APPENDIX 1

GPS location, vegetation and physical characteristics of the studied sites

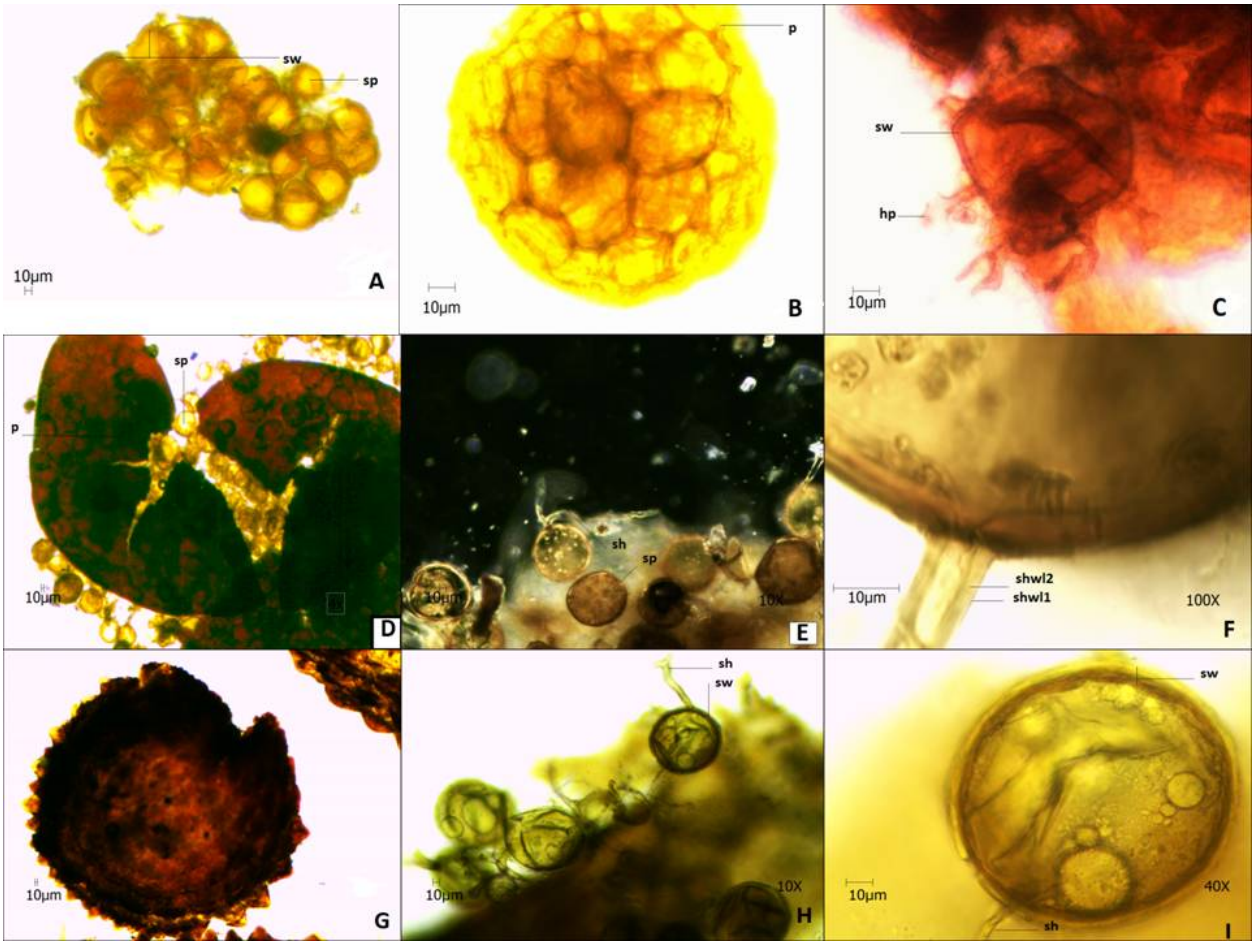
HI	Site no.	Location name	GPS location	Vegetation (Dominant trees)	Site characteristics			
					U	G	R	F
gp1	1	Civil lines, Kamla Nehru Ridge	28° 68' N, 77° 21' E	*Acacia karoo, Capparis decidua, Azadiracta indica, Acacia -otica, Ziziphus mauritiana, Eucalyptus* sp.	-	-	-	+
gp1	2	Central Delhi Ridge	28° 60' N, 77° 18' E	*Acacia -otica, Cassia fistula, Prosopis juliflora, Leucaena leucocepala*	-	-	-	+
gp1	3	Sanjay Van, South Delhi Ridge	28° 54' N, 77° 17' E	*Prosopis juliflora, Anogeissus pendula, Acacia -otica, Capparis decidua, Butea monosperma*	-	-	-	+
gp2	4	Buddha Jayanti Park, Central Delhi ridge	28° 61' N, 77° 17' E	*Syzygium cumini, Acacia karoo, Acacia -otica, Delonix regia, Cassia fistula, Capparis deciduas*	-	+	+	+
gp2	5	Hauz Rani Forest Stand, south Delhi Ridge	28° 51' N, 77° 20' E	*Syzygium cumini, Morus alba, Acacia -otica, Eucalyptus* sp., *Mangifera indica, Ficus religiosa*	-	+	+	+
gp2	6	Kamala Nehru Ridge (behind HRC DU)	28° 68' N, 77° 21' E	*Acacia karoo, Capparis decidua, Azadiracta indica, Acacia -otica, Ziziphus mauritiana, Eucalyptus* sp.	-	+	+	+

