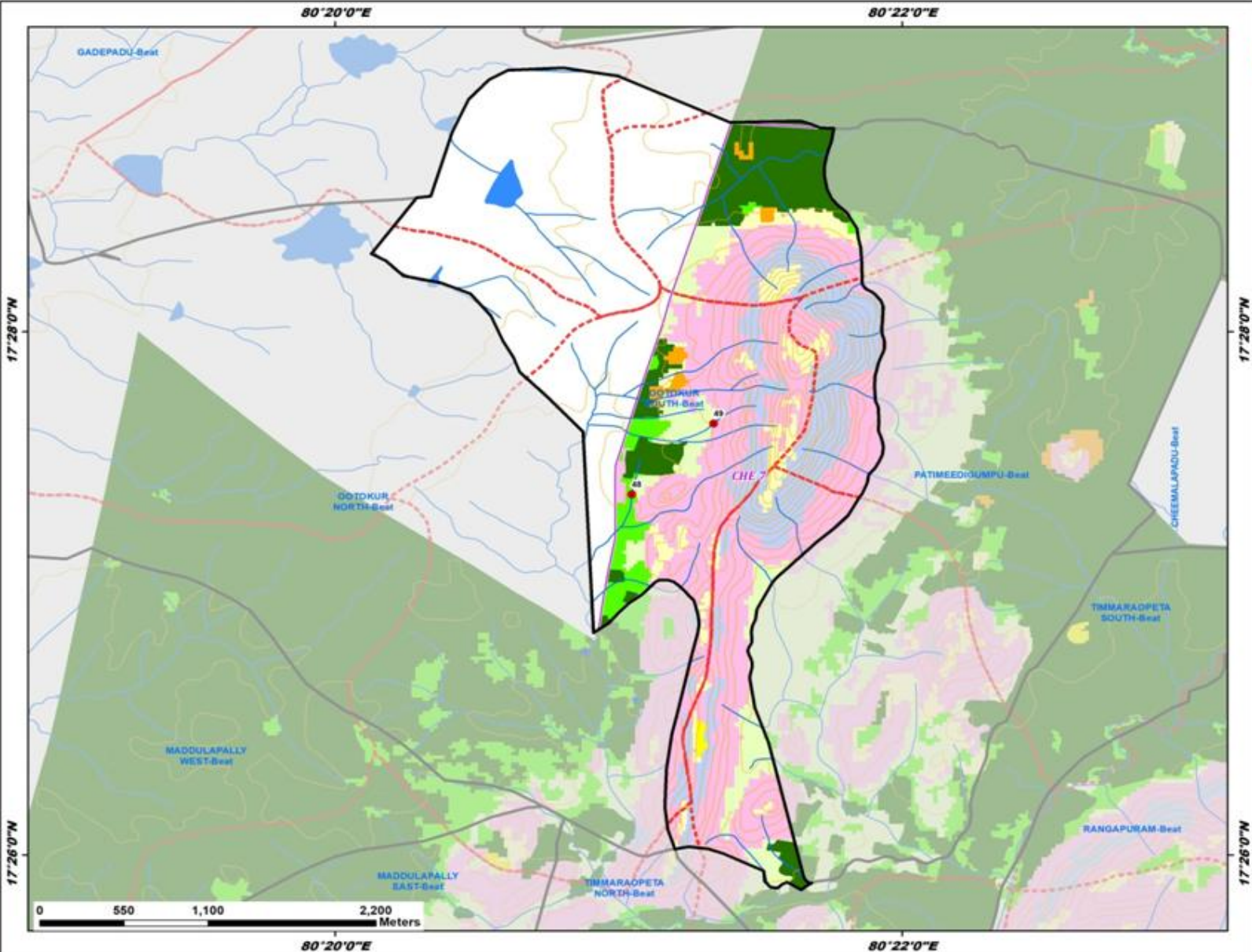
Suitability Index

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- 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 Ootokur South Beat



Division : Khammam
Range : Karepalli



ID	Latitude	Longitude	Catchment Area_Ha	Priority
48	17.456313	80.350780	17.23	II
49	17.460824	80.355586	7.62	IV

Legend

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

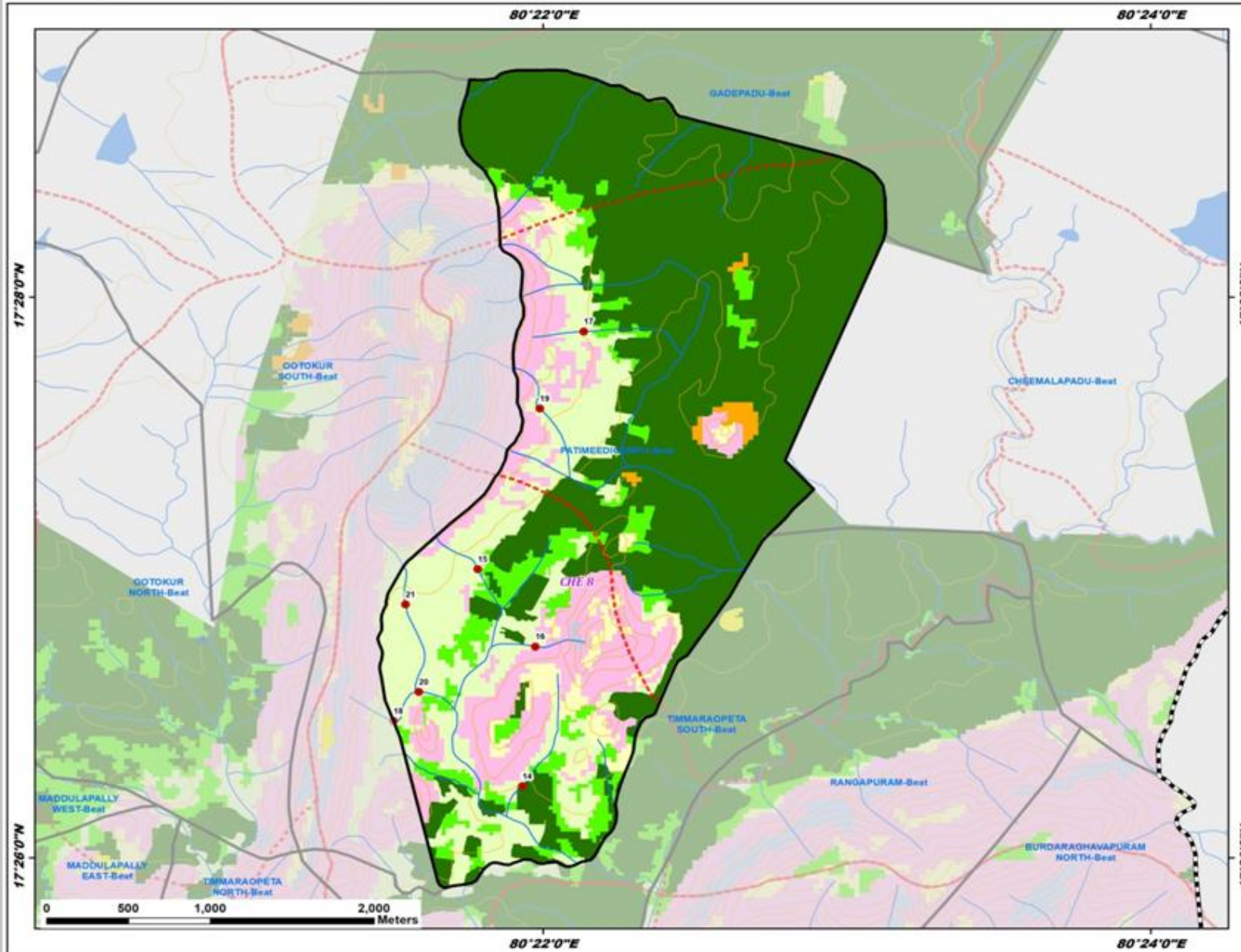
Suitability Index

- 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 Patimeedigumpu Beat



Division : Khammam
Range : Karepalli



ID	Latitude	Longitude	Catchment Area_Ha	Priority
14	17.437600	80.365537	31.42	II
15	17.450501	80.363086	16.71	II
16	17.445900	80.366254	6.31	IV
17	17.464641	80.368913	15.39	IV
18	17.441474	80.358460	10.40	IV
19	17.460053	80.366491	31.12	V
20	17.443196	80.359862	83.73	V
21	17.448407	80.359132	28.03	V

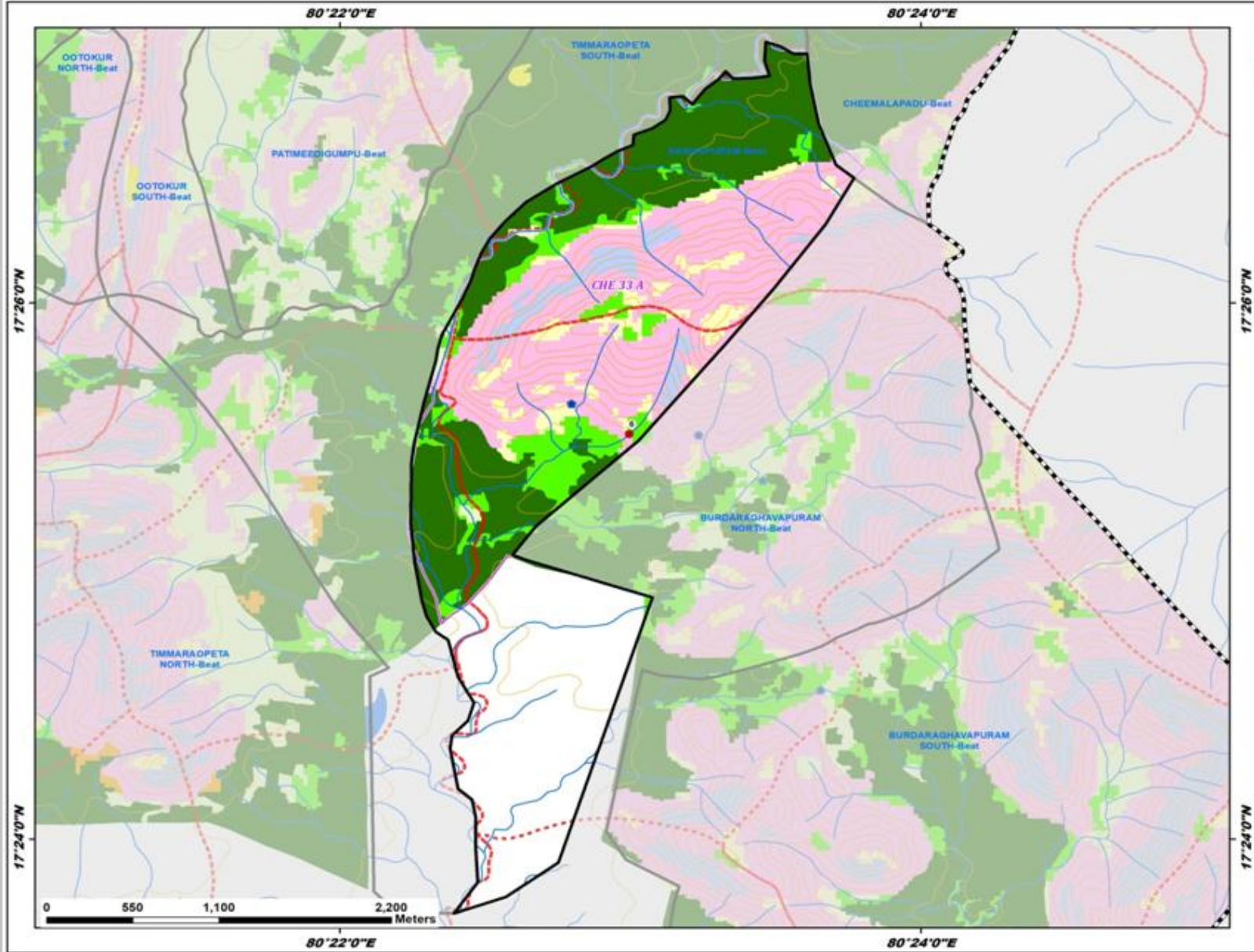
Legend

- 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 SGP - Suitable
 - Not Suitable
 - Water Body

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



Division : Khammam
Range : Karepalli



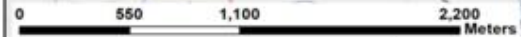
ID	Latitude	Longitude	Catchment Area_Ha	Priority
6	17.425181	80.383297	33.89	III

Legend

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

Suitability Index

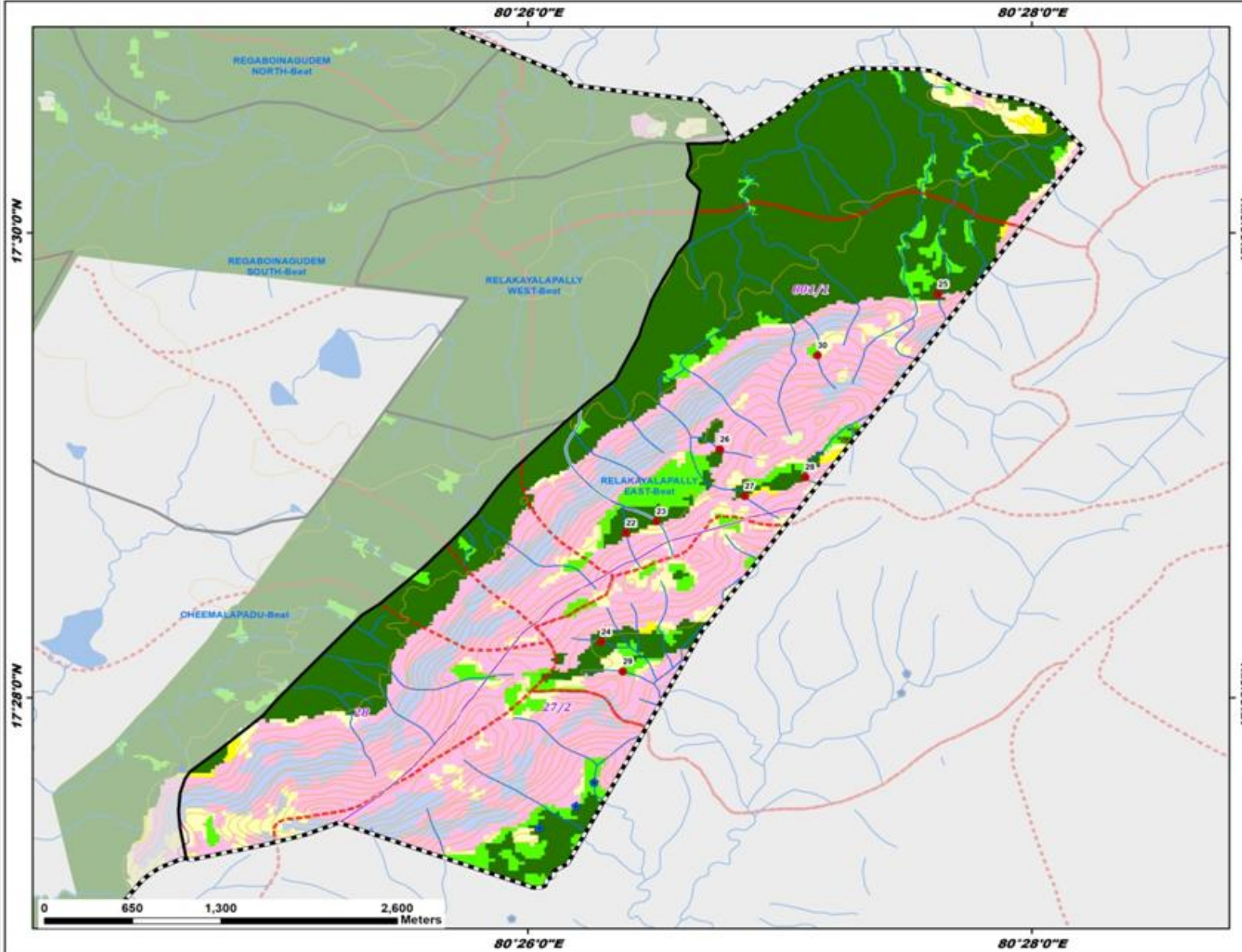
- CCTs/SCTs - Highly Suitable
- CCTs/SCTs - Moderately Suitable
- CCTs/SCTs - Least Suitable
- PTs - Highly Suitable
- PTs - Moderately Suitable
- PTs - Least Suitable
- MPTs and SGP - Suitable
- Not Suitable
- Water Body



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



Division : Khammam
Range : Karepalli



ID	Latitude	Longitude	Catchment Area_Ha	Priority
22	17.478481	80.439826	6.44	I
23	17.479304	80.441839	6.80	I
24	17.470675	80.438186	9.91	I
25	17.495602	80.460475	7.72	I
26	17.484462	80.446033	6.68	I
27	17.481120	80.447694	8.03	I
28	17.482481	80.451672	8.40	II
29	17.468544	80.439625	14.09	II
30	17.491205	80.452504	9.85	II

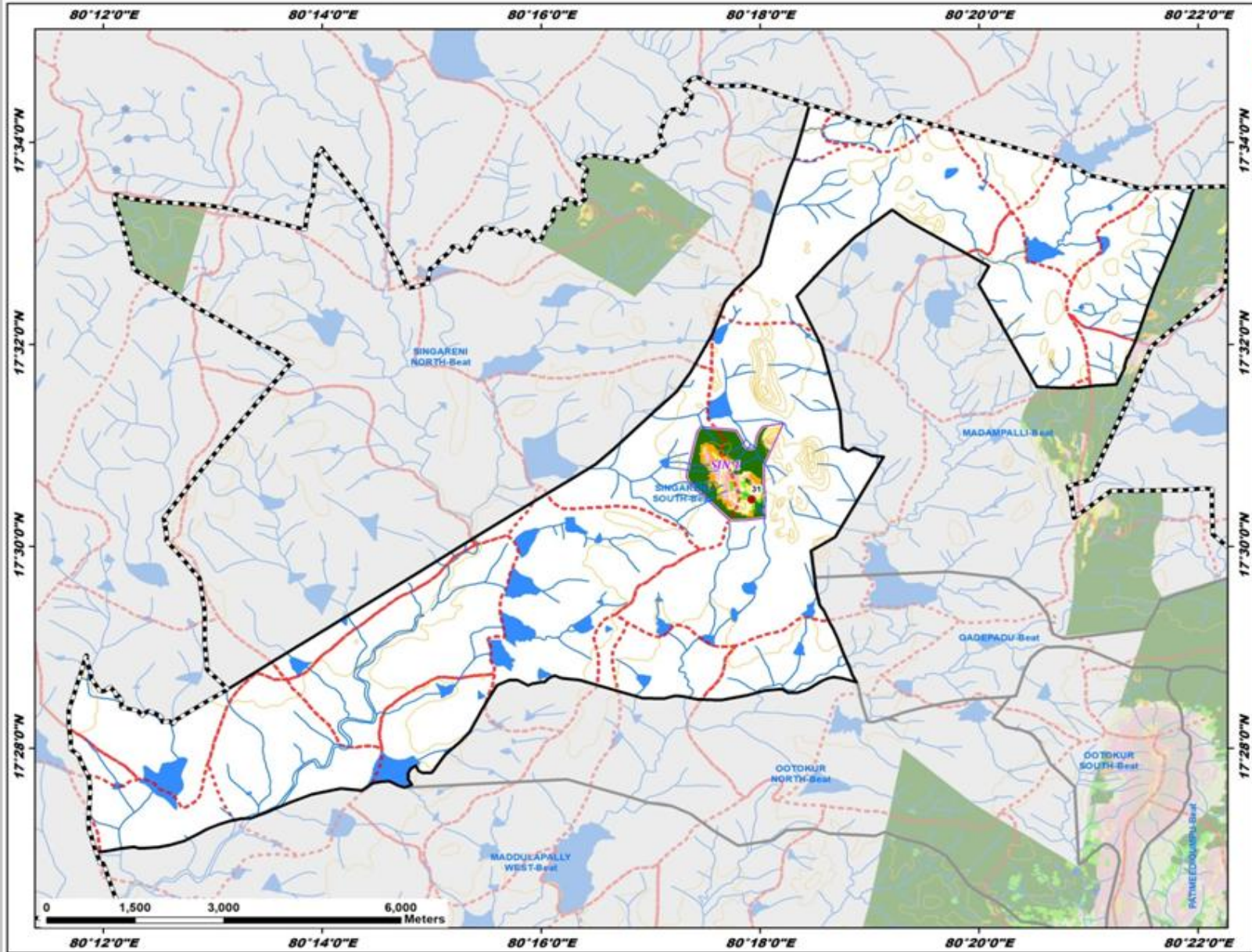
Legend

- 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 Singareni South Beat



Division : Khammam
Range : Karepalli



ID	Latitude	Longitude	Catchment Area_Ha	Priority
31	17.507761	80.298744	12.21	II

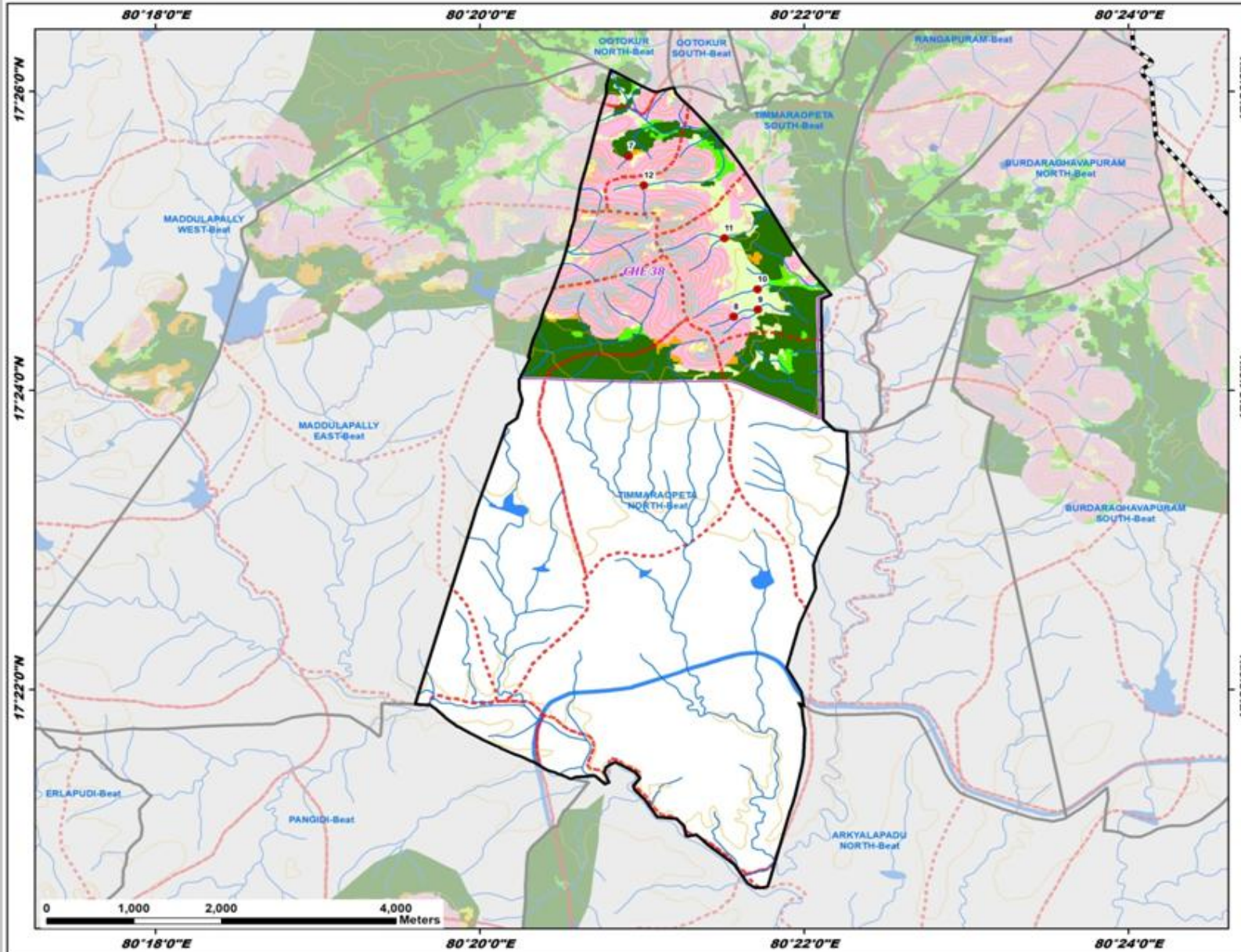
Legend

- 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 Timmaraopeta North Beat



Division : Khammam
Range : Karepalli



ID	Latitude	Longitude	Catchment Area_Ha	Priority
7	17.426093	80.348649	9.99	I
8	17.408222	80.359445	7.06	IV
9	17.408996	80.361928	18.60	IV
10	17.411279	80.361903	32.01	V
11	17.416969	80.358485	43.00	V
12	17.422860	80.350225	28.42	V

