

Detailed soil survey of Mcl 9a, subwatershed and Mc22 watershed (Begmati ukhwa Nala), Matatilla RVI catchment Tehsil Ashok Nagar Distt. GUNA MADHYA PRADESH

ABSTRACT

1. Surveyed area : Mcl 9a sub watershed and Mc22, watershed (Begmati Nala) Tehsil Ashok Nagar, Distt. GUNA (MP)
2. Total area : 9286 ha.
- 3(a) Kind of survey : Detailed soil survey
- (b) Period of survey : Dec. 1983 to Feb., 1984.

S.No.	Soil Series	Area in ha.	Percentage
1.	Antralia	867	9.3
2.	Baloda	63	0.7
3.	Bilharu	202	2.2
4.	Jaggakhedi	1051	11.3
5.	Kamli, Khedi	966	10.4
6.	Fanchdaria	438	4.7
7.	Runeja	145	1.6
8.	Sarol	4943	53.2
9.	River	144	1.6
10.	Misc. land	467	5.0
TOTAL		9286	100.0

5. Soil and land classification for agricultural and non agricultural purposes.

	Land Capability classification.	Land Cap- ability	Area in ha.	Per- centage	Series
5.1	Good arable Land with minor limitations	III	4755	51.2	Baloda, Jagga- khedi Sarol
5.2	Moderately good land with mode- rate limitations	III	2037	21.9	Jaggakhedi, Sarol Kamlia Khedi
5.3	Marginal land with major limi- tations.	IV	1243	13.4	Antralia, Kamlia - khedi, Runeja
TOTAL			8035	86.5	

NON ARABLE LANDS

5.4	Grass land and forestry with minor limi- tations.	VI	640	6.9	Belharu Fanchdaria
5.5	River	-	144	1.6	
5.6	Misc. land	-	467	5.0	
Grand total			9286	100.0	

16. Salient features :

- (a) Nearly 86.5 percent (9286 ha) area of the total surveyed area is cultivated. Of this area good, moderately good land and marginal land occupy about 51.2, 21.9 and 13.4 per cent respectively. Remaining area of 6.9 percent are suitable for forestry and grass land.
- (b) About 18.9 % of the land is under shallow and moderately deep soils and special soil and water conservation treatments.
- (c) Moderate soil erosion is active on 5709 ha. area (61.5%) while 2966 ha (31.9%) area has either active erosion or past relics of severe erosion.
- (d) Nearly 73.1 per cent of area is suitable for irrigation, while not of the land has either severe limitations or are unsuitable for irrigation.
- (f) About (84.1 %) of the area has moderately high to high run-off potential and runoff water can be harvested at suitable sites for irrigation and domestic purposes.