gp3	7	Police wireless station Karol Bagh, cental delhi ridge	28° 65’ N, 77° 19’ E	*Acacia karoo, Capparis decidua, Azadiracta indica, Acacia -otica, Ziziphus mauritiana, Eucalyptus* sp.	+	+	+	+
gp3	8	Anand Vihar	28° 58’ N, 77° 25’ E	*Acacia -otica,Cassia fistula, Prosopis juliflora, Leucaena leucocepala*	+	+	+	+
gp3	9	Adjoin Okhla Bird Century	28° 54’ N, 77° 30’ E	*Prosopis juliflora, Anogeissus pendula, Acacia -otica, Capparis decidua, Butea monosperma*	+	+	+	+

Site characteristics U-urine, G-garbage, R-recreation, F-fencing.

APPENDIX 2

Sporocarpic fungi isolated from rhizosphere of *Acacia -otica*



a-c *Sclerocystis sinuosum* b. *Divrsispora aurentia* and *Glomu*s sp. (where sp- spore, p-peridium, sw-sporewall, sh- subtending hyph, a shw1 and shw2 - subtending hyphae wall layers).

APPENDIX 3

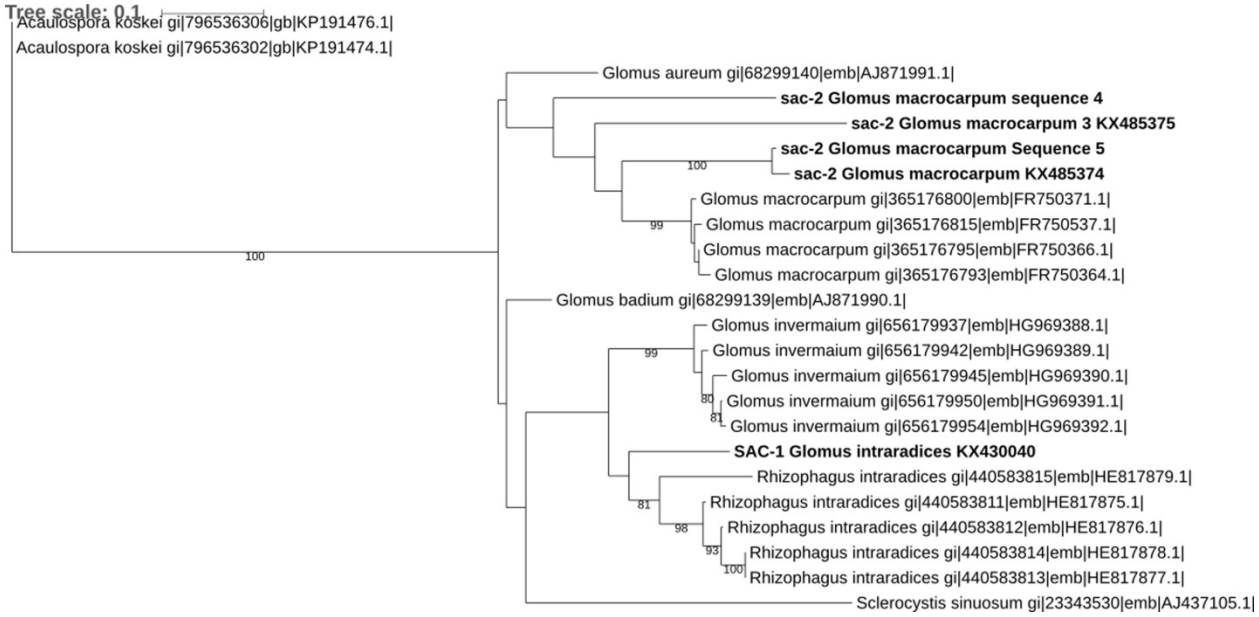
Values of mean and standard errors for different soil environment parameters

UD group		pH	soil moisture	temp	% C	% N	P (PPM)
gp1	Mean	8.17a	11.16a	13.33	37.29a	0.06a	26.70a
