**Supplementary files**

Research instruments:

1. GPS
2. Clinometer-compass
3. pH meter (model DM 15)
4. Aluminium tag, ruler, measuring tape.
5. Vernier Calliper
6. Glycero acetocarmine (1:1)
7. Triphenyl Tetrazolium chloride (TTC).

Table1: Physical parameters of sampling sites of *Meconopsis napaulensis*.

|  |  |  |  |
| --- | --- | --- | --- |
| **Elevation level (population)** | **Elevation (m asl)** | **Aspect (0)** | **Habitat type** |
| Lower (Lauribina danda) | 4117 - 4125 | SW | *Rhododendron lepidotum* dominated open shrub land. |
| Mid (Lauribina pass) | 4200 - 4255 | SW | Open rocky shrub land dominated by *Berberis erythroclada* & *Potentilla coriandrifolia.* |
| Higher (Gosainkunda) | 4396 - 4417 | SW | Rocky grassland |

**APPENDIX: 1**

Distribution of endemic species of genus *Meconopsi*s in Nepal.

   
**Species are indicated by alphabet:**

A= *M. napaulensis,* B= *M. ganeshensis ,* C= *M. autumnalis ,* D= *M. regia,* E= *M. simikotensis,*

F= *M. chankheliensis,* G*= M. staintonii ,*H= *M. gracilipe,* I= *M. taylorii,* J= *M. manasluensis ,* K=*M. dhwojii.*