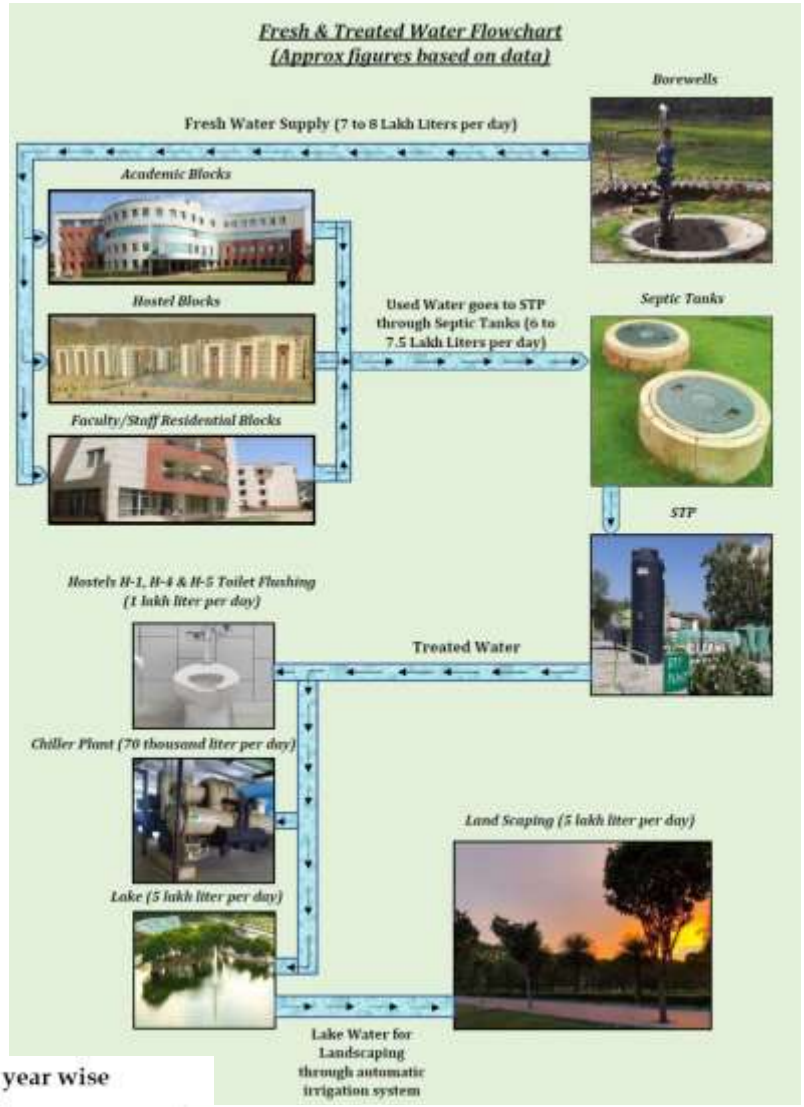
Conserving Water and Preventing Wastage

Water conservation is very important at AUR. The aim is to reduce wastage of water. To this end the following measures are being taken:

- Rain Water harvesting Lake The artificial lake gets treated water from the Sewage Treatment Plant and also all the rain water from terraces of buildings, and other rain water drains comes to this lake. This water is used for horticulture, thus ensuring literally zero wastage of water.
- Water Level Indicators A panel having three indicators denoting the water level is being established at ground level for ease of information to the plumbers for switching pumps On/Off, thus avoiding spillage and waste of water.
- Automated water filling system A Solenoid valve, pressure switch, float switch arrangement is being planned for implementation for automatic water filling system at one of the hostels on trial basis. This system if implemented at all locations will promote zero wastage of water therefore conserving water.



Efficient utilization of treated STP year wise

Amity University STP & ETP 2019 to 2021

Treated Water Lake (Ltr.) Per Day
Treated Water Chiller (Ltr.) Per Day
Treated Water Flushing for Hostel (Ltr.) Per Day
ETP Water for Lake (Ltr.) Per Day

2019				2020				2021			
Lake	Chiller	Flushing	ETP to Lake	Lake	Chiller	Flushing	ETP to Lake	Lake	Chiller	Flushing	ETP to Lake
372354	0	0	17064	395806	0	63225	10955	154193	0	14709	741
387964	0	0	18426	374775	0	70285	11821	171071	0	12857	3750
488967	0		17032	938380	0	33354	5032	295806	8e12	29232	8709
436200	39933		17066	6200e6		14833	933	223e6	10133	45966	4700

The wastewater generated in the campus is from sewage of labs, residential and canteen facilities, hostels and laundry. The above waste is treated through a Sewage Treatment Plant (STP) and Effluent Treatment Plant (ETP) of 7.5 lakh LPD available in the campus.

AMITY UNIVERSITY
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WATER MANAGEMENT

1. Water is supplied in AUR through bore wells. The present requirement of water may increase in the near future. Conservation of this resource will acquire primacy with the increase in infrastructure and personnel.

Water Calculation

2. AUR has five Academic Blocks, one Student Resource Centre, Five Hostel Blocks, Six faculty Blocks, One Staff Quarters Block.

3. There would be approximately 263 families' i.e. around 821 persons plus 2670 students residing in the campus. In the daytime during working hours there would be additional students, plus other faculty staff and workers, possibly an additional strength of 2100 personnel. There is a mess and also other vendors who would require water fortheir ventures.

4. The standard consumption of water for a family is taken as 135 litres per person per day. Students do not cook; however cooking is done for them in the mess and other places. Thus for all purposes we can assume 135 litres for them. The day scholars and faculty/staff commuting from Jaipur can be safely assumed to consume at least 40 lts per day.

5. The total Lts Per Day (LPD) is thus calculated as follows:

a. Faculty/Staff residing inside the campus: 135*3491 = 4,71,285 LPD

b. Guards and Other Staff routine duties after working hrs: 50*80 = 4000 LPD

c. Day Scholars, Faculty & Staff = 2100*40 = 84000 LPD

d. Chiller Plants Requirement : 60,000 LPD (Minimum)

e. Laundry Requirement (Commercial purposes uses more water than household purposes) 3000 LPD

6. Total 622285 LPD without Horticulture requirement. Horticulture requirement is met through STP and rain harvested water. Chiller plant water requirement is only during the plant operation period. These are only indicative yardsticks.

