

**Table S1:- Showing Analysis of variance (ANOVA ) on the effects of arbuscular mycorrhizal fungi (AMF) from Sabkha and no-Sabkha habitat on the growth parameters of *L. scindicus* plants grown under different levels of salinity(S).**

Source of Variance	df	fValue	pValue	LSD	cv	Source of Variance	df	fValue	pValue	LSD	cv	Source of Variance	df	f value	p value	LSD	cv
Shoot Height						Shoot fresh weight						Shoot dry weight					
Salinity	2	113.69	<0.0001	4.490	14.708	Salinity	2	146.27	<0.0001	0.123	17.55	Salinity	2	129.81	<.0001	0.081	19.75
AMF	2	1.37	<0.2797			AMF	2	3.56	<0.0497			AMF	2	2.22	<0.1374		
Salinity x AMF	4	0.48	<0.7514			Salinity x AMF	4	0.58	<0.6825			Salinity x AMF	4	0.28	<0.8869		
Total Root Length						Root Fresh Weight						Root Dry Weight					
Salinity	2	446.94	<0.0001	6.778	8.115	Salinity	2	161.99	<0.0001	0.106	15.15	Salinity	2	210.59	<0.0001	0.06	14.5
AMF	2	7.86	0.0035			AMF	2	2.61	0.1009			AMF	2	7.63	0.004		
Salinity x AMF	4	5.03	0.0067			Salinity x AMF	4	2.03	0.133			Salinity x AMF	4	3.18	0.0383		
Root Surface Area						Root Volume						Root Diameter					
Salinity	2	173.6	<0.0001	6.047	16.09	Salinity	2	195.18	<0.0001	0.324	19.89	Salinity	2	66.39	<0.0001	0.136	12.63
AMF	2	0.94	0.4086			AMF	2	1.96	0.1693			AMF	2	10.65	0.0009		
Salinity x AMF	4	0.36	0.8352			Salinity x AMF	4	1.52	0.2378			Salinity x AMF	4	3.21	0.0374		
Number of Root Tips						Chlorophyll a						Chlorophyll b					
Salinity	2	417.61	<0.0001	8.356	9.149	Salinity	2	240.28	<.0001	0.116	11.56	Salinity	2	74.84	<.0001	0.155	16.5
AMF	2	0.56	0.5789			AMF	2	9.33	0.0017			AMF	2	4.6	0.0243		
Salinity x AMF	4	0.55	0.7024			Salinity x AMF	4	1.8	0.1725			Salinity x AMF	4	0.57	0.6886		
Total chlorophyll						Carotenoids						Proline					
Salinity	2	83.85	<.0001	0.139	15.79	Salinity	2	108.06	<.0001	0.061	17.74	Salinity	2	153.9	<.0001	0.868	21.42
AMF	2	4.77	0.0218			AMF	2	3.82	0.0413			Status	2	11.19	0.0007		
Salinity x AMF	4	0.52	0.7255			Salinity x AMF	4	1.33	0.2985			Salinity x AMF	4	3.94	0.0181		

Phenol						Hydrogen Peroxide						Protein					
Salinity	2	46.56	<.0001	8.128	13.9	Salinity	2	177.37	<.0001	0.301	12.58	Salinity	2	70.63	<.0001	1.094	17.48
AMF	2	9.58	0.0015			AMF	2	42.32	<.0001			AMF	2	6.87	0.0061		
Salinity x AMF	4	5.79	0.0036			Salinity x AMF	4	8.63	0.0005			Salinity x AMF	4	0.71	0.596		
Superoxide dismutase (SOD)						catalase (CAT)						Ascorbate peroxidase (APX)					
Salinity	2	91.73	<.0001	0.532	12.29	Salinity	2	143.87	<.0001	0.815	10.19	Salinity	2	52.71	<.0001	0.209	14.79
AMF	2	16.13	<.0001			AMF	2	15.12	0.0001			AMF	2	4.82	0.0211		
Salinity x AMF	4	2.92	0.0505			Salinity x AMF	4	3.62	0.0246			Salinity x AMF	4	1.72	0.1892		
Glutathione reductase (GR)						Monodehydroascorbate reductase (MDHAR)						AMF Mycelium					
Salinity	2	113.77	<.0001	0.217	19.12	Salinity	2	218.27	<.0001	0.239	15.08	Salinity	2	176.37	<.0001	5.082	13.15
AMF	2	19.42	<.0001			AMF	2	24.67	<.0001			AMF	2	402.2	<.0001		
Salinity x AMF	4	12.07	<.0001			Salinity x AMF	4	22.01	<.0001			Salinity X AMF	4	46.11	<.0001		
AMF Vesicles						AMF Arbuscules						AMF Spores					
Salinity	2	147.38	<.0001	4.755	17.06	Salinity	2	162.51	<.0001	5.538	15.41	Salinity	2	230.93	<.0001	15.29	12.71
AMF	2	245.72	<.0001			AMF	2	301.82	<.0001			AMF	2	418.33	<.0001		
Salinity x AMF	4	53.77	<.0001			Salinity x AMF	4	44.3	<.0001			Salinity x AMF	4	60.64	<.0001		