	SEM	0.06	0.14	0.12	36.22	0.00	1.04
gp2	Mean	8.01b	10.04b	13.33	0.78a	0.05b	20.37b
	SEM	0.02	0.22	0.05	0.02	0.00	1.70
gp3	Mean	6.35c	18.94c	16.00	0.47a	0.05b	9.34c
	SEM	0.09	1.39	0.00	0.02	0.00	0.42

Letters indicate statistical difference according to Tukey's HSD multiple comparison tests.

APPENDIX 4

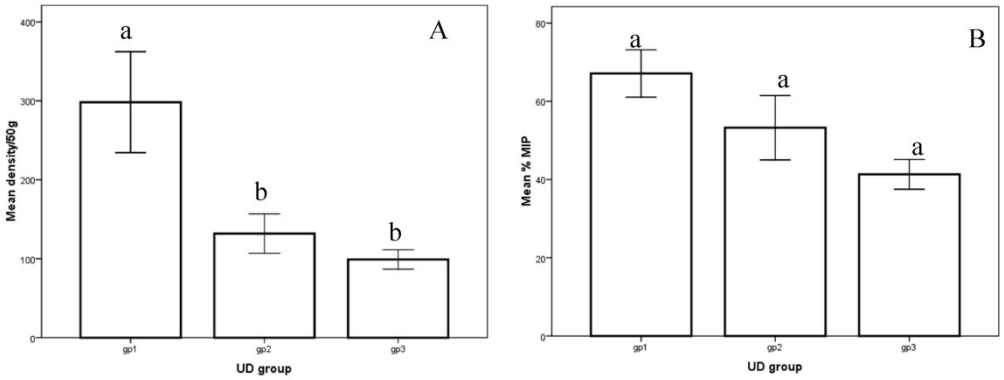
Maximum likelihood phylogenetic tree based on nuclear small subunit full (SSU)-5.8S-large subunit (LSU) rDNA of sequences isolated in present study and selected sequences of species from Glomeromycota



Bootstrap values are given for branches among different NCBI accession numbers. *Acaulospora koskei* sequences were used as outgroup. Multiple sequence alignment was done with Clustal w and phylogenetic tree was drawn with RaXml. The scale bar indicates the number of substitutions per site. Branches with < 60 % bootstrap support were collapsed to polytomies, The scale bar indicates the number of substitutions per site. Treeview 1.6.6 is used for drawing the tree.

