List of Tables

Table 1.1 Effect of seed treatment with abiotic inducers and commercial formulations on seed germination, vigour in pearl millet and anti-mildew activity on *Sclerospora graminicola*.

Table 1.2 Effect of seed treatment with different abiotic inducers and commercial formulations on downy mildew disease incidence and protection under greenhouse conditions in pearl millet.

Table 1.3 Effect of seed treatment and foliar spray of different commercial formulations on downy mildew disease incidence and protection under greenhouse conditions in pearl millet.

Table 1.4 Effect of seed treatment and foliar spray of different commercial formulations on pearl millet downy mildew disease incidence and protection under field conditions.

Table 1.5 Effect of seed treatment with different abiotic inducers on vegetative parameters of pearl millet plants under greenhouse conditions.

Table 1.6 Effect of seed treatment with different abiotic inducers on reproductive growth parameters of pearl millet under field conditions.

Table 2.1 Endophytic bacteria isolated from root and stem regions of different plant species.

Table 2.2 Promising endophytic bacterial isolates used in the present study.

Table 2.3 Effect of endophytic bacterial isolates on asexual spores of *Sclerospora graminicola* to study the fungitoxicity.

Table 2.4 Effect of seed treatment with promising endophytic bacteria on vegetative growth parameters of pearl millet plants.

Table 2.5 Effect of seed treatment with promising endophytic bacteria on reproductive growth parameters of pearl millet.

Table 3.1 Effect of seed treatment with aqueous extract of different plant extracts on germination, vigor index, asexual sporulation on zoospore release and downy mildew disease incidence and protection.

Table 3.2 Effect of different organic solvent extract of *Viscum album* on sporulation and zoospore of *Sclerospora graminicola*.

Table 3.3 Effect of different organic solvent extract of *Viscum album* on pearl millet seed germination and vigor index.

Table 3.4 Effect of seed treatment with *Viscum album* and *Argemone mexicana* extract on vegetative growth parameters of pearl millet.

Table 3.5 Effect of seed treatment with *Viscum album* and *Argemone mexicana* extract on reproductive growth parameters of pearl millet.

Table 3.6 Temporal pattern of relative amounts of lignin in different tissues of roots and coleoptiles of two-day-old seedlings of pearl millet to *Sclerospora graminicola* infection.

Table 4.1 Distribution and organ specific expression of thionins across plant species.