

REPORT ON DETAILED SOIL SURVEY AND LAND USE OF Nj3a, Nj3b, Nj3c, Nk2g, Nk2h AND Nk2j SUBWATERSHEDS OF NIZAMSAGAR CATCHMENT, BHALKI AND AURAD TALUKS OF BIDAR DISTRICT, KARNATAKA.

ABSTRACT

1. Surveyed area : Nj3a, Nj3b, Nj3c, Nk2g, Nk2h and Nk2j subwatersheds of Nizamsagar catchment, Bhalki and Aurad taluks of Bidar district, Karnataka.
2. Total area mapped and reported : 20,432 hectares
3. Kind of survey : Detailed soil survey
4. Period of survey : November 1992 to June 1993.
5. Agro-climatic zone : 13, southern variable rainfall mixed soil zone.
6. Soil series and their extent (ha) under each subwatershed:

Sl. No.	Name of the soil series	Total area	Percentage(%)	Nj3a	Nj3b	Nj3c	Nk2g	Nk2h	Nk2j
1.	Chimkod	78	0.4	31	-	-	23	24	-
2.	Kandgola	7398	36.2	1523	1341	747	316	756	2715
3.	Ladha	348	1.7	-	-	25	53	193	77
4.	Shorhalli	3596	17.6	327	268	125	1657	835	384
5.	Sultanpur	3030	14.8	458	525	432	657	506	452
6.	Wadagaon	5005	24.5	784	953	685	208	701	1674
	Sub Total	19455	95.2	3123	3087	2014	2914	3015	5302
	Misc.	977	4.8	164	165	108	173	134	233
	Grand Total	20432		3287	3252	2122	3087	3149	5535
	Percentage		100.0	16.1	15.9	10.4	15.1	15.4	27.1

## 7. Area under different land capability classes:

Sl. No.	Land Capability class	Area (ha)	Percent	Soil series
1.	II	5101	23.8	Chimkod, Shorhalli, Sultanpur
2.	III	7742	40.8	Kandgola, Shorhalli, Sultanpur
3.	IV	4731	22.1	Kandgola, Sultanpur, Wadagaon
4.	VI	1533	7.1	Wadagaon
5.	VII	348	1.6	Ladha
	Misc. land	977	4.6	
Total		20432	100.0	

## 8. Salient features:

- (1) Very deep soils comprising Shorhalli and Sultanpur series cover 6626 hectares (32.4%) of the total area.
- (2) Moderately deep soils of Kandgola series occupy 7398 hectares (36.2%) of the total area.
- (3) Very shallow and shallow soils cover 5353 hectares (26.2%) of the total area.
- (4) About (47.6%) of the surveyed area is under very gentle slope (1-3%) category. Area occurring on gentle slope (3-5%) is 40.3% of the total area.
- (5) 88.8% of the total area is suffering from moderate and severe erosion hazards and needs soil conservation treatments.