

REPORT ON PRIORITISATION OF MICRO WATERSHEDS IN 5B1C
SUBCATCHMENT OF 5B1, NORTH WESTERN GHATS (NON RVP) IN
KOLHAPUR, RATNAGIRI, SANGLI, SATARA & KULABA DISTRICTS,
MAHARASHTRA STATE

A B S T R A C T

1. Survey area : 5B1C subcatchment of 5B1 (Non RVP) Catchment of North-Western Ghats ; 5B1C-1 to 8
2. Location : a) Longitude : $73^{\circ}08'$ to $73^{\circ}55'$ East
b) Latitude : $16^{\circ}27'$ to $17^{\circ}54'$ North
c) Agroclimatic Region : West coast plain and Ghats region
d) Agroclimatic zone : South Konkan coastal zone
e) Watershed atlas of India - 1990
Watershed Resource Region : 5
Basin : B
Catchment : 5B1
Subcatchment : 5B1C
Watersheds : 5B1C-1 to 8
3. Type of survey : Rapid Reconnaissance Survey for priority delineation
4. Period of survey : December, 1998 to June, 1999
5. Base Map : Survey of India Topographical maps of 1:50,000 scale
6. Hydrological subdivision
 - a) Catchment : 5B1
 - b) Subcatchment : 1) Vaghotan
2) Kodavi
3) Machkandi
4) Kajvi
5) Kaps
6) Bav
7) Vashishth Jaghudi
 - c) Watershed : 5B1C-1²⁸
 - d) Subwatersheds : 130
 - e) Micro watersheds : 672
7. Total area : 7,75,904 ha
8. Area under mapping : 7,42,965 ha
9. Miscellaneous area : 32,939 ha

10. Areal Extent of different erosion intensity mapping units (EIMU)

Sl. No.	Mapping units	Weightage	Delivery ratio	Area in ha	% of the total area
<u>Alluvial landscape</u>					
1.	A1	14	60	7,796	1.0
<u>Basalt landscape</u>					
2.	B1	16	88	1,91,769	24.7
3.	B2	17	78	24,063	3.1
4.	B3	15	71	37,364	4.8
5.	B4	18	76	8,051	1.0
6.	B5	16	64	28,412	3.7
7.	B6	14	62	47,236	6.1
8.	B7	13	60	1,030	0.1
<u>Coastal alluvium landscape</u>					
9.	CA1	13	56	1,636	0.2
<u>Lateritic landscape</u>					
10.	L1	11	65	94,983	12.3
11.	L2	17	69	39,709	5.1
12.	L3	14	63	91,044	11.7
13.	L4	17	77	45,889	5.9
14.	L5	17	74	66,745	8.6
15.	L6	15	72	35,784	4.6
16.	L7	15	59	21,454	2.8
Total				7,42,965	95.7
Total Misc.				32,939	4.3
Grand total				7,75,904	

11. Gradation of micro watersheds into priority categories of 5B1C subcatchment

Priority Category	No. of micro watersheds	Area in ha	%
Very high (1300 & above)	105	1,32,398	17.0
High (1200-1299)	129	1,44,129	18.6
Medium (1100-1199)	131	1,48,926	19.2
Low (1000-1099)	139	1,56,373	20.2
Very low (Less than 1000)	168	1,94,078	25.0
Total	672	7,75,904	100.0

12. Watershedwise distribution pattern of priority micro watersheds into priority categories of 5B1C sub catchment

Watershed code	Very High	High	Medium	Low	Very low	Total
5B1C-1	13 15160 2.0	17 18364 2.4	10 10095 1.3	17 19723 2.5	21 23180 4.9	88 101522 13.1
5B1C-2	8 8520 1.1	8 7673 1.0	14 12180 1.6	10 10154 1.3	22 23861 3.1	62 62397 8.1
5B1C-3	4 4574 0.6	8 6961 0.9	10 10847 1.4	17 16970 2.2	36 41684 5.4	75 81036 10.4
5B1C-4	11 11130 1.4	6 6554 0.8	5 7102 0.9	9 10150 1.3	36 42830 5.5	67 77766 10.0
5B1C-5	8 10612 1.4	17 17789 2.3	25 27888 3.6	37 44521 5.7	21 25120 3.2	108 125930 16.2
5B1C-6	23 30262 3.9	20 22902 3.0	19 24965 3.2	9 12705 1.6	12 13112 1.7	83 103946 13.4
5B1C-7	18 26535 3.4	38 45763 5.9	30 32962 4.2	25 26406 3.4	8 8157 1.1	119 139823 18.0
5B1C-8	20 25596 3.3	15 18123 2.3	18 22887 2.9	15 15744 2.1	2 1134 0.2	70 83484 10.8
Total	105 132398 17.0	129 144129 18.6	131 146926 19.2	139 156373 20.2	168 194078 25.0	672 775904 100

13. Districtwise distribution of area (ha) in each watershed of 5B1C subcatchment with percentage

Watershed	Name of the district covered .area in ha & percentage					Total area
	Ratna-giri	Kolha-pur	Satara	Kulaba	Sangli	
5B1C-1	63678	37844	-	-	-	101522
5B1C-2	62284	113	-	-	-	62397
5B1C-3	80531	505	-	-	-	81036
5B1C-4	77749	17	-	-	-	77766
5B1C-5	125632	-	298	-	-	125930
5B1C-6	102507	1221	-	-	218	103946
5B1C-7	139342	-	481	-	-	139823
5B1C-8	80210	-	1474	1800	-	83484
Total	731933	39700	2253	1800	218	775904
%	94.3	5.1	0.3	0.2	0.03	100

14. Watershedwise distribution of area with coverage of MICRO WATERSHEDS

Watershed Code	Net area (Mapping)	Misc. Area	Total area	Coverage of Micro watershed
5B1C-1	94,475	7,047	1,01,522	88
5B1C-2	58,180	4,217	62,397	62
5B1C-3	78,931	2,105	81,036	75
5B1C-4	74,182	3,584	77,766	67
5B1C-5	1,20,112	5,818	1,25,930	108
5B1C-6	1,00,876	3,070	1,03,946	83
5B1C-7	1,34,725	5,098	1,39,823	119
5B1C-8	81,484	2,000	83,484	70
Total	7,42,965	32,939	7,75,904	672