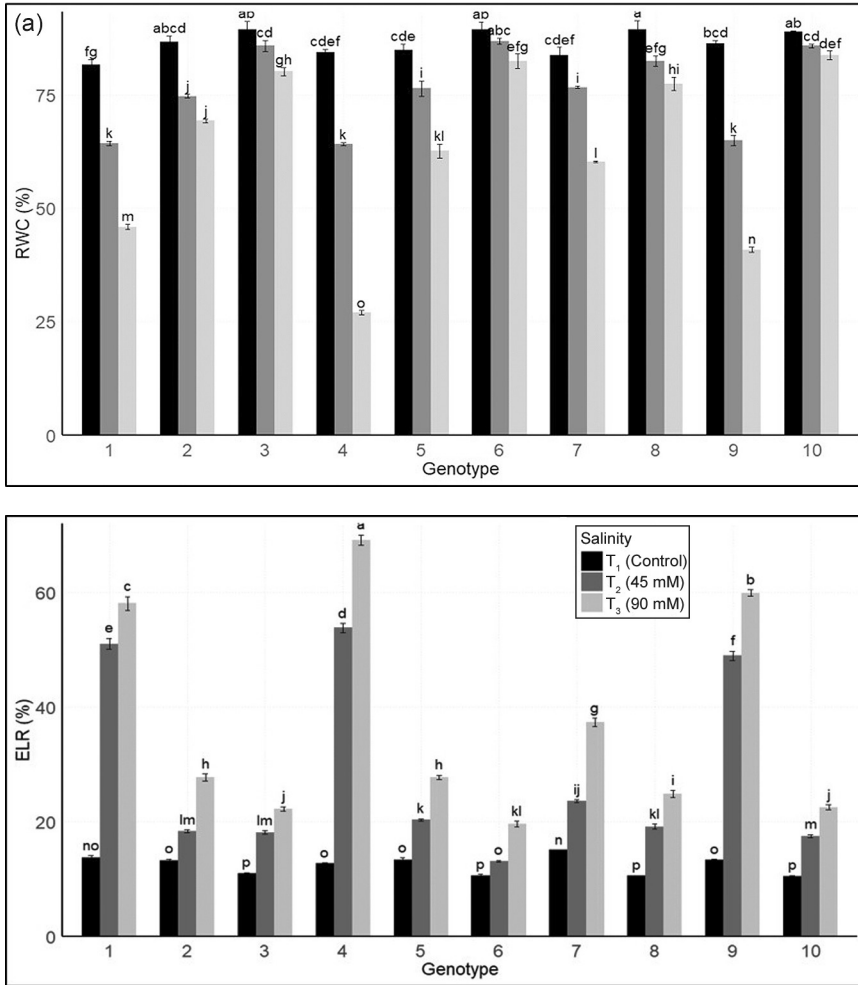


Supplementary Table 1 Effect of NaCl induced salt stress levels on vegetative growth traits in gladiolus genotypes

