



Supplementary Fig. 1. Photographs showing plant growth promotion traits; A-Protease activity, B-Phosphate solubilization assay, C-Production of IAA, D-HCN production, E and F-Siderophore production, G and H- Cellulase activity, C=control.

Supplementary Table 1. Morphological and biochemical traits of the rhizobacteria isolated from turmeric rhizosphere and endophytic bacteria isolated from turmeric rhizomes

Bacterial Isolates	Morphological traits			Biochemical traits								Genera and number of isolates				
	Shape	Motility	Sporulation	Gram reaction	Methyl red	Citrate	Oxidase	Catalase	Voges Proskauer	Succinic acid	Starch hydrolysis		Ammonia production	Casein hydrolysis	KOH	
Rhizobacterial isolates RBacDOB-S1,S4, S10, S11, S14, S20, S21, S23, S29, S30, S41, S51, S53	Short rod	Motile	Non spore formers	-ve	-ve	+ve	+ve	+ve	-ve	+ve	-ve	+ve	+ve	+ve	+ve	<i>Pseudomonas</i> spp.(22)
Endophytic isolates BacDOB-E3,E4, E8, E9, E11, E15, E17, E19, E30	Long rod	Motile	Non spore formers	+ve	-ve	-ve	-ve	+ve	-ve	-ve	-ve	+ve	+ve	-ve	-ve	<i>Bacillus</i> spp.(7)
Rhizobacterial isolates RBacDOB-S24, S26, S35,S56	Long rod	Motile	Non spore formers	+ve	-ve	-ve	-ve	+ve	-ve	-ve	-ve	+ve	+ve	+ve	+ve	<i>Arthrobacter</i> spp.(1)
Endophytic isolates- BacDOB-E20, E22, E26	Rod	Motile	Non spore formers	-ve	+ve	+ve	-ve	+ve	+ve	-ve	-ve	-ve	+ve	+ve	+ve	<i>Enterobacter</i> spp.(2)
Endophytic isolate BacDOB-E18	Long rod	Motile	Non spore formers	-ve	-ve	+ve	+ve	+ve	-ve	-ve	-ve	-ve	+ve	+ve	+ve	<i>Alcaligenes</i> spp.(4)
Rhizobacterial isolate RBacDOB-S70,	Rod	Motile	Non spore formers	-ve	+ve	+ve	-ve	+ve	-ve	-ve	-ve	-ve	-ve	-ve	-ve	<i>Acinetobacter</i> spp.(4)
Endophytic isolates BacDOB-E21	Rod	Motile	Non spore formers	-ve	-ve	+ve	+ve	+ve	-ve	-ve	-ve	-ve	-ve	-ve	-ve	<i>Ochrobactrum</i> spp. (1)
Rhizobacterial isolate RBacDOB-S78	Rod	Motile	Non spore formers	-ve	-ve	+ve	-ve	+ve	-ve	-ve	-ve	-ve	+ve	+ve	+ve	<i>Exiguobacterium</i> spp. (1)
Endophytic isolates- BacDOB-E2, E10, E14	Rod	Motile	Non spore formers	-ve	+ve	-ve	-ve	+ve	+ve	-ve	-ve	-ve	-ve	-ve	-ve	<i>Rhizobium</i> spp. (1)
Rhizobacterial isolates- RBacDOB-S62,	Rod	Non Motile	Non spore formers	-ve	+ve	+ve	-ve	+ve	-ve	-ve	-ve	-ve	-ve	-ve	-ve	<i>Klebsiella</i> spp. (1)
Endophytic isolates- BacDOB-E12, E24, E34	Small Rod	Motile	Non spore formers	-ve	-ve	+ve	-ve	+ve	+ve	-ve	-ve	-ve	-ve	-ve	-ve	<i>Citrobacter</i> spp. (1)
Rhizobacterial isolate RBacDOB-S52	Small Rod	Motile	Non spore formers	-ve	+ve	-ve	-ve	+ve	-ve	-ve	-ve	-ve	+ve	+ve	+ve	<i>Stenotrophomonas</i> spp.(5)
Rhizobacterial isolate RBacDOB-S57	Rod	Motile	Non spore formers	-ve	+ve	-ve	-ve	+ve	-ve	-ve	-ve	-ve	-ve	-ve	-ve	<i>Brevibacillus</i> spp. (2)
Rhizobacterial isolate RBacDOB-S72	Rod	Motile	Non spore formers	-ve	+ve	-ve	+ve	+ve	+ve	-ve	-ve	-ve	-ve	-ve	-ve	
Endophytic isolate BacDOB-E52	Short Rod	Motile	Non spore formers	-ve	-ve	+ve	+ve	+ve	-ve	-ve	-ve	-ve	-ve	-ve	-ve	
Endophytic isolate BacDOB-E5	Rod	Motile	Non spore formers	-ve	+ve	+ve	-ve	+ve	+ve	-ve	-ve	-ve	+ve	+ve	+ve	
Rhizobacterial isolate RBacDOB-S6, S9, S16, S36, S40	Rod	Motile	Non spore formers	-ve	-ve	+ve	+ve	+ve	-ve	-ve	-ve	-ve	-ve	-ve	-ve	
Rhizobacterial isolate RBacDOB-S18, S74	Rod	Motile	Non spore formers	-ve	+ve	+ve	-ve	+ve	-ve	-ve	-ve	-ve	+ve	+ve	+ve	

Supplementary Table 2. The PDI of leaf blight disease

Isolate	Sum of individual ratings	Total No. of plants	PDI of leaf blight
<i>B. cereus</i> RBacDOB-S24	14	10	15.5
<i>P. putida</i> RBacDOB-S21	15	10	16.6
<i>P. aeruginosa</i> BacDOB-E19	16	10	17.7
<i>Enterobacteria</i> BacDOB-E21	17	10	18.8
Carbendazim (0.1%) + Mancozeb (0.25%)	19	10	21.1
Uninoculated control	0	10	0
Pathogenic control	70		77.7

The values are mean of three replicates.