7. Water is supplied to various buildings through a network of underground sumps and overhead tanks. Water from the bore well is pumped to the underground tanks, from the underground tanks it is pumped to the overhead tanks. There are a total of 34 overhead tanks (both RCC and Sintex) and 08 underground tanks. Plumbers work in shifts to ensure adequate supply to each building.

8. Aquaguard are fitted along with the water coolers for hostels and in the faculty/staff residences. The aquaguards are on AMC and regular servicing is carried out.

11. Conserving Water and Preventing Wastage Water conservation is very important at AUR. The aim is to reduce wastage of water. To this end the following measures are being taken:

- Rain Water harvesting Lake The artificial lake gets treated water from the Sewage Treatment Plant and also all the rain water from terraces of buildings, and other rain water drains comes to this lake. This water is used for horticulture, thus ensuring literally zero wastage of water.

- Water Level Indicators A panel having three indicators denoting the water level is being established at ground level for ease of information to the plumbers for switching pumps On/Off, thus avoiding spillage and waste of water.

- Automated water filling system A Solenoid valve, pressure switch, float switch arrangement is being planned for implementation for automatic water filling system at one of the hostels on trial basis. This system if implemented at all locations will promote zero wastage of water therefore conserving water.

Going Ahead

12. AUR is now a fully residential campus. As the strength of students increases, the demand for water will also increase. While for around 08 months, with normal rainfall, AUR can be self sufficient, during the summer months criticality could occur. It is imperative that methods to conserve water are increased and new explored.

- Ground Water Recharging Ground water recharging had been done at various places. The ground water recharging is planned to be extended to borewell recharging. Two borewells have been identified for the pilot project. As AUR is in a semi bowl shape, water during rains also flows into the campus from the front and rear gates. The aim is to channelize this water to the nearest borewell for recharging through proper filtration.

- Use of STP water in flush system hostels Hostel Blocks are connected with a separate flush line for using the STP water.

- Cooling Tower of Chiller Plant The cooling tower of chiller plants utilize STP water. Thus approx 60,000-70,000 litres of water is being saved in this manner.

- Ground Mapping Ground mapping of AUR periphery has been done by 2 D image resistivity method. Cracks fixtures which could store water have been found. The intent is to recharge these zones so that the water resource is within the campus.

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Water conservation facilities and Watershed management available at Amity University Rajasthan

Mapping of Water Conservation Practices in Amity University Rajasthan

Lake

Sprinker for Irrigation

Cooling Ducts

AUR campus has an in house sewage treatment plant. (STP). Water treated in the STP is used for coolong ducts, irrigating the campus greens and collection in the lake.

Surface Drain Pipe (Top View)
Roof Top Drain Pipe (inset)

Water Collection Pit

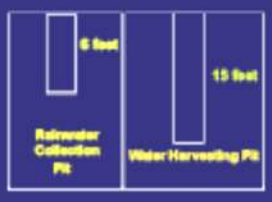
Surface Drain Pipe (Side View)

Borewell

On the rooftop of every building there are roof drains for removing water from roof surface (inset).The water from these roof drains and from surface drain pipes all across the campus is taken to rainwater collection pit and from there it gets transferred to water harvesting pit.Approximately 22 lac litres of water has been collected in the last one year of rainfall and recharged into the groundwater.

Top View

Water Collection Pit



Side View

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Fresh & Treated Water Flowchart
(Approx figures based on data)

Borewells

Fresh Water Supply (7 to 8 Lakh Liters per day)

Academic Blocks

Hostel Blocks

Faculty/Staff Residential Blocks

Used Water goes to STP through Septic Tanks (6 to 7.5 Lakh Liters per day)

Septic Tanks

STP

Hostels H-1, H-4 & H-5 Toilet Flushing (1 lakh liter per day)

Treated Water

Chiller Plant (70 thousand liter per day)

Lake (5 lakh liter per day)

Land Scaping (5 lakh liter per day)

Lake Water for Landscaping through automatic irrigation system

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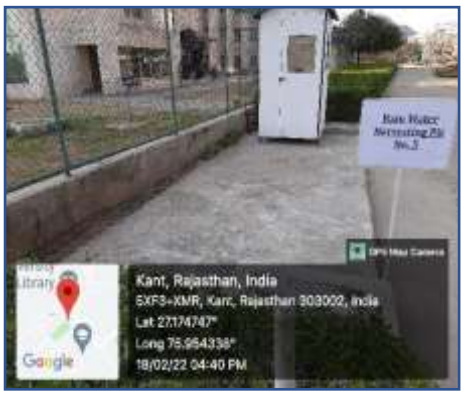
Rainwater harvesting

- Rainwater harvesting is through lake and through 8 different recharge pits created indifferent areas of the campus to recharge groundwater.
- The rainwater collected in these pits from the roofs of the buildings and use for horticulture.
- One bore well recharge pit has been created near the main gate to harvest rainwater.



