

**Report on Detailed soil survey and land use of Ag2s, Ag2v,  
Ag2w and Ag2y subwatersheds of Nagarjunasagar  
Catchment, Deodurg and Raichur taluks, Raichur district,  
Karnataka**

**ABSTRACT**

01. Survey area : Ag2s, Ag2v, Ag2w, Ag2y, subwatersheds of Nagarjunasagar catchment, Deodurg and Raichur taluks, Raichur District, Karnataka
02. Type of survey : Detailed soil survey
03. Type of base map : Cadastral map (1:7,920 scale)
04. No. of villages covered : 23
05. Total area surveyed (ha) : 14,363 ha

Sr. No.	Subwatershed Code	Net area	Misc. area	(Area in ha)
				Total area
01	Ag2s	3237	44	3281
02	Ag2v	2730	92	2822
03	Ag2w	4499	33	4532
04	Ag2y	3455	273	3728
	Total	13921	442	14363

06. (a) Period of survey : December, 2001 to January, 2004
- (b) Agroclimatic zone : Southern plateau and Hill region (Zone X)

07. Soil series identified and their subwatershedwise distribution (ha)

Soil series	Ag2s	Ag2v	Ag2w	Ag2y	Total	Percentage
Chiksugur	26	-	-	-	26	0.2
Fatepur	51	49	24	-	124	0.9
Gonpad	263	354	275	632	1524	10.6
Halvenkatapur	2634	2255	3980	2823	11692	81.4
Jagarkal	65	-	-	-	65	0.4
Sultanpur	47	-	-	-	47	0.3
Venkatapur	151	-	220	-	443	3.1
Misc.	44	92	33	273	442	3.1
Total	3281	2822	4532	3728	16363	
Percentage	22.8	19.6	31.6	26.0		100

08. Potential for agricultural development and land capability classification

Description	Land capability class	Area (ha)	Percent age	Land capability unit	Area (ha)	Soil series
Good cultivated land	II	11149	77.6	Iles1	836 10248 65	Gonpad Halvenkatapur Jagarkal
Moderately good cultivated lands	III	1908	13.2	IIIes-1 IIIes-2	538 1323 47	Gonpad Halvenkatapur Sultanpur
Marginal lands suitable for limited cultivation	IV	395	2.8	IVes-1 IVes-2	150 121 124	Gonpad Halvenkatapur Fatepur
Very well suited for grazing. Not arable	V	443	3.1	Ves-1 Ves-2	277 166	Venkatapur Venkatapur
Well suited for afforestation	VII	26	0.2	VIIes-1	26	Chiksugur
Misc		442	3.1		442	
Total		14363	100.0		13921	

09. Salient features :

1. Deep to very deep soils cover 13,724 ha (86.5%)
2. 13,334 ha (92.8%) area suffers from moderate erosion
3. Very gently sloping area is 11,639 ha (81.0%)

Sodic soils (Venkatapur series) cover 443 ha (3.1% of total area)

5. Good cultivated lands (land capability class II) cover 11,149 ha area (77.6% of total area)