

Report on Prioritisation of Micro-watersheds in 3A3B & 3A3C Sub-catchment of Kameng Catchment (3A3B2,5,6 & 7 and 3A3C1 & 2 watersheds) of Brahmaputra Basin (FPR), East and West Kameng districts, Arunachal Pradesh.

Abstract

1. Survey area : 3A3B & 3A3C Sub - catchment of Kameng catchment of Brahmaputra basin in East and West Kameng district of Arunachal Pradesh.
2. Total area Surveyed and mapped : 3,62,471 ha
3. Geographical Location : 27⁰ 14' to 27⁰ 50' N Latitude
92⁰ 02' to 93⁰ 20' E Longitude
4. Kind of Survey : Rapid Reconnaissance Survey for priority delineation
5. Base material used : Topographical maps of Survey of India in the scale of 1: 50,000
6. Period of Survey : December, 2004 to February, 2005
7. Agroclimatic Region : Eastern Himalayan Region (II) as per Planning Commission (1989)

8. Extent of area under different Runoff Potential Mapping Units

Sl.No.	RPMU	Runoff Potential	Area in ha.	Area(%)
1	AC01	64	23	0.01
2	AC03	71	1461	0.40
3	C01	68	1010	0.28
4	C02	70	3643	1.01
5	C03	96	16750	4.62
6	C04	93	44478	12.27
7	C05	88	42670	11.77
8	C06	84	49247	13.59
9	C07	82	39056	10.77
10	C08	85	4668	1.29
11	C09	96	52664	14.53
12	C10	81	14235	3.93
13	C11	79	44705	12.33
14	C12	78	32961	9.09
15	C13	77	2379	0.66
16	C14	86	10081	2.78
17	C16	69	144	0.04
18	HA (Habitation)		791	0.22
19	RI(River)		1422	0.39
20	W(Water body)		83	0.02
	Grand Total		362471	100.00

9. Watershedwise distribution of area under different Runoff Potential Mapping Units

Sl. No.	RPMU	Name of the Watersheds						Total Area (ha.)	Area (%)
		3A3B2	3A3B5	3A3B6	3A3B7	3A3C1	3A3C2		
1	AC01	-	-	-	-	23	-	23	0.01
2	AC03	1071	210	180	-	-	-	1461	0.40
3	C01	-	268	-	-	495	247	1010	0.28
4	C02	2655	354	15	330	46	243	3643	1.01
5	C03	4525	1997	6457	2332	-	1439	16750	4.62
6	C04	4766	11448	20653	3628	-	3983	44478	12.27
7	C05	17321	2324	10528	790	-	11707	42670	11.77
8	C06	21796	2460	669	9814	-	14508	49247	13.59
9	C07	14075	4008	236	6828	6228	7681	39056	10.77
10	C08	896	2335	356	456	-	625	4668	1.29
11	C09	12120	1462	2493	8668	6425	21496	52664	14.53
12	C10	1230	8520	1565	2920	-	-	14235	3.93
13	C11	28876	7412	3251	3534	-	1632	44705	12.33
14	C12	23206	2100	297	3051	2958	1349	32961	9.09
15	C13	842	704	416	417	-	-	2379	0.66
16	C14	120	22	-	-	4100	5839	10081	2.78
17	C16	144	-	--	-	-	-	144	0.04
18	HA	425	58	286	-	-	22	791	0.22
19	RI	385	345	141	122	357	72	1422	0.39
20	W	36	-	-	47	-	-	83	0.02
		134489	46027	47543	42937	20632	70843	362471	100.00

11. Priority Categorization

Sl.No.	Priority Category	No.of Micro-w/s	Area(ha.)	Percentage
1	Very High (above 75)	468	362471	100.00
	Grand Total	468	362471	100.00

12. Watershed wise distribution of area under different Priority Categories

Priority Category & Range	3A3B2		3A3B5		3A3B6		3A3B7		3A3C1		3A3C2		Grand Total
	No. of M/W	Area (ha)	No. of M/W	Area (ha)	No. of M/W	Area (ha)	No. of M/W	Area (ha)	No. of M/W	Area (ha)	No. of M/W	Area (ha)	
Very High (above 75)	158	134489	54	46027	60	47543	56	42937	36	20632	104	70843	362471
Grand Total	158	134489	54	46027	60	47543	56	42937	36	20632	104	70843	362471

13. District wise distribution of area under different Priority Categories

Priority Category & Range	Districts						Total		
	East Kameng			West Kameng			No. of M/W		Area (ha)
	No. of M/W		Area (ha)	No. of M/W		Area (ha)			
	Full	Part		Full	Part		Full	Part	
Very High (above 75)	164	1	115289	303	1	247182	467	1	362471
Grand Total	164	1	115289	303	1	247182	467	1	362471