Rain Water Harvesting Through Recharge Pits at Amity University Rajasthan

1. **Borewell Recharge:** The purpose of borewell recharge pit is to

   a. Divert rainwater from low lying areas to prevent flooding

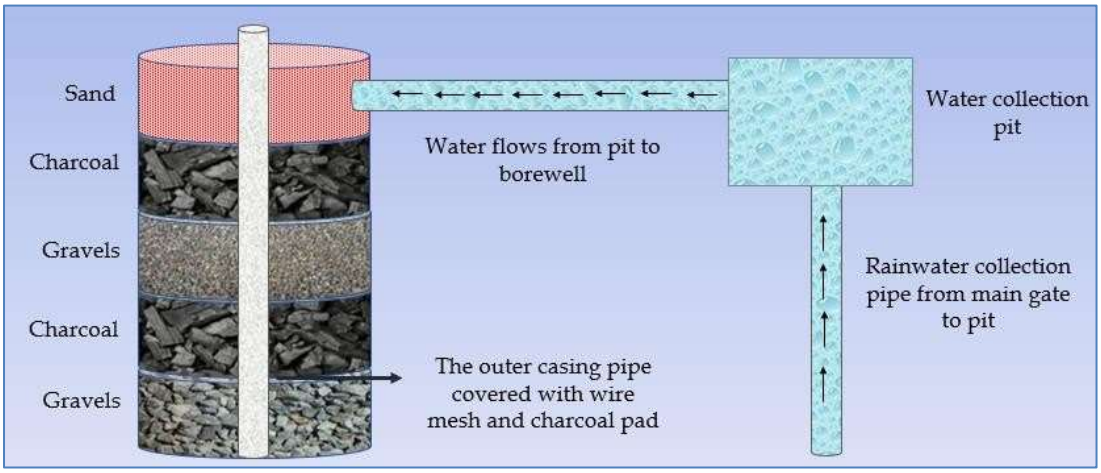
   b. Provide a passage for rainwater from terraces of buildings and otherstructures

   c. Channelise the water to a borewell through proper filtering, thus harvesting for future use

   d. Recharge of dry borewells to prevent digging of new ones

   e. Conservation of water through eco-friendly means

   f. Ensures proper utilisation of rainwater which otherwise could stagnateand fester mosquitoes / harmful bacteria



Material & Diagram of Collecting and Recharge pits

Rainwater flows into the recharge pit

2. Construction of tanks and bunds

Source of fresh water is through Borewells. Water is stored in underground and overhead. The University has five Academic Blocks, one Student Resource Centre, five Hostel blocks, Six faculty blocks and one Staff quarter block with more than 3500 residents.

- Water is supplied to various buildings through a network of underground sumps and overhead tanks. Water from the borewell is pumped to the underground tanks, from the underground tanks it is pumped to the overhead tanks. There are a total of 34 overhead tanks (both RCC and Sintex) and 08 underground tanks. Plumbers work in shifts to ensure adequate supply to each building.

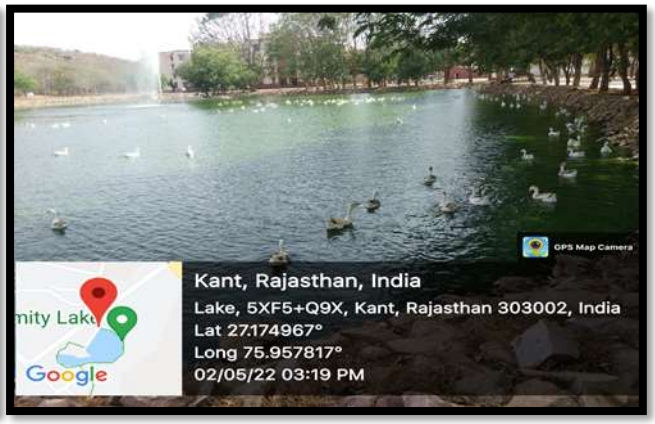
- Aquaguard are installed in water dispensers. Wastewater is channelled to STP plant and after treatment is utilized for flushing, horticulture and in chiller plants.

- One bore well recharge Tank has been created and other near the rear gate. This will help in collection and harvesting of rain water.

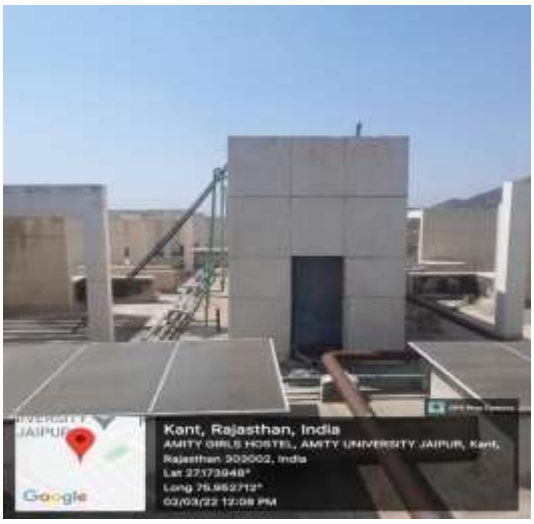
- **Water Harvesting Lake:**

  A manmade water-harvesting lake contributing towards conservation of natural resources is located in the heart of Amity University Rajasthan. The artificial lake gets treated water from the Sewage Treatment Plant. Rainwater from terraces of buildings, and other low lying areas also flows to this lake. This water is used for horticulture, thus ensuring literally zero wastage of water.The artificial water harvesting lake created stores treated water for horticulture purposes. The lake water for horticulture is pumped from the lake for auto Irrigation system. It attracts beautiful migratory birds thus enhancing the biodiversity and overall ecosystem of the University campus.

Water Harvesting Lake at Amity University Rajasthan



Underground Tank



Overhead Tank

Wastewater Recycling

- The liquid waste generated in the campus is from sewage of labs, residential and canteen facilities, hostels and laundry. The above waste is treated through a Sewage Treatment Plant (STP) and Effluent Treatmnet Plant (ETP) of 7.5 lakh LPD available in the campus.
- Water after treatment, is sent to a treated water lake, from where it is used for horticulture through an auto irrigation system. Fountains in the lake ensure proper aeration and as the process of use is dynamic, stagnation does not occur negating bad odor.
- Carp fish are there in the lake which prevents any algae growth byconsuming the same, thus keeping the lake clean.
- Treated water is also used for the cooling tower of chiller plants and for the flush system of four hostels.
- The sludge settled in STP is removed and is dried on drying beds andused as manure for the gardens. Therefore, the entire wastewater generated in the campus is treated and reused.

