Shoolini University

6 CLEAN WATER AND SANITATION

WATER-CONSCIOUS PLANTING

2025



Shoolini University of Biotechnology and Management Sciences,
Solan, Himachal Pradesh, india-173229

6.3.5 Water-conscious planting

In 2025, Shoolini University continued to strengthen its commitment to water-conscious landscaping and ecological sustainability through systematic plantation and expansion of campus green cover. During 2025, total of **1,284 saplings representing 22 recorded species** were planted across the University campus. The plantation included species such as Araucaria, Bottle Brush, Drake, Eugenia, Gooseberry, Golden Bottle Brush, Jamun, Jacaranda, Kachnar, Koelreuteria, Lagerstroemia, Nerium, Paltoform, Pencil Juniper, Punica, Putranjiva, Populur, Silver Oak, Tuni, Thuja, Weeping Willow, and Wild Cherry.

Of the total 1,284 sapling planted, **661 saplings representing 10 recorded species were drought-tolerant plants across** the University campus. The plantation included species such as Bottle Brush, Gooseberry (Amla), Golden Bottle Brush, Kachnar, Koelreuteria, Nerium, Paltoform, Pencil Juniper, Punica (Pomegranate), and Silver Oak. These species can contribute to sustainable campus landscaping, with drought-tolerant varieties helping reduce irrigation requirements once established, subject to local climatic conditions and appropriate maintenance. The plantation programme contributed to the development and enhancement of green campus landscapes and supported the University's broader environmental sustainability objectives. These plantation initiatives were complemented by the University's water-management infrastructure, including rainwater harvesting, groundwater recharge systems, permeable surfaces, and the reuse of harvested water for landscaping. Together, these measures support sustainable campus landscape management and contribute to the University's broader efforts to promote responsible water-resource utilization.

Flora in, Special species and Native Trees around Shoolini University - 2025

Sr. No.	Scientific Name	Revised Quantity
1	*Pinus roxbarghii*	More than 432
2	*Rahus coutinus*	2
3	*Toona ciliata*	43
4	*Grewia optiva*	11
5	*Grewia subimusqualis*	40
6	*Bauhinia monandra*	32
7	*Celtis tetrandra*	5
8	*Erythrina stricta*	3
9	*Syzygium cumini*	1 (150+ years old heritage tree)
10	*Sapindus muskorossi*	2
11	*Pyrus pashia*	24
12	*Bambusa oliveriana*	8 groves

13	*Bambusa atra*	3 groves
14	*Araucaria columnaris*	9 groves
15	*Cedrus deodara*	8,634
16	*Ficus benghalensis*	8
17	*Ficus carica*	2
18	*Ficus elastica*	4
19	*Ginkgo biloba*	2
20	*Grewia tiliaefolia*	21
21	*Peltophorum pterocarpum*	79
22	*Pinus sylvestris*	1
23	*Quercus leucotrichophora*	1,079
24	*Podocarpus* spp.	19
25	*Myrica esculenta*	49
26	*Rhododendron arboreum*	40
27	*Salix babylonica*	35
28	*Eriobotrya japonica*	5
29	*Prunus crasoides*	17
30	*Magnolia grandiflora*	2
31	*Platanus orientalis*	28
32	*Aesculus hippocastanum*	69
33	*Populus ciliata*	42
34	*Ficus religiosa*	12
35	*Punica granatum*	5,396
36	*Lagerstroemia turbinata*	22
37	*Lagerstroemia floribunda*	11
38	*Koelreuteria paniculata*	931
39	*Jacaranda acutifolia*	25
40	*Juniperus chinensis*	5
41	*Juniperus bermudiana*	13
42	*Gigantochloa rostrata*	8
43	*Camellia japonica*	6
44	*Bambusa striata*	24
45	*Quercus leucotrichophora*	216
46	*Myrica esculenta*	27
47	*Rhododendron arboreum*	16
48	*Juniperus bermudiana*	16
49	*Embelia officinalis*	2
50	*Cryptomeria japonica*	12
51	*Bambusa vulgaris*	6

Species-wise Plantation and Number of Saplings Planted during 2025

Sr. No.	Plant/ Tree Species	Total Saplings Planted
1	Araucaria	48
2	Bottle Brush	39
3	Drake	45
4	Eugenia	38
5	Gooseberry	48
6	Golden Bottle Brush	37
7	Jamun	49
8	Jacaranda	56
9	Kachnar	53
10	Koelreuteria	246
11	Lagerstroemia	29
12	Nerium	37
13	Paltoform	32
14	Pencil Juniper	55
15	Punica	51
16	Putranjiva	44
17	Populur	43
18	Silver Oak	63
19	Tuni	37
20	Thuja	30
21	Weeping Willow	82
22	Wild Cherry	113
Total species		**1,284**