Legend

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

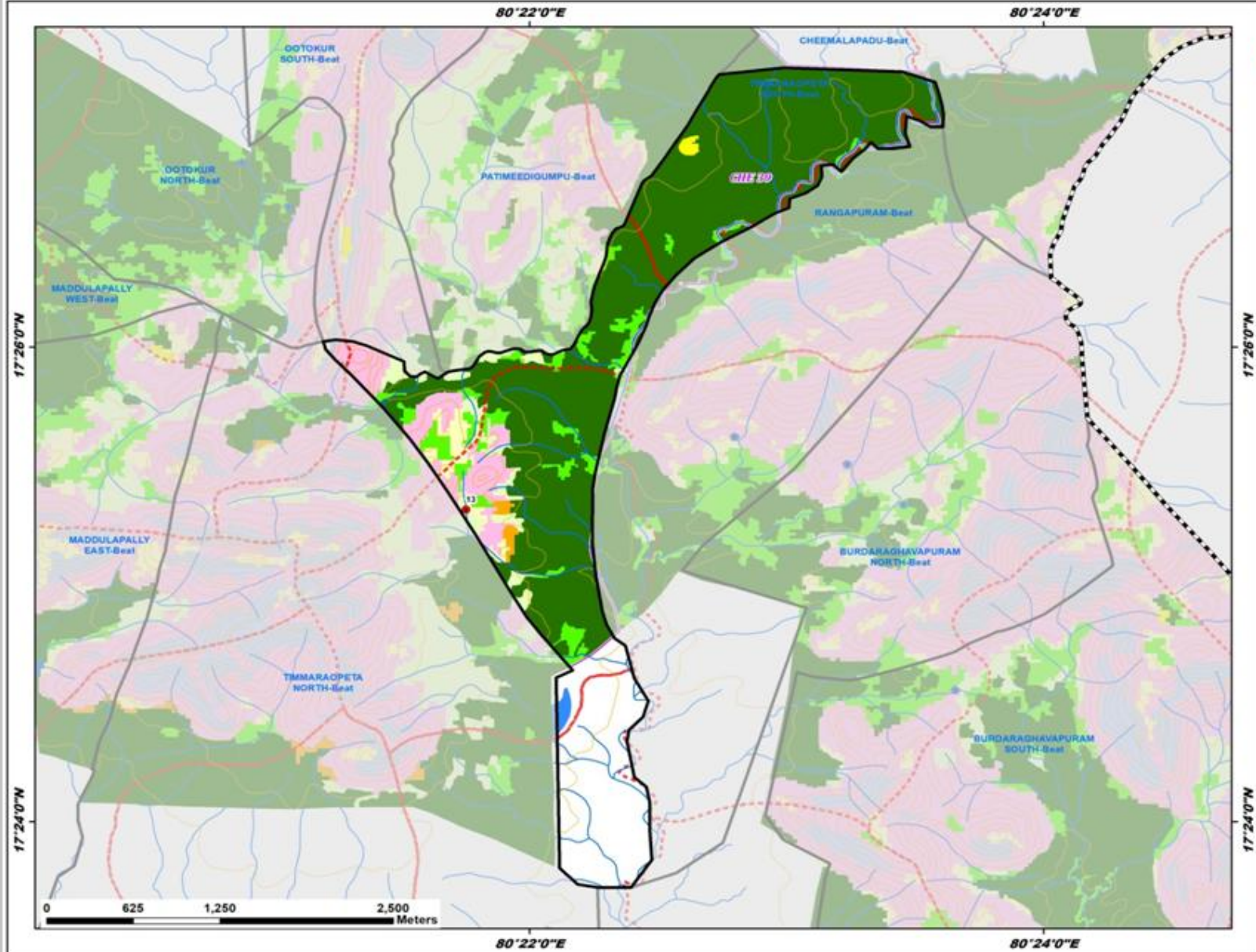
Suitability Index

- 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 Timmaraopeta South Beat



Division : Khammam
Range : Karepalli



ID	Latitude	Longitude	Catchment Area_Ha	Priority
13	17.421930	80.362562	6.93	IV

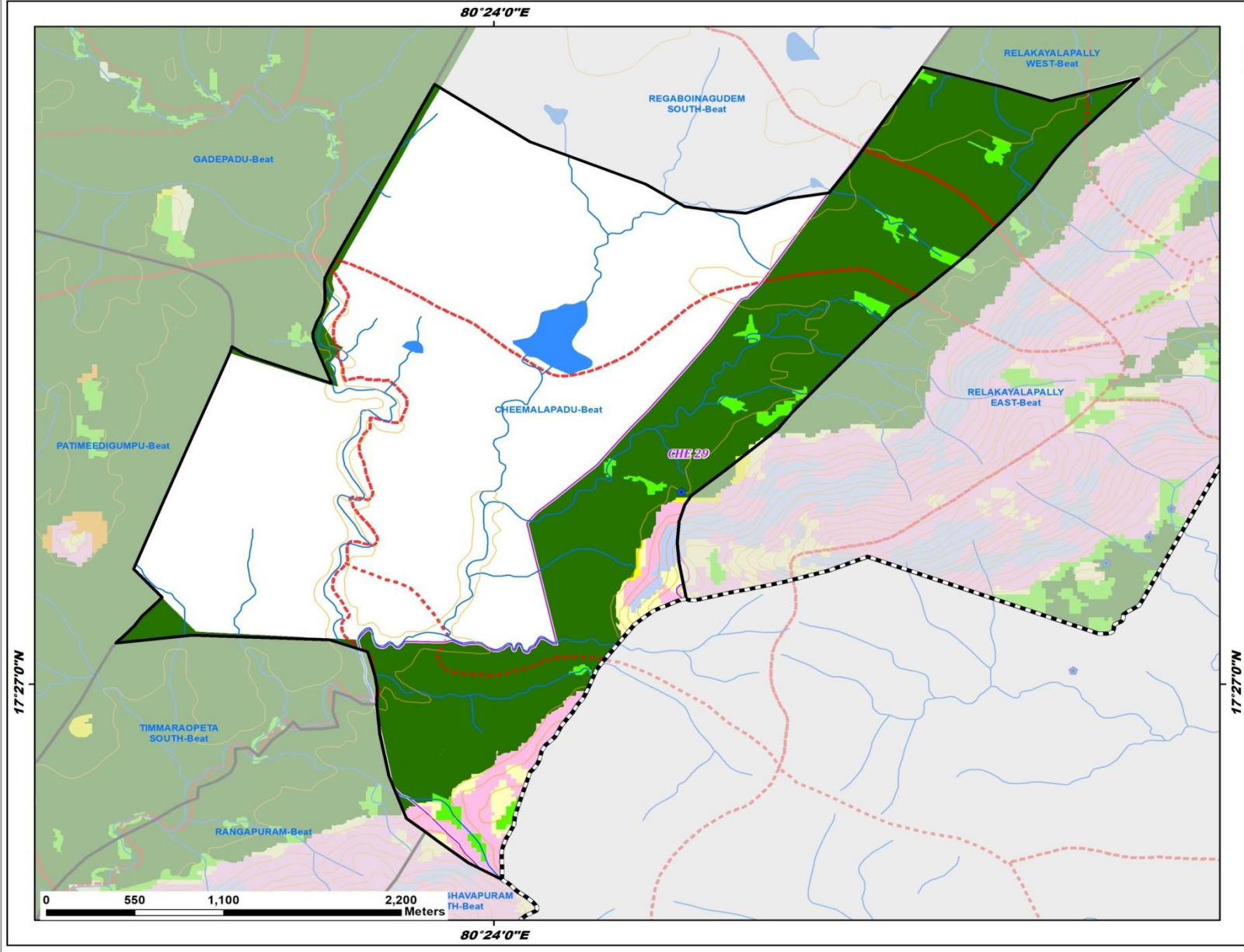
Legend

- 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 - Suitable
 - Not Suitable
 - Water Body

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



Division : Khammam
Range : Karepalli



Legend

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

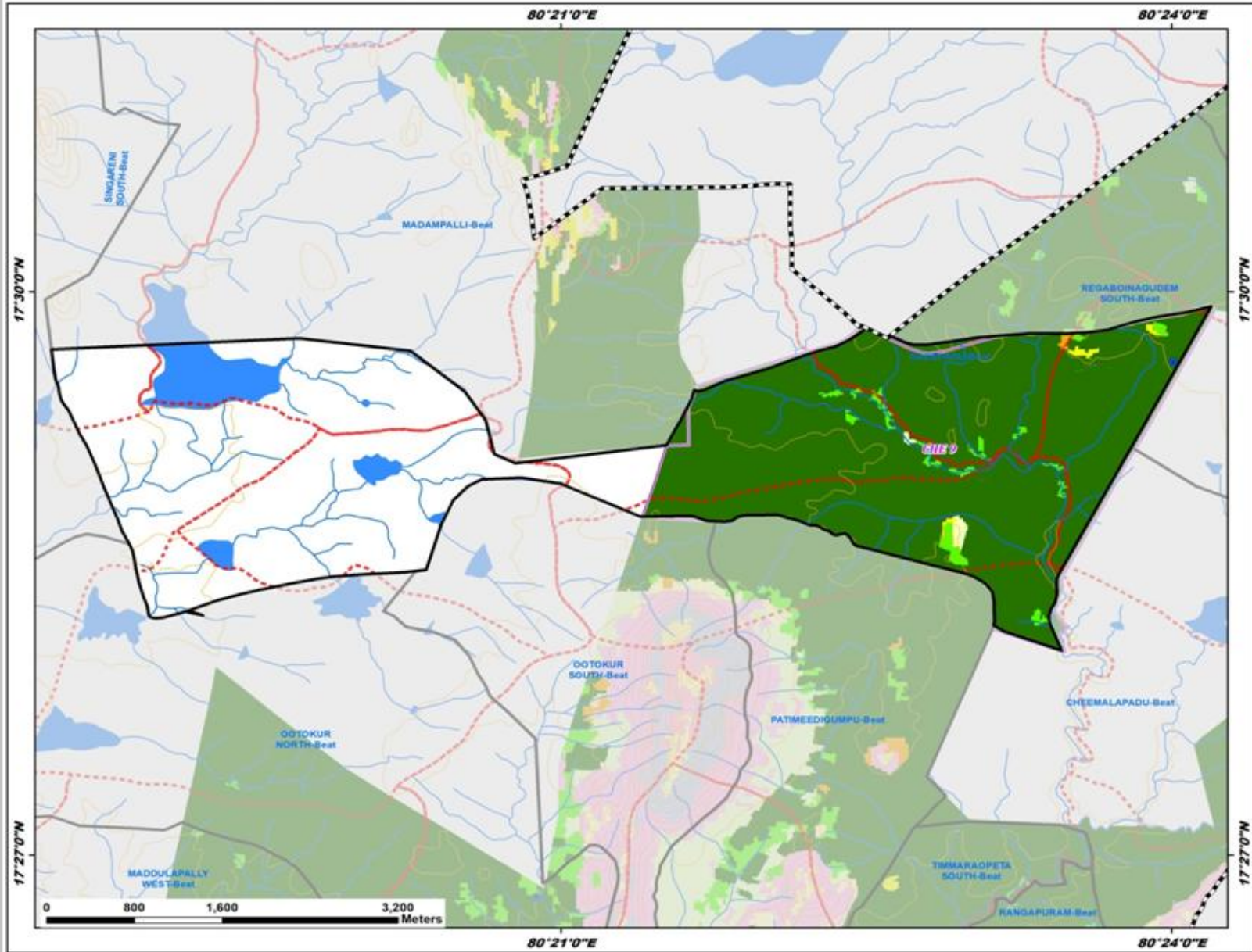
Suitability Index

- 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 Gadepadu Beat



Division : Khammam
Range : Karepalli

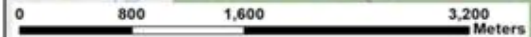


Legend

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

Suitability Index

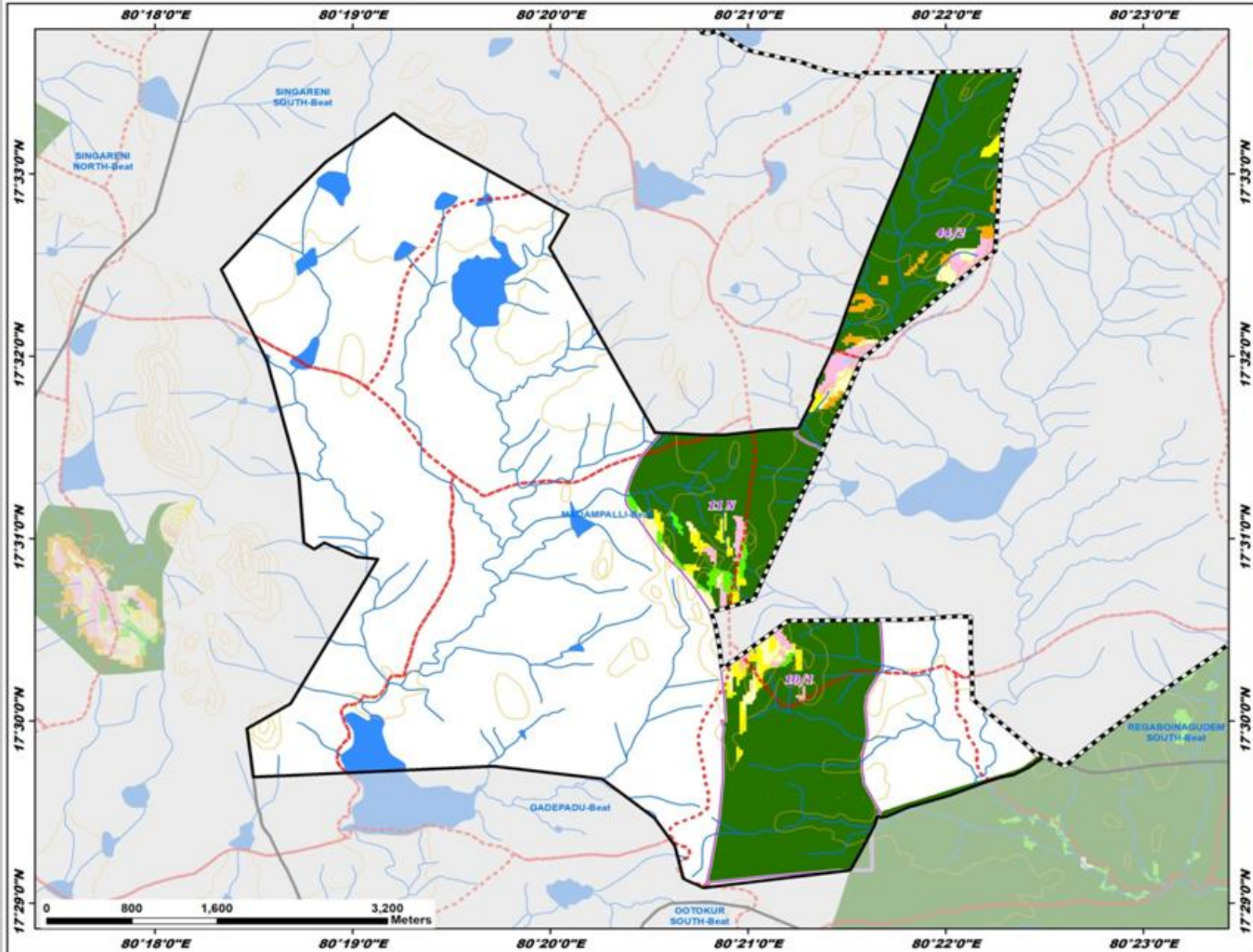
- CCTs/SCTs - Highly Suitable
- CCTs/SCTs - Moderately Suitable
- CCTs/SCTs - Least Suitable
- PTs - Highly Suitable
- PTs - Moderately Suitable
- PTs - Least Suitable
- MPTs and SGPs - Suitable
- Not Suitable
- Water Body



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



Division : Khammam
Range : Karepalli



Legend

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

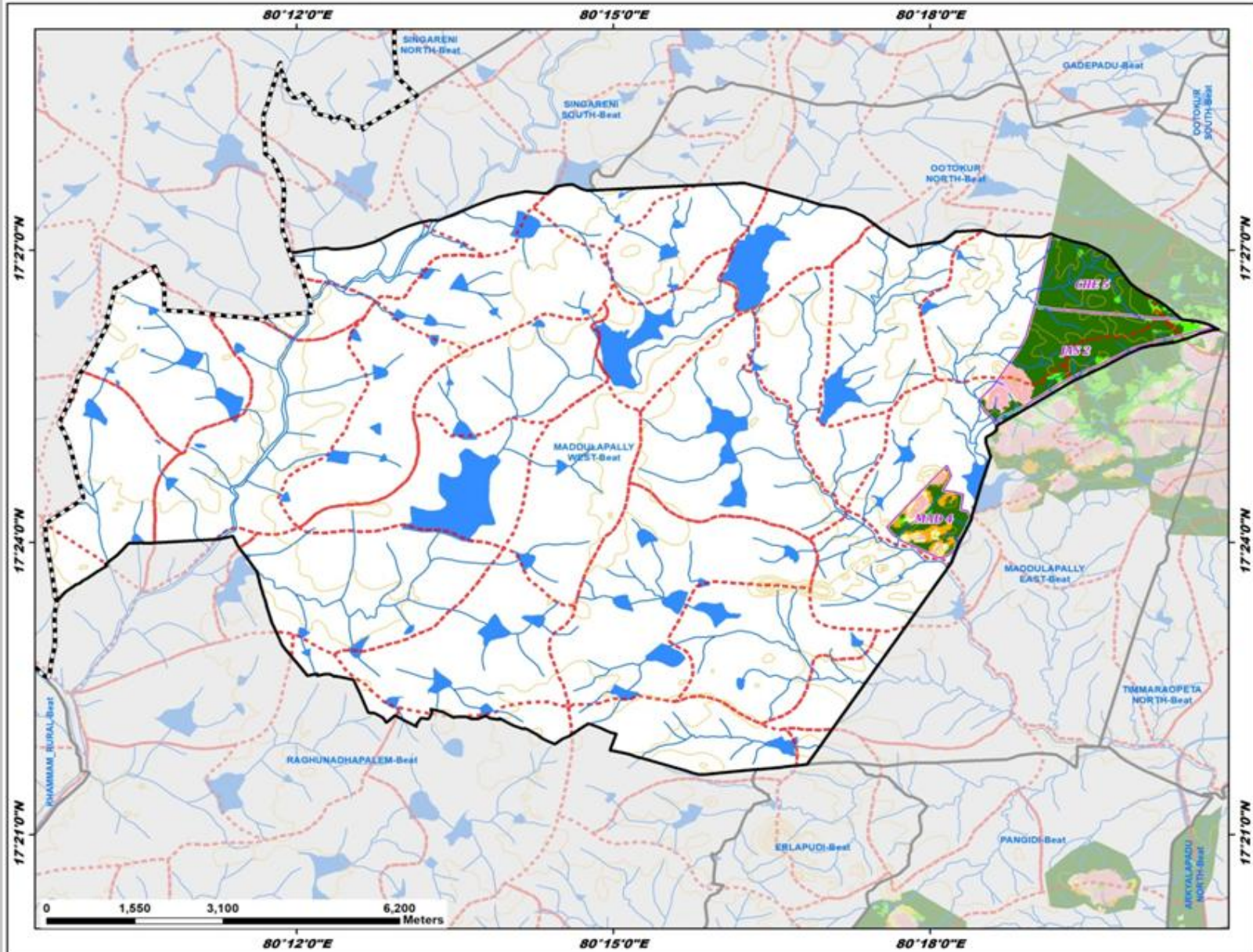
Suitability Index

- 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 Maddulapally West Beat



Division : Khammam
Range : Karepalli



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 Pegaboinagudem North Beat

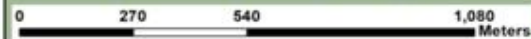
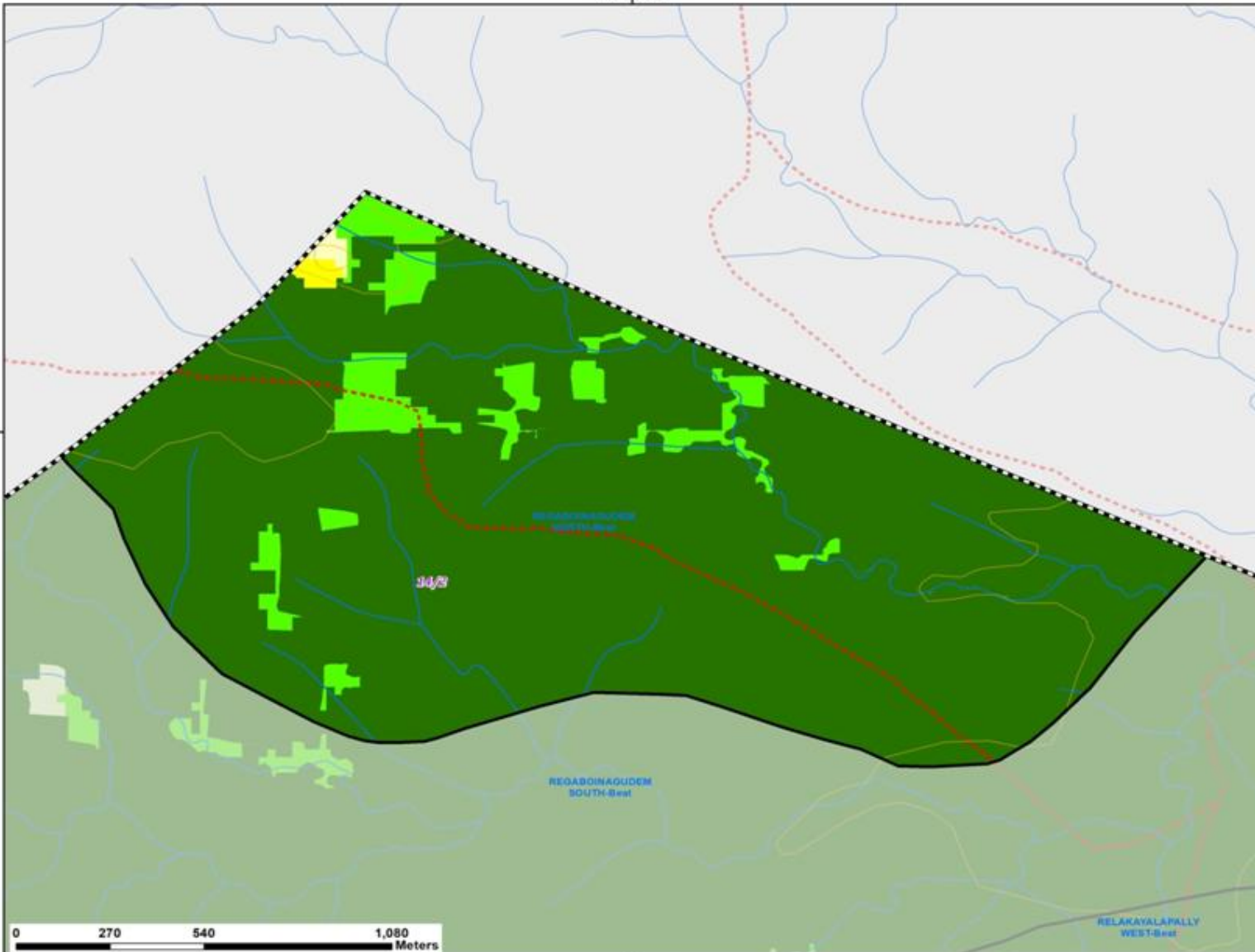


Division : Khammam
Range : Karepalli

80°25'0"E

17°31'0"N

17°31'0"N



80°25'0"E

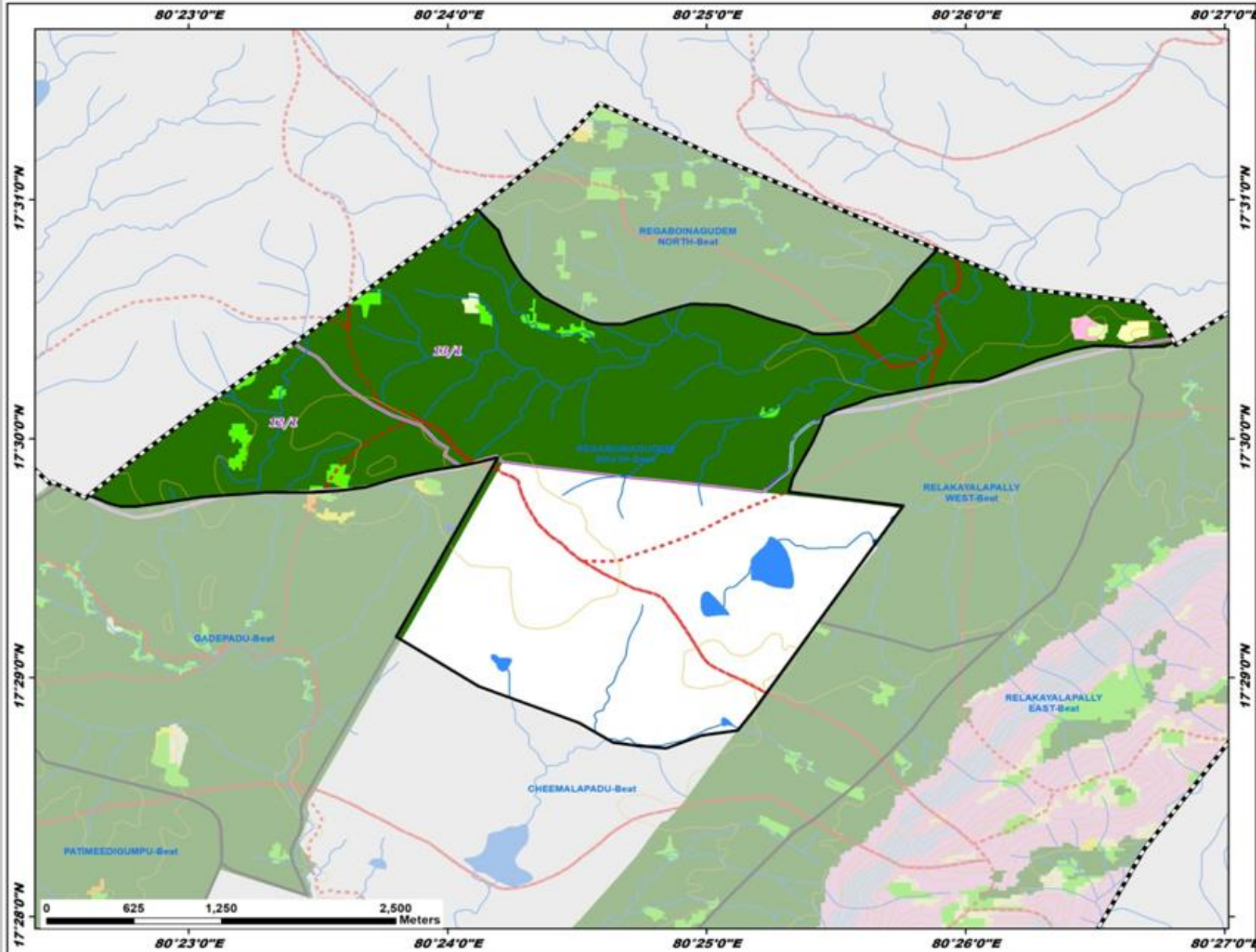
Legend

- 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 Pegaboinagudem South Beat



Division : Khammam
Range : Karepalli



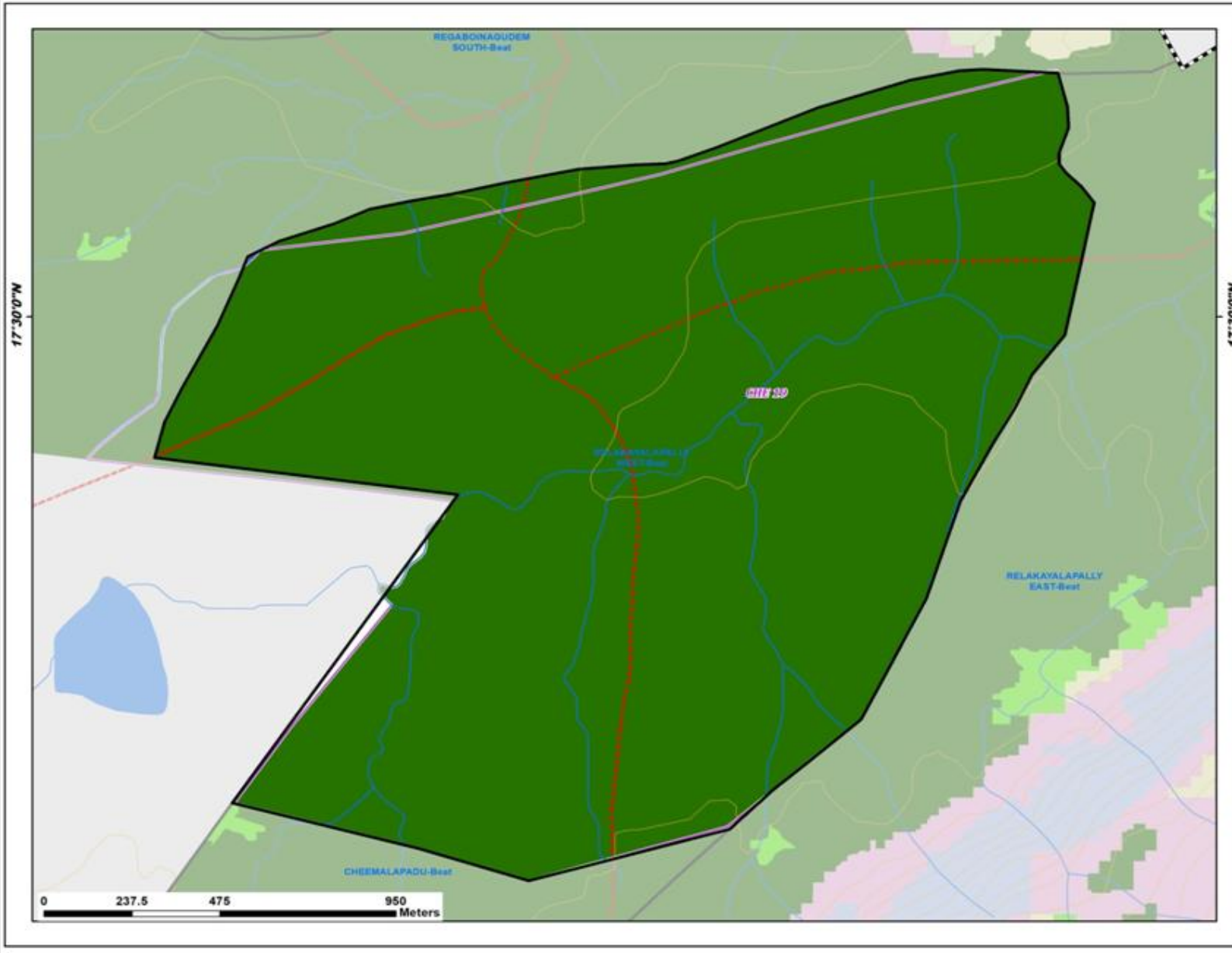
Legend

- 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 Relakayalapally West Beat