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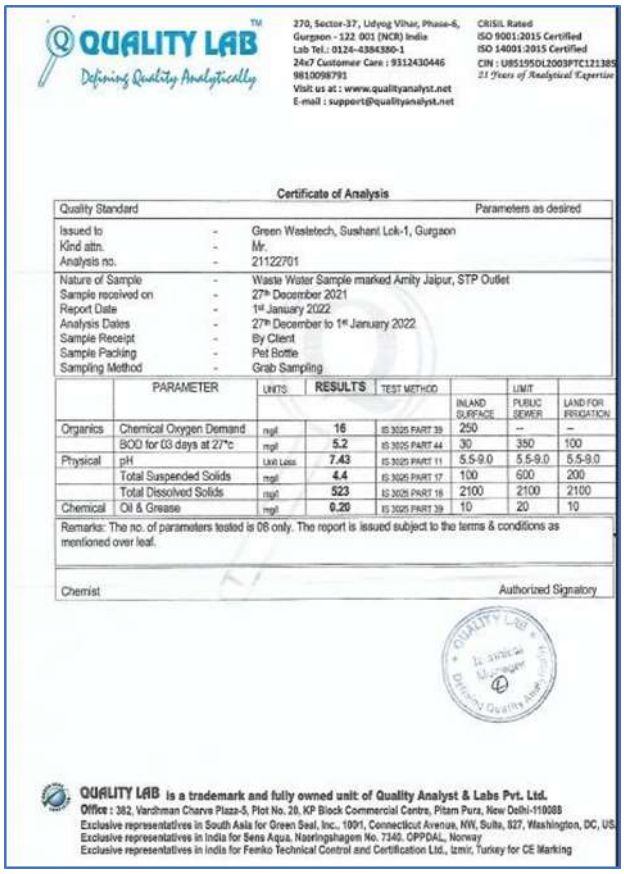

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Certificate of Analysis

Quality Standard — Parameters as desired

Issued to	-	Green Wastetech, Sushant Lok-1, Gurgaon
Kind attn.	-	Mr.
Analysis no.	-	21122701
Nature of Sample	-	Waste Water Sample marked Amity Jaipur, STP Outlet
Sample received on	-	27th December 2021
Report Date	-	1st January 2022
Analysis Dates	-	27th December to 1st January 2022
Sample Receipt	-	By Client
Sample Packing	-	Pet Bottle
Sampling Method	-	Grab Sampling

	PARAMETER	UNITS	RESULTS	TEST METHOD	LIMIT: INLAND SURFACE	LIMIT: PUBLIC SEWER	LIMIT: LAND FOR IRRIGATION
Organics	Chemical Oxygen Demand	mg/l	16	IS 3025 PART 39	250	--	--
	BOD for 03 days at 27°c	mg/l	5.2	IS 3025 PART 44	30	350	100
Physical	pH	Unit Less	7.43	IS 3025 PART 11	5.5-9.0	5.5-9.0	5.5-9.0
	Total Suspended Solids	mg/l	4.4	IS 3025 PART 17	100	600	200
	Total Dissolved Solids	mg/l	523	IS 3025 PART 16	2100	2100	2100
Chemical	Oil & Grease	mg/l	0.20	IS 3025 PART 39	10	20	10

Remarks: The no. of parameters tested is 06 only. The report is issued subject to the terms & conditions as mentioned over leaf.

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Water Testing Report

Sewage Treatment Plant (STP) at Amity University Rajasthan

Wastewater Recycling

- The wastewater generated in the campus is from sewage of labs, residential and canteen facilities, hostels and laundry. The above waste is treated through a Sewage Treatment Plant (STP) and Effluent Treatment Plant (ETP) of 7.5 lakh LPD available in the campus.
- Water after treatment, is sent to a treated water lake, from where it is used for horticulture through an auto irrigation system. Fountains in the lake ensure proper aeration and as the process of use is dynamic, stagnation does not occur negating bad odor.

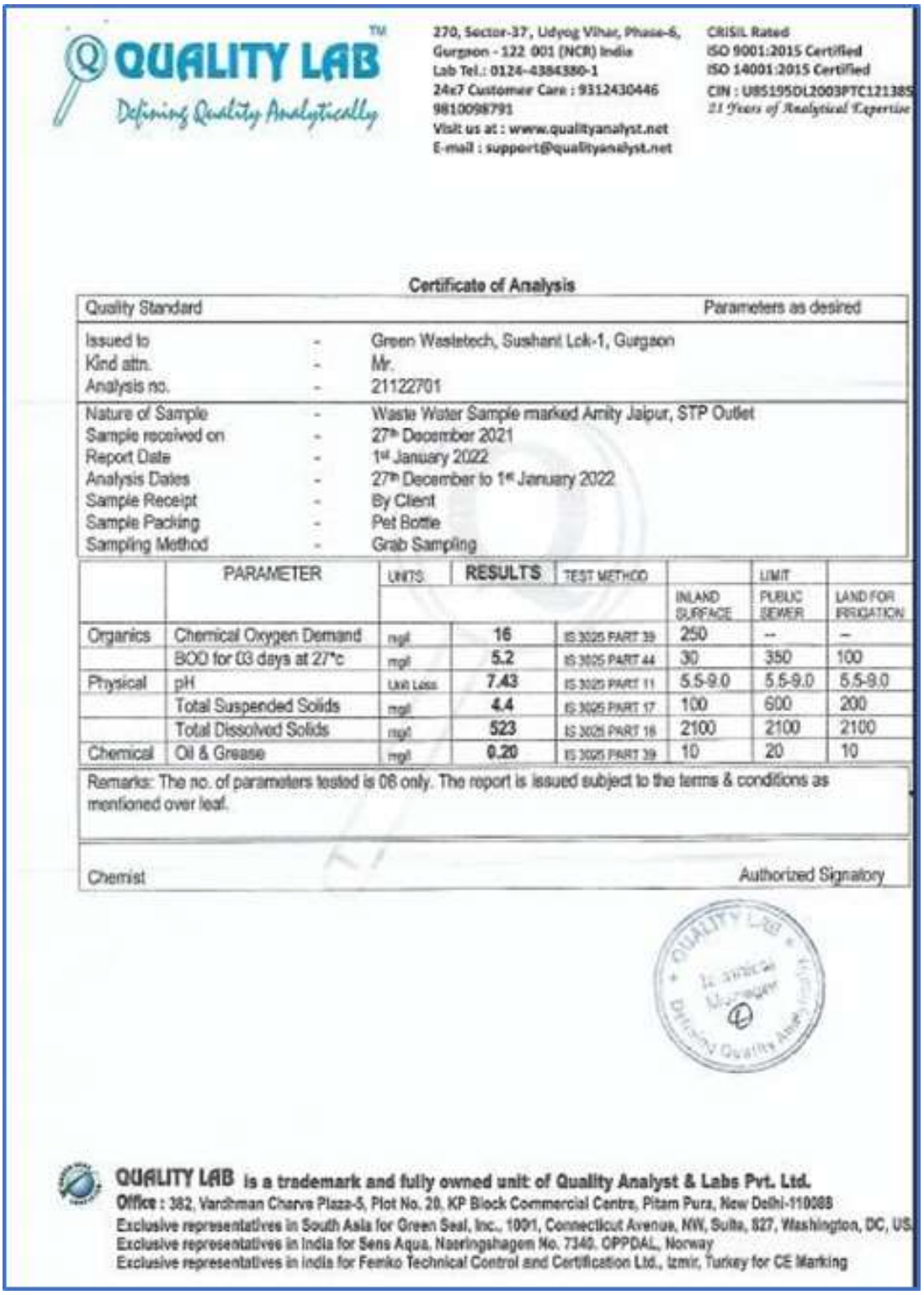
Fountain in the lake for manual aeration.

