

**REPORT ON DETAILED SOIL SURVEY AND LAND USE OF Aj1d, Aj1e, Aj1f AND Aj1w SUBWATERSHEDS OF NAGARJUNSAGAR CATCHMENT OF HUNGUND TALUK OF BAGALKOT DISTRICT AND LINGSUGUR AND KUSTAGI TALUKS OF RAICHUR DISTRICT, KARNATAKA.**

**ABSTRACT**

- 1. Surveyed area:** Aj1d, Aj1e, Aj1f and Aj1w subwatersheds of Nagarjunsagar catchment of Hungund taluk of Bagalkot district and Lingsugur and Kustagi taluks of Raichur district, Karnataka.
- 2. Location** Aj1d, Aj1e and Aj1f: 15°59'39"to 16°9'43"N latitude and 76°10'4"to 76°18'22"E longitude  
Aj1w 15°56'2"to 16°3'37"N latitude  
76°36'to 76°4'39"E longitude
- 3. Total area mapped and reported** : 25147 hectares
- 4. Kind of survey** : Detailed soil survey
- 5. Period of survey** : December 2001 to June 2002
- 6. No. of surveyed villages** : 44 (forty-four)
- 7. Base map used** : Cadastral map on 8"=1mile
- 8. Agro climatic zone** : 10
- 9. Soil series mapped and sub watershed wise extent (hectares)**

S. No.	Name of the soil series	Aj1d	Aj1e	Aj1f	Aj1w	Total area	Percentage
1	Devlapur	-	785	353	130	1268	5.0
2	Dyampur	1183	2087	3599	876	7745	30.8
3	Kallur	116	41	62	261	480	1.9
4	Mainahalli	1495	329	1031	987	3842	15.3
5	Sompur	267	-	-	175	442	1.8
6	Thimmapur	2295	1914	1149	1624	6982	27.8
7	Vardapur	7	65	249	-	321	1.3
8	Wadagenahalli	263	1081	730	514	2588	10.3
	Total	5626	6302	7173	4567	23668	94.1
	Miscellaneous	434	228	260	557	1479	5.9
	<b>Grand Total</b>	<b>6060</b>	<b>6530</b>	<b>7433</b>	<b>5124</b>	<b>25147</b>	<b>100.0</b>
	Percentage	24.1	26.0	29.5	20.4	100.0	

## 10. Area(in ha) under different capability classes:

S. No	Land capability class	Total area	Percent	Soil Series
1	II	8668	34.5	1. Devlapur, 2.Dyampur, 3.Kallur, 4. Thimmapur
2	III	5061	20.1	1.Devlapur, 2.Dyampur, 3.Mainahalli, 4.Wadagenahalli
3	IV	9939	39.5	1.Devlapur, 2.Dyampur, 3.Kallur, 4.Mainahalli, .5.Sompur, 6.Thimmapur, 7.Vardapur, 8.Wadagenahalli
4	Misc. road, village-site, streams, ROC, etc.	1479	5.9	
5	Grand Total	25147		

## 11. Salient features:

1) Maximum area is mapped under Dyampur (7745 ha) followed by Thimmapur (6982 ha), Mainahalli (3842 ha) and Wadagenahalli (2588 ha)

2) Land capability class IV has maximum area followed by class II and III nearly 54% of the area is suitable for cultivation and for 9939 ha (class IV)cultivation can be done with care and with the use of improved soil, crop and water management practices.