

Report on prioritization of Micro-watersheds of 3C3A sub-catchment of Gumti RVP catchment (3C3A 6 watershed) of Brahmaputra Basin, Districts South Tripura and Dhalai of Tripura

Abstract

- 1. Survey Area*** : *Gumti RVP (3C3A 6 watershed) catchment of Brahmaputra Basin spreading over South Tripura, Dhalai districts of Tripura*
- 2. Total Area Mapped*** : *58056 ha.*
- 3. Location*** : *91°44'30" to 91°58"E Longitudes
23°21' to 23°42' N Latitude*
- 4. Agro-climatic Zone*** : *Humid High rainfall North Eastern Zone (3)*
- 5. Kind of Survey*** : *RR Survey for demarcation of priority micro watersheds using Remote Sensing Technique.*

8. Area under Different Erosion Intensity Mapping unit

<i>SL.No.</i>	<i>EIMU</i>	<i>Weightage Value</i>	<i>Delivery Ratio</i>	<i>Area (ha.)</i>	<i>Area(%)</i>
1	AL01	13	0.57	780	1.34
2	AL02	15	0.64	407	0.70
3	SD01	15	0.62	297	0.51
4	SD02	16	0.64	4484	7.72
5	SD03	17	0.69	1119	1.93
6	SD04	16	0.64	2984	5.14
7	SD05	17	0.69	321	0.55
8	SD06	14	0.62	8907	15.34
9	SD07	18	0.75	9855	16.97
10	SD08	18	0.77	1404	2.42
11	SD09	18	0.73	307	0.53
12	SD10	17	0.7	9082	15.64
13	SD11	20	0.79	1952	3.36
14	SD12	19	0.81	1343	2.31
15	SD13	16	0.71	793	1.37
16	SD14	16	0.66	676	1.16
17	SD15	19	0.77	5907	10.17
18	SD16	20	0.89	441	0.76
19	SD17	18	0.79	221	0.38
20	SD18	20	0.84	1862	3.21
24	Habitation	0	0	17	0.03
25	Reservoir	0	0	4897	8.43
	Grand Total			58056	100

9. Priority Categorisation

<i>SL. No.</i>	<i>Priority Category</i>	<i>No. of Microwatersheds</i>	<i>Area (ha.)</i>	<i>Percentage</i>
1	<i>Very High (1300 and above)</i>	26	15920	27.42
2	<i>High (1200-1299)</i>	14	9871	17.00
3	<i>Medium (1100-1199)</i>	21	14300	24.63
4	<i>Low (1000-1099)</i>	25	17204	29.64
5	<i>Very Low (Below 1000)</i>	1	761	1.31
	Grand Total	87	58056	100

11. District wise Distribution of Priority Areas

Priority Category	No of Micro watersheds	Dhalai	South Tripura	TOTAL AREA	% AREA
Very High	26	8131	7789	15920	27.42
High	14	6094	3777	9871	17.0
Medium	21	12706	1594	14300	24.63
Low	25	15791	1413	17204	29.64
Very Low	1	761	0	761	1.31
Total	87	43483	14573	58056	100.00

Salient Features

- * Out of total catchment area, 15920 ha (27.42%) covered by 26 micro watersheds comes under very high priority and 9871 ha (17%) spread over 14 micro watersheds comes under high priority.
- * Dhalai district is worst affected where 8131 ha and 6094 ha are under very high and high priority categories respectively.
- * About 7789 ha and 3777 ha come under very high and high priority respectively pertaining to South Tripura.
- * 43844 ha accounting for 75.5% of the whole catchment area has forest land, whereas 8273 ha (14.25%) is Agriculture land.
- * Current jhuming occupy 3188 ha (5.5 %) and Abandoned jhum land is 1321 ha (2.3 %) that need immediate attention for proper soil-water conservation measures.
- * Of the whole catchment, 18604 ha (32.04 %) land suffer from severe erosion hazards and 24175 ha (41.64%) land suffer from moderate to severe erosion hazards.
- * Poorly to unmanaged land occupies 27843 ha which accounts 47.3 % of the total area.
- * 9107 ha (15.69%) area of the catchment has limitation due to very steep slope that demands proper land use planning as well as management.
- * Very deep soil occupies about 18449 ha (31.78 %) while deep to very deep soil embraces 22906 ha (39.46 %).
- * About 15109 ha (26 %) area comes under degraded forest, needing proper forest management.