- Carp fish are there in the lake which prevent any algae blooms by consuming the same, thus keeping the lake Un-eutrophicated.
- Treated water is also used for the cooling tower of chiller plants and for the flush system of four hostels (Hostel-1, 2, 4 & 5).
- The sludge settled in STP is removed and is dried on drying beds and used as manure for the gardens. Therefore, the entire wastewater generated in the campus is treated and reused.
- An average data of treated water through STP and ETP from 2019 to 2021 is mentioned (*Table-04)*.

Efficient utilization of treated STP year wise

	Amity University STP & ETP 2019 to 2021											
	Treated Water Lake (Ltr.) Per Day Treated Water Chiller (Ltr.) Per Day Treated Water Flushing for Hostel (Ltr.) Per Day ETP Water for Lake (Ltr.) Per Day											
	2019				2020				2021			
	Lake	Chiller	Flushing	ETP to Lake	Lake	Chiller	Flushing	ETP to Lake	Lake	Chiller	Flushing	ETP to Lake
	572354	0	0	17064	395806	0	65225	10935	134193	0	14709	741
	587964	0	0	18428	374775	0	70285	11821	171071	0	12857	3750
	488967	0		17032	938580	0	33354	5032	295806	8612	29032	8709
	436200	39935		17066	620066		14833	933	22366	10133	45966	4700
	439129	54433	24033	13548	57612	0	12741	0	140645	0	18838	0
	240533	48935	50064	10400	121400	11400	14133	0	44333	0	18033	0
	299935	37900	39200	8967	63774	0	12516	0	128612	0	14419	0
	237033	33161	200129	10700	103322	3290	10838	1290	29354	0	14354	0
	339258	38433	154266	10193	37933	0	22900	1300	101000	0	2110	0
	194709	20129	119516	8870	140032	0	37580	1548	99258	8774	15290	8548
	106233	1700	134833	5161	139333	0	16233	3433	78333	0	22800	5733
	419677	0	80064	5548	135741	0	14709	1161				
Average	465141				292151				140451			

- Parameters of the treated water has been validated by third party external test periodically



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Test report of waste/treated water by external agency.

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Maintenance of water bodies and distribution system in the campus

- The University has five Academic Blocks, one Student Resource Centre, Five Hostel Blocks, Six faculty Blocks, One Staff Quarters Block.
- AUR has total 13 Nos. of borewell located at various locations.
- All borewells are fitted with water flow meters for measurements of daily water consumption. This helps in monitoring and control of water usage.
- Water from borewell first goes to underground tanks. From underground tanks, water is pumped to overhead tanks of academic/hostel blocks.
- Water coolers with aquaguards are fitted in all the hostels and academic blocks for drinking water.
- There are 50 overhead tanks (both RCC and Sintex) and 08 underground tanks.
- Overhead tanks supply water to all occupants of buildings. All the overhead tanks are fitted with water level indicator and alarming units for ease of information to the plumbers for switching On/off, thus avoiding spillage and wastage of water.
- There are total 10 plumbers of Amity University who will take care of the maintenance work.
- There is a complaint register for all the residents, they write their complaint in the register which will be rectified by these plumbers.

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Amity University Rajasthan. Borewell reading Logbook

Borewell No.	Jan-19			Feb-19			Mar-19			Apr-19			May-19			Jun-19		
	1st Reading	Last Reading	Balance	1st Reading	Last Reading	Balance	1st Reading	Last Reading	Balance	1st Reading	Last Reading	Balance	1st Reading	Last Reading	Balance	1st Reading	Last Reading	Balance
1	28893	32963	*4070*	32963	36913	*3950*	36913	40650	*3737*	40650	45033	*4383*	45033	49960	*4927*	49960	53092	*3132*
2													1200	2574	*1374*	2574	5727	*3153*
5	7700	8819	*1119*	8819	10188	*1369*	10188	12235	*2047*	12235	13925	*1690*	13925	15624	*1699*	15624	16102	*478*
7	2065	2731	*666*	2731	3412	*681*	3412	4218	*806*	4218	4819	*601*	4819	5498	*679*	5498	5763	*265*
9	12657	15263	*2606*	15263	17176	*1913*	17176	19078	*1902*	19078	21405	*2327*	21405	23960	*2555*	23960	24888	*928*
10	5072	6146	*1074*	6146	6522	*376*	6522	7609	*1087*	7609	8460	*851*	8460	9310	*850*	9310	10109	*799*
11	5275	6395	*1120*	6395	7221	*826*	7221	8227	*1006*	8227	9130	*903*	9130	10040	*910*	10040	10904	*864*
13	8673	9260	*587*	9260	10817	*1557*	10817	12316	*1499*	12316	13676	*1360*	13676	15255	*1579*	15255	16241	*986*
17	8815	10783	*1968*	10783	12417	*1634*	12417	13956	*1539*	13956	15370	*1414*	15370	17080	*1710*	17080	17669	*589*
18	17479	23158	*5679*	23158	26103	*2945*	26103	29195	*3092*	29195	31867	*2672*	31867	35007	*3140*	35007	36646	*1639*
19	19556	20724	*1168*	20724	23218	*2494*	23218	25774	*2556*	25774	27832	*2058*	27832	29467	*1635*	29467	30271	*804*
20	4745	4745	*0*	4745	4745	*0*	4745	4745	*0*	4745	4745	*0*	4745	7713	*2968*	7713	8312	*599*
Monthly usage in KL			*20057*			*17745*			*19271*			*18259*			*24026*			*14236*
daily usage In Litres			*647000*			*633750*			*621645*			*608633*			*775032*			*474533.3*

