

Project Highlights

Project Name:	Rainwater Harvesting at B T L Educational Trust For Rural Development, No. 259/B, Bommasandra Industrial Area Hosur Road Bangalore 560 099.
Project Designed and Proposed By:	Rainwater Harvesting Cell, Karnataka State Council for Science and Technology, Indian Institute of Science, Bangalore.
Contact Persons:	Mr. N. Narasimha Murthy Hon. Secretary, B T L Educational Trust For Rural Development No. 259/B, Bommasandra Industrial Area Hosur Road Bangalore 560 099. Phone: 080 – 7833055, 7835250.

Components of the Project:

✚ Total Plot Area	- 39,000 sqm/ 9.3 Acres
✚ Rainwater Potential from the plot	- 34 ML
✚ Annual Rainfall	- 870 mm
✚ Catchment Area	- 3794 sqm
✚ Area annual rainwater potential	- 2806 kilo liter
✚ Under ground sump – proposed (3) + 25,000 lt	- 25,000 + 50,000 + 25,000
✚ First flush float lock	- 4 no.
✚ Filter bed number	- 4 no.
✚ Cement ring well	- 1 no.
✚ Silt trap	- 3 no.
✚ Leafslide	- 1 no.
✚ Piping and accessories	
✚ Modifications on existing bore well for recharge	

Total cost of the project : Rs. 1,170,908/-

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Estimate for Installing Rainwater Harvesting(RWH) System.			Cost per liter of the project		
Sl No	Intervention	Cost	Cathment Area(sqm)	Rainwater potential (kl)	Cost per lt in Rs.
1	Intervention 1	230,751	798	590561	0.39
2	Intervention 2	474,197	1714	1268280	0.37
3	Intervention 3	199,713	632	467459	0.43
4	Intervention 4	196,879	649	480242	0.41
5	Intervention 5	69,368	35206	31135188	0.00
		1,170,908	38999	33941730	0.04

Prepared by

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Principal Investigator - RWH
KSCST

B T L Educational Campus, Bangalore
Administrative block (Intervention – 1)

SL No.	Items	Item no	Cost
1	Under ground sump - proposed	1	100735.14
	First flush float lock & Filter bed	1	33324.63
	Piping and accessories	----	58233.00
	Total Amount		192,293.00
	Cost of Execution		38,459.00
	Grand Total(in Rupees.)		230,751.00

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EC, CS, IT and Part of Administrative block (Intervention – 2)

SL No.	Items	Item no	Cost
1	Under ground sump - proposed	1	290819.37
	First flush float lock & Filter bed	1	33324.63
	Piping and accessories	----	71020.00
	Total Amount		395,164.00
	Cost of Execution		79,033.00
	Grand Total(in Rupees.)		474,197.00

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Mechanical Engineering block (Intervention – 3)

SL No.	Items	Item no	Cost
1	Under ground sump - proposed	1	100735.14
	First flush float lock & Filter bed	1	33324.63
	Piping and accessories	----	32368.00
	Total Amount		166,428 .00
	Cost of Execution		33,286 .00
	Grand Total(in Rupees.)		199,713 .00

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Electronics and BTL Lecture hall block (Intervention – 4)

SL No.	Items	Item no	Cost
1	Under ground sump - proposed	1	100735.14
	First flush float lock & Filter bed	1	33324.63
	Piping and accessories	----	30006.00
	Total Amount		164,066 .00
	Cost of Execution		32,813 .00
	Grand Total(in Rupees.)		196,879 .00

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Open spaces - artificial recharge to the borewell(Intervention- 5)

SL No.	Items	Item no	Cost
1	Leaf slide	1	4,622.00
2	Silt trap	1	7736.55
3	Cement ring well	----	45447.87
	Total Amount		57,807 .00
	Cost of Execution		11,561 .00
	Grand Total(in Rupees.)		69,368 .00