



Supplementary Materials

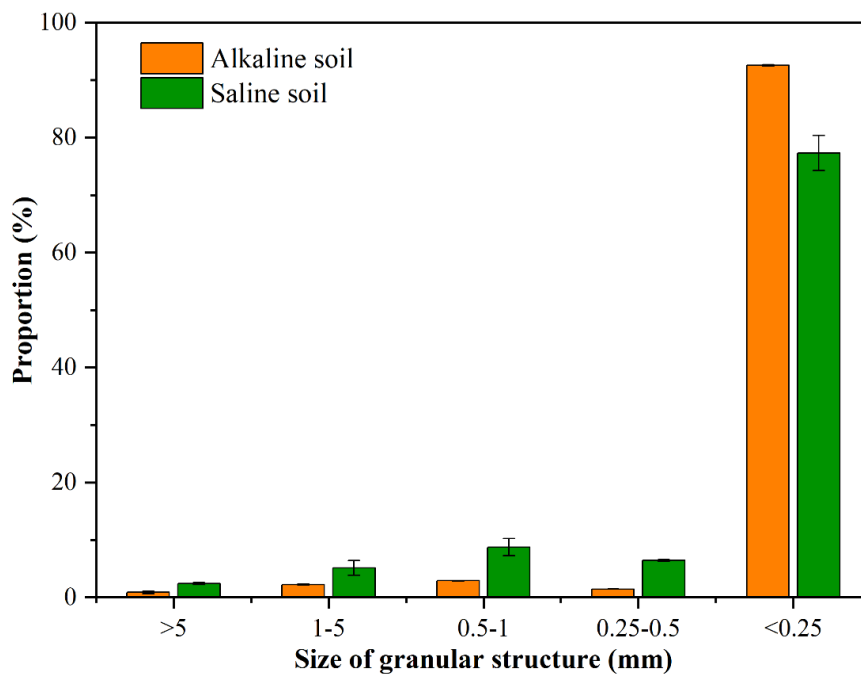


Fig. S1. Distribution of aggregate size in untreated alkaline and saline soils. The error bars represent the standard deviations.

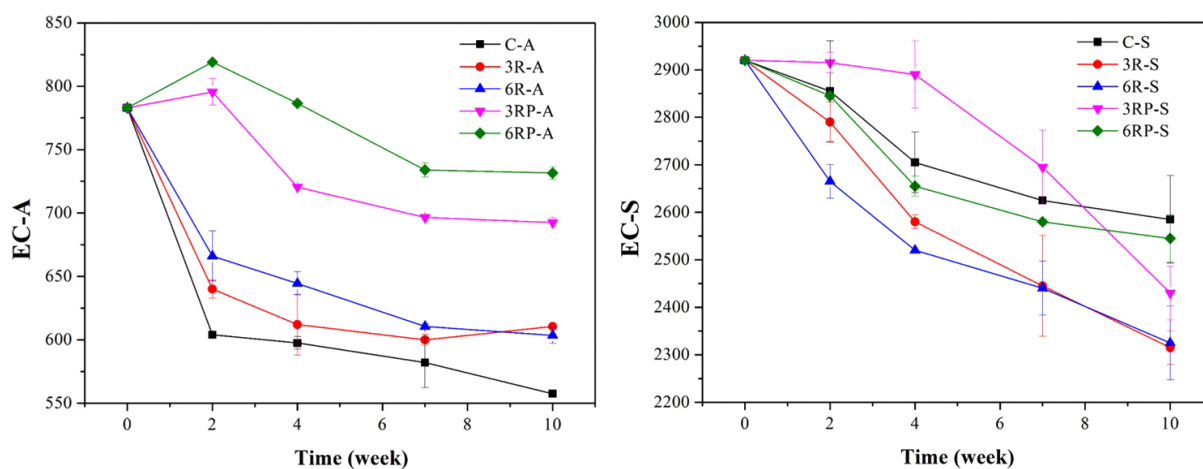


Fig. S2. The electrical conductivity in alkaline soil (a) and saline soil (b) along with the amelioration process.

Table S1. Basic properties of saline and alkaline soils used in this study

Initial properties	Saline soil	Alkaline soil
pH	7.17	8.87
Salt content (%)	0.72	0.18
Total carbon (g/kg)	25.55	20.64
Total nitrogen (g/kg)	1.30	1.21
Total phosphorus (mg/kg)	10.61	9.88
Moisture content (%)	11.62	2.18

Table S2. Effects of different treatments on soil aggregates distribution

Treatments	>5 mm (%)	1-5 mm (%)	0.5-1 mm (%)	0.25-0.5 mm (%)	<0.25 mm (%)
C-A	0.02	4.12	5.61	2.90	87.35
3R-A	0.15	6.86	6.92	2.67	83.40
6R-A	1.02	11.50	8.08	2.90	76.50
3RP-A	0.81	11.40	9.82	4.40	73.57
6RP-A	2.80	15.48	10.26	3.74	67.72
C-S	0.11	8.47	12.24	7.56	71.62
3R-S	1.15	18.90	15.82	8.27	55.86
6R-S	3.43	19.73	13.92	7.22	55.70
3RP-S	3.02	18.60	14.23	7.62	56.53
6RP-S	2.70	21.29	14.04	7.58	54.39