Division : Khammam
Range : Karepalli



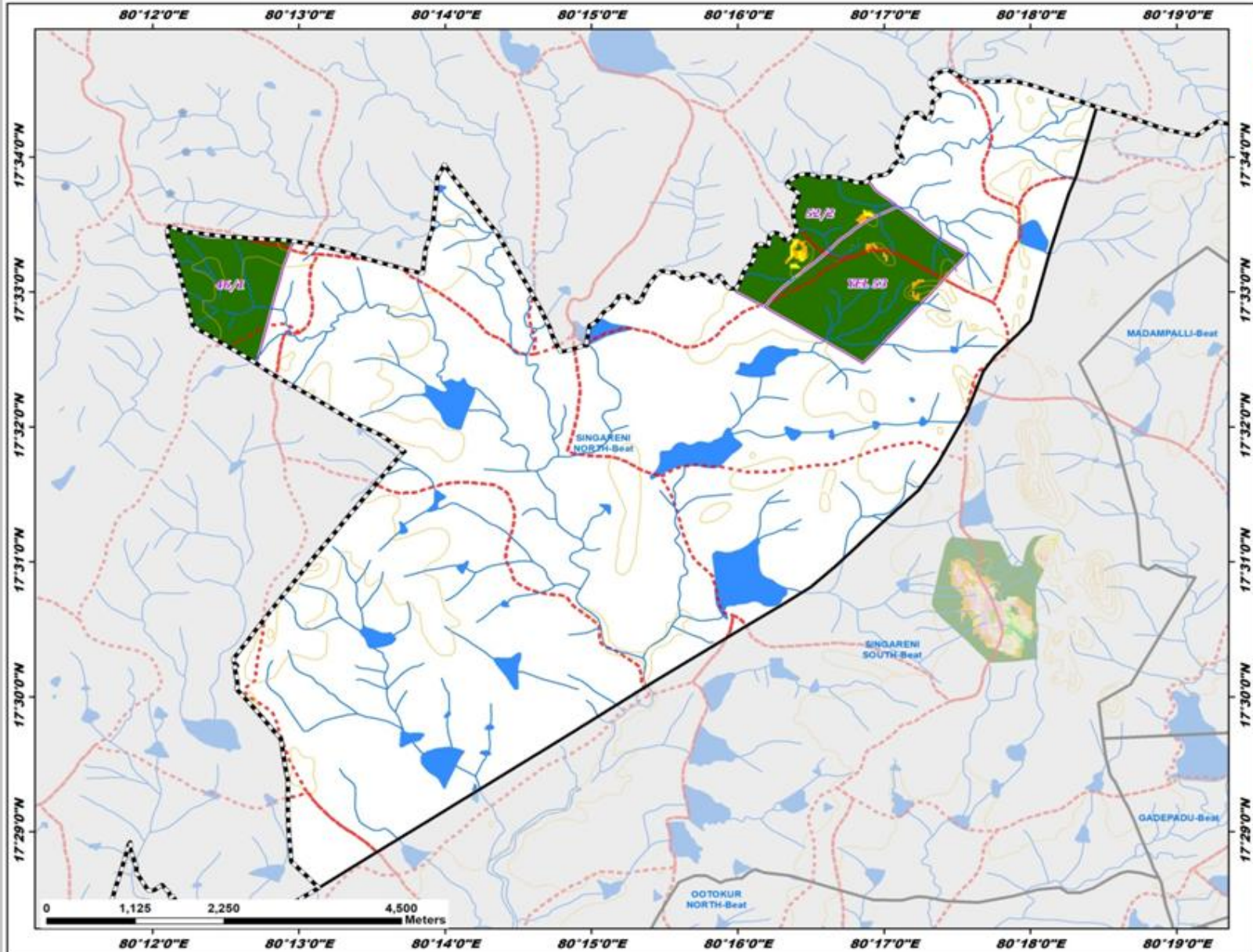
Legend

- 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 Singareni North Beat



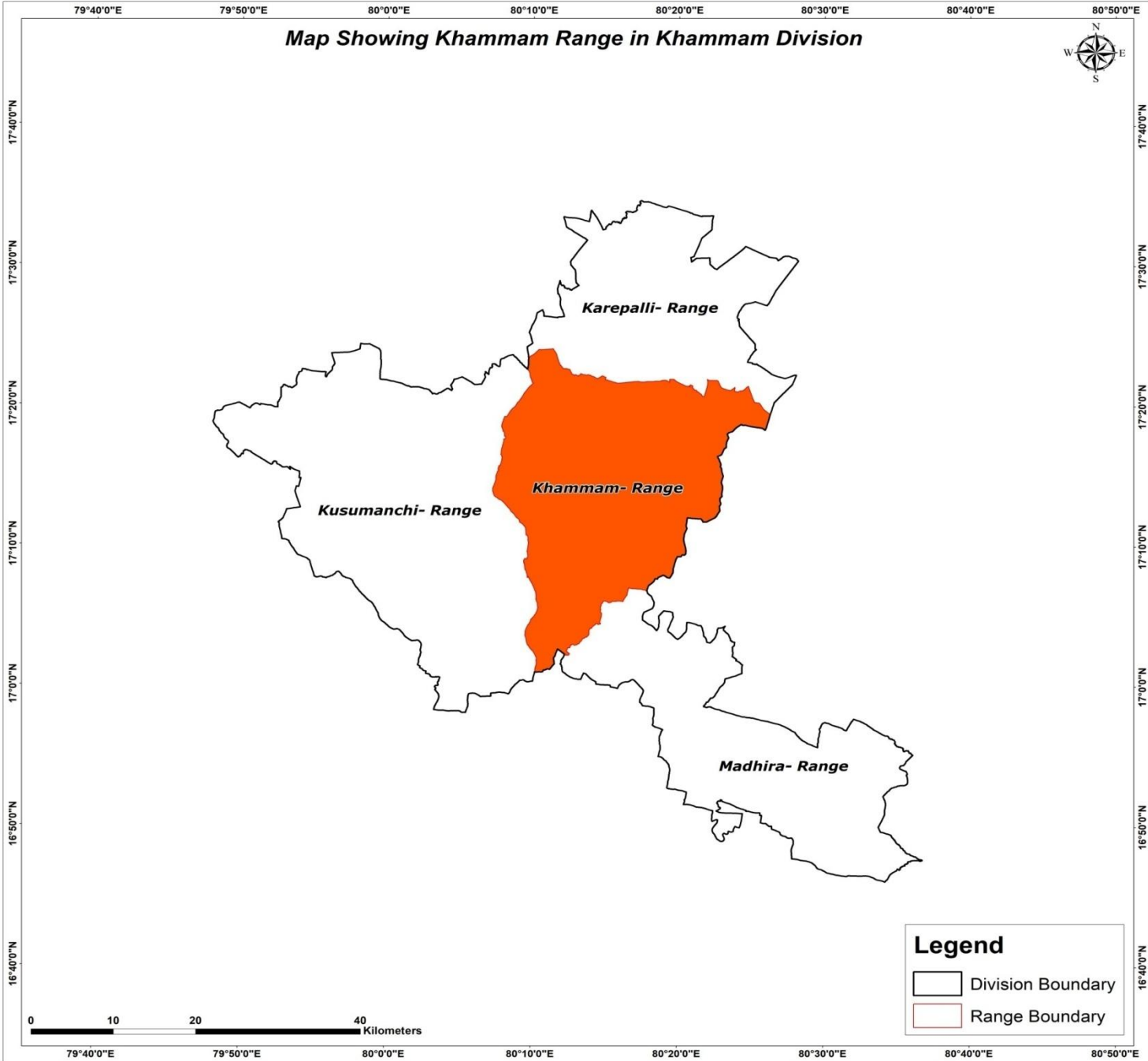
Division : Khammam
Range : Karepalli



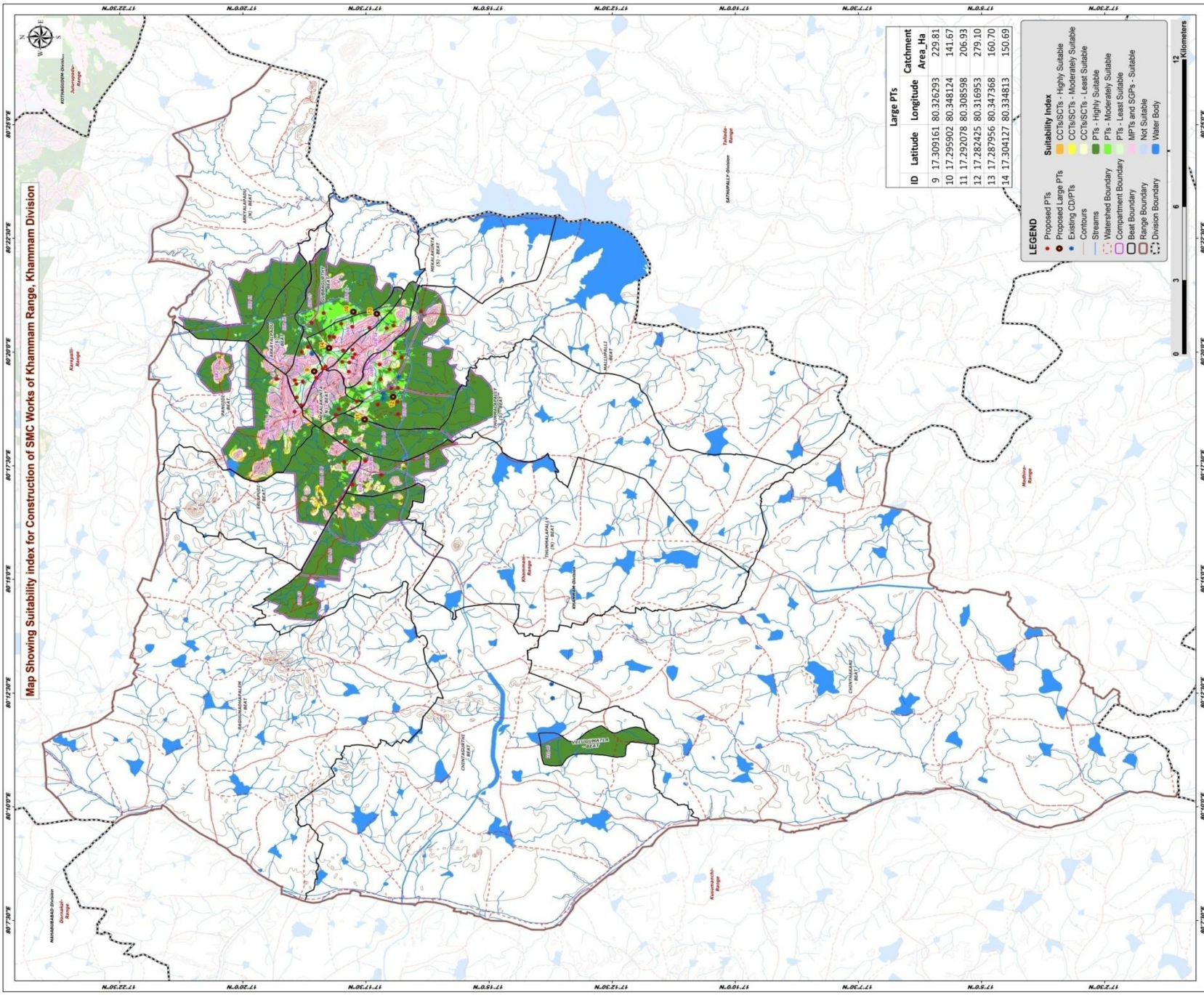
Legend

- 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

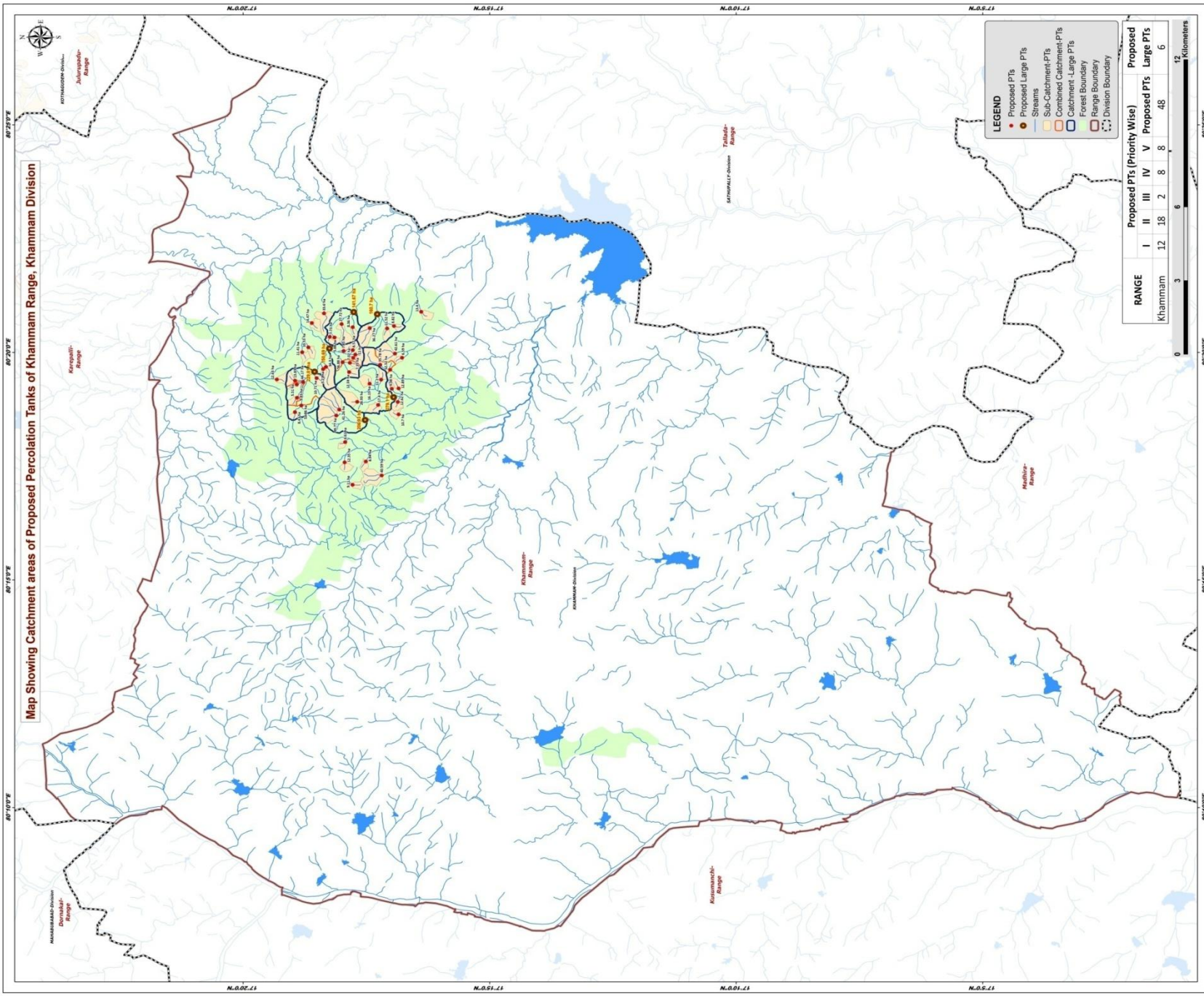
Map Showing Khammam Range in Khammam Division



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



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



Beat wise Abstract of Proposed PT's – Kahammam Range

S. No.	Beat	Proposed PT's
1	ERLAPUDI	1
2	GUBBAGURTHY	10
3	MALLUPALLI	12
4	MEKALAKUNTA NORTH	11
5	MEKALAKUNTA SOUTH	8
6	PANGIDI	2
7	THUMMALAPALLY NORTH	3
8	THUMMALAPALLY SOUTH	1
	Total	48

List of Proposed PTs – Khammam Range

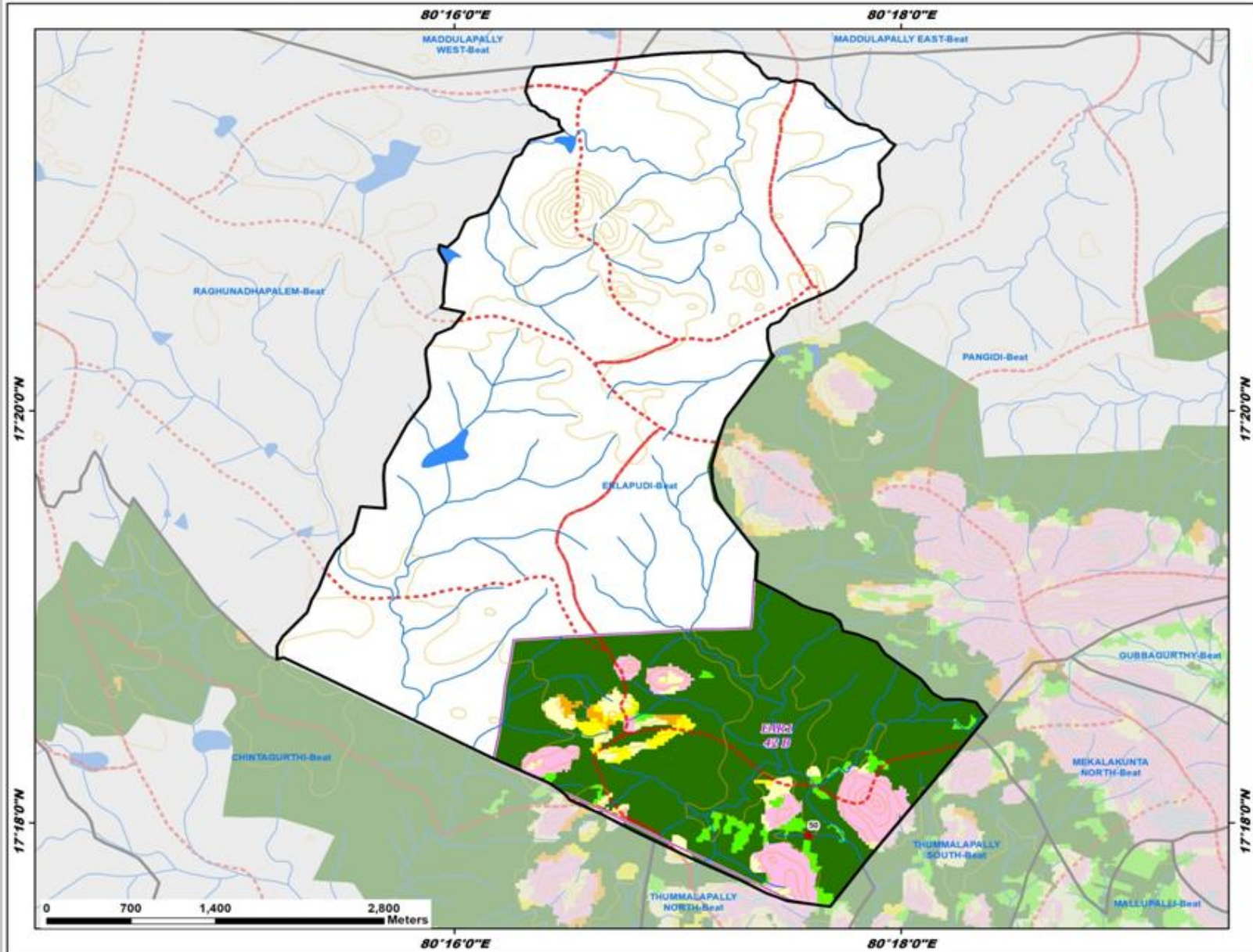
ID	Latitude	Longitude	Catchment Area_Ha	Priority	Beat
50	17.298988	80.293105	12.35	I	ERLAPUDI
51	17.321925	80.323477	12.63	I	PANGIDI
52	17.315784	80.311520	8.41	IV	PANGIDI
53	17.315752	80.323049	13.83	I	GUBBAGURTHY
54	17.311251	80.335208	10.53	I	GUBBAGURTHY
55	17.313348	80.333438	11.41	I	GUBBAGURTHY
56	17.315117	80.316751	9.83	II	GUBBAGURTHY
57	17.310061	80.344119	14.47	II	GUBBAGURTHY
58	17.305953	80.347681	33.60	III	GUBBAGURTHY
59	17.308497	80.323967	10.71	IV	GUBBAGURTHY
60	17.315190	80.321635	5.51	IV	GUBBAGURTHY
61	17.313025	80.322506	44.17	V	GUBBAGURTHY
62	17.313602	80.313941	53.86	V	GUBBAGURTHY
63	17.280754	80.310666	10.70	I	MALLUPALLI
64	17.287661	80.314124	17.40	I	MALLUPALLI
65	17.283035	80.320030	9.08	I	MALLUPALLI
66	17.281048	80.315253	12.62	II	MALLUPALLI
67	17.290562	80.321899	16.15	II	MALLUPALLI
68	17.279601	80.331417	6.59	II	MALLUPALLI
69	17.280777	80.320177	12.89	II	MALLUPALLI
70	17.273099	80.348237	13.40	II	MALLUPALLI
71	17.286651	80.323377	11.10	II	MALLUPALLI
72	17.287027	80.328814	35.78	V	MALLUPALLI
73	17.283622	80.326985	52.52	V	MALLUPALLI
74	17.281984	80.332942	42.61	V	MALLUPALLI
75	17.304012	80.339053	7.73	I	MEKALAKUNTA NORTH
76	17.299351	80.333900	7.85	II	MEKALAKUNTA NORTH
77	17.302421	80.338823	5.88	II	MEKALAKUNTA NORTH
78	17.300829	80.312416	41.26	II	MEKALAKUNTA NORTH
79	17.301837	80.310253	49.77	II	MEKALAKUNTA NORTH
80	17.294721	80.315260	28.93	II	MEKALAKUNTA NORTH
81	17.300014	80.343736	27.72	III	MEKALAKUNTA NORTH
82	17.296269	80.342594	8.36	IV	MEKALAKUNTA NORTH
83	17.306291	80.327252	5.21	IV	MEKALAKUNTA NORTH
84	17.290509	80.342268	36.27	V	MEKALAKUNTA NORTH
85	17.305303	80.328083	34.30	V	MEKALAKUNTA NORTH
86	17.284650	80.342152	11.52	II	MEKALAKUNTA SOUTH
87	17.297232	80.329554	7.02	II	MEKALAKUNTA SOUTH
88	17.282323	80.343012	8.82	II	MEKALAKUNTA SOUTH
89	17.296245	80.334180	8.57	II	MEKALAKUNTA SOUTH

ID	Latitude	Longitude	Catchment Area_Ha	Priority	Beat
90	17.296117	80.331363	7.35	IV	MEKALAKUNTA SOUTH
91	17.297497	80.326163	12.59	IV	MEKALAKUNTA SOUTH
92	17.295373	80.332540	11.00	IV	MEKALAKUNTA SOUTH
93	17.299704	80.329785	56.88	V	MEKALAKUNTA SOUTH
94	17.291859	80.293421	8.94	I	THUMMALAPALLY NORTH
95	17.296326	80.284886	9.11	I	THUMMALAPALLY NORTH
96	17.286471	80.288317	40.59	II	THUMMALAPALLY NORTH
97	17.298799	80.300522	6.61	I	THUMMALAPALLY SOUTH

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



Division : Khammam
Range : Khammam



ID	Latitude	Longitude	Catchment Area_Ha	PRIORITY
50	17.298988	80.293105	12.35	1

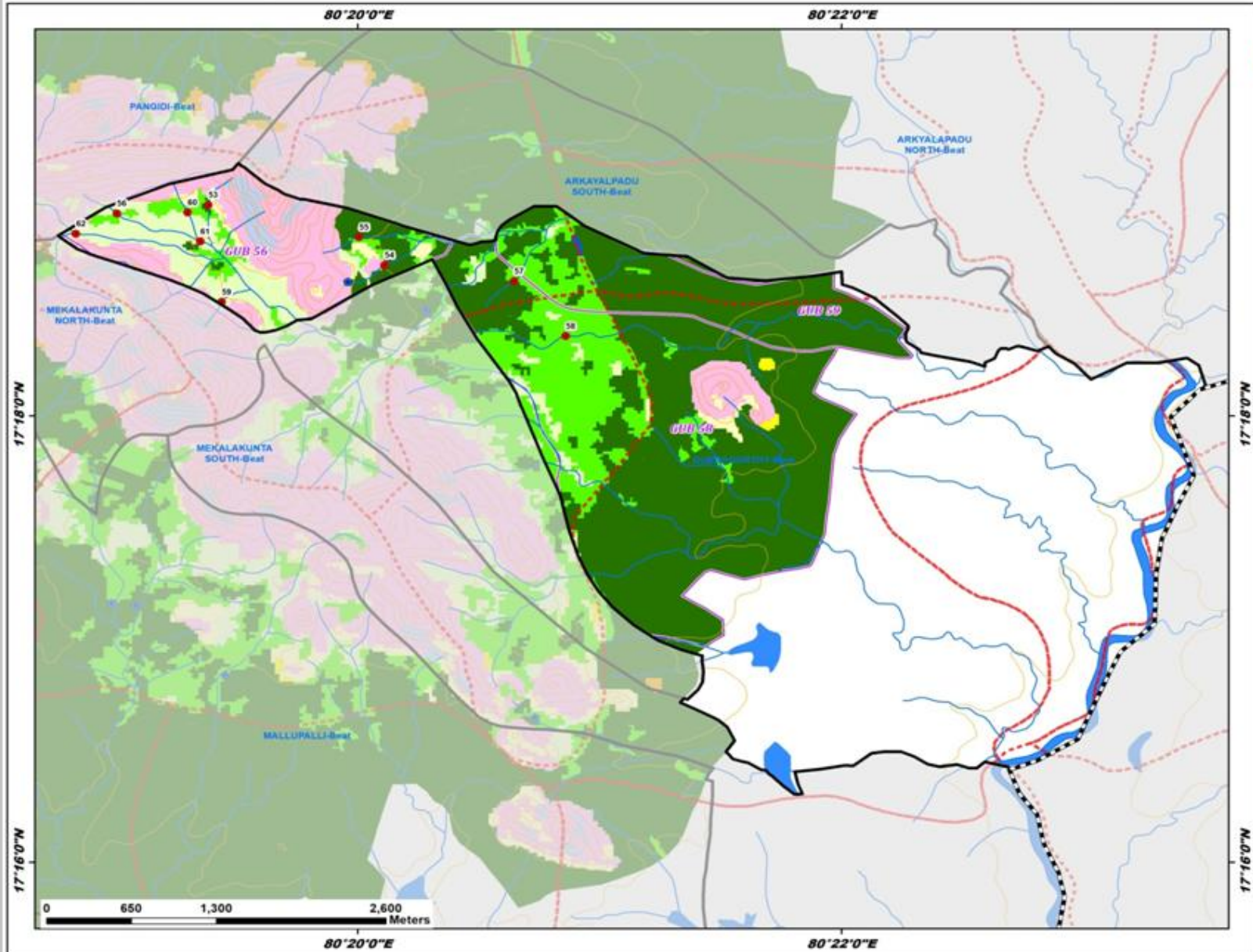
Legend

- Proposed_PTs
 - Existing CD/PTs
 - Contours
 - Streams
 - - - Watershed Boundary
 - - - Compartment Boundary
 - ▭ Beat Boundary
 - - - Division Boundary
- ### Suitability Index
- CCTs/SCTs - Highly Suitable
 - CCTs/SCTs - Moderately Suitable
 - CCTs/SCTs - Least Suitable
 - PTs - Highly Suitable
 - PTs - Moderately Suitable
 - PTs - Least Suitable
 - MPTs and SGP's - Suitable
 - Not Suitable
 - Water Body

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



Division : Khammam
Range : Khammam



ID	Latitude	Longitude	Catchment Area_Ha	PRIORITY
53	17.315752	80.323049	13.83	I
54	17.311251	80.335208	10.53	I
55	17.313348	80.333438	11.41	I
56	17.315117	80.316751	9.83	II
57	17.310061	80.344119	14.47	II
58	17.305953	80.347681	33.60	III
59	17.308497	80.323967	10.71	IV
60	17.315190	80.321635	5.51	IV
61	17.313025	80.322506	44.17	V
62	17.313602	80.313941	53.86	V

