

Report on Detailed Soil Survey and Land Use of Mc3g, Md2m, Mf2h, Mg1g, Mg3b, Mg3g, Mh4c, Mh4j and Mh5j Subwatersheds of Sahibi FPR catchment in Bairat Nagar, Kotputali and Shahpura Tehsils, Jaipur District; Bansur and Bahrod Tehsils, Alwar District and Srimadhapur Tehsil, Sikar District, Rajasthan State

ABSTRACT

1. **Survey Area** : Mc3g, Md2m, Mf2h, Mg1g, Mg3b, Mg3g, Mh4c, Mh4j and Mh5j Subwatersheds of Sahibi FPR catchment in Bairat Nagar, Kotputali and Shahpura Tehsils, Jaipur District; Bansur and Bahrod Tehsils, Alwar District and Srimadhapur Tehsil, Sikar District, Rajasthan State
2. **Location** : 27°15' to 28°5' N latitude & 75°50' to 76°30' E longitude
3. **Total Area Surveyed** : 22442 ha
4. **Type of Survey** : Detailed Soil Survey
5. **Period of Survey** : December 1997 to July 1998
6. **Agro ecological Region** : 4
7. **Agro-climate zone** : 5 (The Upper Gangetic Plain Region)

8. Land Capability units with area and Soil Series included under each unit

S. No.	Land Capability Units	Area in ha	Percentage	Soil Series
A. Arable Land				
1.	II-1	1509	6.7	Allahpur, Baliawas, Sahibi
2.	Ile-1	2783	12.4	Allahpur, Baliawas, Sahibi, Tizara
3.	IIIe-1	1492	6.6	Allahpur, Jawanpura
4.	IVe-1	57	0.3	Allahpur, Jawanpura
5.	IVe-2	1003	4.5	Jawanpura, Jugalpura
6.	IVes-1	107	0.5	Bamanthedi, Sultanpur
7.	IVes-2	7001	31.2	Isroda, Karkrala, Luhadera
8.	IVes-3	384	1.7	Sultanpur
9.	IVes-4	2444	10.9	Isroda, Kakrala, Luhadera
10.	IVs-1	228	1.0	Bamanthedi
11.	IVs-2	762	3.4	Isroda, Kakrala, Luhadera
Sub-total		17770	79.2	-
B. Non-Arable Land				
12.	VIIes-1	2216	9.9	Roopwas
Sub- total		2216	9.9	-
13.	Miscellaneous	2456	10.9	-
Sub- total		2456	10.9	-
Grand total		22442	100.0	-

9. Subwatershedwise distribution of area for different Soil Series.

Sl. No.	Name of Soil Series	Area in ha (%)	Subwatersheds									
			Mc3g	Md2m	Mf2h	Mg1g	Mg3b	Mg3g	Mh4c	Mh4j	Mh5j	
1.	Allahpur (A)	2355 (10.5)	679 (47.9)	-	-	-	-	619 (63.0)	1057 (50.1)	-	-	-
2.	Baliawas (B)	1605 (7.2)	-	228 (8.0)	442 (20.2)	787 (20.2)	-	-	-	41 (1.5)	34 (0.9)	73 (2.8)
3.	Bamanthedi (BT)	275 (1.2)	183 (12.9)	-	-	-	-	60 (6.1)	32 (1.5)	-	-	-
4.	Isroda (I)	1822 (8.1)	-	249 (8.8)	-	1498 (38.6)	52 (5.3)	23 (1.1)	-	-	-	-
5.	Jawanpura (J)	135 (0.6)	-	-	-	-	-	135 (6.4)	-	-	-	-
6.	Jugalpura (JU)	953 (4.2)	233 (16.4)	-	-	-	105 (10.7)	615 (29.2)	-	-	-	-
7.	Kakrala (K)	7962 (35.5)	202 (14.2)	1503 (53.0)	619 (28.2)	737 (19.0)	80 (8.2)	-	2028 (74.4)	1839 (50.2)	954 (36.2)	-
8.	Luhadera (L)	423 (1.9)	-	-	-	-	-	-	79 (2.9)	305 (8.3)	39 (1.5)	-
9.	Roopwas (R)	2216 (9.9)	86 (6.1)	618 (21.8)	165 (7.5)	206 (5.3)	-	-	180 (6.6)	418 (11.4)	543 (20.6)	-
10.	Sahibi (SH)	1203 (5.4)	-	-	416 (19.0)	-	-	-	-	-	346 (9.4)	441 (16.8)
11.	Sultanpur (S)	444 (2.0)	-	-	18 (0.8)	426 (11.0)	-	-	-	-	-	-
12.	Tizara (T)	593 (2.6)	-	-	34 (1.6)	171 (4.4)	29 (3.0)	127 (6.0)	232 (8.5)	-	-	-
	Total	19986 (89.1)	1383	2598	1694	3825	945	1989	2560	2942	2050	
	Misc.	2456 (10.9)	36 (2.5)	337 (8.4)	498 (22.7)	58 (1.5)	37 (3.7)	119 (5.7)	165 (6.1)	725 (19.8)	581 (22.1)	
	Grand total	22442 (100%)	1419 (100%)	2835 (100%)	2192 (100%)	3883 (100%)	982 (100%)	2108 (100%)	2725 (100%)	3667 (100%)	2631 (100%)	

10. Erosion Inventory:

Sl. No.	Erosion classes	Area in ha	Percentage
1.	None to slight erosion	2499	11.2
2.	Moderate erosion	11383	50.7
3.	Severe erosion	6104	27.2
4.	Miscellaneous	2456	10.9
Grand Total		22442	100