

Table S1. Wastewater analysis of different locations of Faisalabad.

Parameters	Unit	Paharang	Madhuana	University Farm	Canal Water
Electrical Conductivity	Us/CM	2209	5430	1130	838
Turbidity	NTU	460	166	59	0.42
Total Dissolved Solids	mg/L	1104	2724	565	419
Total Solids	mg/L	2344	4248	822	610
Total Suspended Solids	mg/L	1012	1002	110	14
pH		7.9	7.3	7.9	6.8
Bicarbonate	mg/L	999	1277	455	395
Chloride	mg/L	184	280	126	63
Total Hardness	mg/L	290	560	350	390
Calcium	mg/L	65	112	80	54
Magnesium	mg/L	29	56	36	62
Sulphate	mg/L	380	710	100	42
Iron	mg/L	2.1	2.3	0.2	1.9
Ammonia	mg/L	16.2	63.3	14.8	0
Phosphate	PO ₄ mg/L	60	40	90	2
Phosphate	P mg/L	20	10	30	1
Phosphate	P ₂ O ₅ mg/L	40	30	70	1
COD	mg/L	80	96	192	148
BOD	mg/L	37	61	103	68



Fig S1: Sources of wastewater at Faisalabad.

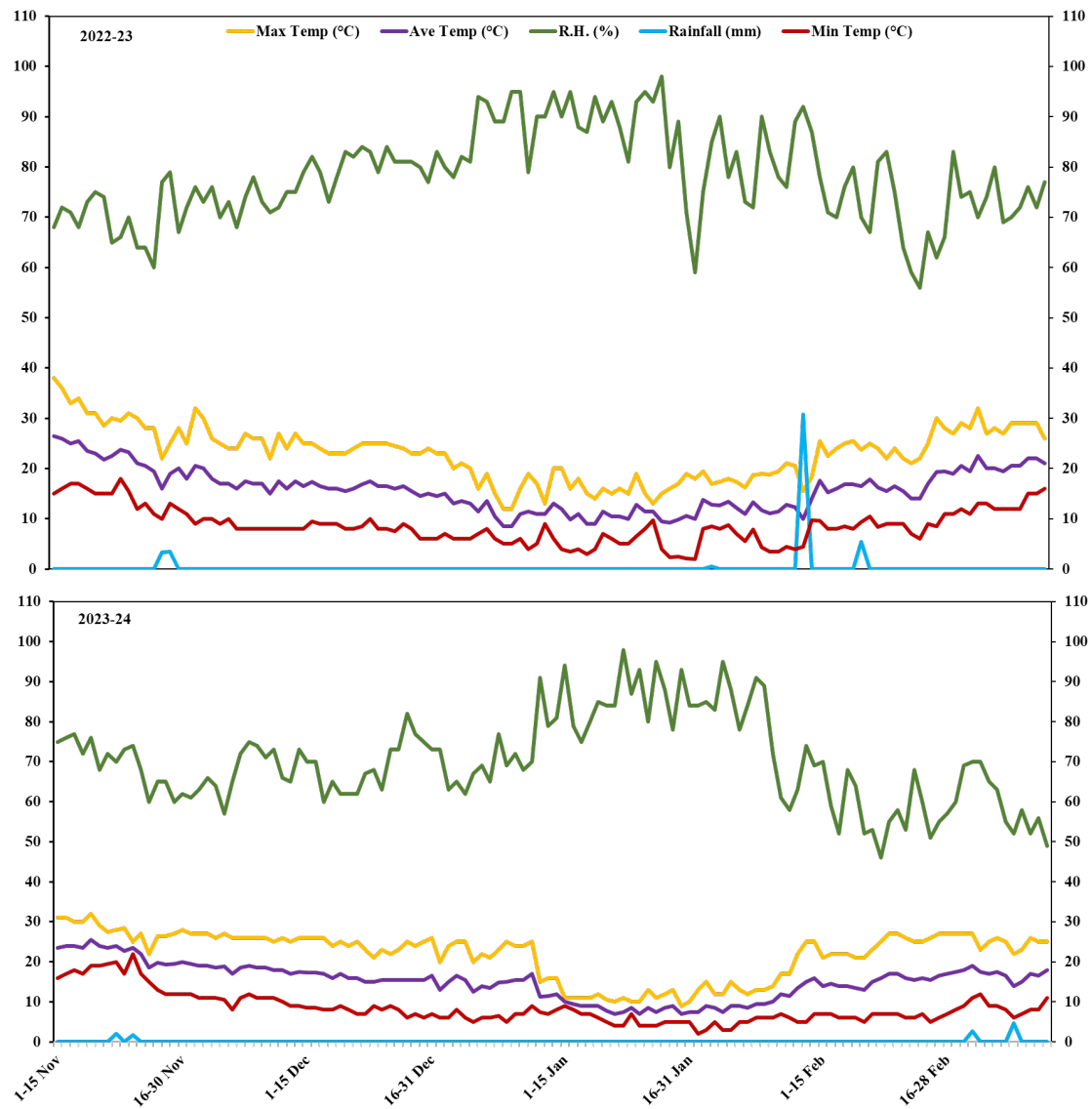


Fig S2: Weather data at Faisalabad during 2022-2023 and 2023-2024.