Amity University Rajasthan. Borewell reading Logbook

Borewell No.	Jul-19			Aug-19			Sep-19			Oct-19			Nov-19			Dec-19		
	1st Reading	Last Reading	Balance	1st Reading	Last Reading	Balance	1st Reading	Last Reading	Balance	1st Reading	Last Reading	Balance	1st Reading	Last Reading	Balance	1st Reading	Last Reading	Balance
1	53092	56698	*3606*	56698	60453	*3755*	60453	64593	*4140*	64593	68782	*4189*	68782	72368	*3586*	72368	75929	*3561*
2	5727	8086	*2359*	8086	10895	*2809*	10895	13658	*2763*	13658	16322	*2664*	16322	18814	*2492*	18814	21159	*2345*
5	16102	17459	*1357*	17459	19198	*1739*	19198	21286	*2088*	21286	23309	*2023*	23309	25656	*2347*	25656	27775	*2119*
7	5763	6031	*268*	6031	6554	*523*	6554	7211	*657*	7211	8198	*987*	8198	9172	*974*	9172	9702	*530*
9	24888	25388	*500*	25388	27284	*1896*	27284	29006	*1722*	29006	30198	*1192*	30198	31348	*1150*	31348	32406	*1058*
10	10109	10846	*737*	10846	11725	*879*	11725	12640	*915*	12640	13678	*1038*	13678	14605	*927*	14605	15435	*830*
11	10904	11822	*918*	11822	12746	*924*	12746	13595	*849*	13595	14416	*821*	14416	15287	*871*	15287	16115	*828*
13	16241	17276	*1035*	17276	18780	*1504*	18780	20256	*1476*	20256	20908	*652*	20908	22191	*1283*	22191	23583	*1392*
17	17669	18964	*1295*	18964	20566	*1602*	20566	21816	*1250*	21816	22763	*947*	22763	24395	*1632*	24395	25847	*1452*
18	36646	40016	*3370*	40016	43155	*3139*	43155	45857	*2702*	45857	46175	*318*	46175	47638	*1463*	47638	50688	*3050*
19	13236	14047	*811*	14047	15556	*1509*	15556	16896	*1340*	16896	18709	*1813*	18709	20571	*1862*	20571	21644	*1073*
20	8312	9165	*853*	9165	10208	*1043*	10208	11043	*835*	11043	11509	*466*	11509	12258	*749*	12258	12845	*587*
Monthly usage in KL			*17109*			*21322*			*20737*			*17110*			*19336*			*18825*
daily usage In Litres			*551903*			*687806*			*691233*			*551935*			*644533*			*607258.1*

Amity University Rajasthan. Borewell reading Logbook

Borewell No.	Jan-20			Feb-20			Mar-20			Apr-20			May-20			Jun-20		
	1st Reading	Last Reading	Balance	1st Reading	Last Reading	Balance	1st Reading	Last Reading	Balance	1st Reading	Last Reading	Balance	1st Reading	Last Reading	Balance	1st Reading	Last Reading	Balance
1	75929	79828	*3899*	79828	83427	*3599*	83427	86047	*2620*	86047	89274	*3227*	89274	90196	*922*	90196	92080	*1884*
2	21159	23398	*2239*	23398	25331	*1933*	25331	27034	*1703*	27034	30090	*3056*	30090	30747	*657*	30747	32306	*1559*
5	27775	29782	*2007*	29782	31156	*1374*	31156	32646	*1490*	32646	34553	*1907*	34553	35146	*593*	35146	36698	*1552*
7	9702	10325	*623*	10325	10728	*403*	10728	11042	*314*	11042	11444	*402*	11444	11612	*168*	11612	12064	*452*
9	32406	33184	*778*	33184	34451	*1267*	34451	35311	*860*	35311	35968	*657*	35968	36259	*291*	36259	37444	*1185*
10	15435	16194	*759*	16194	16859	*665*	16859	17443	*584*	17443	18107	*664*	18107	18271	*164*	18271	18732	*461*
11	16115	16966	*851*	16966	17735	*769*	17735	18382	*647*	18382	19334	*952*	19334	19521	*187*	19521	19799	*278*
13	23583	25074	*1491*	25074	26315	*1241*	26315	27402	*1087*	27402	28203	*801*	28203	28354	*151*	28354	28921	*567*
17	25847	26974	*1127*	26974	28263	*1289*	28263	28930	*667*	28930	29413	*483*	29413	29745	*332*	29745	30412	*667*
18	50688	53274	*2586*	53274	56290	*3016*	56290	57552	*1262*	57552	58435	*883*	58435	58896	*461*	58896	59602	*706*
19	21644	22812	*1168*	22812	23728	*916*	23728	24167	*439*	24167	24649	*482*	24649	24842	*193*	24842	25331	*489*
20	12845	13327	*482*	13327	13699	*372*	13699	14052	*353*	14052	14193	*141*	14193	14282	*89*	14282	14859	*577*
Monthly usage in KL			*18010*			*16844*			*12026*			*13655*			*4208*			*10377*
daily usage In Litres			*580968*			*580828*			*387935*			*455167*			*135742*			*345900*