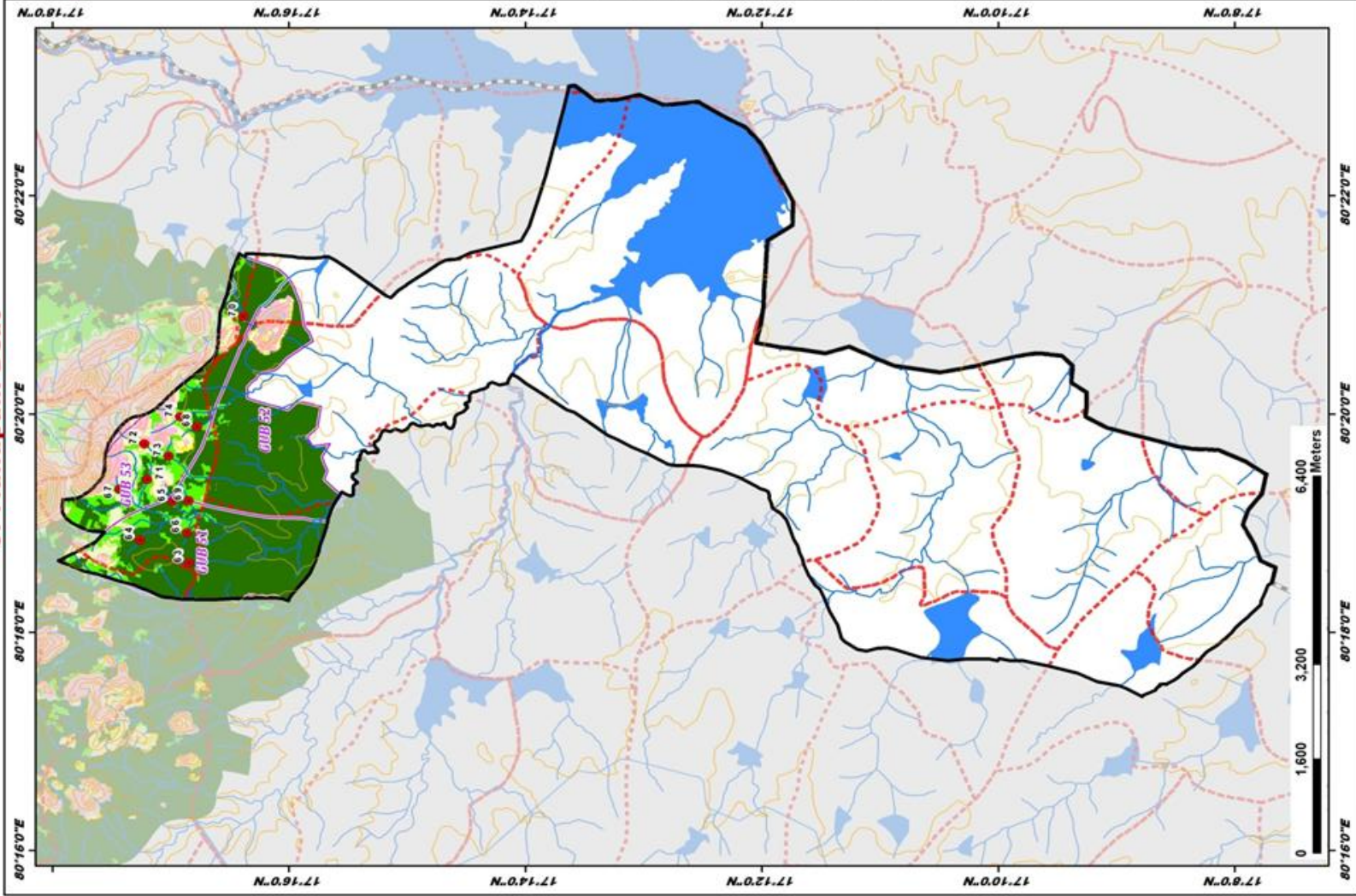
Legend

- 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 Mallupalli Beat



Division : Khammam
Range : Khammam



ID	Latitude	Longitude	Catchment Area_Ha	Priority
63	17.280754	80.310666	10.70	I
64	17.287661	80.314124	17.40	I
65	17.283035	80.320030	9.08	I
66	17.281048	80.315253	12.62	II
67	17.290562	80.321899	16.15	II
68	17.279601	80.331417	6.59	II
69	17.280777	80.320177	12.89	II
70	17.273099	80.348237	13.40	II
71	17.286651	80.323377	11.10	II
72	17.287027	80.328814	35.78	V
73	17.283622	80.326985	52.52	V
74	17.281984	80.332942	42.61	V

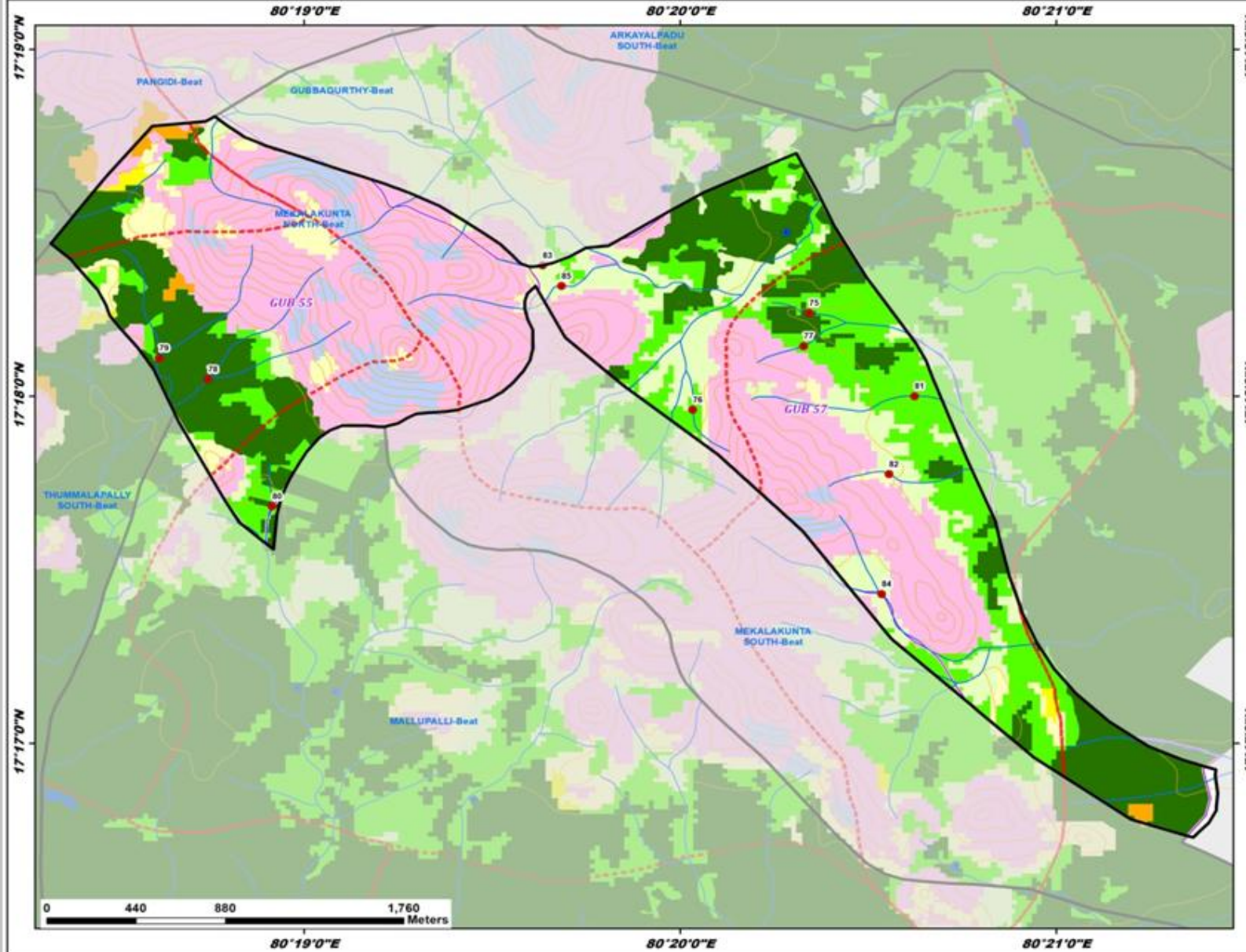
LEGEND

- 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 Mekalakunta North Beat



Division : Khammam
Range : Khammam



ID	Latitude	Longitude	Catchment Area_Ha	Priority
75	17.304012	80.339053	7.73	I
76	17.299351	80.333900	7.85	II
77	17.302421	80.338823	5.88	II
78	17.300829	80.312416	41.26	II
79	17.301837	80.310253	49.77	II
80	17.294721	80.315260	28.93	II
81	17.300014	80.343736	27.72	III
82	17.296269	80.342594	8.36	IV
83	17.306291	80.327252	5.21	IV
84	17.290509	80.342268	36.27	V
85	17.305303	80.328083	34.30	V

Legend

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

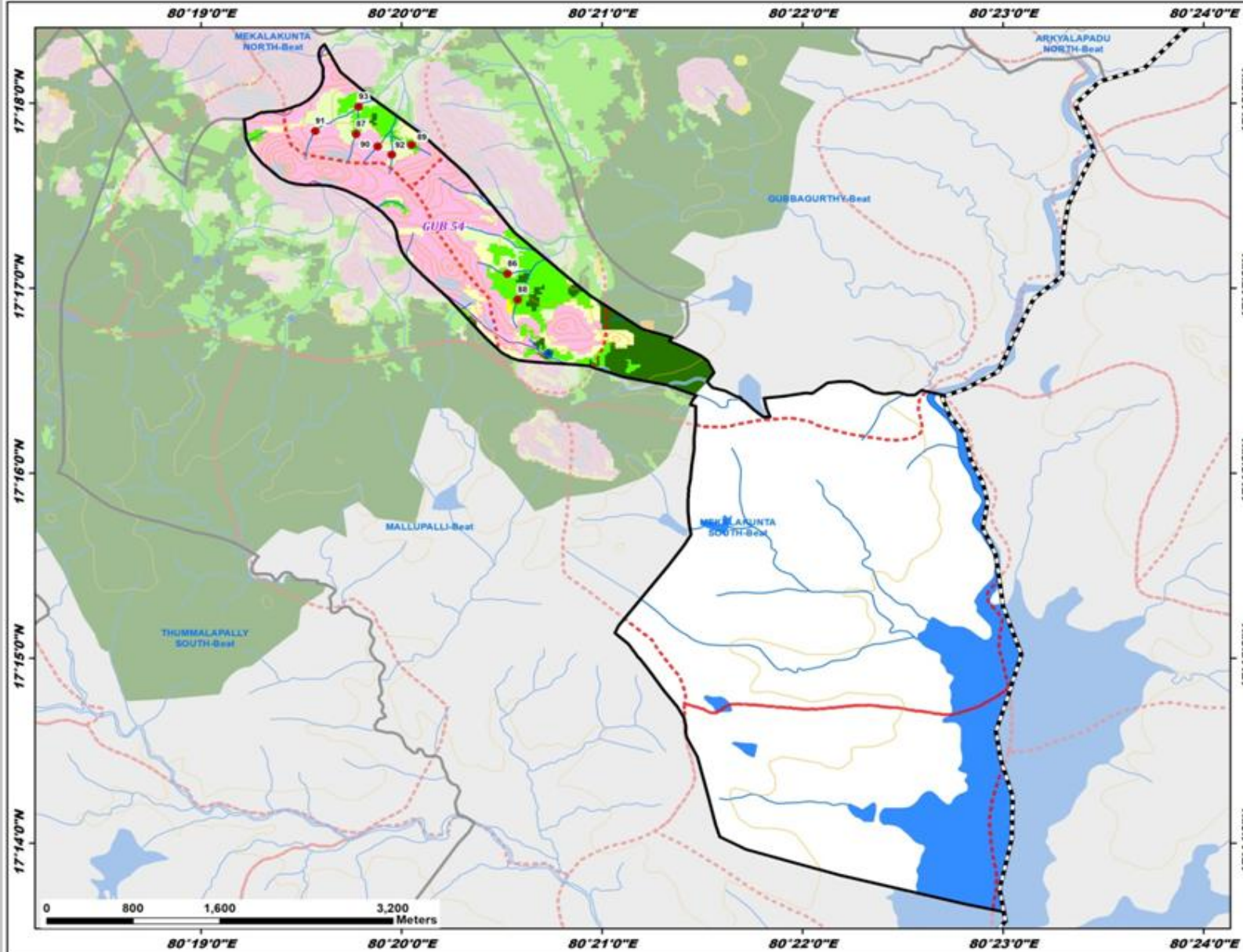
Suitability Index

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

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



Division : Khammam
Range : Khammam



ID	Latitude	Longitude	Catchment Area_Ha	Priority
86	17.284650	80.342152	11.52	II
87	17.297232	80.329554	7.02	II
88	17.282323	80.343012	8.82	II
89	17.296245	80.334180	8.57	II
90	17.296117	80.331363	7.35	IV
91	17.297497	80.326163	12.59	IV
92	17.295373	80.332540	11.00	IV
93	17.299704	80.329785	56.88	V

Legend

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

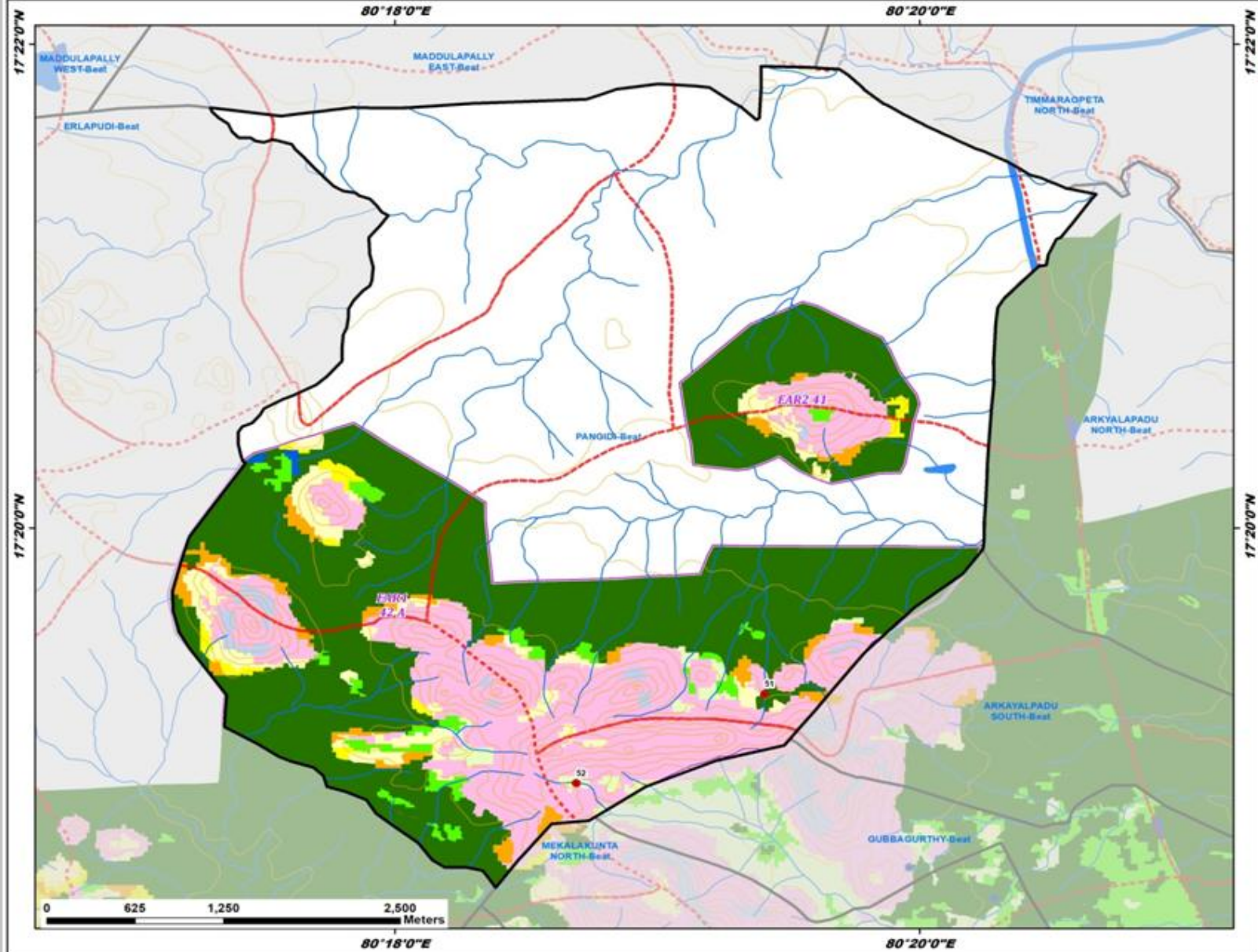
Suitability Index

- 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 Pangidi Beat



Division : Khammam
Range : Khammam



ID	Latitude	Longitude	Catchment Area_Ha	Priority
51	17.321925	80.323477	12.63	I
52	17.315784	80.311520	8.41	IV

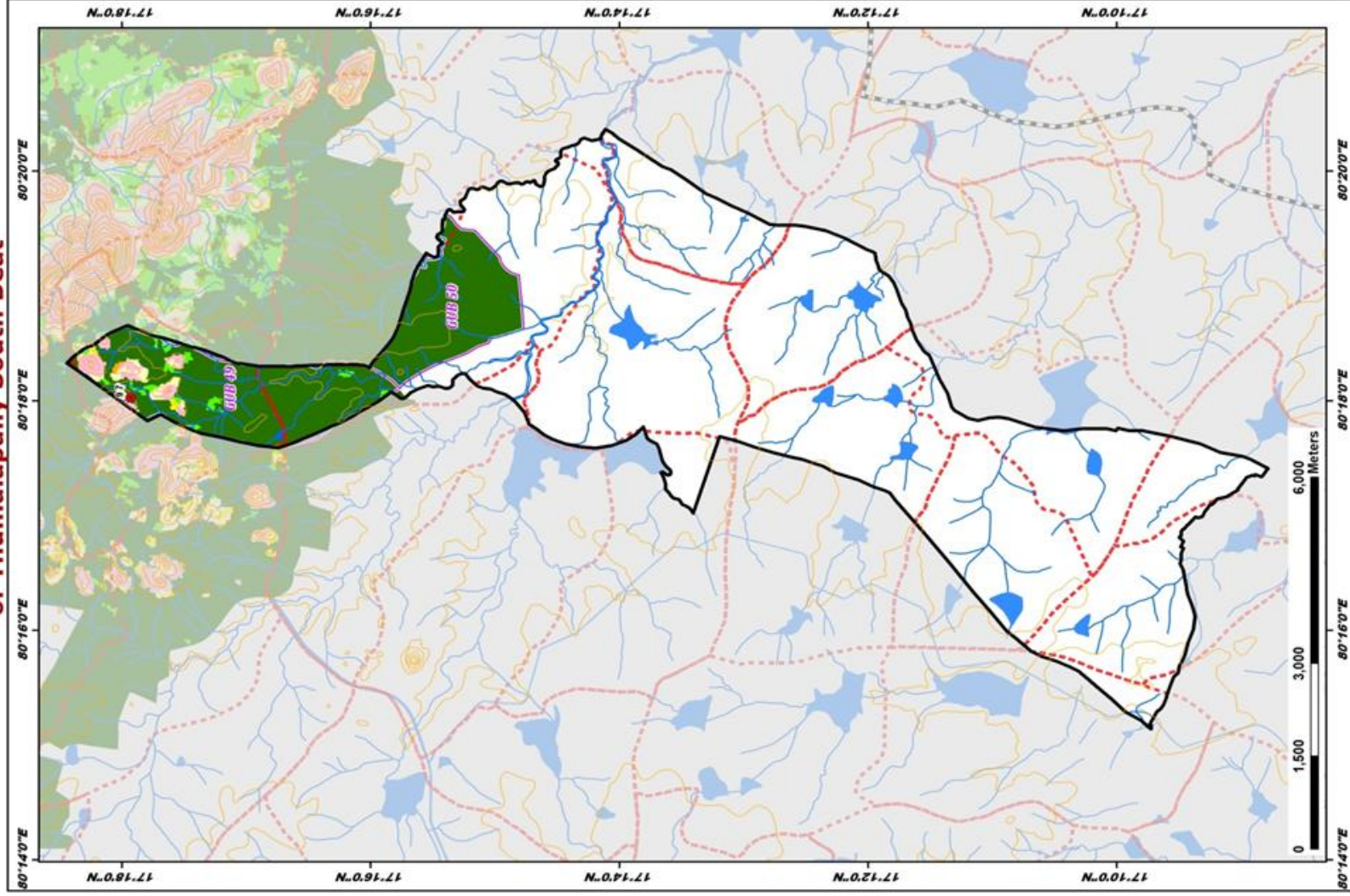
Legend

- 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 Thumalappally South Beat



Division : Khammam
Range : Khammam



ID	Latitude	Longitude	Catchment Area_Ha	Priority
97	17.298799	80.30522	6.61	I

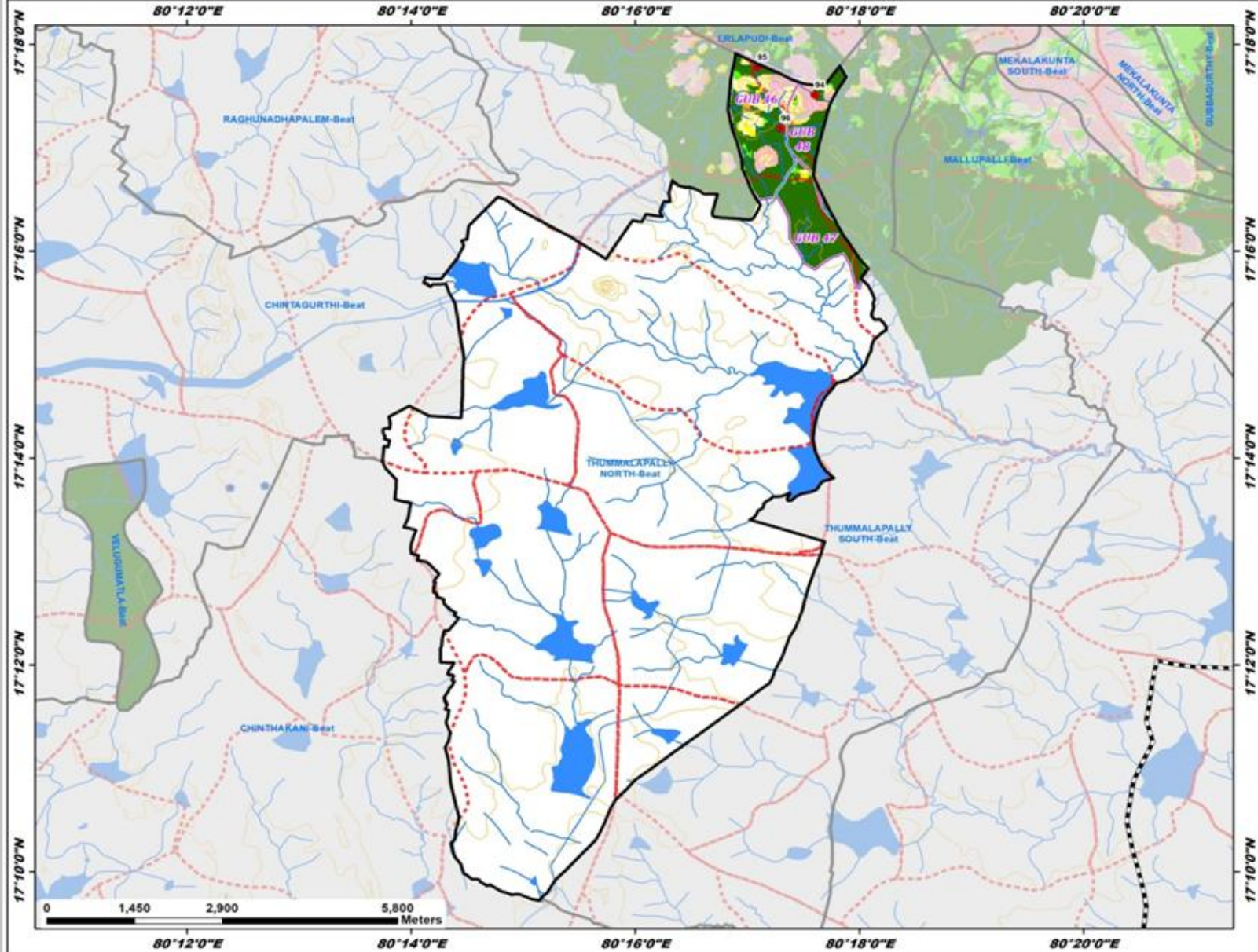
LEGEND

- Proposed_PTs
 - Existing CD/PTs
 - Contours
 - Streams
 - Watershed Boundary
 - Compartment Boundary
 - Beat Boundary
 - Division_Boundary
- ### Suitability Index
- CCTs/SCTs - Highly Suitable
 - CCTs/SCTs - Moderately Suitable
 - CCTs/SCTs - Least Suitable
 - PTs - Highly Suitable
 - PTs - Moderately Suitable
 - PTs - Least Suitable
 - MPTs and SGP's - Suitable
 - Not Suitable
 - Water Body

Map Showing Suitability index for Construction of SMC Works of Thumalapally North Beat



Division : Khammam
Range : Khammam



ID	Latitude	Longitude	Catchment Area_Ha	Priority
94	17.291859	80.293421	8.94	I
95	17.296326	80.284886	9.11	I
96	17.286471	80.288317	40.59	II

Legend

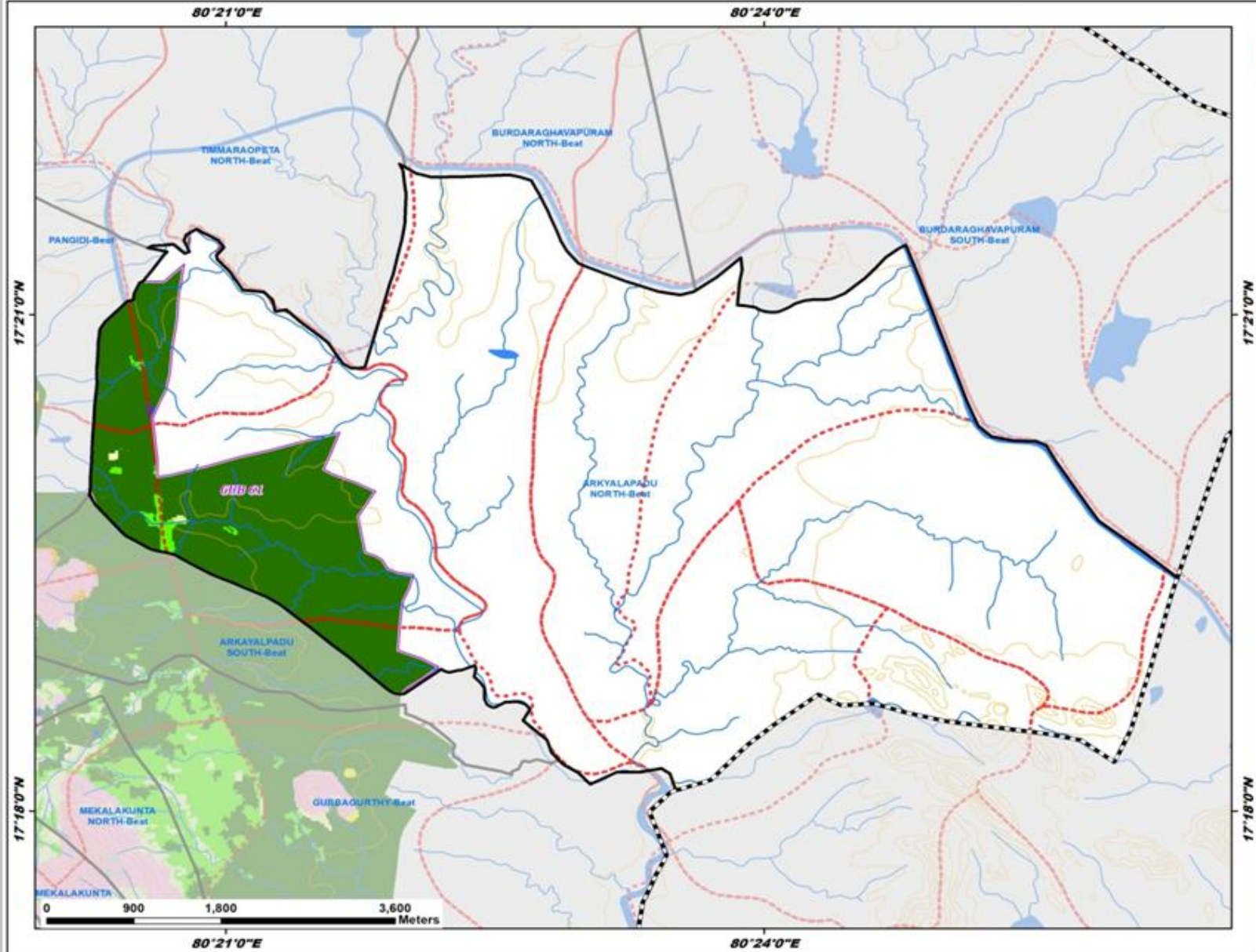
- Proposed_PTs
- Existing CD/PTs
- Contours
- Streams
- - - Watershed Boundary
- Compartment Boundary
- Beat Boundary
- - - Division Boundary