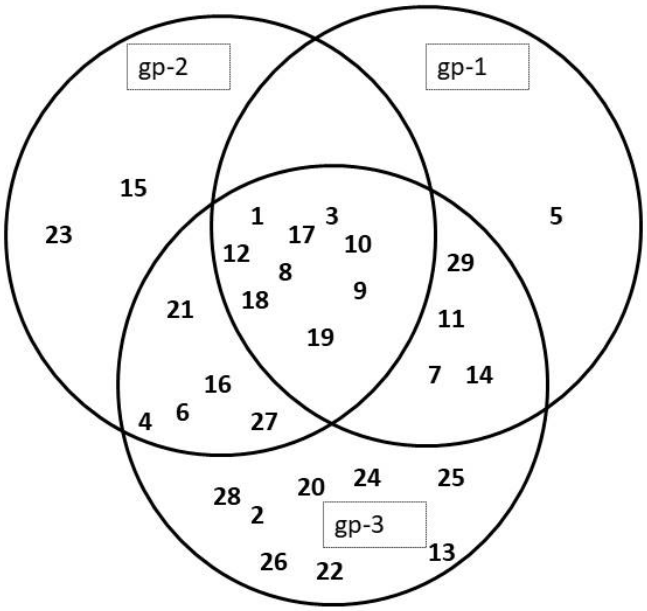
APPENDIX 5

Effect of urban disturbance on spore density (A) and (MIP) of AM fungi isolated from nine sites located at Delhi Ridge



APPENDIX 6

Venn diagram (plotted on the basis of presence absence of species) depicting distribution of Glomeromycotean species within three UD groups



1-*Glomus microaggregatum* N. C. Schenck & G. S. Sm; 2- *Glomus microcarpum* Tul. & C. Tul {= *Endogone microcarpa* (Tul. &C. Tul.) Tul. & C. Tul. =*Endogone neglacta* Rodway}; 3- Glomus sp1; 4-Unidentified sp2; 5-Unidentified sp5; 6-unidentified sp.1; 7-*Glomus invermianum* R. Hall; 8-*Diversispora aurantia* (Blaszk., Blanke, Renker & Buscot) C. Walker & A. Shussler (= *Glomus auronatium* Blaszk., Blanke, Ranker & Buscot); 9-*Rhizophagus aggregates* (N.C. Schenck & G.S. Sm.) C. Walker; 10-*Glomus ambisporum* (G.S. Sm. & N.C. Schenck); 11-*Glomus* sp2; 12-*Glomus tenebrossum* S.M. Berch (=*Endogone tenebrosa* Thaxt.); 13-*Rhizophagus intraradices* (N.C. Schenck& G.S. Smith) C. Walker & A. Schüßler); 14-Unidentified sp3; 15-Unidentified sp4;16-*Rhizophagus fasciculatus* (C. Walker & A. Schüßler); 17-*Glomus macrocarpum* Tul.& C. Tul; 18-*Enterophospora* sp. (R. N. Ames & R.W. Schneid); 19-*Entrophospora infrequens* (I.R. Hall) R.N. Ames & R.W. Schneid.(= *Glomus infrequens* I.R. Hall); 20-*Glomus albidum* C. Walker & L.H. Rhodes; 21-*Glomus austral* Berk.) S.M. Berch (= *Endogon eaustralis* Berk.); 22-*Funneliformis geosporum* T.H. Nicolson & Gerd.) C. Walker & A. Schüßler; 23-*Funneliformis mosseae* T.H. Nicolson & Gerd.) C. Walker & A. Schüßler; 24-*Acaulospora* sp.; 25-*Acaulospora laevis* Gerd & Trappe; 26-*Scutellospora calospora* (T.H. Nicolson & Gerd) C. Walker & F. E.; 27-*Glomus constrictum* (Trappe); 28-*Gigaspora* sp.; 29-*Gigaspora gigantean* (T.H. Nicolson & Gerd.)