Amity University Rajasthan. Borewell reading Logbook

Borewell No.	Jul-20			Aug-20			Sep-20			Oct-20			Nov-20			Dec-20		
	1st Reading	Last Reading	Balance	1st Reading	Last Reading	Balance	1st Reading	Last Reading	Balance	1st Reading	Last Reading	Balance	1st Reading	Last Reading	Balance	1st Reading	Last Reading	Balance
1	92080	94457	*2377*	94457	96028	*1571*	96028	99249	*3221*	99249	101462	*2213*	101462	103966	*2504*	103966	105734	*1768*
2	32306	33765	*1459*	33765	35134	*1369*	35134	36449	*1315*	36449	37510	*1061*	37510	38544	*1034*	38544	39360	*816*
5	36698	38077	*1379*	38077	39356	*1279*	39356	40822	*1466*	40822	42403	*1581*	42403	44157	*1754*	44157	45202	*1045*
7	12064	12551	*487*	12551	13035	*484*	13035	13473	*438*	13473	13982	*509*	13982	14374	*392*	14374	14666	*292*
9	37444	38528	*1084*	38528	39655	*1127*	39655	40712	*1057*	40712	41575	*863*	41575	42194	*619*	42194	42736	*542*
10	18732	19214	*482*	19214	19682	*468*	19682	20203	*521*	20203	20785	*582*	20785	21358	*573*	21358	21648	*290*
11	19799	20083	*284*	20083	20242	*159*	20242	20306	*64*	20306	20350	*44*	20350	20885	*535*	20885	21202	*317*
13	28921	29652	*731*	29652	30432	*780*	30432	31163	*731*	31163	31882	*719*	31882	32691	*809*	32691	33362	*671*
17	30412	31054	*642*	31054	31896	*842*	31896	32773	*877*	32773	33860	*1087*	33860	34550	*690*	34550	34986	*436*
18	59602	60411	*809*	60411	61648	*1237*	61648	62709	*1061*	62709	64121	*1412*	64121	65459	*1338*	65459	66580	*1121*
19	25331	25882	*551*	25882	26418	*536*	26418	26918	*500*	26918	27502	*584*	27502	28088	*586*	28088	28598	*510*
20	14859	15304	*445*	15304	15744	*440*	15744	16120	*376*	16120	16340	*220*	16340	16340	*0*	16340	16340	*0*
Monthly usage in KL			*10730*			*10292*			*11627*			*10875*			*10834*			*7808*
daily usage In Litres			*346129*			*332000*			*387567*			*350806*			*361133*			*251871*

Amity University Rajasthan. Borewell reading Logbook

Borewell No.	Jan-21			Feb-21			Mar-21			Apr-21			May-21			Jun-21		
	1st Reading	Last Reading	Balance	1st Reading	Last Reading	Balance	1st Reading	Last Reading	Balance	1st Reading	Last Reading	Balance	1st Reading	Last Reading	Balance	1st Reading	Last Reading	Balance
1	105734	107909	*2175*	107909	110064	*2155*	110064	112592	*2528*	112592	115764	*3172*	115764	119282	*3518*	119282	122302	*3020*
2	39360	40331	*971*	40331	41308	*977*	41308	42390	*1082*	42390	43457	*1067*	43457	44447	*990*	44447	45162	*715*
5	45202	46624	*1422*	46624	47889	*1265*	47889	49339	*1450*	49339	50667	*1328*	50667	52059	*1392*	52059	52655	*596*
7	14666	14915	*249*	14915	15132	*217*	15132	15710	*578*	15710	16244	*534*	16244	16735	*491*	16735	17151	*416*
9	42736	43389	*653*	43389	44057	*668*	44057	45821	*1764*	45821	47392	*1571*	47392	48103	*711*	48103	48705	*602*
10	21648	22175	*527*	22175	22544	*369*	22544	23021	*477*	23021	23428	*407*	23428	23719	*291*	23719	24044	*325*
11	21202	21823	*621*	21823	22445	*622*	22445	23241	*796*	23241	24059	*818*	24059	24942	*883*	24942	25646	*704*
13	33362	34209	*847*	34209	34912	*703*	34912	35535	*623*	35535	36063	*528*	36063	36436	*373*	36436	36734	*298*
17	34986	35439	*453*	35439	35934	*495*	35934	36977	*1043*	36977	37858	*881*	37858	38527	*669*	38527	38816	*289*
18	66580	67664	*1084*	67664	69007	*1343*	69007	71474	*2467*	71474	74028	*2554*	74028	75773	*1745*	75773	77075	*1302*
19	28598	29068	*470*	29068	29608	*540*	29608	30414	*806*	30414	31324	*910*	31324	32024	*700*	32024	32489	*465*
Monthly usage in KL			*9472*			*9354*			*13614*			*13770*			*11763*			*8732*
daily usage In Litres			*305548*			*334071*			*439161*			*459000*			*379452*			*291067*

