

KSCST - RWH Cell Programmes

Project Highlights

Project Name	: Rainwater Harvesting at University of Agricultural Sciences, GKVK Campus, Bangalore - 560 065.
Project designed and proposed by	: Rainwater Harvesting Cell, Karnataka State Council for Science and Technology, Indian Institute of Science, Bangalore - 560 012.
RWH site address	: Medicinal and Aromatic Crops Section, Division of Horticulture, GKVK, Bangalore - 560 065.
Officer to contact	: Dr. M. Vasundara, HOD, Medicinal and Aromatic Crops Section Ph: 080 5531 5598 Mobile: 94496 30941
Campus area	: 1500 acres.
Annual Rainfall (30 years average)	: 800 mm.
Potential annual rainwater from the campus	: 48, 56,200 kl.

Project I

Project area – Poly Houses at Medicinal and Aromatic crops section

Poly House 1 : 300 sq.mt.

Potential annual rainwater from the Roof 1 : 240 kl.

Poly House 2 : 50 sq.mt.

Potential annual rainwater from the Roof 2 : 40 kl.

Poly House 3 : 100 sq.mt.

Potential annual rainwater from the Roof 3 : 80 kl.

Poly House 4 : 100 sq.mt.

Potential annual rainwater from the Roof 4 : 80 kl.

Poly House 5 : 69 sq.mt.

Potential annual rainwater from the Roof 5 : 55 kl.

Water requirement per day : 728 kl.

Rainwater Harvesting Project Interventions

- 1. Roof level minor modifications and Gutter fixing**
- 2. Regrouping of down water pipes and collection system**
- 3. Channalisation**

4. Stabilization tank as a part of Surface Tank
5. Surface tank storage facility
6. Excess water discharge system
7. Cost of Project implementation : Rs. 2,97,005

Total cost of the project (estimate) : Rs. 2, 97, 005/-

Location	Area in sq.mt.	Rainwater annual yield kl. (RF 800mm)	Water requirement per year kl. (300 days 20 lt/sq.mt./day)
Campus	6070238	4856190	
Poly House 1	300	240	180
Poly House 2	50	40	30
Poly House 3	100	80	60
Poly House 4	100	80	60
Poly House 5	69	55	41

Project II

Project area – Fields at Medicinal Plant section

Area: 30 Acres

Total Potential of rainfall: 97123 kl.

Rainwater Harvesting Project Interventions

- 1 Channalisation and realigning of water from fields
- 2 Earthwork Excavation
- 3 Construction of Water Storage Pond and bund
- 4 Construction of Cement ring well (30' deep and 5' diameter)
- 5 Borewell Recharge

Total cost of the project (estimate) : Rs. 2, 18, 270/-

Project III

Project area – Horticulture Dept. Building

Horticulture Division : 846 Sqmt.

Potential annual rainwater : 677 kl.

Rainwater Harvesting Project Interventions

1. Roof level minor modifications
2. Regrouping of down water pipes and collection system
3. Channalisation
4. Stabilization tank as a part of Surface Tank
5. Surface tank storage facility – 20 kl
6. Excess water discharge system
7. Cost of Project implementation : Rs. 1, 28, 565

Total cost of the project (estimate) : Rs. 1, 28, 565/-

Grand Total of the Estimated Project : Rs. 6, 43, 840/-