

**REPORT ON DETAILED SOIL SURVEY AND LAND USE OF Pw4a,  
Pw4b, Pw4c, Pw4d, Pw4f, Pw4g and Pw4h SUBWATERSHEDS,  
POCHAMPAD CATCHMENT, TAHSIL : BHOKARDAN & JAFRABAD,  
DISTRICT : JALNA, MAHARASHTRA STATE.**

**A B S T R A C T**

1. (a) Surveyed Area : Subwatersheds Pw4a, Pw4b, Pw4c, Pw4d, Pw4f, Pw4g and Pw4h, Pochampad Catchment; Jalna District, Maharashtra.
- (b) Type of Survey : Detailed Soil Survey
2. a) Total Area (reported and mapped) : 18375 ha.
- b) Period of Survey : December 1997 to June 1998
3. (i) Soil Series Mapped and Their Extent (ha) :

Sr. No.	Name of Soil Series	Total Area in ha.	%
1.	Ambegaon	275	1.5
2.	Chikhli	488	2.7
3.	Dongaon	3293	17.9
4.	Javkheda	550	3.0
5.	Khamkheda	5682	31.0
6.	Katora	2006	10.9
7.	Mahura	128	0.7
8.	Mahagaon	1004	5.4
9.	Masrul	581	3.1
10.	Palaskhed	1842	10.0
11.	Tapovan	1856	10.1
	<b>Sub Total</b>	<b>17705</b>	<b>96.3</b>
ii)	Other features including habitations River, Nala, Road, Tank etc.	670	3.7
	<b>Grand Total</b>	<b>18375</b>	<b>100</b>

#### 4. Land Capability Classes :

Sr. No.	Capability Class	Total Area in ha. (%)	Soil Series
1.	II	2764 (15.6)	Ambegaon, Chikhli, Katora Masrul, Malegaon
2.	III	2691 (15.2)	Chikhli, Khaperkheda Masrul, Mahagaon, Palaskhed
3.	IV	12072 (68.2)	Dongaon, Javkheda, Khamkheda, Khaperkheda, Tapovan
4.	VI	178 (1.0)	Dongaon, Mahura
		17705	

#### 5. Specific Problems :

Sr. No.	Nature of Problems	Area in ha							Total	Soil Series
		Pw4a	Pw4b	Pw4c	Pw4d	Pw4f	Pw4g	Pw4h		
1.	Moderate erosion	2749	908	3995	782	846	2040	1678	12998	Ambegaon, Chikhli, Dongaon, Jarkheda, Khamkheda, Katora, Masrul, Mahagaon, Palaskhed, Mahagaon Tapovan
2.	Severe erosion	935	500	257	221	850	582	798	4143	Dongaon, Javkheda, Khamkheda, Katora, Mahura, Tapovan
		3684	1408	4252	1003	1696	2622	2476	17141	

#### 6. Salient Features :

- About 65.0% area is under shallow soils.
- Nearly 24.6% area is covered by deep and very deep soils. Suitable for improved agriculture under rainfed and irrigated management.
- About 62.0% area occurs on gentle slope (3-5%) and requires soil and water conservation measures.
- Nearly 33.4% area suffers from severe erosion hazards and needs adequate soil and water conservation measures on priority basis.