

Table 4.1

Soil Characteristics in Study Area

Sl. No.	Parameters	Unit	Hapjan Gaon	Chandmari Bongali Gaon	Nagaajan Gaon	Naoholia No. 3	Dighal-tarang Gaon	Baghjan Gaon	Jaygykhowa Gaon	Tengapani TE 316 Nlr Gt.
Physical Parameters										
1.	Colour	--	Brown	Brown	Brown	Brown	Grey	Grey	Light Brown	Brown
2.	Moisture Content	%	2.64	2.83	3.54	2.92	3.42	3.82	4.24	3.70
3.	Water Holding Capacity	%	44.5	44.6	47.3	48.9	47.2	48.6	54.5	46.5
4.	Bulk Density	g/cc	1.23	1.22	1.23	1.23	1.24	1.21	1.14	1.14
Chemical Parameters										
5.	pH	--	7.7	7.5	7.7	7.8	7.7	7.7	7.5	7.6
6.	Calcium (as Ca ⁺)	mg/100g	12.0	9.6	12.8	12.0	8.0	7.2	9.6	12.8
7.	Magnesium (as Mg ⁺)	mg/100g	6.8	7.8	7.3	8.3	7.3	6.8	7.3	8.3
8.	Chloride	mg/100g	14.2	17.8	21.2	14.2	8.5	14.2	21.2	14.2
9.	Total Alkalinity	mg/100g	60	70	40	90	60	70	90	110
10.	Available Phosphorous	mg/100g	8.2	9.0	7.8	11.0	5.2	4.4	7.2	8.2
11.	Sulphate	mg/100g	4.4	6.4	5.8	6.8	4.9	4.8	10.8	8.3
12.	Potassium (as K)	mg/100g	13.2	15.6	12.8	18.8	16.4	14.9	14.1	17.9
13.	Kjeldahl Nitrogen (as N)	mg/100g	0.025	0.013	0.019	0.034	0.041	0.059	0.035	0.048
14.	Total Organic Carbon	%	0.67	0.66	0.72	0.65	0.68	0.63	0.72	0.67
15.	Total Organic Matter	%	1.16	1.14	1.24	1.12	1.17	1.09	1.24	1.11

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