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

Map Showing Suitability index for Construction of SMC Works of Arkayalpadu North Beat



Division : Khammam
Range : Khammam



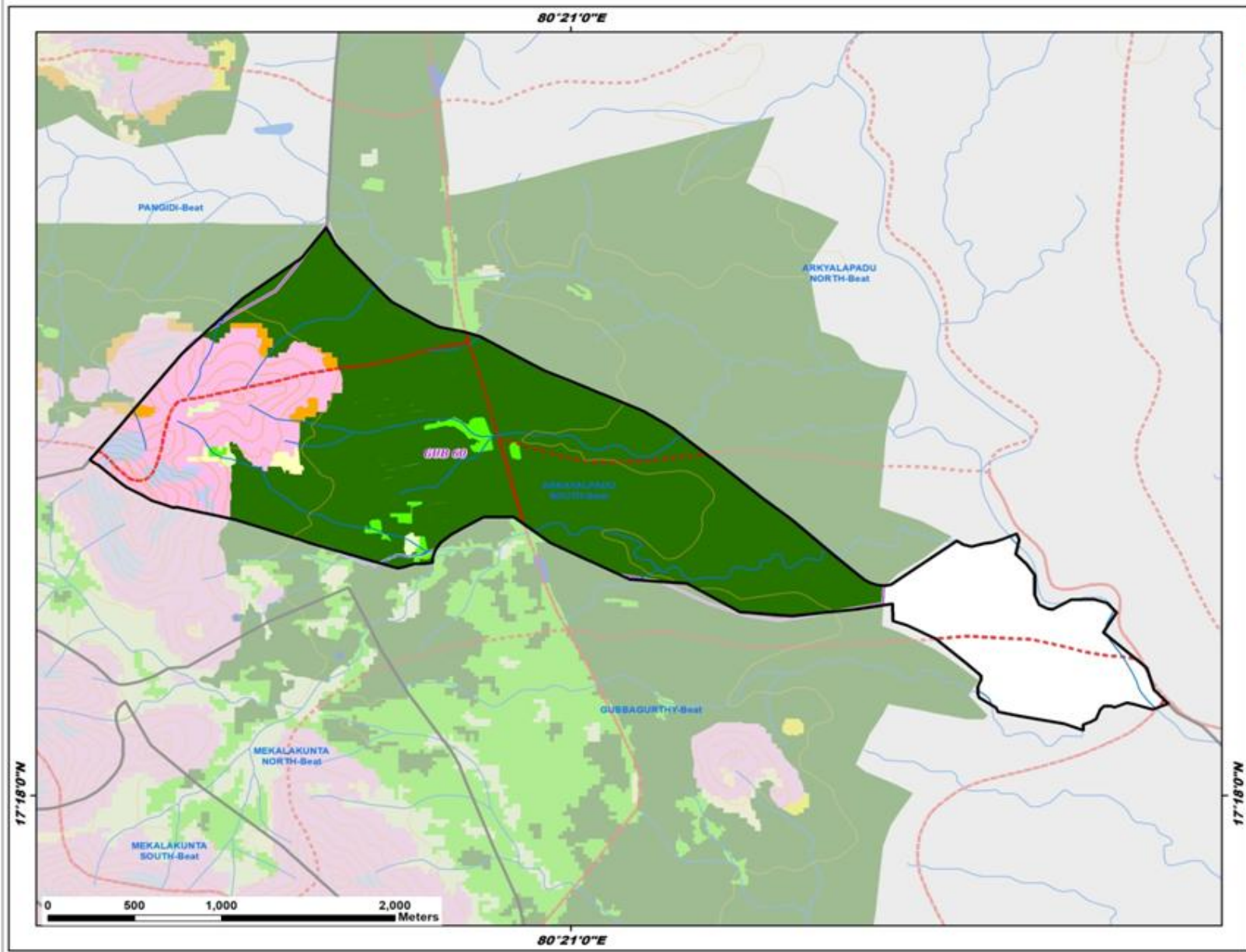
Legend

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

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



Division : Khammam
Range : Khammam



Legend

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

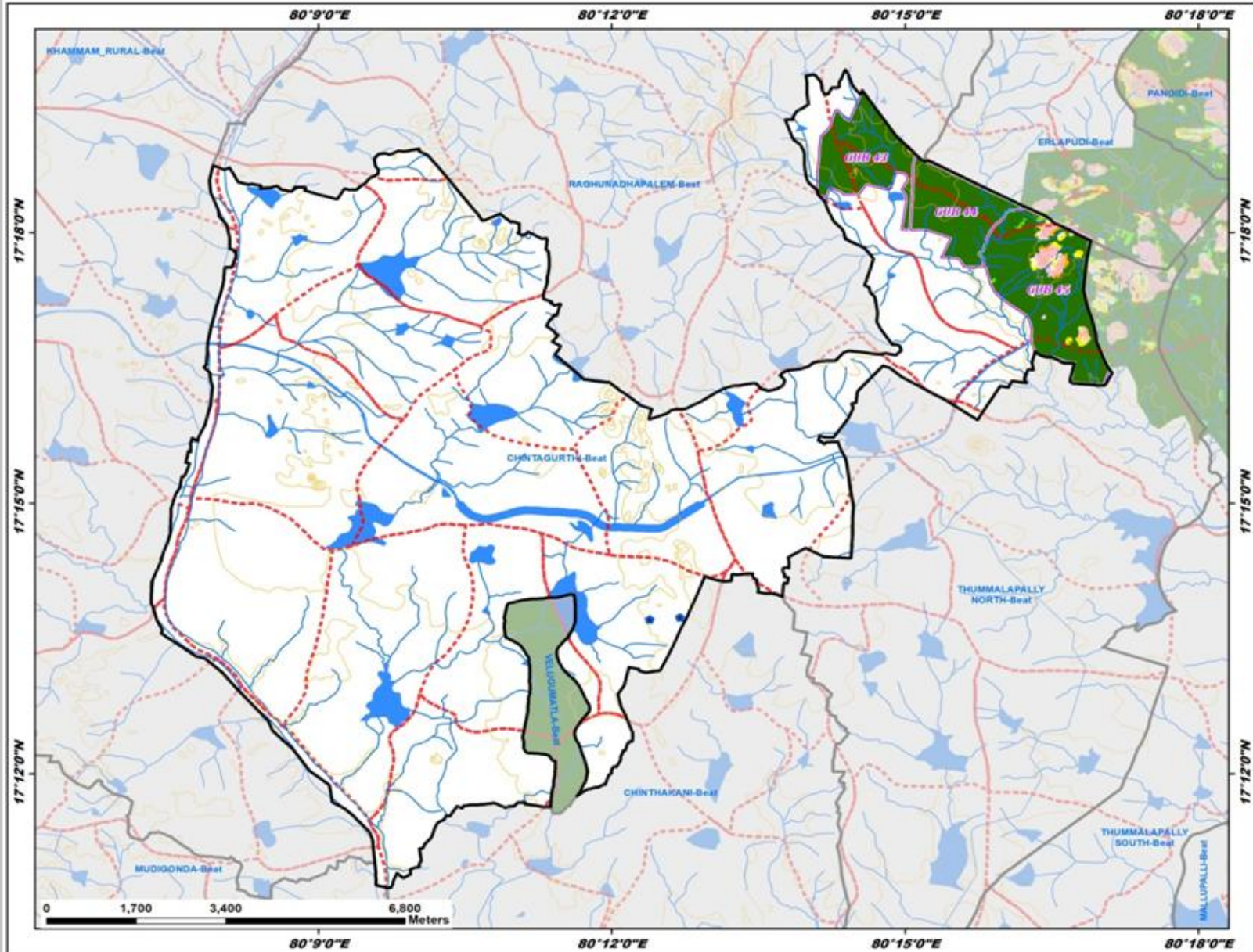
Suitability Index

- 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 Chintagurthi Beat



Division : Khammam
Range : Khammam



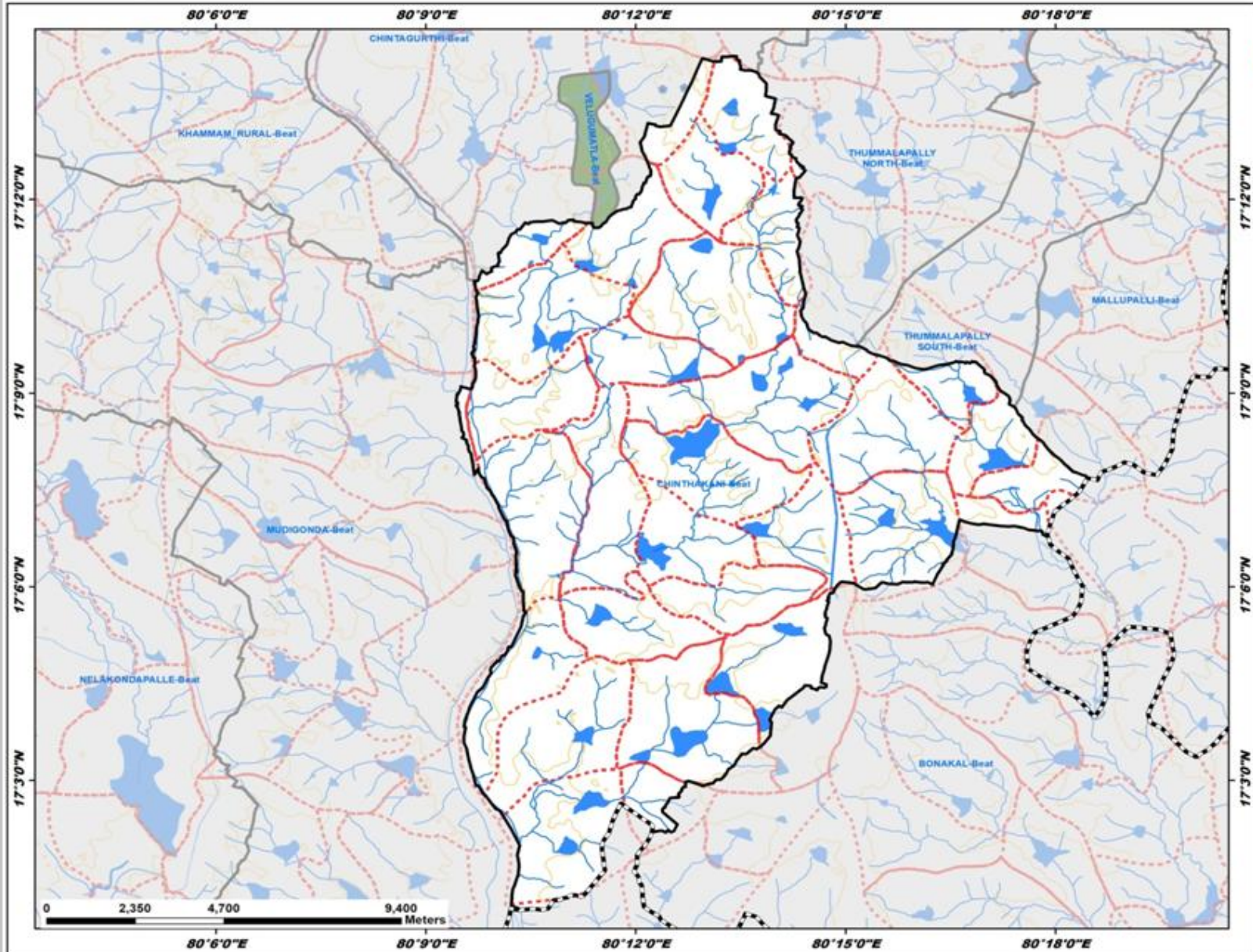
Legend

- 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 Chinthakani Beat



Division : Khammam
Range : Khammam



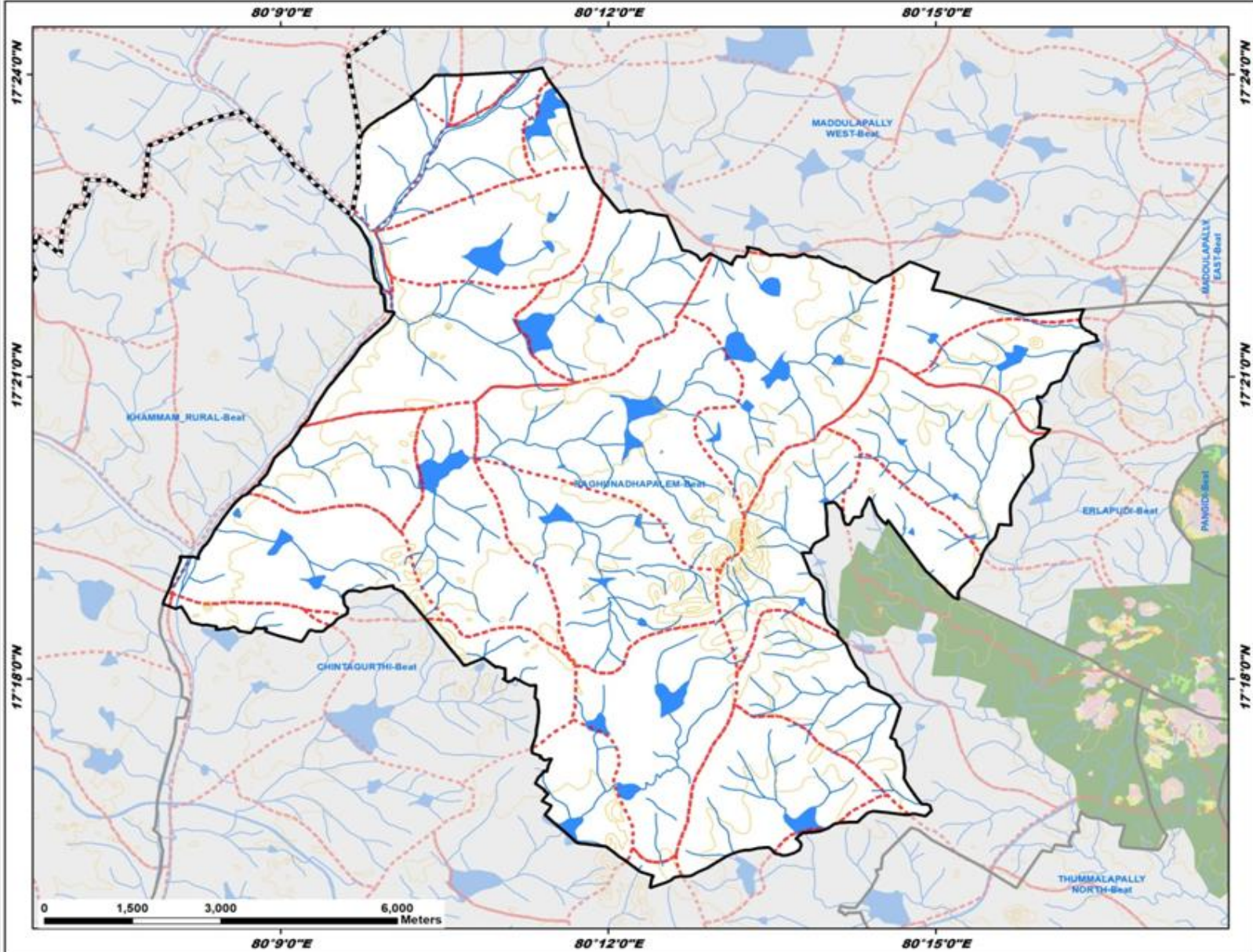
Legend

- 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 Raghunadhapalem Beat



Division : Khammam
Range : Khammam



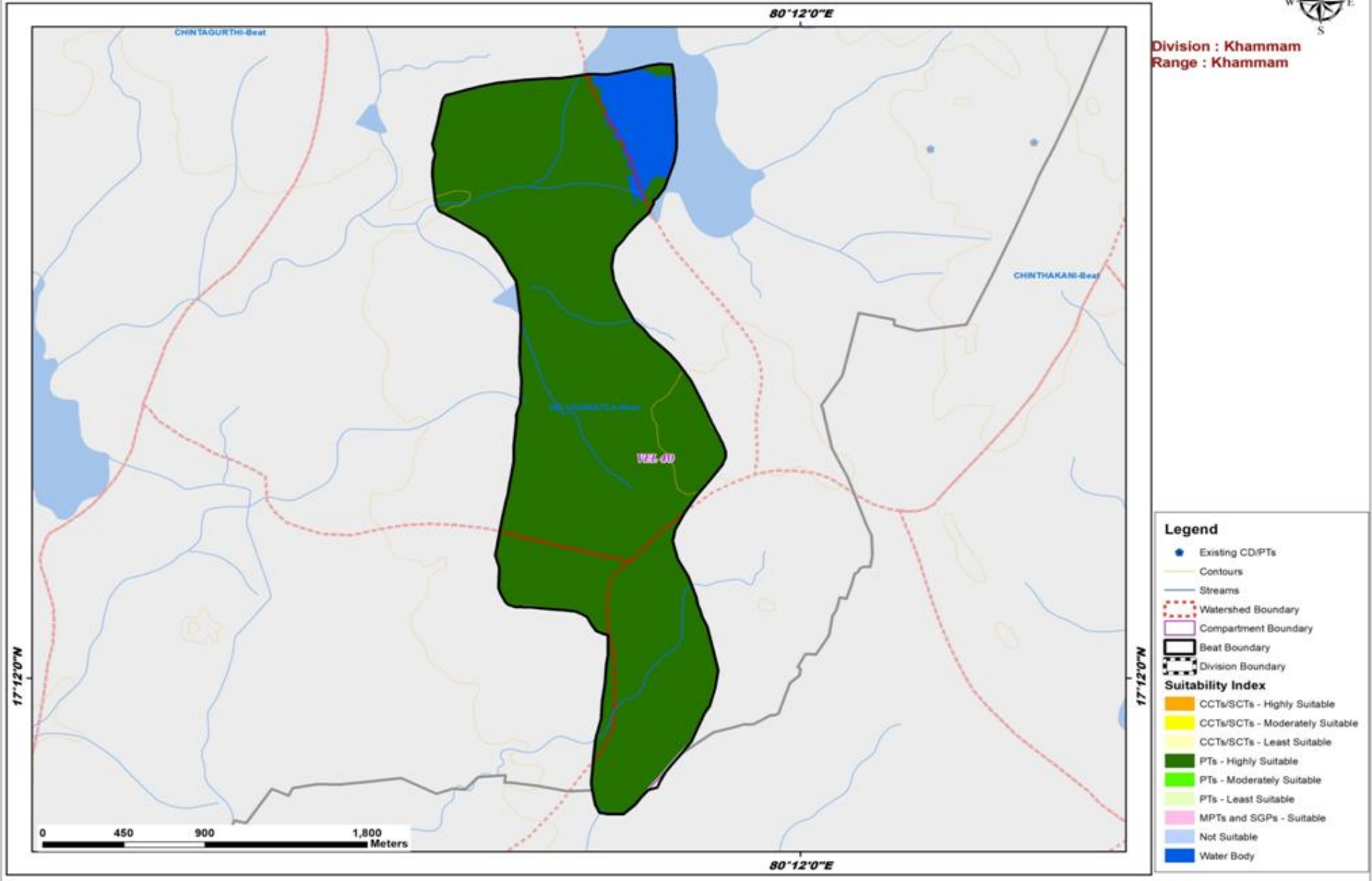
Legend

- 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

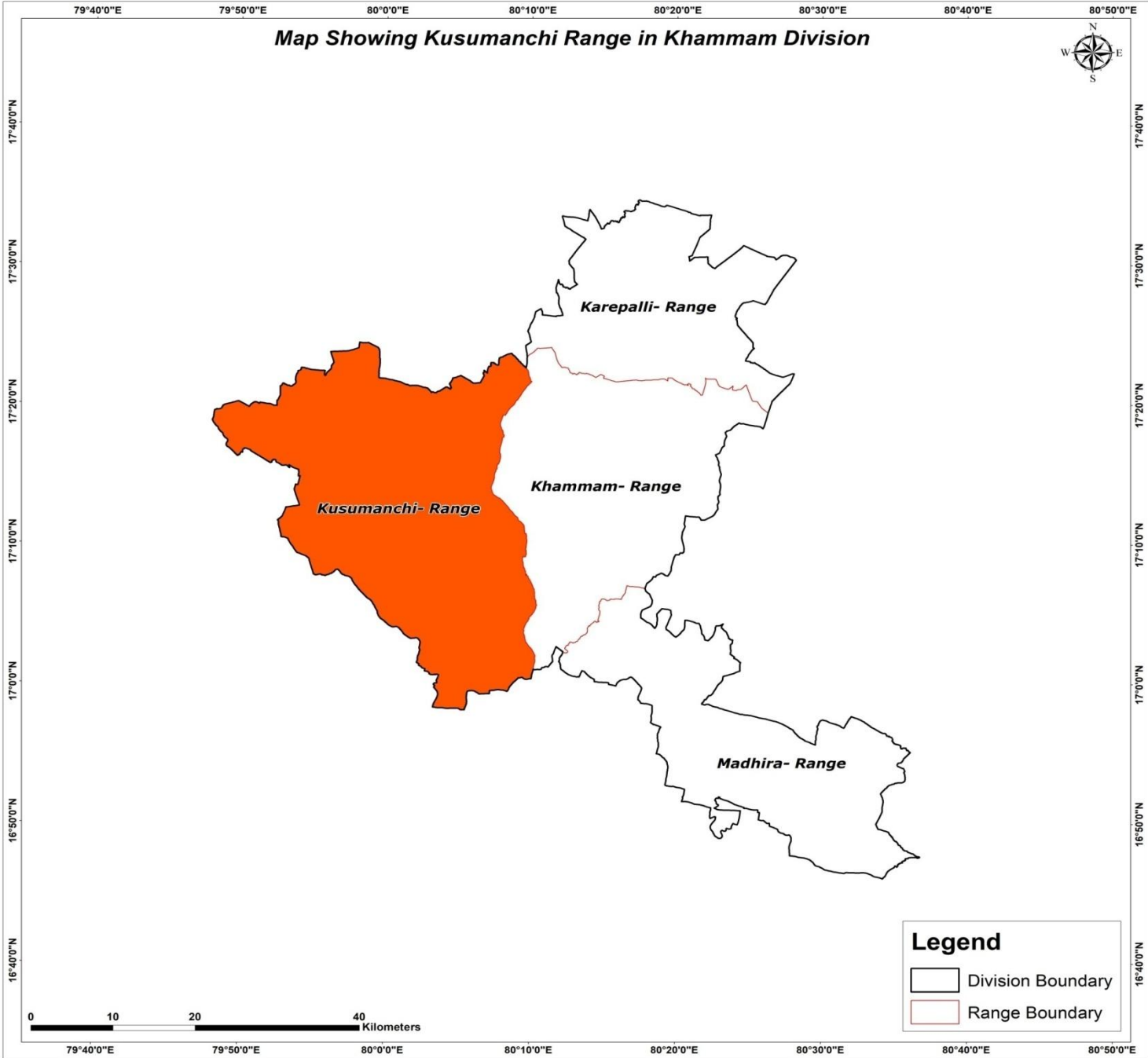
Map Showing Suitability index for Construction of SMC Works of Velugumatla Beat

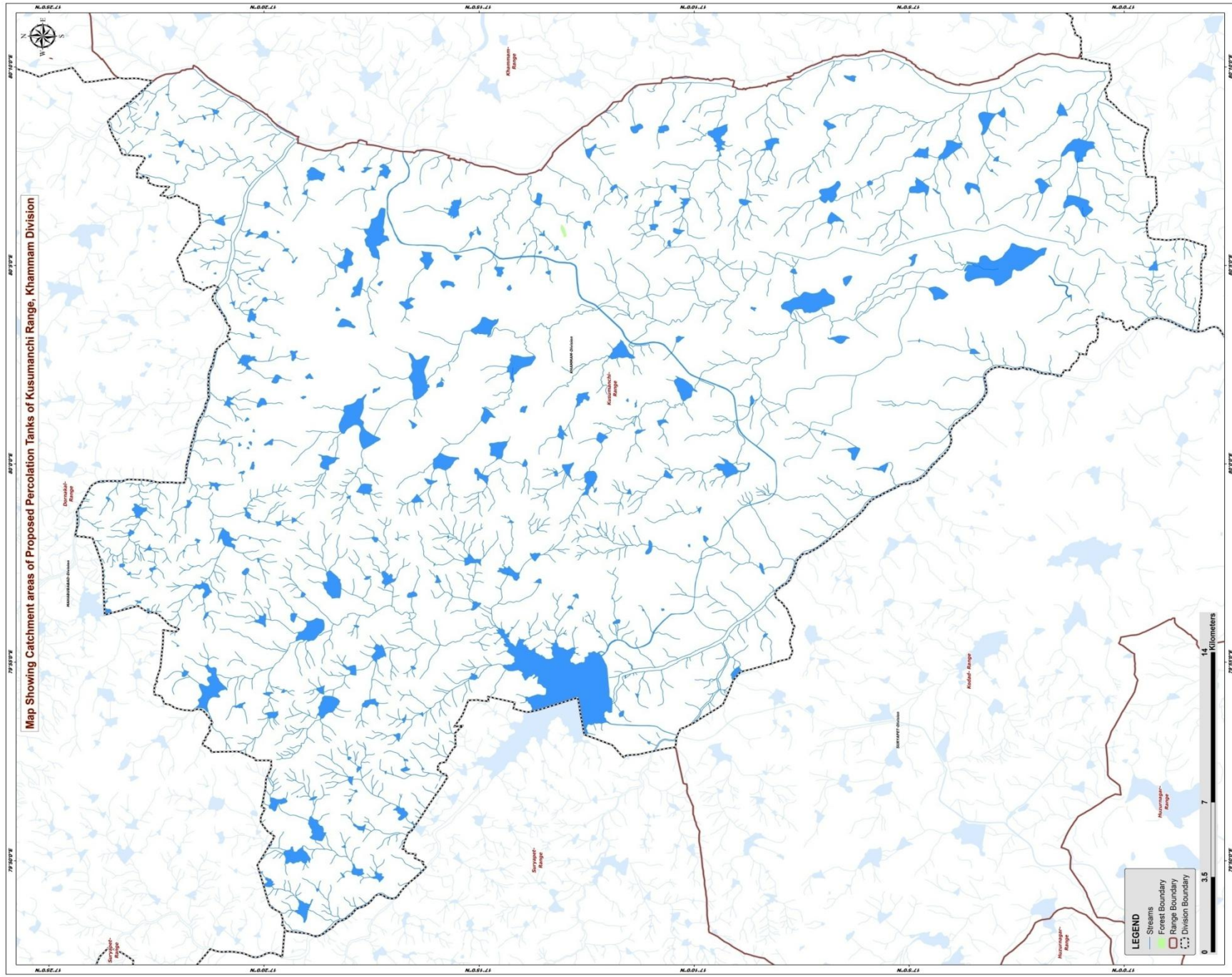


Division : Khammam
Range : Khammam



Map Showing Kusumanchi Range in Khammam Division

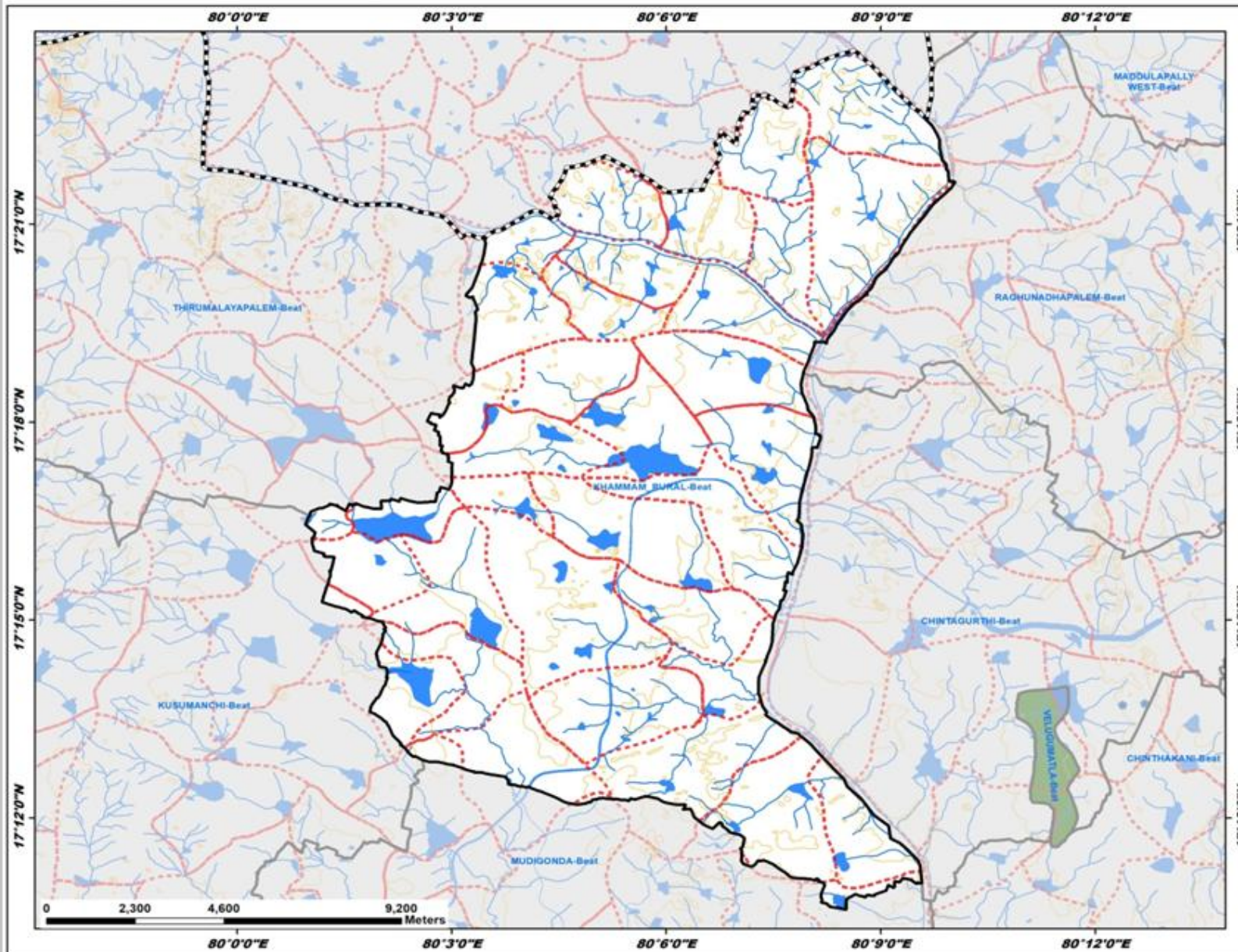




Map Showing Suitability index for Construction of SMC Works of Khammam Rural Beat



