

Supplementary Material

Contribution of K solubilising bacteria (*Burkholderia* sp.) promotes tea plant growth (*Camellia sinensis*) and leaf polyphenols content by improving soil available K level

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Table S1 The effect of *Burkholderia sp.* and applying K on available K level in soil

Treatment	Control	<i>Burkholderia sp.</i>	20 mg kg ⁻¹	60 mg kg ⁻¹
K concentration (mg kg ⁻¹)	145.93±6.68	168.40±13.60	158.06±4.05	190.97±7.55

Table S2 The effect of *Burkholderia sp* on available N,P level, metal element and pH in soil

mg/g	Control	<i>Burkholderia sp.</i>
Cu	0.0195±0.00089	0.01973±0.001
Mg	0.071±0.021	0.073±0.01
Zn	0.0498±0.006	0.052±0.0016
Ca	1.287±0.24	1.46±0.07
Available N	0.02722±0.0052	0.02851±0.0041
Available P	0.03717±0.00497	0.03932±0.0022
pH	4.90±0.03	4.84±0.03

Table S3 The effect of *Burkholderia sp* on K level in tea roots and tea leaves

mg/g	Control	<i>Burkholderia sp.</i>
Roots	7.915±1.06	12.085±0.63
Leaves	17.45±0.1	19.04±0.22