List of Drought-Tolerant Species and Number of Saplings Planted during 2025

Sr. No.	Plant Species	Total Saplings Planted
1	Koelreuteria	246
2	Silver Oak	63
3	Pencil Juniper	55

4	Kachnar	53
5	Punica (Pomegranate)	51
6	Gooseberry (Amla)	48
7	Bottle Brush	39
8	Golden Bottle Brush	37
9	Nerium	37
10	Paltoform	32
Total		**661**

Evidence:



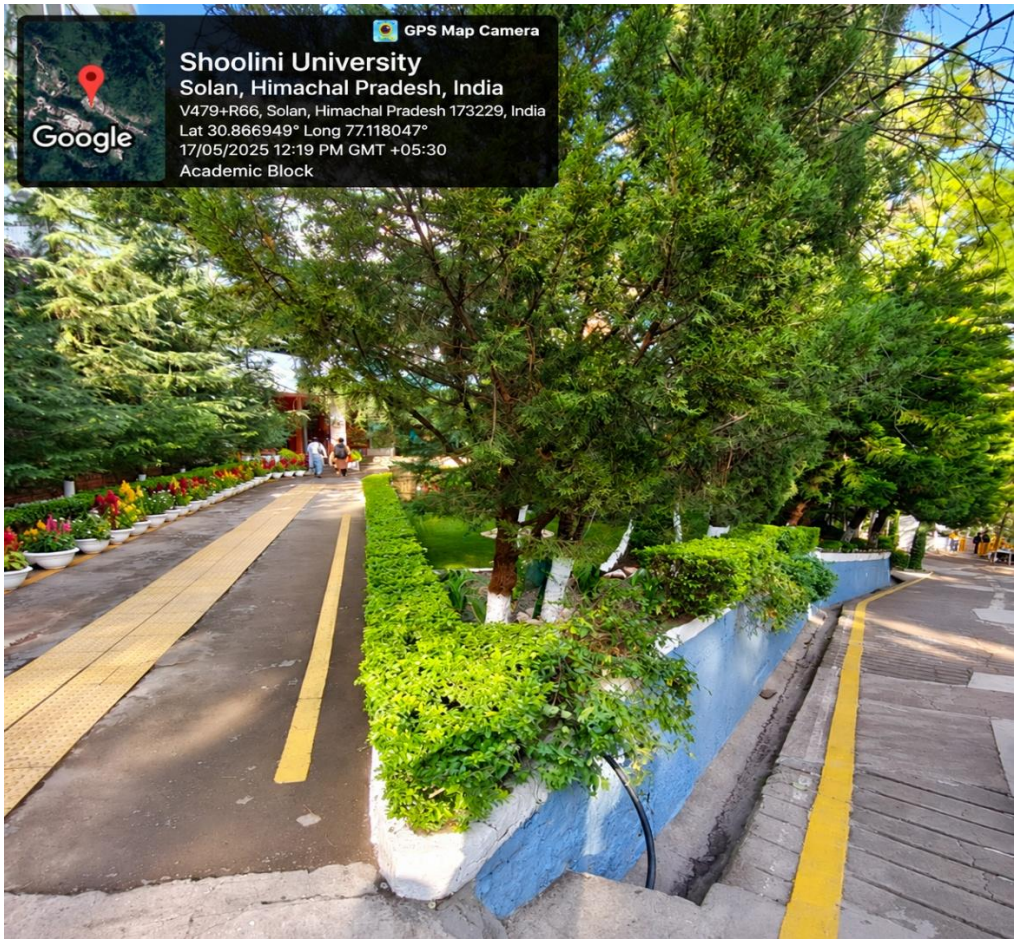
Landscape area below Yogananda library



Plants and trees near the library



Landscape area outside the A block at campus



Drought Plants at Academic Block

Conclusion

Shoolini University planted 1,284 saplings representing 22 recorded species across its campus during 2025, strengthening green cover and promoting ecological sustainability. Of these, 661 saplings across 10 recorded species were identified as drought-tolerant, supporting the University's approach to water-conscious landscaping. These plantation initiatives, complemented by rainwater harvesting, groundwater recharge, and the reuse of harvested water for landscaping, contribute to responsible water-resource management. Continued monitoring of plant survival, irrigation requirements, and maintenance practices will help assess the long-term environmental benefits of these initiatives.