Division : Khammam
Range : Kusumanchi



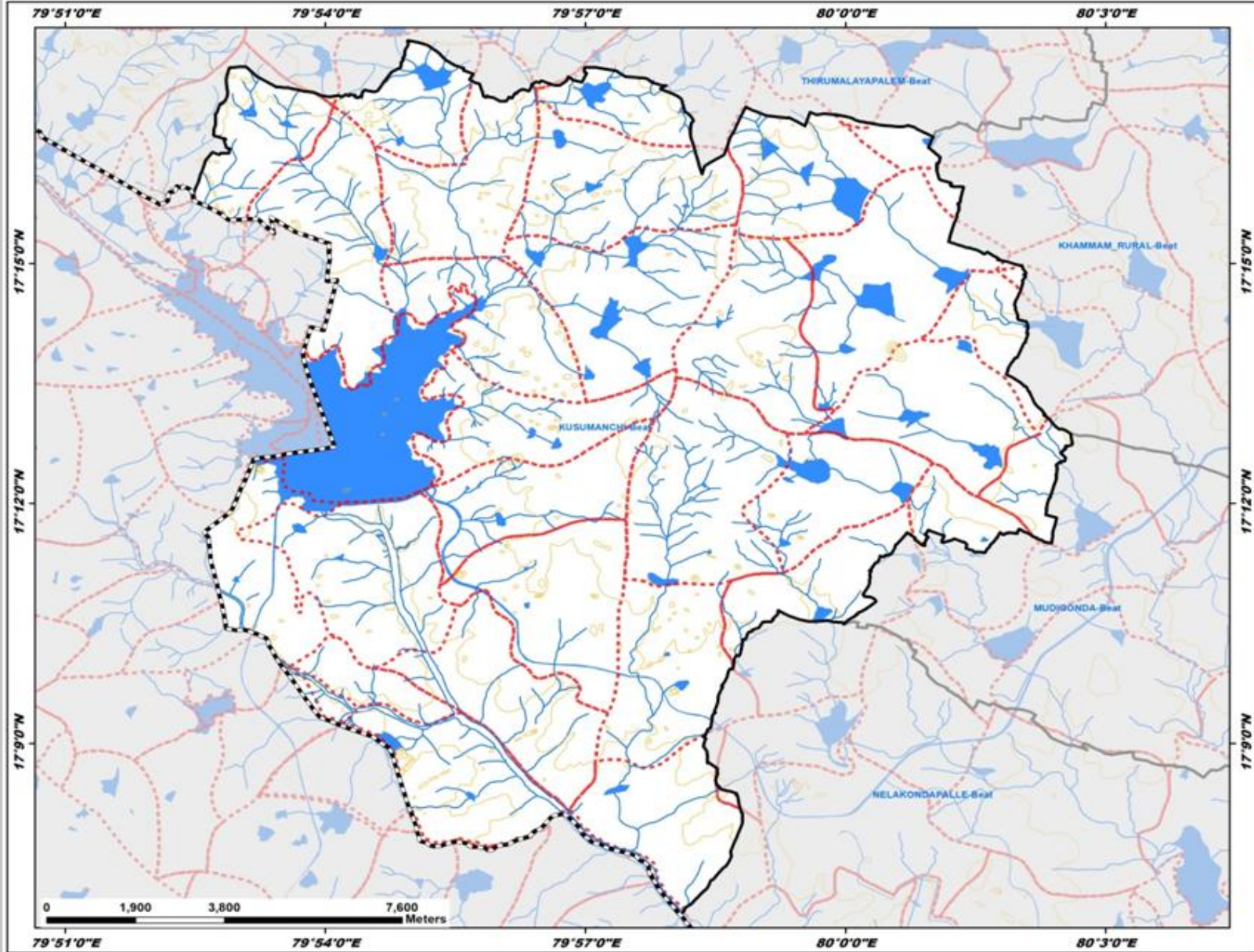
Legend

- 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 Kusumanchi Beat



Division : Khammam
Range : Kusumanchi



Legend

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

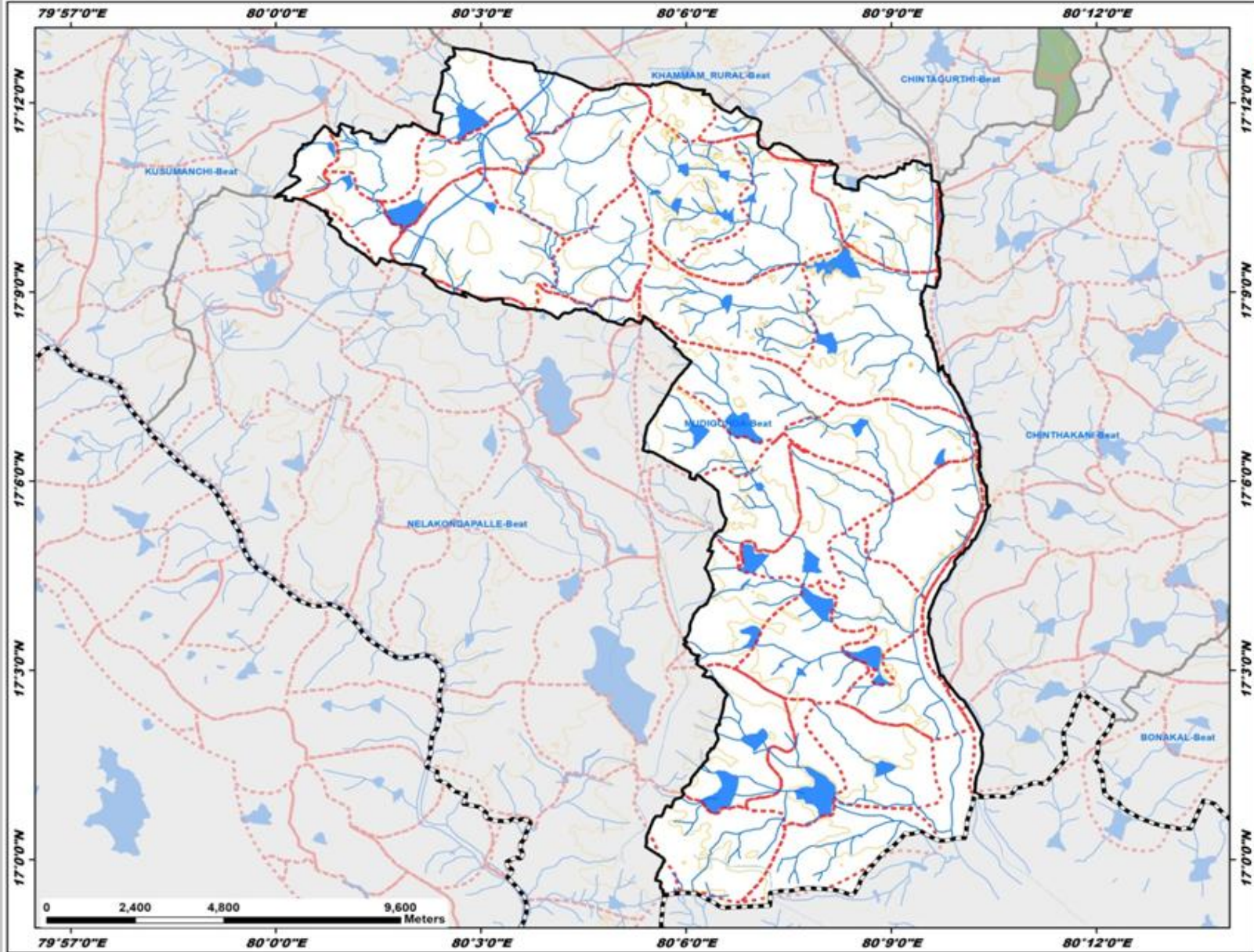
Suitability Index

- 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 Mudigonda Beat



Division : Khammam
Range : Kusumanchi



Legend

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

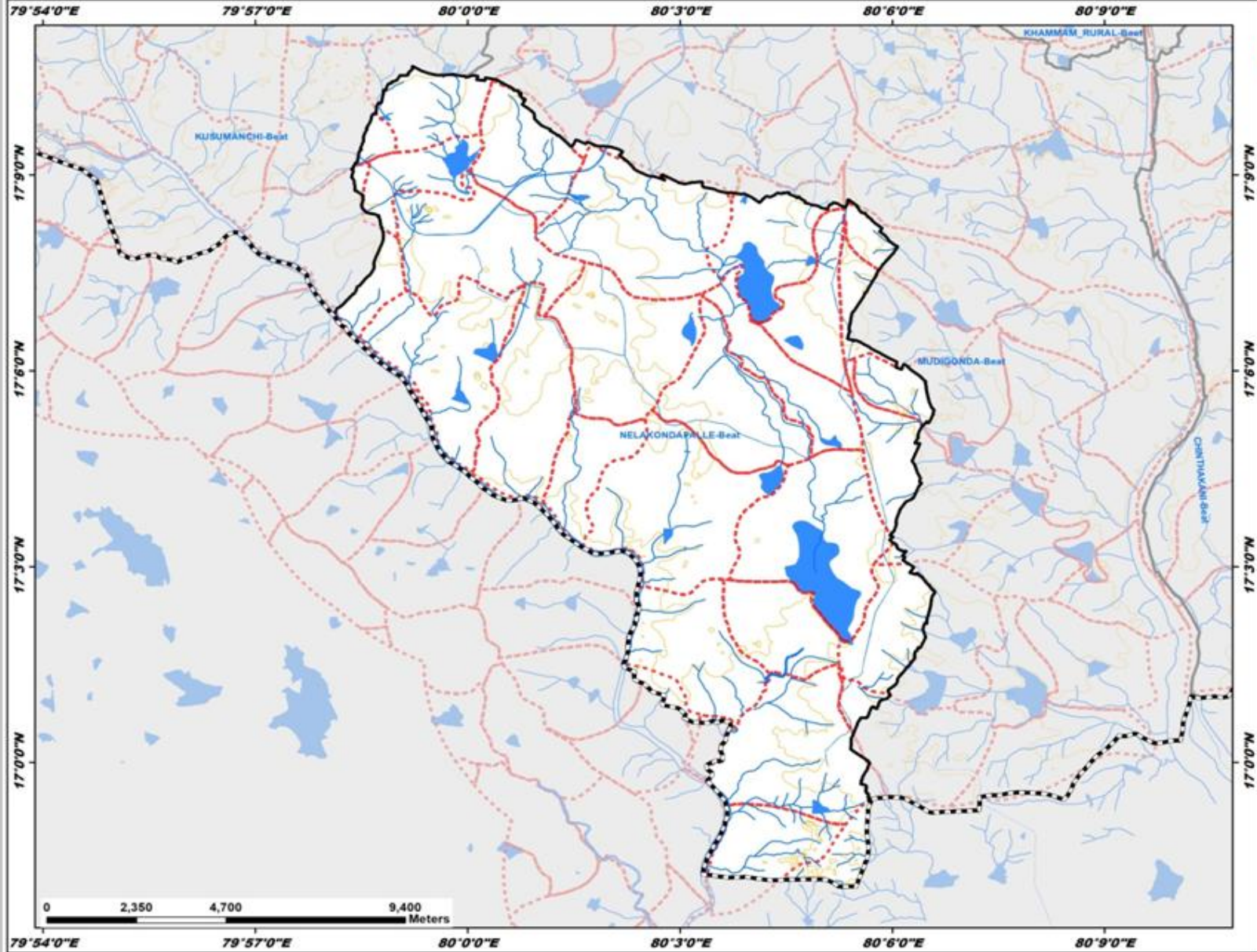
Suitability Index

- 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 Nelakondapalle Beat



Division : Khammam
Range : Kusumanchi



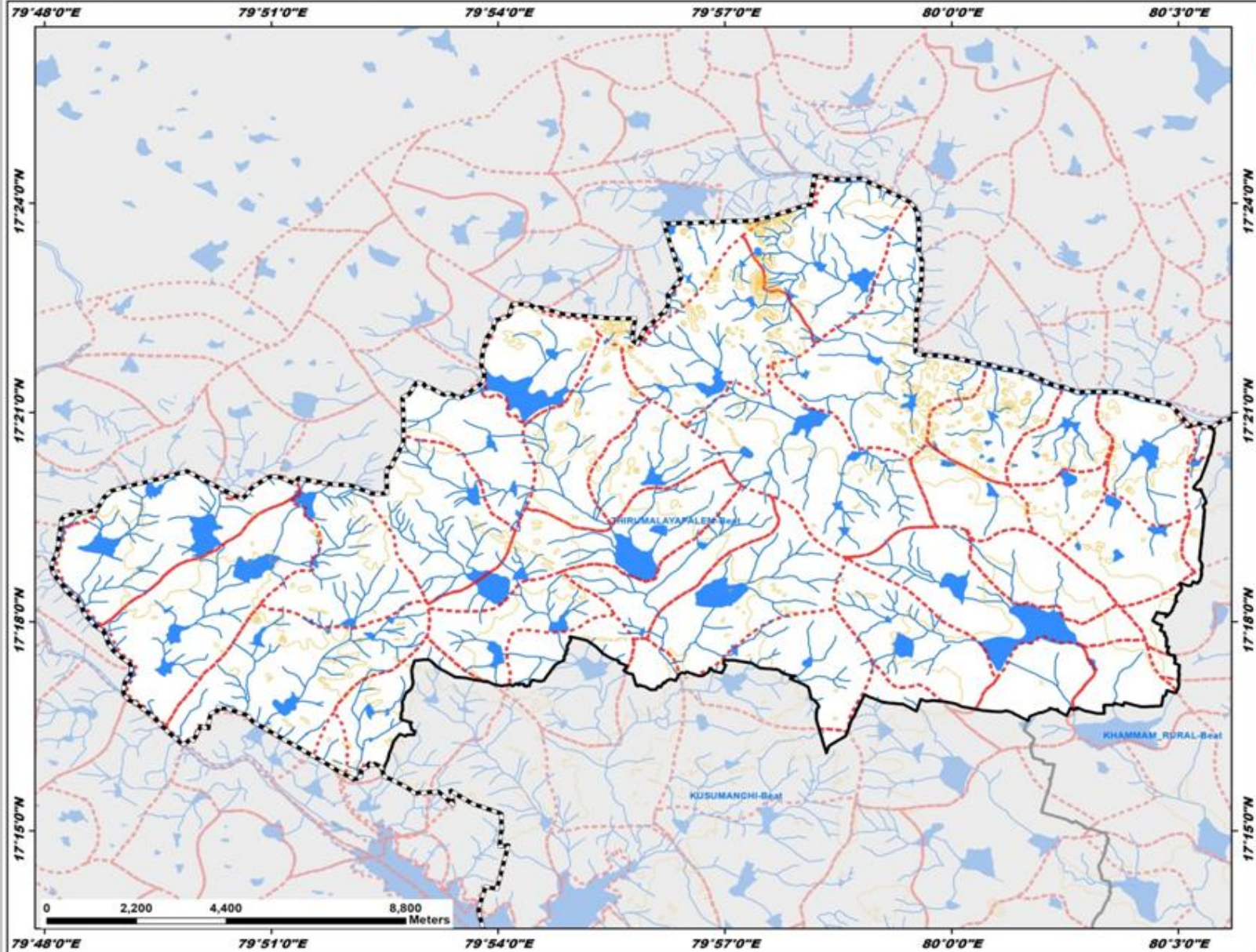
Legend

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

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



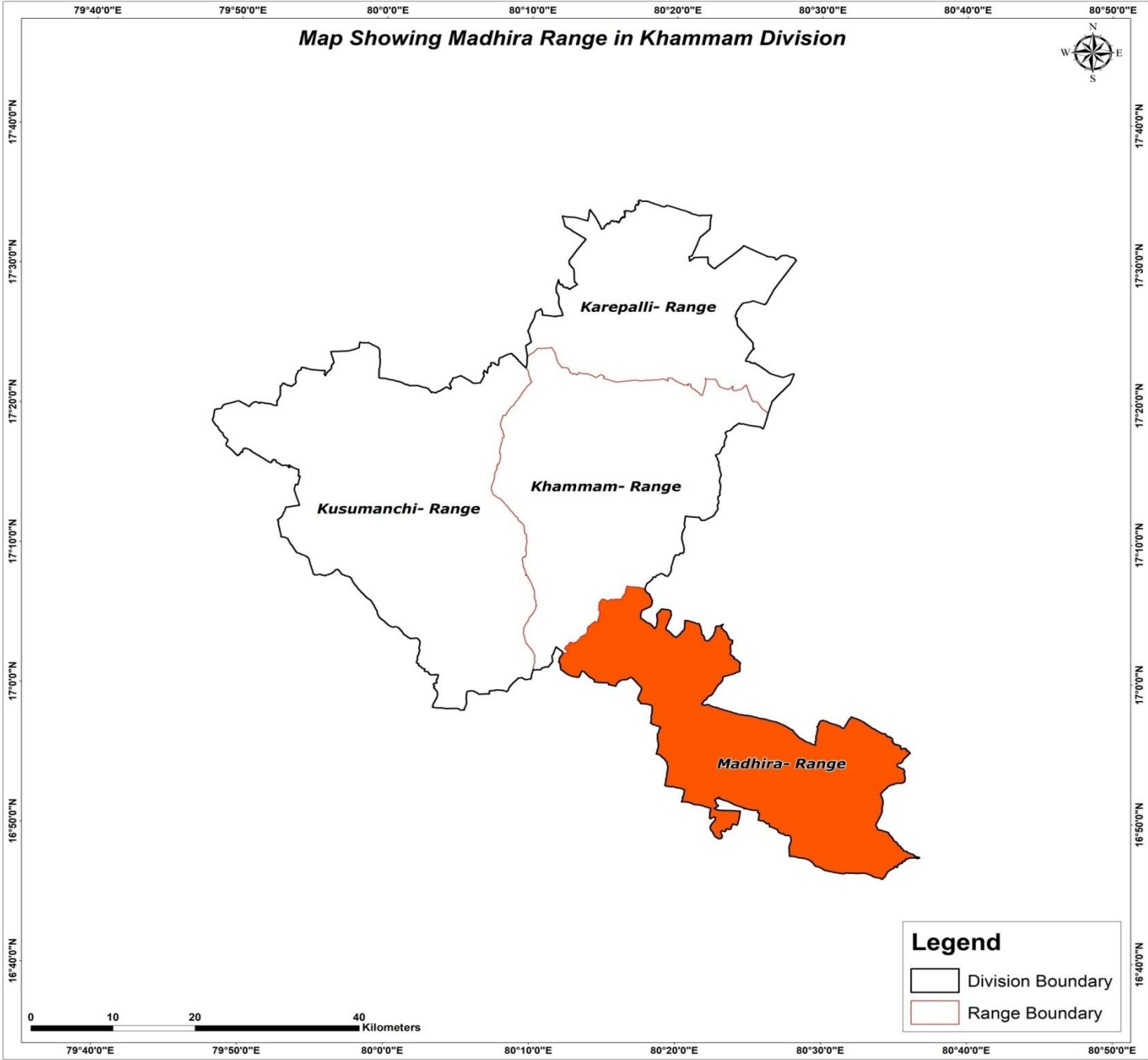
Division : Khammam
Range : Kusumanchi



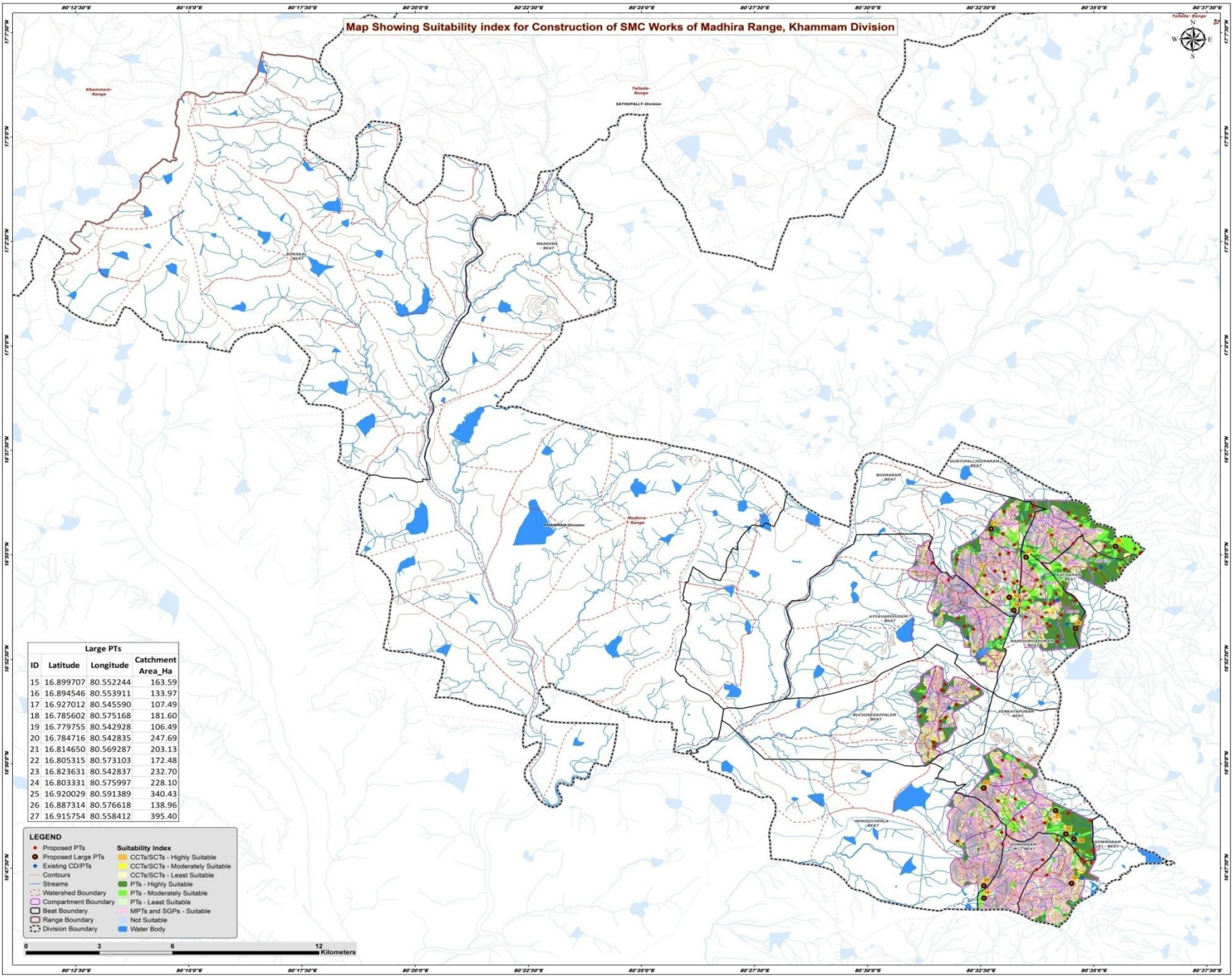
Legend

- 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 Madhira Range in Khammam Division



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



Large PTs			
ID	Latitude	Longitude	Catchment Area_Ha
15	16.899707	80.552244	163.59
16	16.894546	80.553911	133.97
17	16.927012	80.545590	107.49
18	16.785602	80.575168	181.60
19	16.779755	80.542928	106.49
20	16.784716	80.542835	247.69
21	16.814650	80.569287	203.13
22	16.805315	80.573103	172.48
23	16.823631	80.542837	232.70
24	16.803331	80.575997	228.10
25	16.920029	80.591389	340.43
26	16.887314	80.576618	138.96
27	16.915754	80.558412	395.40

- LEGEND**
- Proposed PTs
 - Existing CD/PTs
 - Contours
 - Streams
 - Watershed Boundary
 - Compartment Boundary
 - West Boundary
 - Range Boundary
 - Division Boundary
 - 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



Beat wise Abstract of Proposed PT's – Madhira Range

S. No.	Beat	Proposed PT's
1	AYYAVARIGUDEM	6
2	BHIMARAM	18
3	BUCHIREDDIPALEM	12
4	GOWRARAM EAST	5
5	GOWRARAM WEST	2
6	GUNTIPALLIGOPARAM	9
7	KACHARAM	4
8	NARSHIMHAPURAM	19
9	REMIDICHERLA	4
10	VENKATAPURAM	13
	Total	92