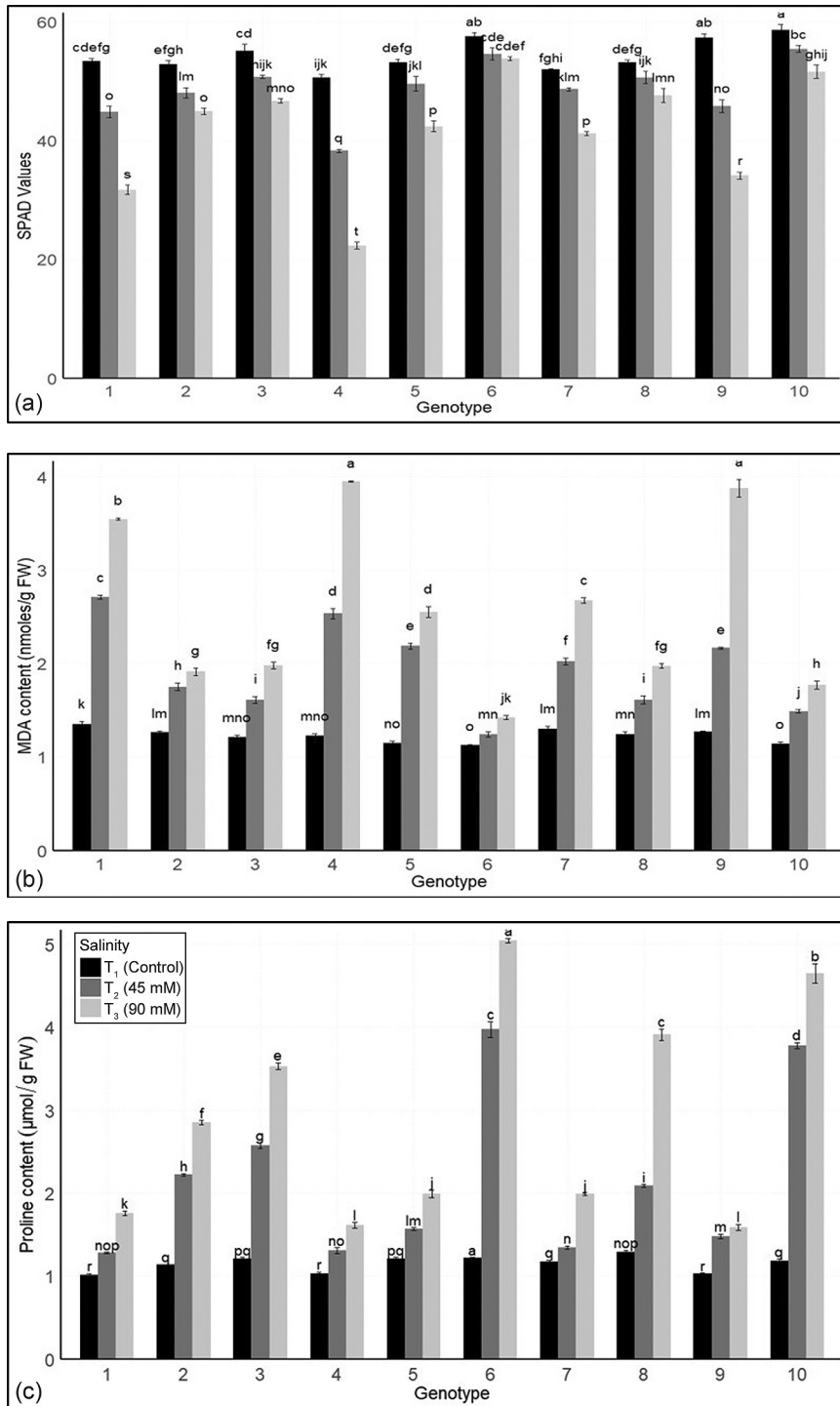
Genotype	Stem diameter (mm)*				SFW (g)*				SDW (g)*			
	Salinity treatment (T)			Mean	Salinity treatment (T)			Mean	Salinity treatment (T)			Mean
	Control	45 mM	90 mM		Control	45 mM	90 mM		Control	45 mM	90 mM	
Peter Pears	17.75 ^{de}	13.05 ^l	11.99 ^{mn}	14.26 ^F	48.61 ^{de}	26.44 ⁿ	15.17 ^q	30.07 ^f	9.43 ^e	5.42 ^l	3.01 ^{op}	5.95 ^g
Pusa Red Valentine	17.94 ^{cd}	15.97 ^h	14.36 ^k	16.09 ^D	48.56 ^{de}	40.17 ^{hi}	29.58 ^{kl}	39.44 ^c	9.83 ^d	7.45 ^{ij}	4.40 ^m	7.23 ^e
Warang Pink	18.74 ^b	17.18 ^{ef}	15.19 ^{ij}	17.04 ^C	51.24 ^b	42.92 ^f	36.55 ^j	43.57 ^b	10.98 ^b	8.49 ^g	5.33 ^l	8.26 ^c
Pusa Srijana	16.75 ^{fg}	13.18 ^l	11.26 ⁿ	13.73 ^G	47.78 ^e	24.47 ^o	10.41 ^r	27.55 ^g	10.57 ^c	4.28 ^m	2.77 ^p	5.87 ^g
Urmi	17.59 ^{de}	15.68 ^{hi}	14.67 ^{jk}	15.98 ^D	47.65 ^e	41.21 ^{gh}	26.29 ⁿ	38.38 ^d	10.01 ^d	7.85 ^h	3.70 ⁿ	7.19 ^e
Little Fawn	20.78 ^a	18.86 ^b	17.22 ^{def}	18.95 ^A	52.17 ^b	49.61 ^{cd}	40.76 ^{gh}	47.51 ^a	12.78 ^a	9.85 ^d	7.12 ^j	9.92 ^a
Urvashi	18.73 ^b	14.79 ^{jk}	12.05 ^m	15.19 ^E	53.45 ^a	28.78 ^{lm}	19.82 ^p	34.02 ^c	10.85 ^{bc}	5.10 ^l	3.25 ^o	6.40 ^f
Gulal	18.84 ^b	15.99 ^h	13.49 ^l	16.11 ^D	49.95 ^c	41.98 ^{fg}	28.12 ^m	40.02 ^c	10.98 ^b	7.62 ^{hi}	5.40 ^l	8.00 ^d
Pusa Suhagin	17.75 ^{de}	14.58 ^{jk}	11.26 ⁿ	14.53 ^F	49.45 ^{cd}	30.11 ^k	11.21 ^r	30.26 ^f	9.98 ^d	5.93 ^k	2.82 ^p	6.24 ^f
Yellow Stone	18.61 ^{bc}	17.81 ^{de}	16.13 ^{gh}	17.52 ^B	53.97 ^a	47.83 ^e	39.42 ⁱ	47.07 ^a	10.01 ^d	8.96 ^f	7.44 ^{ij}	8.80 ^b
Mean	18.35 ^A	15.71 ^B	13.76 ^C		50.28 ^A	37.35 ^B	25.73 ^C		10.54 ^A	7.09 ^B	4.52 ^C	
LSD $p < 0.001$	G = 0.42; T = 0.23; G×T = 0.73				G = 0.73; T = 0.40; G×T = 1.26				G = 0.20; T = 0.11; G×T = 0.35			