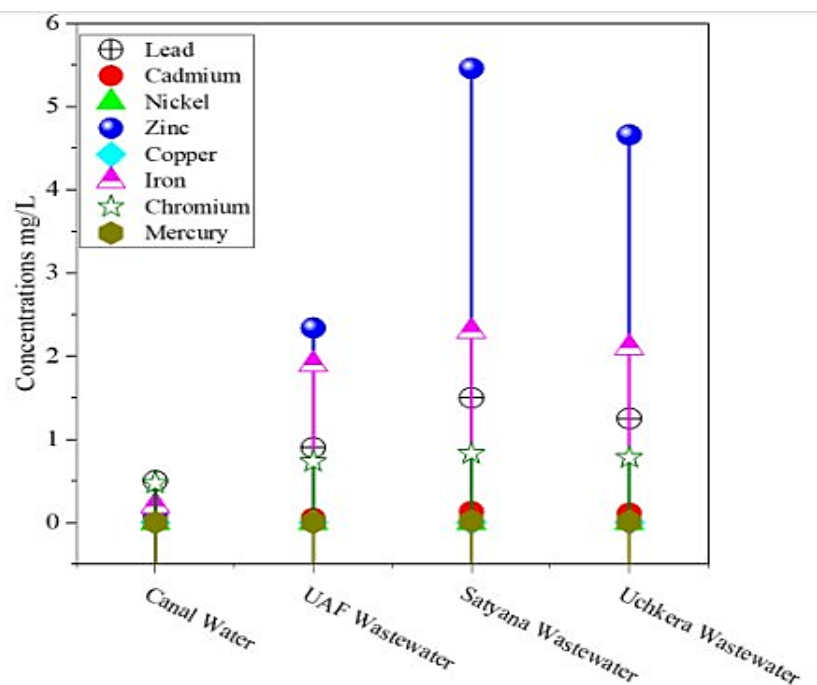


Fig. S3: Heavy metal analysis of canal, wastewater at different locations of Faisalabad.

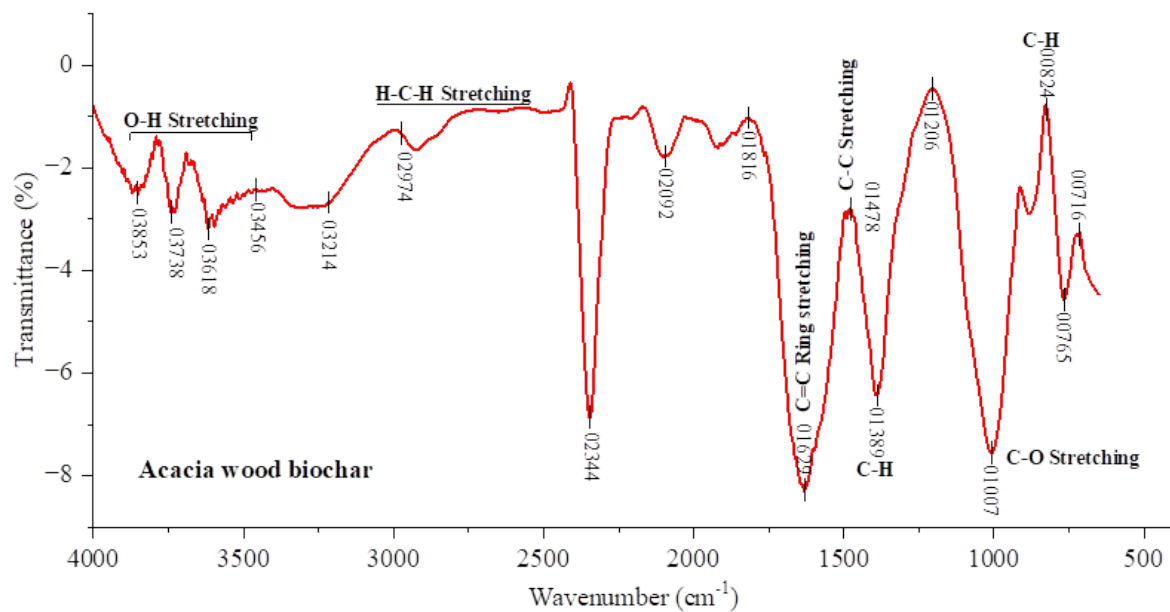


Fig. S4: FTIR of acacia wood biochar.



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Biochar application mitigates heavy metal contamination and enhances growth and production of tomato under diverse wastewater irrigation scenarios

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