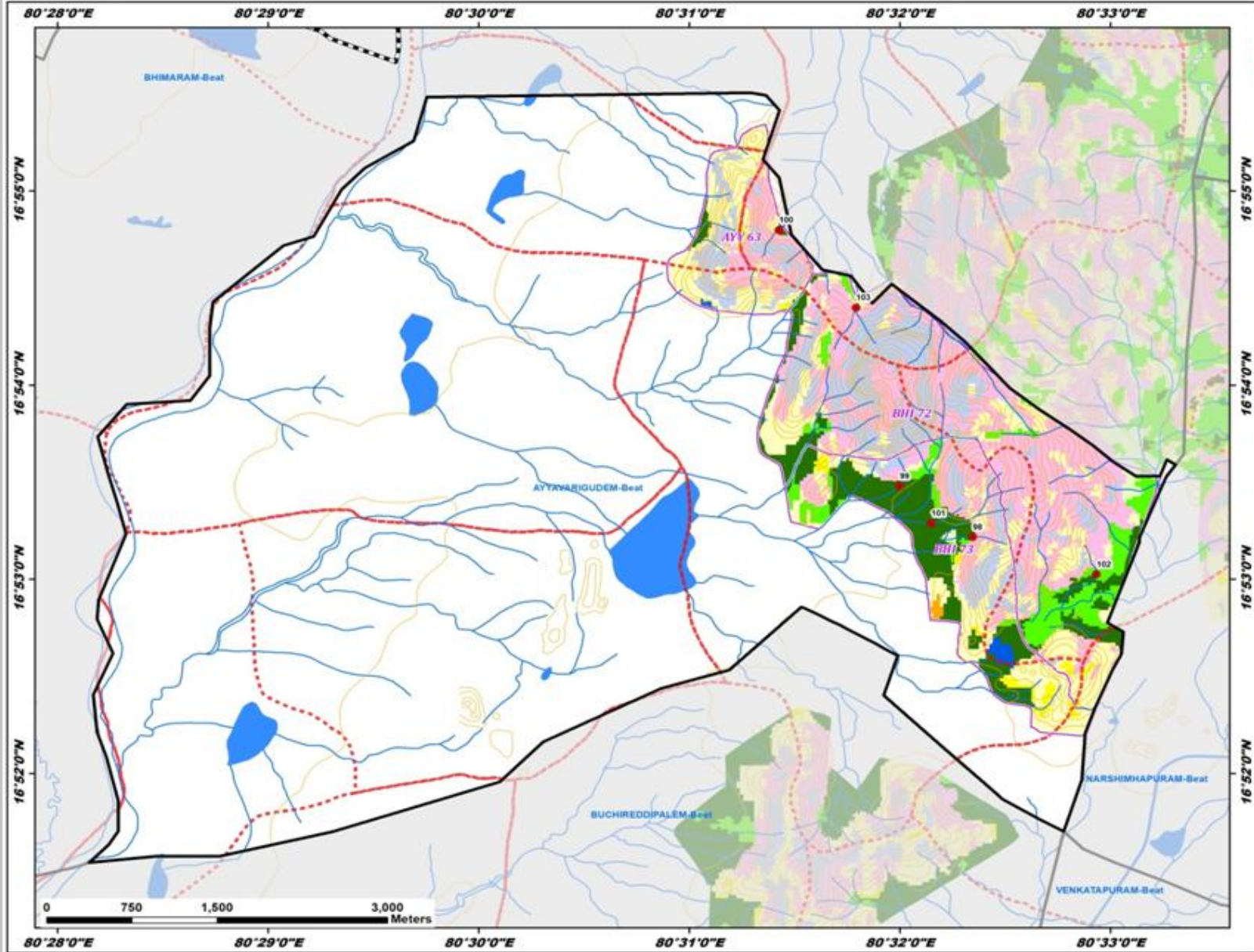
List of Proposed PTs – Madhira Range

ID	Latitude	Longitude	Catchment Area_Ha	Priority	Beat	ID	Latitude	Longitude	Catchment Area_Ha	Priority	Beat	ID	Latitude	Longitude	Catchment Area_Ha	Priority	Beat
98	16.886970	80.539122	8.05	I	AYYAVARIGUDEM	138	16.791072	80.562337	36.80	V	GOWRARAM EAST	178	16.884137	80.570213	13.25	I	NARSHIMHAPURAM
99	16.891342	80.533345	7.80	I	AYYAVARIGUDEM	139	16.802886	80.570016	27.88	III	GOWRARAM WEST	179	16.898560	80.559852	9.40	II	NARSHIMHAPURAM
100	16.913310	80.523780	10.06	I	AYYAVARIGUDEM	140	16.794964	80.564575	41.88	V	GOWRARAM WEST	180	16.889307	80.566202	7.63	II	NARSHIMHAPURAM
101	16.888143	80.535834	6.59	I	AYYAVARIGUDEM	141	16.802461	80.533279	10.89	I	REMIDICHERLA	181	16.891919	80.558315	5.74	II	NARSHIMHAPURAM
102	16.883771	80.548909	5.37	II	AYYAVARIGUDEM	142	16.801225	80.549764	24.66	IV	REMIDICHERLA	182	16.898298	80.576559	15.62	II	NARSHIMHAPURAM
103	16.906654	80.529880	23.37	IV	AYYAVARIGUDEM	143	16.805935	80.549471	10.80	IV	REMIDICHERLA	183	16.911198	80.560796	14.74	II	NARSHIMHAPURAM
104	16.932240	80.560027	5.65	I	BHIMARAM	144	16.808330	80.545793	41.46	V	REMIDICHERLA	184	16.902086	80.557620	15.23	II	NARSHIMHAPURAM
105	16.914906	80.532932	10.02	I	BHIMARAM	145	16.810801	80.582207	15.77	I	VENKATAPURAM	185	16.904096	80.563949	11.53	II	NARSHIMHAPURAM
106	16.933928	80.550286	18.85	I	BHIMARAM	146	16.799129	80.576405	10.48	I	VENKATAPURAM	186	16.906685	80.562395	6.53	II	NARSHIMHAPURAM
107	16.916882	80.548777	18.43	II	BHIMARAM	147	16.813540	80.574002	18.64	I	VENKATAPURAM	187	16.891820	80.564276	10.46	II	NARSHIMHAPURAM
108	16.920660	80.554100	7.49	II	BHIMARAM	148	16.798773	80.583025	29.40	II	VENKATAPURAM	188	16.897115	80.567293	7.02	II	NARSHIMHAPURAM
109	16.908444	80.543151	5.08	II	BHIMARAM	149	16.811998	80.556987	13.64	II	VENKATAPURAM	189	16.903947	80.556668	10.27	II	NARSHIMHAPURAM
110	16.917314	80.551954	10.48	II	BHIMARAM	150	16.818557	80.548136	16.18	II	VENKATAPURAM						
111	16.935970	80.561145	7.97	II	BHIMARAM	151	16.827265	80.557471	8.39	II	VENKATAPURAM						
112	16.900871	80.543907	7.98	II	BHIMARAM	152	16.811108	80.553982	11.61	II	VENKATAPURAM						
113	16.905377	80.553910	5.95	II	BHIMARAM	153	16.834787	80.549749	5.78	II	VENKATAPURAM						
114	16.925074	80.549859	46.43	III	BHIMARAM	154	16.809719	80.565356	9.94	II	VENKATAPURAM						
115	16.923461	80.545738	26.79	III	BHIMARAM	155	16.828293	80.549259	46.63	III	VENKATAPURAM						
116	16.910224	80.546973	6.41	IV	BHIMARAM	156	16.819285	80.554492	27.76	III	VENKATAPURAM						
117	16.909726	80.550389	15.26	IV	BHIMARAM	157	16.834747	80.555616	47.37	III	VENKATAPURAM						
118	16.901892	80.554169	6.34	IV	BHIMARAM	158	16.918381	80.592768	10.51	I	GUNTIPALLIGOPARAM						
119	16.906975	80.550679	42.97	V	BHIMARAM	159	16.920274	80.587521	14.54	I	GUNTIPALLIGOPARAM						
120	16.906185	80.555163	33.81	V	BHIMARAM	160	16.931344	80.576669	13.12	I	GUNTIPALLIGOPARAM						
121	16.901809	80.546223	29.85	V	BHIMARAM	161	16.933474	80.574072	24.97	I	GUNTIPALLIGOPARAM						
122	16.840278	80.524764	8.77	I	BUCHIREDDIPALEM	162	16.917525	80.600461	8.62	II	GUNTIPALLIGOPARAM						
123	16.856863	80.532803	15.36	I	BUCHIREDDIPALEM	163	16.919018	80.598540	22.30	II	GUNTIPALLIGOPARAM						
124	16.851676	80.528755	5.75	I	BUCHIREDDIPALEM	164	16.928336	80.578578	33.19	II	GUNTIPALLIGOPARAM						
125	16.865004	80.528638	18.55	I	BUCHIREDDIPALEM	165	16.921183	80.575768	28.15	III	GUNTIPALLIGOPARAM						
126	16.862677	80.527956	19.41	I	BUCHIREDDIPALEM	166	16.924568	80.567899	8.99	IV	GUNTIPALLIGOPARAM						
127	16.859892	80.520851	7.55	I	BUCHIREDDIPALEM	167	16.910939	80.572647	5.80	I	KACHARAM						
128	16.841861	80.524456	10.46	I	BUCHIREDDIPALEM	168	16.910781	80.584057	21.12	I	KACHARAM						
129	16.862744	80.527268	12.98	II	BUCHIREDDIPALEM	169	16.916320	80.584132	8.67	II	KACHARAM						
130	16.847286	80.526746	13.58	II	BUCHIREDDIPALEM	170	16.911402	80.593124	15.74	II	KACHARAM						
131	16.850261	80.526848	11.93	II	BUCHIREDDIPALEM	171	16.901077	80.569453	12.66	I	NARSHIMHAPURAM						
132	16.863094	80.540780	25.92	II	BUCHIREDDIPALEM	172	16.898097	80.568579	5.31	I	NARSHIMHAPURAM						
133	16.852233	80.519415	34.20	II	BUCHIREDDIPALEM	173	16.897318	80.565415	18.40	I	NARSHIMHAPURAM						
134	16.795386	80.578899	5.31	I	GOWRARAM EAST	174	16.892553	80.571442	8.82	I	NARSHIMHAPURAM						
135	16.794176	80.579848	6.05	I	GOWRARAM EAST	175	16.895589	80.559313	7.48	I	NARSHIMHAPURAM						
136	16.793787	80.582515	13.61	II	GOWRARAM EAST	176	16.888334	80.567348	5.69	I	NARSHIMHAPURAM						
137	16.788926	80.566116	9.92	IV	GOWRARAM EAST	177	16.881954	80.570050	6.87	I	NARSHIMHAPURAM						

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



Division : Khammam
Range : Madhira



ID	Latitude	Longitude	Catchment Area_Ha	PRIORITY
98	16.886970	80.539122	8.05	I
99	16.891342	80.533345	7.80	I
100	16.913310	80.523780	10.06	I
101	16.888143	80.535834	6.59	I
102	16.883771	80.548909	5.37	II
103	16.906654	80.529880	23.37	IV

Legend

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

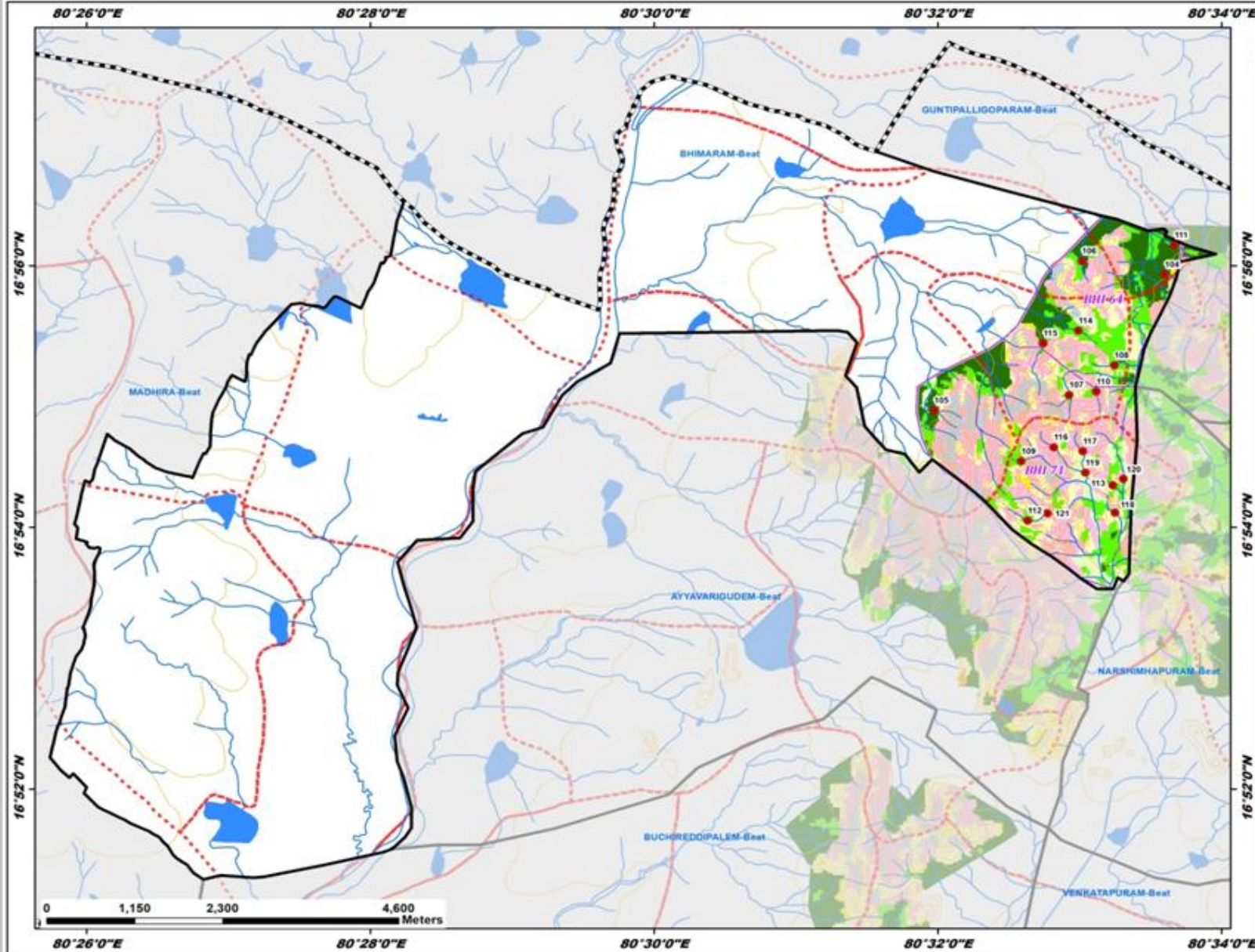
Suitability Index

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

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



Division : Khammam
Range : Madhira



ID	Latitude	Longitude	Catchment Area_Ha	PRIORITY
104	16.932240	80.560027	5.65	I
105	16.914906	80.532932	10.02	I
106	16.933928	80.550286	18.85	I
107	16.916882	80.548777	18.43	II
108	16.920660	80.554100	7.49	II
109	16.908444	80.543151	5.08	II
110	16.917314	80.551954	10.48	II
111	16.935970	80.561145	7.97	II
112	16.900871	80.543907	7.98	II
113	16.905377	80.553910	5.95	II
114	16.925074	80.549859	46.43	III
115	16.923461	80.545738	26.79	III
116	16.910224	80.546973	6.41	IV
117	16.909726	80.550389	15.26	IV
118	16.901892	80.554169	6.34	IV
119	16.906975	80.550679	42.97	V
120	16.906185	80.555163	33.81	V
121	16.901809	80.546223	29.85	V

Legend

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

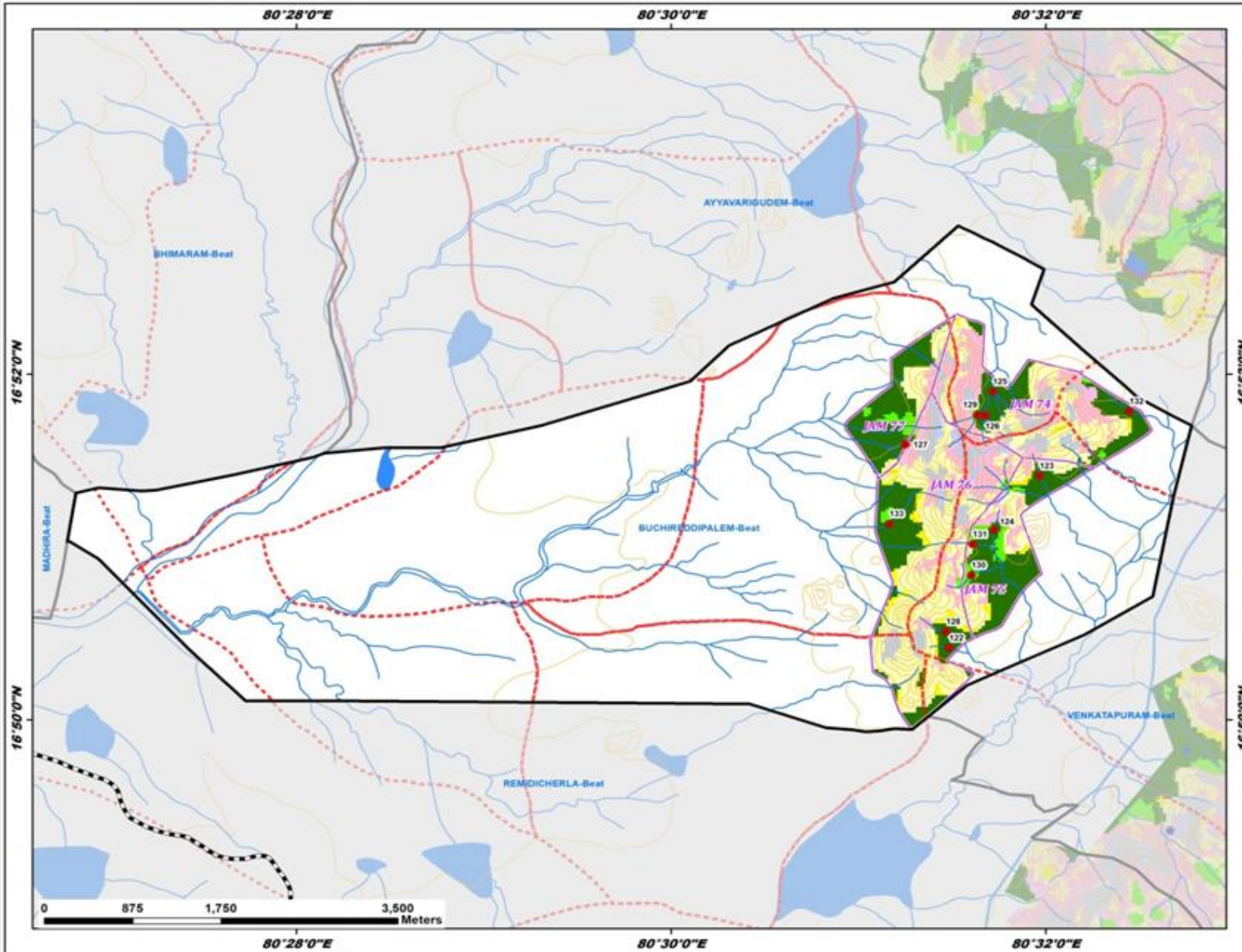
Suitability Index

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

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



Division : Khammam
Range : Madhira



ID	Latitude	Longitude	Catchment Area_Ha	PRIORITY
122	16.840278	80.524764	8.77	I
123	16.856863	80.532803	15.36	I
124	16.851676	80.528755	5.75	I
125	16.865004	80.528638	18.55	I
126	16.862677	80.527956	19.41	I
127	16.859892	80.520851	7.55	I
128	16.841861	80.524456	10.46	I
129	16.862744	80.527268	12.98	II
130	16.847286	80.526746	13.58	II
131	16.850261	80.526848	11.93	II
132	16.863094	80.540780	25.92	II
133	16.852233	80.519415	34.20	II

Legend

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

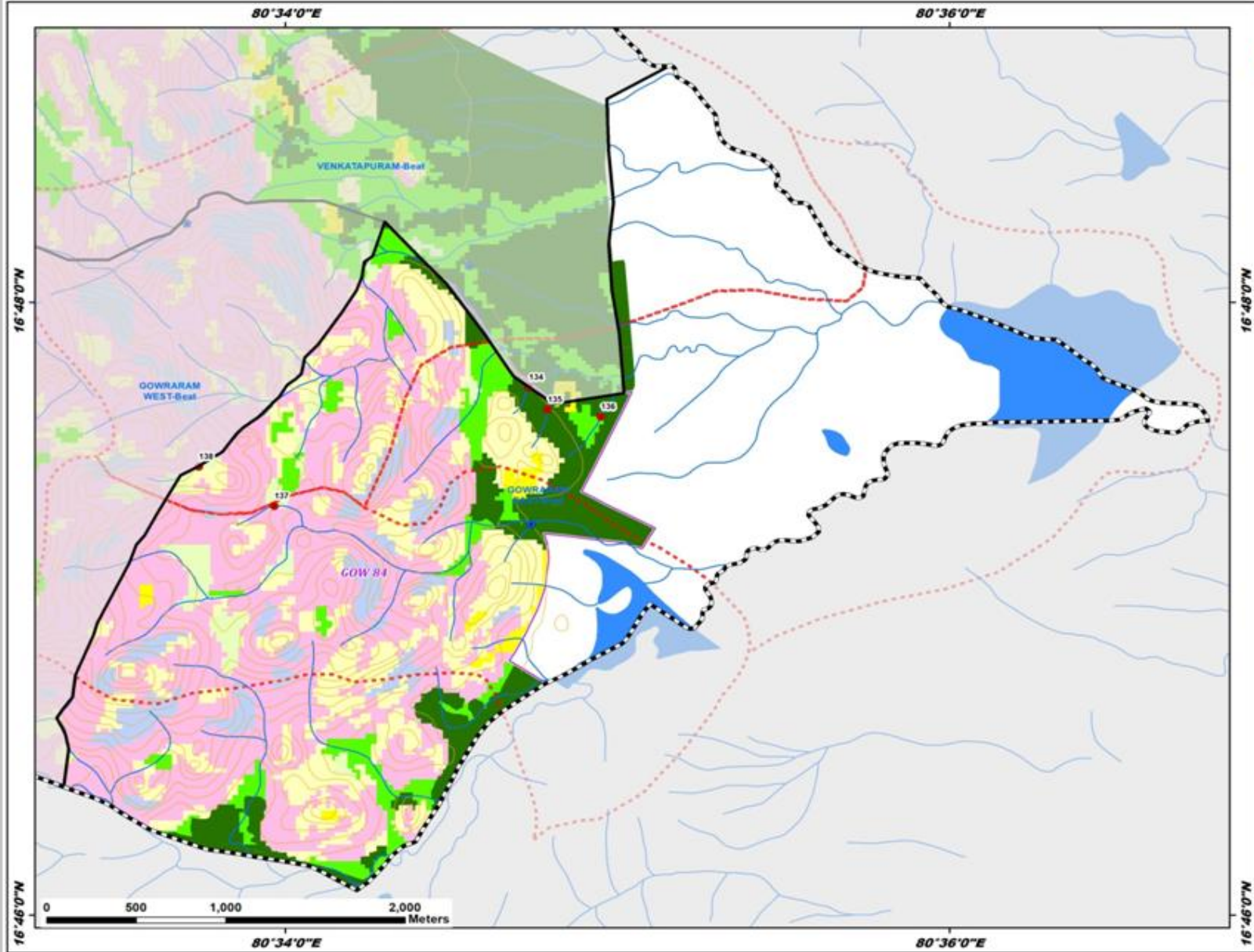
Suitability Index

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

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



Division : Khammam
Range : Madhira



ID	Latitude	Longitude	Catchment Area_Ha	PRIORITY
134	16.795386	80.578899	5.31	I
135	16.794176	80.579848	6.05	I
136	16.793787	80.582515	13.61	II
137	16.788926	80.566116	9.92	IV
138	16.791072	80.562337	36.80	V

Legend

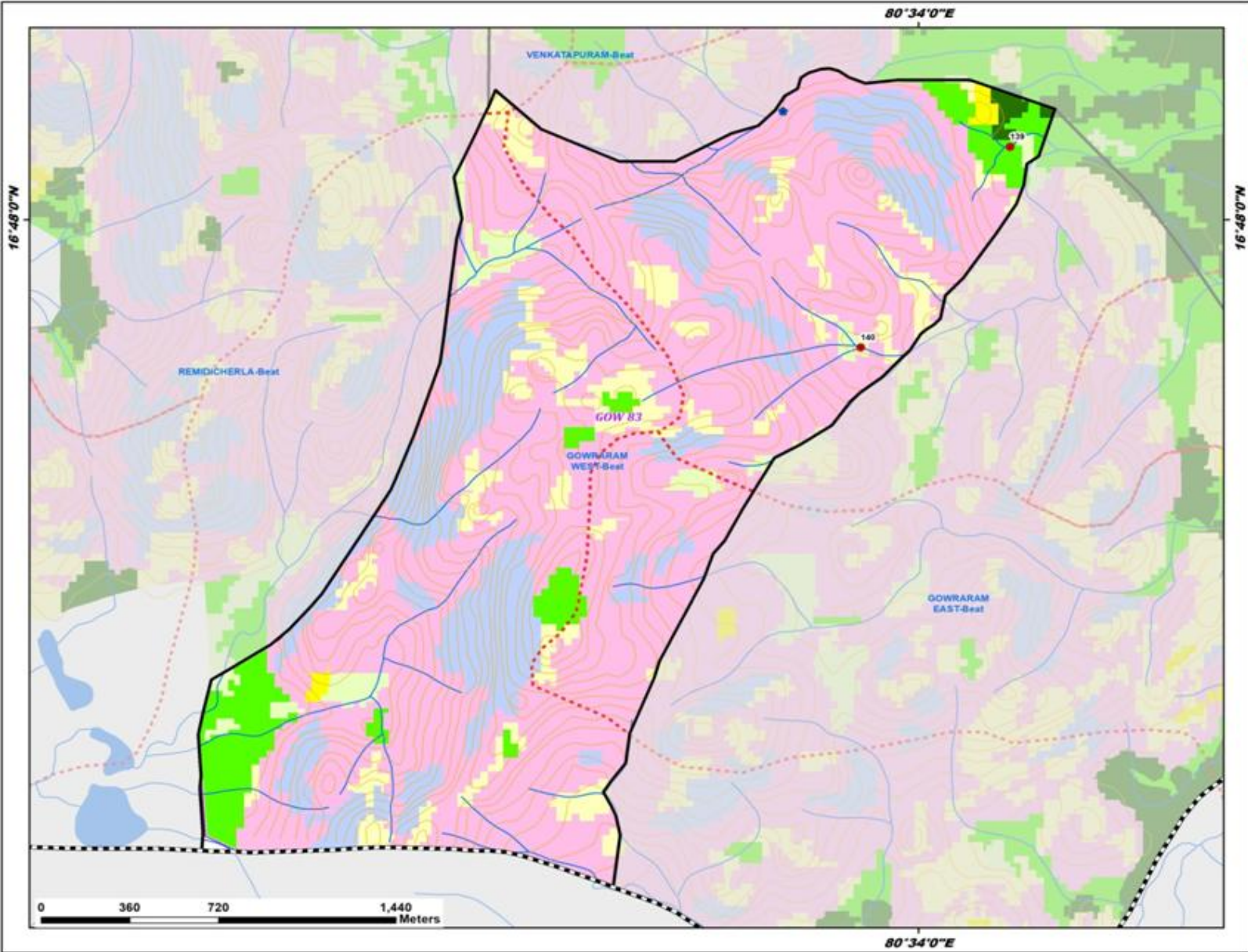
- Proposed_PTs
- Existing CD/PTs
- Contours
- Streams
- Watershed Boundary
- Compartment Boundary
- Beat Boundary
- Division Boundary

- #### 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 Gowraram West Beat



Division : Khammam
Range : Madhira



ID	Latitude	Longitude	Catchment Area_Ha	PRIORITY
139	16.802886	80.570016	27.88	III
140	16.794964	80.564575	41.88	V

