

REPORT ON DETAILED SOIL SURVEY & LAND USE OF 5B2C8g7, 5B2C8k2, 5B2C8k3, 5B2C8k6, 5B2C8p3 AND 5B2C8p4 MICROWATERSHEDS, DAMANGANGA (R.V.P.) CATCHMENT, TALUKA PEINT, DISTRICT NASIK, MAHARASHTRA.

ABSTRACT

1. **Survey Area** : **5B2C8g7, 5B2C8k2, 5B2C8k3, 5B2C8k6, 5B2C8p3 & 5B2C8p4 Microwatersheds of Damanganga (R.V.P) Catchment, Taluka Peint, District Nasik, Maharashtra.**
2. **Location** : **Latitude :- 20° 10' to 20° 17' N
Longitude:- 73° 22' to 73° 29' E**
3. **Total Area Surveyed** : **5,163 ha**
4. **Type Of Survey** : **Detailed Soil Survey.**
5. **Period Of Survey** : **November, 2000 to June, 2001.**
6. **Number Of Villages Covered** : **18**
7. **Agroclimatic Region** : **9 (Western Pleateau & Hill Region)**
8. **Number Of Soil Mapping Units** : **12**

9. Series Wise Distribution of Area under Different Microwatersheds.

SI	SOIL	WATERSHED 5B2C8 – Area in ha (%)						
		M i c r o w a t e r s h e d s						TOTAL
No.	SERIES	g7	k2	k3	k6	p3	p4	
1.	AMBAPANI	39 (4.2)	53 (7.2)	96 (8.1)	39 (6.5)	27 (2.4)	16 (2.6)	270 (5.2)
2.	BHUVAN	82 (8.9)	-	15 (1.2)	-	92 (8.3)	31 (5.0)	220 (4.3)
3.	GALONDA	202 (22.0)	159 (21.5)	320 (27.1)	201 (33.5)	175 (15.8)	87 (14.1)	1144 (22.2)
4.	NIHAYALI	508 (55.3)	470 (63.6)	719 (60.9)	334 (55.8)	783 (70.6)	437 (71.1)	3251 (63.0)
5.	RUIGHAR	36 (3.9)	19 (2.6)	05 (0.4)	03 (0.5)	-	15 (2.5)	78 (1.5)
SUBTOTAL		867 (94.3)	701 (94.9)	1155 (97.7)	577 (96.3)	1077 (97.1)	586 (95.3)	4963 (96.2)
MISC. LAND		52 (5.7)	38 (5.1)	27 (2.3)	22 (3.7)	32 (2.9)	29 (4.7)	200 (3.8)
GRAND TOTAL		919 (100.0)	739 (100.0)	1182 (100.0)	599 (100.0)	1109 (100.0)	615 (100.0)	5163 (100.0)

10. Distribution of Land Capability Units Under Different Microwatersheds.

SI No.	Land Capability Unit	W a t e r s h e d 5B2C8 – Area in ha (%)						
		M i c r o w a t e r s h e d s						
		g7	k2	k3	k6	p3	p4	TOTAL
1	II-1		8 (1.1)				15 (2.5)	23 (0.4)
2	IIs-1	4 (0.4)	6 (0.8)				5 (0.8)	15 (0.3)
3	IIIe-1	36 (3.9)	11 (1.5)	5 (0.4)	3 (0.5)			55 (1.1)
4	IIIes-1	35 (3.8)	47 (6.4)	96 (8.1)	39 (6.5)	27 (2.4)	11 (1.8)	255 (5.0)
5	IIIes-2	159 (17.3)	61 (8.2)	141 (11.9)	105 (17.5)	55 (5.0)	14 (1.8)	535 (10.4)
6	IVes-1		25 (3.4)	40 (3.4)				65 (1.2)
7	IVes-2	43 (8.9)	73 (9.9)	139 (11.8)	96 (16.0)	120 (10.8)	73 (11.9)	544 (10.5)
8	VIes-1	82 (8.9)		15 (1.2)		92 (8.3)	31 (5.0)	220 (4.3)
9	P/M	508 (55.3)	470 (63.6)	719 (60.9)	334 (55.8)	783 (70.6)	437 (71.1)	3251 (63.0)
Sub-total		867 (94.3)	701 (94.9)	1155 (97.7)	577 (96.3)	1077 (97.1)	586 (95.3)	4963 (96.2)
Misc. Land		52 (5.7)	38 (5.1)	27 (2.3)	22 (3.7)	32 (2.9)	29 (4.7)	200 (3.8)
Grand Total		919 (100.0)	739 (100.0)	1182 (100.0)	599 (100.0)	1109 (100.0)	615 (100.0)	5163 (100.0)

(Figures in parenthesis are the percentages)

11. Salient Features

- Nihayali series is the most extensive one covering 3,251 ha (63.0%), followed by Galonda series 1,144 ha (22.0%).
- Very shallow to shallow soils occupy an area of about 3,251 ha (63.0%).
- Around 3,251 ha (63.0%) area falls under forest land use where proper forest management practices are required.
- Only 883 ha (17.2%) area is well suited for agriculture, whereas, only 609 ha (11.7%) area is suited for occasional cultivation.
- An area of 220 ha (4.3%) which is found to be under cultivation needs change in land use and is suitable for afforestation/pasture development.

Soil Erosion Status of the surveyed area is as follows

	Area in ha	Percentage
(i) None to slight erosion	38	0.7
(ii) Moderate erosion	845	16.3
(iii) Severe erosion	4080	79.2

Misc. Area	200	3.8
-------------------	------------	------------

Total Area	5163	100.0
-------------------	-------------	--------------
