

**6.4.1 b - Policy to maximise water
reuse across the university
(Policy to harvest the rainwater
and reuse)**

Policy to harvest the rainwater and reuse

B.S.Abdur Raham Crescent Institute of Science and Technology has a firm policy to harvest the rainwater and reuse it for beneficial purposes

RAIN WATER HARVESTING STRUCTURES AND UTILIZATION IN THE CAMPUS

- ❖ The institute has implemented rain water harvesting system in the campus with a strong desire to utilize the rain water at maximum extent.
- ❖ In the forefront to save water, our institute of science and technology has initiated and executed the rainwater harvesting in the campus.
- ❖ Rainwater harvesting facility is done in all blocks to collect rainwater from the roof of all buildings.
- ❖ The harvested water is diverted to open wells in institute campus, Men's Hostel and ladies hostel.
- ❖ The placement of rainwater facility within the campus is decided upon by considering the profile of the land so as to drain the maximum amount of water collected with ease.
- ❖ In the buildings, sufficient plumbing connections are provided to trap the rain water from the roof tops.
- ❖ Underground connections are ensured to connect the collected water from the roof top to the rainwater recharge pit.
- ❖ It was also ensured that the rainwater harvesting structures are constructed as per the norms. The recharge pit provided to collect the rain water is series of filter bed.
- ❖ This initiative took shape when the institute faced shortage of water during summer. Cost of buying water was becoming a financial burden. The only alternative to the water crisis was to use the available water more effectively.
- ❖ The features of the recharge pit are described below.
- ❖ A mesh is provided at the inlets of rain water pipes so that solid waste/debris is prevented B.S.Abdur Rahman Crescent Institute of Science and Technology has taken initiatives to install rain water harvesting pits in the campus from entering the pit system.
- ❖ The recharge pits are of size 2m x 2m x 2m is excavated
- ❖ The recharge pit comprises different set of filter media. The filter media comprises of thick layers of boulders at the bottom followed by layers of gravels and coarse sand.
- ❖ This enables the filtration of water and also prevents the deposition of silt on the recharge pit.
- ❖ Access Manhole frames and covers are provided.
- ❖ The rain water is also stored in Underground sumps of Life Science block, Mechanical Science Block and New Staff Quarters.

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RAIN WATER HARVESTING STRUCTURES IN CAMPUS



RAINWATER HARVESTING PIT

RAINWATER COLLECTION WELL

Rainwater harvesting facility is done in all blocks to collect rain water from the terrace. The details are listed below.

Rain Water Harvesting Details				
S.No	Inlet Pit Detail	Area (sq. m)	Rain water filter capacity (Litres)	Location
1	Inlet pit-1	156	200	Mechanical Science Block
	Inlet pit-2	122	200	
	Inlet pit-3	296	300	
	Inlet pit-4	175	200	
	Inlet pit-5	243	300	
2	Inlet pit-1	191	200	Ladies Hostel-New Block
	Inlet pit-2	188	200	
	Inlet pit-3	132	200	
3	Inlet pit-1	68	100	New Staff quarters
	Inlet pit-2	65	100	

	Inlet pit-3	81	100	
	Inlet pit-4	66	100	
	Inlet pit-5	81	100	
	Inlet pit-6	66	100	
4	Inlet pit-1	61	100	Men's Hostel-A&B BLOCK
	Inlet pit-2	71	100	
	Inlet pit-3	43	100	
	Inlet pit-4	132	200	
	Inlet pit-5	132	200	
	Inlet pit-6	43	100	
	Inlet pit-7	71	100	
	Inlet pit-8	61	100	
5	Inlet pit-1	297	300	Men's Hostel -C& D BLOCK
	Inlet pit-2	297	300	
6	Inlet pit-1	71	100	Men's Hostel -PG BLOCK
	Inlet pit-2	71	100	
	Inlet pit-3	71	100	
	Inlet pit-4	71	100	
	Inlet pit-5	71	100	
	Inlet pit-6	71	100	
	Inlet pit-7	71	100	
	Inlet pit-8	71	100	
7	Inlet pit-1	275	300	Pharmacy Block
8	Inlet pit-1	340	300	Library Block