*Values (mean of two consecutive years, 2022–2023 and 2023–2024) followed by different uppercase letters in the vertical column represent significant differences between genotypes and in the horizontal row represent significant differences between salinity treatments. Different lowercase letters represent significant differences in the interaction between genotypes and salinity treatments.

SFW, Shoot fruit weight; SDW, Shoot dry weight.



Supplementary Fig. 1 Physiological responses of 10 gladiolus genotypes to NaCl salinity stress under control (0 mM), T₁ (45 mM) and T₂ (90 mM) conditions. (a) RWC and (b) ELR. Error bars represent the standard error (SE) of three replicates. RWC, Relative water content. Different letters above bars indicate significant differences ($p < 0.001$) among treatments and genotypes based on DMRT. The genotypes from 1 to 10 are Peter Pears, Pusa Red Valentine, Warang Pink, Pusa Srijana, Urmi, Little Fawn, Urvashi, Gulal, Pusa Suhagin, and Yellow Stone, respectively.



Supplementary Fig. 2 Biochemical responses of ten gladiolus genotypes to salinity stress under T₁ (control), T₂ (45 mM) and T₃ (90 mM) conditions. (a) SPAD value (chlorophyll content), (b) MDA content and (c) proline content. Error bars represent the standard error (SE) of three replicates.

Different letters above bars indicate significant differences ($p < 0.001$) among treatments and genotypes based on DMRT. The genotypes from 1 to 10 are Peter Pears, Pusa Red Valentine, Warang Pink, Pusa Srijana, Urmi, Little Fawn, Urvashi, Gulal, Pusa Suhagin, and Yellow Stone, respectively.