PHOTOPLATE III
PHOTOPLATE V
PHOTOPLATE VIII

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PHOTOPLATE XI
PHOTOPLATE I

Sites selected for collection of samples from Yeola taluka of Nashik district

1. Bharam
2. Gawandgaon
3. Golhewadi
4. Kotamgaon
5. Kusur
6. Mukhed
7. Patoda
8. Saigaon
PHOTOPLATE II

Root colonization showing vesicles and intraradical hyphae

1. Macerated root of Bt cotton showing intraradical hyphae
2. Macerated root of Bt cotton showing extraradical hyphae
3. Root of Bt cotton showing initiation of vesicle formation
4. Root of Bt cotton showing globose vesicles
5. Root of Bt cotton showing many vesicles
6. Root of Bt cotton showing intermediate stage between vesicle and chlamydospore formation
7. Root of Bt cotton showing formation of chlamydospore in roots
8. Root of Bt cotton showing formation of chlamydospores outside roots

Abbreviations

IRH = intraradical hyphae
ERH = extraradical hyphae
V = vesicle
C = chlamydospore
PHOTOPLATE III

Various species of *Acaulospora*

1. Single spore of *Acaulospora denticulata* Sieverding & Toro
2. Spore of *Acaulospora denticulata* showing ornamentation on the outer wall (Magnification 10 x 40)
3. Single spore of *Acaulospora foveata* Trappe & Janos
4. Spore of *Acaulospora foveata* showing pitted outer surface
5. Spore of *Acaulospora laevis* showing smooth spore surface
6. Spore of *Acaulospora nicolsonii* showing spore contents occluded by a septum at maturity.
7. Spore of *Acaulospora polonica* showing raised circular to oblong bodies
8. Single spore of *Acaulospora polonica* Blaszkowski (Magnification 10 x 40)

**Abbreviations**

MTS = molar teeth like structure
CI = cicatrix (raised circular to oblong bodies)
S = septum
PHOTOPLATE IV

Various species of *Glomus*

1. Spores of *Glomus aggregatum* Schenck & Smith emend. Koske
2. Spore of *Glomus albidium* Walker & Rhodes
3. Spore of *Glomus boreale* (Thaxter) Trappe & Gerdemann
4. Spore of *Glomus constrictum* Trappe with constricted hyphal attachment
5. Single spore of *Glomus callosum* Sieverding Wall Walker & Rhodes
6. Spore of *Glomus callosum* showing infundibuliform hyphal attachment
   (Magnification 10 x 100)
7. Spore of *Glomus convolutum* Gerdemann & Trappe
8. Spore of *Glomus leptotichum* Schenck & Smith

**Abbreviations**

CHA = constricted hyphal attachment

IHA = Infundibuliform hyphal attachment
PHOTOPLATE V

Various species of *Glomus*

2. Spore of *Glomus fasciculatum* showing H shaped hyphae (Magnification 10x100)
3. Spores of *Glomus fecundisporum* Schenck & Smith
4. Spore of *Glomus fistulosum* Skou & Jakobsen
5. Spore of *Glomus formosanum* Wu & Chen
6. Spore of *Glomus fragilistratum* Skou & Jakobsen
7. Spore of *Glomus mosseae* (Nicolson & Gerdemann) Gerdemann & Trappe
8. Spore of *Glomus mosseae* showing funnel shaped hyphal attachment (Magnification 10 x 100)

**Abbreviations**

FHA = funnel shaped hyphal attachment

HSH = H shaped hyphae
PHOTOPLATE VI

Various species of *Glomus* and *Scutellospora*

1. Spore of *Glomus invermayanum* Hall
2. Spore of *Glomus pansihalos* Berch & Koske
3. Spore of *Glomus tenebrosum* (Thaxter) Berch
4. Spore of *Scutellospora auriglobosa* (Hall) Walker & Sanders
5. Spore of *Scutellospora calospora* (Nicolson & Gerdemann) Walker & Sanders
6. Spore of *Scutellospora calospora* showing curved hyphal attachment and scutellum on spore (Magnification 10 x 100)
7. Spore of *Scutellospora dipapillosa* (Walker & Koske) Walker & Sanders
8. Spore of *Scutellospora fulgida* Koske & Walker

**Abbreviations**

SC = scutellum
PHOTOPLATE VII

Various species of *Scutellospora*

1. Spore of *Scutellospora dipurpurascens* Morton & Koske
2. Spore of *Scutellospora dipurpurascens* showing hyphal attachment (Magnification 10 x 100)
3. Spore of *Scutellospora minuta* (Ferrer & Herrera) Walker & Sanders
4. Spore of *Scutellospora minuta* showing hyphal attachment (Magnification 10 x 100)
5. Spore of *Scutellospora pellucida* (Nicolson & Schenck) Walker & Sanders (Magnification 10 x 100)
6. Spore of *Scutellospora weresubiae* Koske & Walker
PHOTOPLATE VIII

Preparation of Pure Culture of AM fungi and Bt cotton plants showing water stress treatment

1. Germinating seeds of jowar on moist filter paper in Petri dish
2. Inoculation of single spore of AM fungus on radical of jowar
3. Growing jowar plants inoculated with single spore of AM fungus
4. Mass multiplication of pure culture using jowar plants in pot
5. Bt cotton plants showing water stress treatment at an interval of 4 days
6. Bt cotton plants showing water stress treatment at an interval of 8 days
7. Bt cotton plants showing water stress conditions
PHOTOPLATE IX

The Bt cotton plants showing salt stress treatment

1. Set of Bt cotton plants at a dose of 0 dS/m salinity.
2. Set of Bt cotton plants at a dose of 3.5 dS/m salinity.
3. Set of Bt cotton plants at a dose of 7.5 dS/m salinity.
4. Experimental setup of Salinity stress.
PHOTOPLATE X

a. The Bt cotton plants with mycorrhiza treatment in field
   1. Bt cotton plant at seedling stage (30 days)
   2. Bt cotton plant at flowering stage (90 days)
   3. Bt cotton bolls
   4. Bt cotton seed fibre

b. The Bt cotton plants without mycorrhiza treatment in field
   5. Bt cotton plant at seedling stage (30 days)
   6. Bt cotton plant at flowering stage (90 days)
PHOTOPLATE XI

The Bt cotton plants with *Verticillium dahliae* treatment

1. Original culture of *Verticillium dahliae* obtained from M.T.C.C. Chandigarh
2. Subculture of *Verticillium dahliae* in laboratory
3. Dilutions of *Verticillium dahliae* culture
4. Set of Bt cotton plants treated with *Verticillium dahliae*.
5. Bt cotton plant showing infected petioles
6. T. S. of petiole showing vascular discoloration
7. Culture of *Verticillium dahliae* propagules from infected petiole
8. Bt cotton plant affected due to *Verticillium dahliae*