

## ABSTRACT

Report on Detailed Soil Survey and Land Use of Da4a', Da'1b, Da'1c, Da'2a, Dc'1a, Dc'1b, Dc'2a, Dc'2b, Dc'3a, Dc'3b, Dc'4a, Dc'4b and Dc'4d Subwatersheds, Dantiwada R.V.P. Catchment, Tehsil Palanpur, District Banaskantha, Gujarat.

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### Consolidated Abstract for 13 Subwatersheds

1. Surveyed Area : Da4a', Da'1b, Da'1c, Da'2a, Dc'1a, Dc'1b, Dc'2a, Dc'2b, Dc'3a, Dc'3b, Dc'4a, Dc'4b and Dc'4d subwatersheds, Dantiwada RVP Catchment, Tehsil : Palanpur  
District: Banaskantha  
State : Gujarat  
Latitudes :  $24^{\circ}17' - 24^{\circ}27' N$   
Longitudes:  $72^{\circ}25' - 72^{\circ}42' E$
2. Total surveyed area : 17890 ha.
3. Kind of survey : Detailed soil survey
4. Period of survey : November, 85 to June, 86.

## 5. Soil Series Mapped and Area Covered by each Series:

Area in hactares (%)

Sl. No.	Soil Series	Total area	Subwatersheds					Dc'1a	Dc'1b
			Da4a'	Da'1b	Da'1c	Da'2a			
1.	2.	3.	4.	5.	6.	7.	8.	9.	
1.	Balundra	771 (4.3)	115 (9.8)	-	83 (9.3)	354 (33.1)	-	38 (2.1)	
2.	Chandrabati	459 (2.6)	-	-	-	-	-	19 (1.0)	
3.	Dholiya	3926 (21.9)	739 (62.8)	-	-	49 (4.6)	-	32 (1.8)	
4.	Ghangu	6885 (38.5)	28 (2.4)	125 (25.0)	456 (50.8)	547 (51.1)	62 (3.6)	1240 (69.8)	
5.	Khuniya	671 (3.8)	-	-	7 (0.8)	21 (1.9)	-	89 (5.0)	
6.	Lakshmipura	3175 (17.7)	38 (3.2)	365 (73.0)	315 (35.0)	-	1480 (87.9)	284 (16.1)	
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Sub-total		15887 (88.2)	920 (78.2)	490 (98.0)	861 (95.9)	971 (90.7)	1542 (91.5)	1102 (95.8)	
Miscl. lands		2003 (11.2)	257 (21.8)	10 (2.0)	37 (4.1)	99 (9.3)	143 (8.5)	74 (4.2)	
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Grand total		17890 (100.0)	1177 (100.0)	500 (100.0)	898 (100.0)	1070 (100.0)	1685 (100.0)	1176 (100.0)	

## Salient Features:

- (a) Of the total area of 17890 ha., only 7851 ha. (43.9%) area is suitable for agriculture.
- (b) Nearly 11376 ha. (63.6%) area have severe and 3882 ha. (21.7%) have moderate erosion problems. Both require appropriate soil conservation measures.
- (c) Very shallow to shallow soils cover an area of 6885 ha. (38.5%) which have already been taken up for forest development programme.
- (d) Six soil series are met within these subwatersheds but only three soil series, namely, Dholiya, Ghangu and Lakshmipura are relatively extensive. Of these Balundra, Ghangu, Khuniya and Lakshmipura series have severe erosion hazards.