

**Report on Prioritization of Micro-Watersheds of Par River Watershed
(5B2D1) of 5B2 Catchment (FPR) under North Western Ghat Basin,
Nasik and Valsad Districts, Maharashtra and Gujarat States**

ABSTRACT

- 1. Survey Area** : 5B2D1 Watershed (Par River Watershed) of North Western Ghat Basin in Nasik and Valsad Districts of Maharashtra and Gujarat States
- 2. Location** : 20° 15' N to 20° 37' N Latitude
72° 50' E to 73° 45' E Longitude
- 3. Total Area Surveyed and Mapped** : 1, 60,808 ha.
- 4. Type of Survey** : Rapid Reconnaissance Survey for Priority Delineation
- 5. Period of Survey** : June 2007 to July 2007
- 6. Base map** : Topographical Maps of Survey of India (On 1:50,000 scale)
- 7. Agro-Climatic Region** : Agro Climatic Zone No. 'IX' (Western Plateau and Hill Region)
- 8. Total Number of micro- watersheds** : 172.
- 9. Hydrological Division as per Watershed Atlas of India (1990) :**
- a) Water Resource Region : 5
 - b) Basin : 5B
 - c) Catchment : 5B2
 - d) Subcatchement : 5B2D
 - e) Watershed : 5B2D1

10. Area Extent of different Runoff Potential Mapping Units :

SLNo.	RPMU	Runoff Potential Value	Area in ha.	Area (%)
1	A01	58	1287	0.80%
2	A02	54	437	0.27%
3	A03	54	525	0.33%
4	B01	63	8441	5.25%
5	B02	71	5534	3.44%
6	B03	61	398	0.25%
7	B04	68	6011	3.74%
8	B05	70	54812	34.09%
9	B06	91	8724	5.43%
10	B07	66	8471	5.27%
11	B08	80	11783	7.33%
12	B09	70	11946	7.43%
13	B10	58	2856	1.78%
14	B11	62	1224	0.76%
15	B12	71	14171	8.81%
16	B13	62	750	0.47%
17	B14	58	5330	3.31%
18	B15	55	10126	6.30%
19	B16	60	2208	1.37%
20	CA01	52	650	0.40%
21	Mud	0	275	0.17%
22	River/sr	0	3732	2.32%
23	Hab.	0	541	0.34%
24	ROC	0	400	0.25%
25	Road	0	176	0.11%
Grand Total			160808	100.00

11. District wise/ State wise distribution of area under different Runoff Potential Mapping Units:

RPMU	Nashik/Maharashtra	Valsad/Gujarat	Total area	Area (%)
A01	0	1287	1287	0.80
A02	0	437	437	0.27
A03	0	525	525	0.33
B01	5083	3358	8441	5.25
B02	2321	3213	5534	3.44
B03	398	0	398	0.25
B04	6011	0	6011	3.74
B05	23484	31328	54812	34.09
B06	7371	1353	8724	5.43
B07	3376	5095	8471	5.27
B08	9531	2252	11783	7.33
B09	5575	6371	11946	7.43
B10	912	1944	2856	1.78
B11	974	250	1224	0.76
B12	6848	7323	14171	8.81
B13	750	0	750	0.47
B14	2587	2743	5330	3.31
B15	313	9813	10126	6.30
B16	75	2133	2208	1.37
CA01	0	650	650	0.40
Mud	0	275	275	0.17
River	712	3020	3732	2.32
Hab.	87	454	541	0.34
ROC	350	50	400	0.25
Road	38	120	176	0.11
Total	77071	83737	160808	100.00

12. Districtwise /Statewise distribution of Micro-watersheds/ area under different priority categories :

Sr. No.	Priority Category & Range	Nasik Maharashtra		Area (ha.)	Valsad Gujarat		Area (ha.)
		No. of Micro-watersheds			No. of Micro-watersheds		
		Full	Part		Full	Part	
1.	Very High (above 75)	11	-	8900	-	-	-
2.	High (71-75)	39	3	37294	17	3	14850
3.	Medium (66-70)	29	2	30877	42	2	43673
4.	Low (61-65)	-	-	-	15	-	12467
5.	Very Low (60 & below)	-	-	-	19	9	12747
	Grand total	79	5	77071	93	5	83737

13. Priority Categorization :

SL.No.	Priority Category	No.of Microwatersheds	Area in ha.	Area Percentage
1	Very High (above 75)	11	8900	5.53
2	High (71-75)	56	52144	32.43
3	Medium (66-70)	71	74550	46.36
4	Low (61-65)	15	12467	7.75
5	Very Low (60 & below)	19	12747	7.93
	Grand Total	172	160808	100.00

14. Salient features of the area:-

- Delineation and Codification is done up to micro-watershed level in order to have workable size of the treatment area.
- Total watershed 5B2D1 is divided into 172 micro-watersheds and out of which 11 micro-watersheds falls under very high priority category, covering an area of 8900 ha. (5.53 % of the total area) and 56 micro-watersheds are under high priority category which spreads over an area of 52144 ha. (32.43% of the total area).
- About 8720 ha. (5.43%) of the area suffers from severe to very severe erosion and 36552 ha. (22.73%) area has severe erosion hazard alone and moderate to severe erosion problem is spread over 91303 ha. area (56.80%).