

1 Table 1: Some physical and chemical properties of the six soil types used in the present study.

		Soil number					
		1	2	3	4	5	6
Location Name		Akhtar abad	Nemat abad (0-30cm)	Najm abad	Mohamad shahr	Nemat abad (30- 60cm)	tankaman
Geographical	x	455250	505519	303150	505770	505519	533450
Coordinates (UTM)	y	504945	364435	285335	354833	364435	595235
EC (dS/m)		0.91	0.86	3.05	1.88	0.61	2.12
pH		8.47	8.17	8.04	8.21	8.25	8.28
OC (%)		1.56	3.6	0.58	0.78	3.02	0.48
CaCO ₃		7.3	6.5	16.9	9.2	2.2	14.4
Texture		Sandy clay loam	Sandy loam	Sandy clay loam	loam	Clay loam	sand
Sand(2-0.02mm)(%)		52	70.4	58.07	38	29.5	91.9
Clay(%)		23.7	12.1	27.2	16	29.2	8.02
CEC (cmolc/kg)		15.7	18.3	10.1	14.8	27.1	7.3
Water content at maximum wet (BD)		14.92	21.5	14.8	12.7	23.05	14.19

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18 Table 2: The variations of the Atterberg limits per used mucilage for the 5 examined soils.

Properties	Mucilage (g/100g)	Soil Number					average
		1	2	3	4	5	
$\Delta PI/Mu$	0.1	6.2	5.8	73.6	37.6	119.6	48.6
	0.3	8.5	3.4	16.3	9.8	51.1	17.8
	0.5	8.3	6.8	5.3	11.2	24.6	11.3
	average						25.9
$\Delta PL/Mu$	0.1	-9.6	-4.5	-30.8	-25.7	-39.6	-22.07
	0.3	-2.7	4.2	1.7	-6.9	1.37	-0.5
	0.5	0.94	3.01	11.6	-1.3	2.23	3.3
	average						-6.4
$\Delta LL/Mu$	0.1	-3.45	1.27	40.7	9	3.51	10.2
	0.3	5.7	7.7	17.3	1.95	25.8	11.7
	0.5	9.2	9.8	16.5	9.3	10.6	11.1
	average						11.03

19 $\Delta PI/Mu$: (PI of treated soil with mucilage-PI of blank soil) / used mucilage

20 $\Delta PL/Mu$: (PL of treated soil with mucilage-PL of blank soil) / used mucilage

21 $\Delta LL/Mu$: (LL of treated soil with mucilage-LL of blank soil) / used mucilage.

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