

Table 4.1

Soil Characteristics in Study Area

Sl. No.	Parameters	Unit	Chandmari Bongali Gaon	Nagaajan Gaon	Naoholia No. 3	Niz- Lahoal	Bokul Maj Gaon	Wilton 22/157 Orr	Niz- Tengakhat	Tengapani TE 316 Nlr Gt.
Physical Parameters										
1.	Colour	--	Brown	Brown	Brown	Light Brown	Light Brown	Brown	Light Brown	Brown
2.	Moisture Content	%	2.83	3.54	2.92	3.91	2.90	4.23	3.63	3.70
3.	Water Holding Capacity	g/cc	44.6	47.3	48.9	59.8	47.9	50.6	55.2	46.5
4.	Bulk Density	%	1.22	1.23	1.23	1.19	1.21	1.16	1.12	1.14
Chemical Parameters										
5.	pH	--	7.5	7.7	7.8	7.4	7.9	7.8	7.6	7.6
6.	Calcium (as Ca ⁺)	mg/100g	9.6	12.8	12.0	7.2	11.2	10.4	10.4	12.8
7.	Magnesium (as Mg ⁺)	mg/100g	7.8	7.3	8.3	5.8	7.3	8.8	7.8	8.3
8.	Chloride	mg/100g	17.8	21.2	14.2	14.2	10.7	17.8	17.8	14.2
9.	Total Alkalinity	mg/100g	70	40	90	70	55	80	110	110
10.	Available Phosphorous	mg/100g	9.0	7.8	11.0	4.4	6.6	7.2	4.8	8.2
11.	Sulphate	mg/100g	6.4	5.8	6.8	6.1	4.5	5.0	10.4	8.3
12.	Potassium (as K)	mg/100g	15.6	12.8	18.8	17.2	18.4	14.7	11.7	17.9
13.	Kjeldahl Nitrogen (as N)	%w/w	0.013	0.019	0.034	0.036	0.041	0.024	0.051	0.048
14.	Total Organic Carbon	%	0.66	0.72	0.65	0.64	0.65	0.69	0.72	0.67
15.	Total Organic Matter	%	1.14	1.24	1.12	1.10	1.12	1.19	1.24	1.11

Note: Soil samples were collected on 12/02/2009.