Legend

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

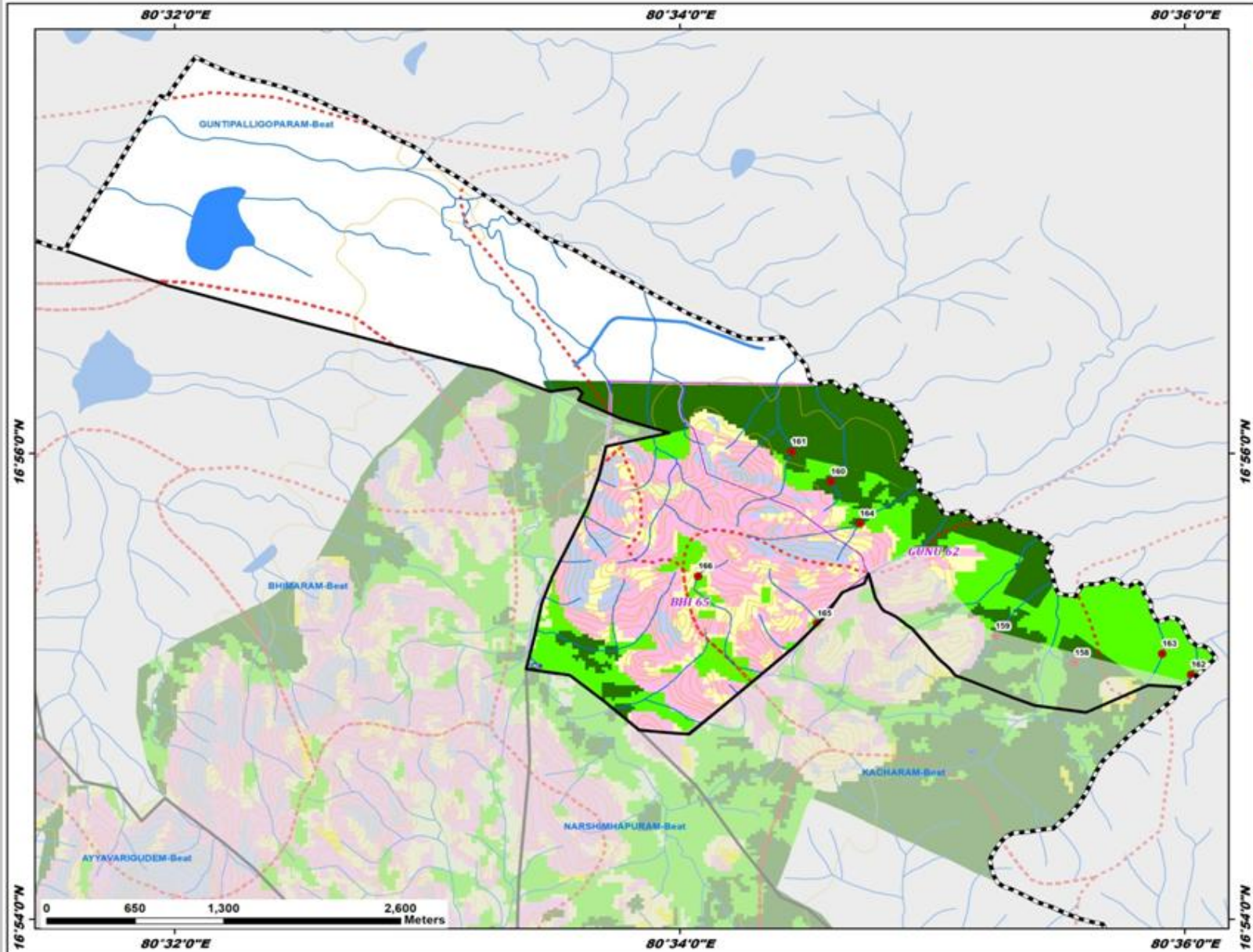
Suitability Index

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

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



Division : Khammam
Range : Madhira



ID	Latitude	Longitude	Catchment Area_Ha	Priority
158	16.918381	80.592768	10.51	I
159	16.920274	80.587521	14.54	I
160	16.931344	80.576669	13.12	I
161	16.933474	80.574072	24.97	I
162	16.917525	80.600461	8.62	II
163	16.919018	80.598540	22.30	II
164	16.928336	80.578578	33.19	II
165	16.921183	80.575768	28.15	III
166	16.924568	80.567899	8.99	IV

Legend

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

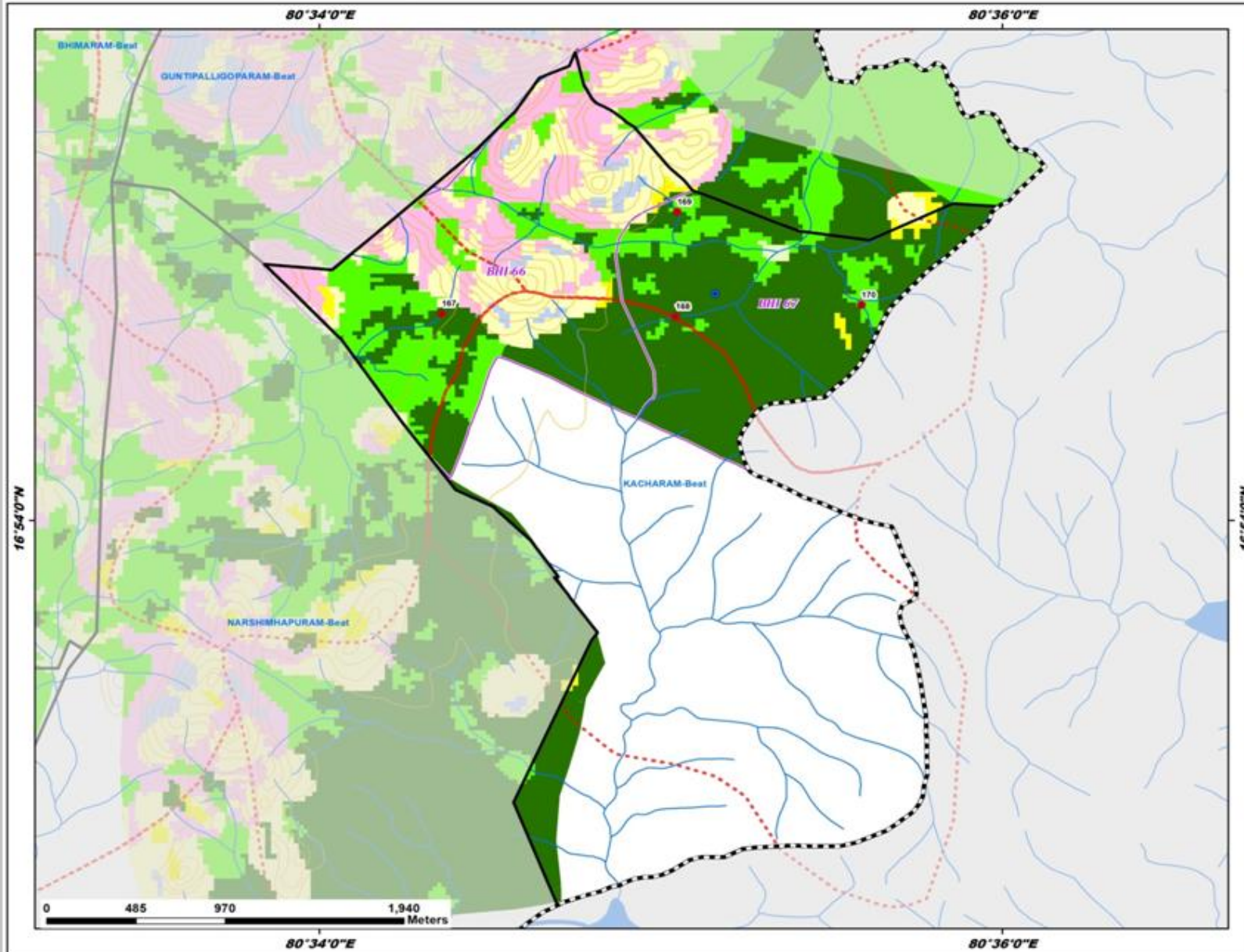
Suitability Index

- 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 Kacharam Beat



Division : Khammam
Range : Madhira



ID	Latitude	Longitude	Catchment Area_Ha	Priority
167	16.910939	80.572647	5.80	I
168	16.910781	80.584057	21.12	I
169	16.916320	80.584132	8.67	II
170	16.911402	80.593124	15.74	II

Legend

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

Suitability Index

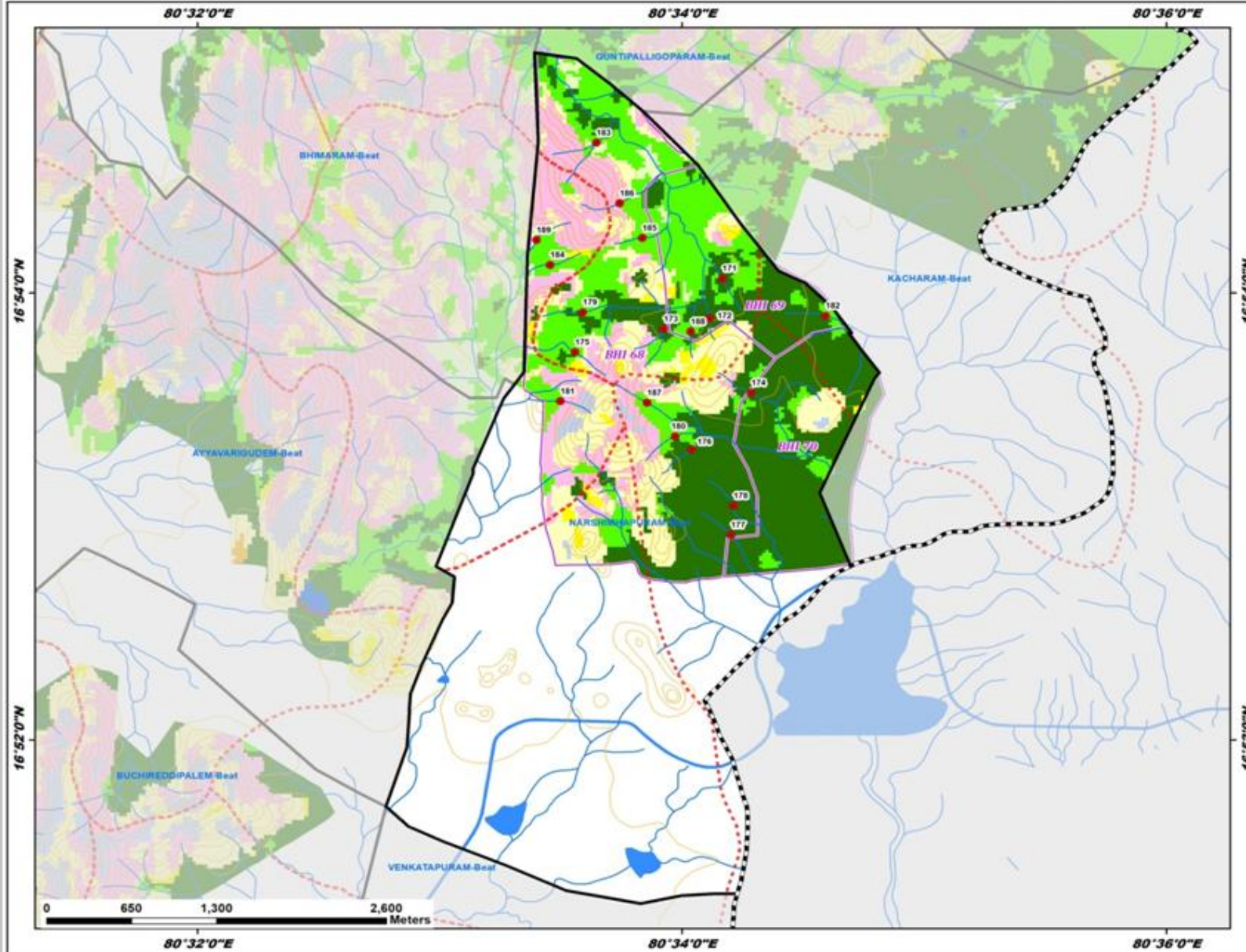
- CCTs/SCTs - Highly Suitable
- CCTs/SCTs - Moderately Suitable
- CCTs/SCTs - Least Suitable
- PTs - Highly Suitable
- PTs - Moderately Suitable
- PTs - Least Suitable
- MPTs and SGP - Suitable
- Not Suitable
- Water Body

0 485 970 1,940 Meters

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



Division : Khammam
Range : Madhira



ID	Latitude	Longitude	Catchment Area_Ha	Priority
171	16.901077	80.569453	12.66	I
172	16.898097	80.568579	5.31	I
173	16.897318	80.565415	18.40	I
174	16.892553	80.571442	8.82	I
175	16.895589	80.559313	7.48	I
176	16.888334	80.567348	5.09	I
177	16.881954	80.570050	6.87	I
178	16.884137	80.570213	13.25	I
179	16.898560	80.559852	9.40	II
180	16.889307	80.566202	7.63	II
181	16.891919	80.558315	5.74	II
182	16.898298	80.576559	15.62	II
183	16.911198	80.560796	14.74	II
184	16.902086	80.557620	15.23	II
185	16.904096	80.563949	11.53	II
186	16.906685	80.562395	6.53	II
187	16.891820	80.564276	10.46	II
188	16.897115	80.567293	7.02	II
189	16.903947	80.556668	10.27	II

Legend

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

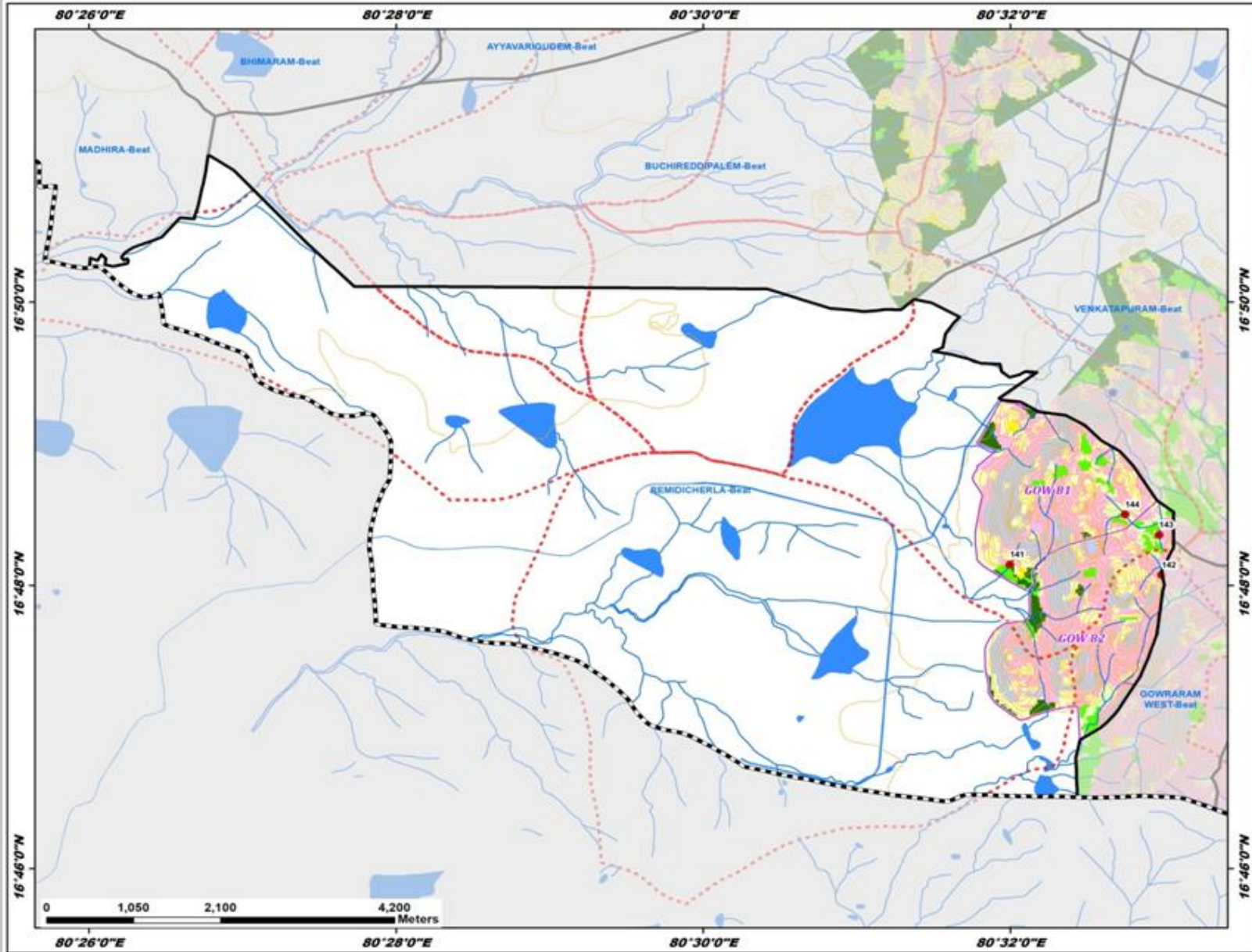
Suitability Index

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

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



Division : Khammam
Range : Madhira



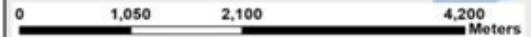
ID	Latitude	Longitude	Catchment Area_Ha	Priority
141	16.802461	80.533279	10.89	I
142	16.801225	80.549764	24.66	IV
143	16.805935	80.549471	10.80	IV
144	16.808330	80.545793	41.46	V

Legend

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

Suitability Index

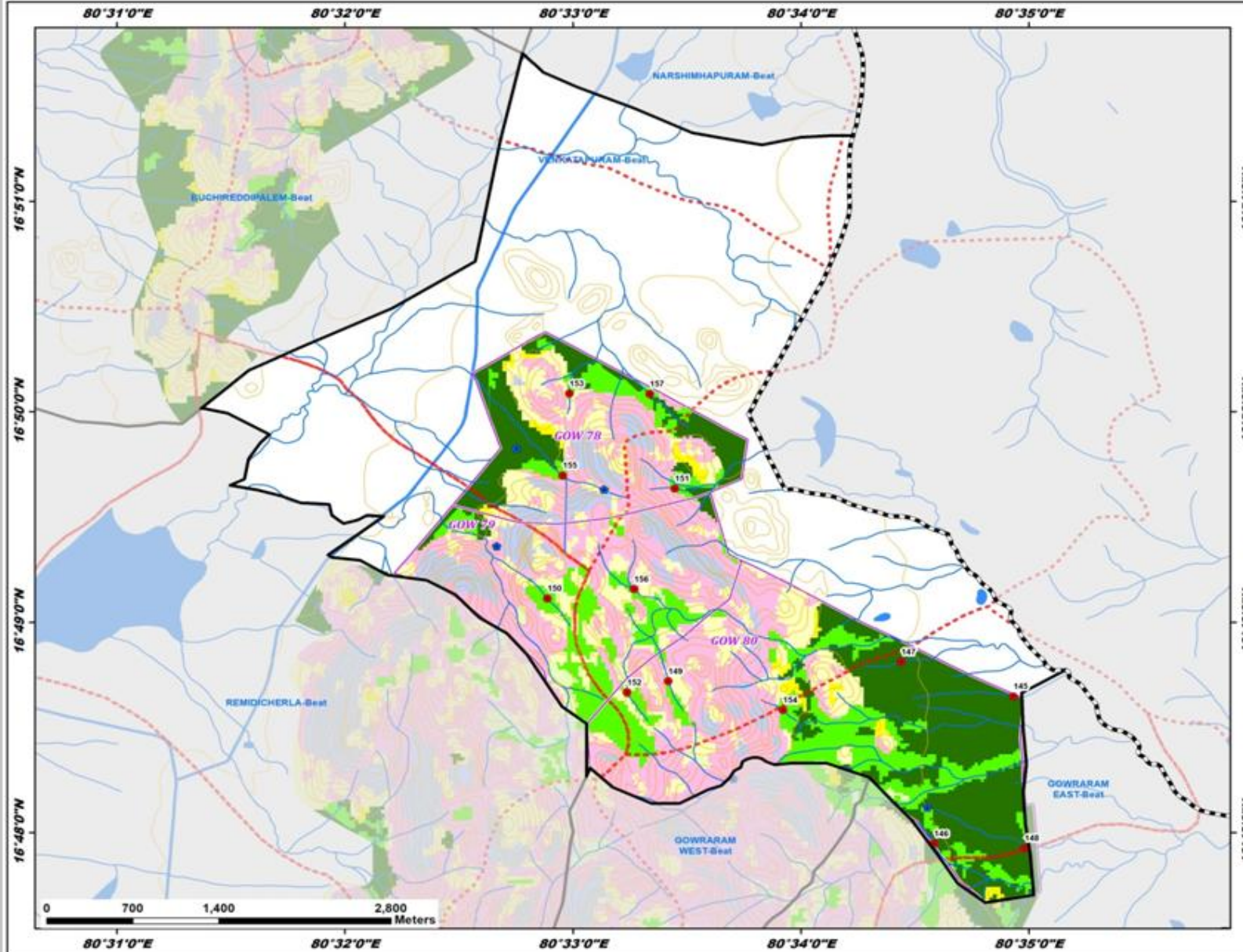
- CCTs/SCTs - Highly Suitable
- CCTs/SCTs - Moderately Suitable
- CCTs/SCTs - Least Suitable
- PTs - Highly Suitable
- PTs - Moderately Suitable
- PTs - Least Suitable
- MPTs and SGP - Suitable
- Not Suitable
- Water Body



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



Division : Khammam
Range : Madhira



ID	Latitude	Longitude	Catchment Area_Ha	Priority
145	16.810801	80.582207	15.77	I
146	16.799129	80.576405	10.48	I
147	16.813540	80.574002	18.64	I
148	16.798773	80.583025	29.40	II
149	16.811998	80.556987	13.64	II
150	16.818557	80.548136	16.18	II
151	16.827265	80.557471	8.39	II
152	16.811108	80.553982	11.61	II
153	16.834787	80.549749	5.78	II
154	16.809719	80.565356	9.94	II
155	16.828293	80.549259	46.63	III
156	16.819285	80.554492	27.76	III
157	16.834747	80.555616	47.37	III

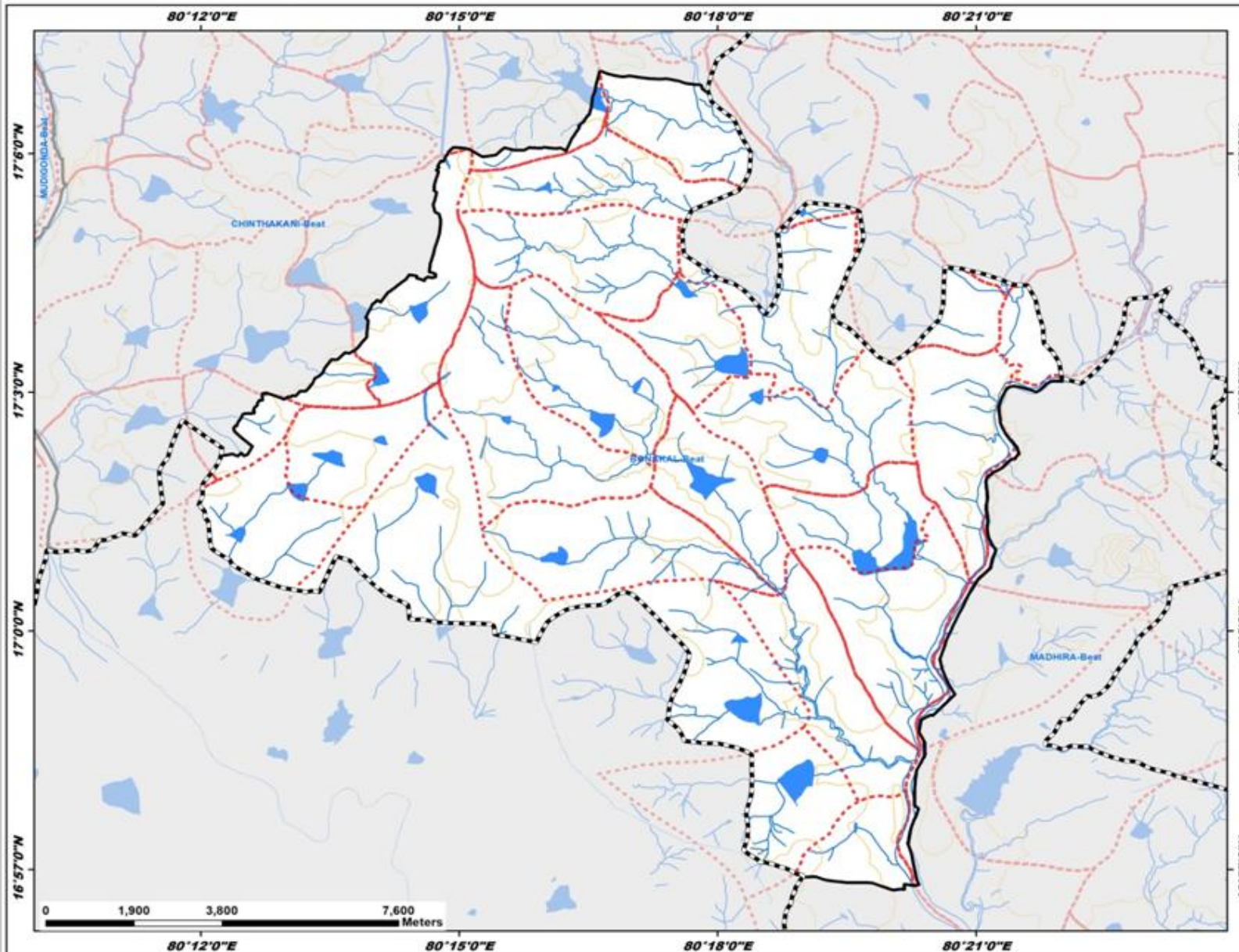
Legend

- 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 Bonakal Beat



Division : Khammam
Range : Madhira



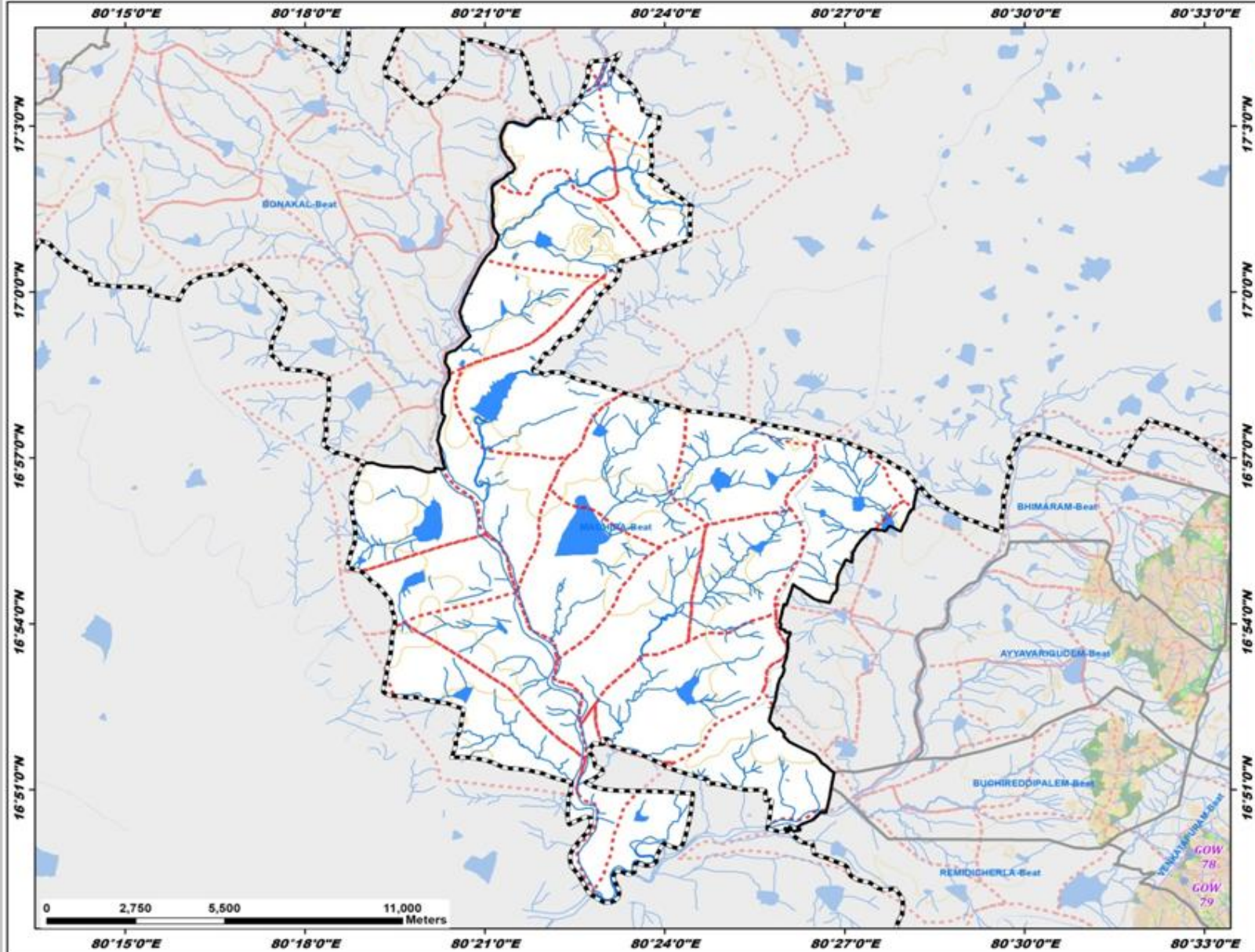
Legend

- 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 Madhira Beat



Division : Khammam
Range : Madhira



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