

# Report On Detailed Soil Survey and Land Use of Aj1g, Aj1h, Aj1i, Aj1j, Aj1k and Aj1m Subwatersheds of Nagarjunsagar RVP catchment, Hungund, Kushtagi and Lingsugur Taluks of Bagalkot, Koppal and Raichur Districts, Karnataka State.

## ABSTRACT

1. **Surveyed area** : Aj1g, Aj1h, Aj1i, Aj1j, Aj1k. and Aj1m subwatersheds of Nagarjunsagar catchment Hungund, Kushtagi and Lingsugur, taluks of Bagalkot, Koppal and Raichur Districts, Karnataka State
2. **Total area mapped and reported** : 28,295 hectares
3. **Kind of survey** : Detailed Soil Survey
4. **Period of survey** : May 1999-July 2000
5. **Agro climate zone:** Semiarid tropical (No: 10)
6. **Base Map** : Cadastral maps on 8"=1 mile
7. **Soil series mapped and subwatershed wise distribution of area under each series**

SL No	Name of the Soil Series	Subwatershed codes						Total Area	Percentage
		Aj1g	Aj1h	Aj1i	Aj1j	Aj1k	Aj1m		
1	Chikadapur	272	388	1038	1081	308	1654	4741	16.8
2	Gotagi	14	95	440	268	197	211	1225	4.3
3	Hireotegere	-	-	121	38	-	3	162	0.6
4	Mainahalli	314	761	1888	981	78	965	4987	17.6
5	Mallapur	149	51	-	15	-	-	215	0.8
6	Sompur	22	211	1090	373	-	26	1722	6.1
7	Tondihalli	1089	1996	3107	1028	2424	2345	11989	42.4
8	Varadapur	-	-	250	532	-	82	864	3.0
	<b>Total</b>	1860	3502	7934	4316	3007	5286	25905	91.6
	<b>Misc.</b>	828	341	569	110	293	249	2390	8.4
	<b>Grand Total</b>	<b>2688</b>	<b>3843</b>	<b>8503</b>	<b>4426</b>	<b>3300</b>	<b>5535</b>	<b>28295</b>	<b>100.0</b>
	Percentage	9.5	13.6	30.0	15.6	11.7	19.6	100.0	

8. Area under different land capability classes:

SL No	Land capability classes	Total Area (in hectare)	Percentage	Soil Series mapped
1	II	10886	38.5	Chikadapur, Gotagi, Tondihalli
2	III	1996	7.1	Chikadapur, Mallapur, Mainahalli, Tondihalli
3	IV	10275	36.3	Chikadapur, Gotagi, Mallapur, Mainahalli, Tondihalli
4	VI	2586	9.1	Sompur, Varadapur
5	VII	162	0.6	Hireotegere
	<b>Sub-total</b>	25905	91.6	
	Misc.	2390	8.4	
	<b>Grand total</b>	28295	100.0	

**Salient features and specific presence of the area**

- The surveyed area covers 28,295 hectares comprising 56 villages under Hungund, Kustagi and Lingsugur taluks of Bagalkot, Koppal and Raichur Districts of Karnataka state.
- Eight soil series are met in the area. of these, Tondihalli series comprise of 42.4% of the total area followed by Mainahalli and Chikadapur series
- An area of 12,386 hectares (43.8%) having severe erosion.

Misc. Lands includes the area under Reservoir, tanks, village site, Road, Rivers, Nala and ROC etc.