Amity University Rajasthan. Borewell reading Logbook

Borewell No.	Jul-21			Aug-21			Sep-21			Oct-21			Nov-21			Dec-21		
	1st Reading	Last Reading	Balance	1st Reading	Last Reading	Balance	1st Reading	Last Reading	Balance	1st Reading	Last Reading	Balance	1st Reading	Last Reading	Balance	1st Reading	Last Reading	Balance
1	122302	125348	*3046*	125348	128258	*2910*	128258	131146	*2888*	131146	135047	*3901*	135047	138585	*3538*	138585	141758	*3173*
2	45162	46020	*858*	46020	46526	*506*	46526	46894	*368*	46894	47200	*306*	47200	47501	*301*	47501	47785	*284*
7	17151	17613	*462*	17613	18065	*452*	18065	18282	*217*	18282	18547	*265*	18547	18846	*299*	18846	19071	*225*
9	48705	49714	*1009*	49714	51323	*1609*	51323	52944	*1621*	52944	54956	*2012*	54956	57260	*2304*	57260	59108	*1848*
10	24044	24493	*449*	24493	24948	*455*	24948	25425	*477*	25425	25928	*503*	25928	26537	*609*	26537	26971	*434*
11	25646	26458	*812*	26458	27261	*803*	27261	27962	*701*	27962	28644	*682*	28644	29470	*826*	29470	30253	*783*
13	36734	37232	*498*	37232	37960	*728*	37960	38729	*769*	38729	39534	*805*	39534	40479	*945*	40479	40941	*462*
17	38816	39720	*904*	39720	41068	*1348*	41068	42405	*1337*	42405	43584	*1179*	43584	44809	*1225*	44809	45999	*1190*
18	77075	79013	*1938*	17153	19322	*2169*	19322	20699	*1377*	20699	22039	*1340*	22039	25474	*3435*	25474	29080	*3606*
19	32489	33079	*590*	33079	33778	*699*	33778	34515	*737*	34515	35275	*760*	35275	36009	*734*	36009	36661	*652*
Monthly usage in KL			*10566*			*11679*			*10492*			*11753*			*14216*			*12657*
daily usage In Litres			*340839*			*376742*			*349733*			*379129*			*473867*			*408290*

Borewell reading record from 2019 to 2021

AMITY UNIVERSITY
RAJASTHAN

Amity University Rajasthan (established in 2007) is utilizing underground water for drinking/domestic consumption and irrigation to its green belt, also harvesting rainwater to replenish its borewells at various locations. University strongly believes in environment consciousness and focusses on reutilization of water, established state of art on campus treatment plant to purify used water and produce quality water for irrigation and developed robust infrastructure to maintain waterlines.

The water management of the University is well supported by State Pollution Control Board.

Document in support of Preventing Water System Pollution from

Rajasthan State Pollution Control Board.

Head Office (MUID)

Rajasthan State Pollution Control Board

4, Institutional Area, Jhalana Doongari, Jaipur-302 004

Phone: 0141-5159600,5159695 Fax: 0141-5159697

Registered

File No : F(MUID)/Jaipur(Amber)/17(1)/2015-2016/1394-1396

Order No : 2019-2020/MUID/5204 **Dispatch Date:** 08/07/2019

Unit Id : 56628

M/s Ritnand Balved Education Foundation

E-27, Defence Colony, New Delhi-110024. ,

Sub: **Consent to Establish** under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21(4) of Air (Prevention & Control of Pollution) Act, 1981.

Ref: Your application(s) for Consent to Establish dated 19/02/2016 and subsequent correspondence.

Sir,

Consent to Establish under the provisions of section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 (hereinafter to be referred as the Water Act) and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981, (hereinafter to be referred as the Air Act) as amended to date and rules & the orders issued thereunder **,is hereby granted** for your **Amity University plant** situated / proposed at **Plot No SP- 1, Kant Kalwad, RIICO Industrial Area, Jaipur Tehsil:Amber District:JAIPUR** , Rajasthan under the provisions of the said Act(s). This consent is granted on the basis of examination of the information furnished by you in consent application(s) and the documents submitted therewith, subject to the following conditions:-

1 That this Consent to Establish is valid for a period from **19/02/2016** to **31/01/2021 or date of Commencement of production / commissioning of the project or activities whichever is earlier .**

2 That this Consent is granted for manufacturing / producing following products / by products or carrying out the following activities or operation/processes or providing following services with capacities given below.

Particular	Type	Quantity / Capacity
GROSS BUILT UP AREA	Activity	144,075.99 SQ. METER
PLOT AREA	Activity	615,117.40 SQ. METER

3 That in case of any increase in capacity or addition / modification / alteration or change in product mix or process or raw material or fuel the project proponent is required to obtain fresh consent to establish.

Head Office (MUID)

Rajasthan State Pollution Control Board

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File No : F(MUID)/Jaipur(Amber)/17(1)/2015-2016/1394-1396

Order No : 2019-2020/MUID/5204 **Dispatch Date:** 08/07/2019

Unit Id : 56628

4 That the control equipment as proposed by the applicant shall be installed before trial operation is started for which prior consent to operate under the provision of the **Water Act and Air Act** shall be obtained. This consent to establish shall not be treated as consent to operate.

5 That the quantity of effluent generation and disposal along with mode of disposal for the treated effluent shall be as under:

Type of effluent	Max. effluent generation (KLD)	Quantity of effluent to be recycled (KLD)	Quantity of treated effluent to be disposed (KLD) and mode of disposal
Domestic Sewage	675.000	615.000	60.000 Sludge & Evaporation Loss

6 That the sources of air emmissions along with pollution control measures and the emission standards for the prescribed parameters shall be as under:

Head Office (MUID)

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File No : F(MUID)/Jaipur(Amber)/17(1)/2015-2016/1394-1396

Order No : 2019-2020/MUID/5204 **Dispatch Date:** 08/07/2019

Unit Id : 56628

Sources of Air Emmissions	Pollution Control Measures	Prescribed	
		Parameter	Standard
DG Set (1 Nos.)(320KVA)	ACOUSTIC ENCLOSURE , WITH ADEQUATE STACK HEIGHT	--	--
DG Set (4 Nos.)(600KVA)	ACOUSTIC ENCLOSURE , WITH ADEQUATE STACK HEIGHT	--	--
DG Set(1 Nos.)(400KVA)	ACOUSTIC ENCLOSURE , WITH ADEQUATE STACK HEIGHT	--	--
DG Set(1 Nos.)(82.5KVA)	ACOUSTIC ENCLOSURE , WITH ADEQUATE STACK HEIGHT	--	--
DG Set(2 Nos.)(750KVA)	ACOUSTIC ENCLOSURE , WITH ADEQUATE STACK HEIGHT	--	--

7 That the **Amity University plant** will comply with the standards as prescribed vide MOEF notification No. GSR 826(E) dated 16th November, 2009 with respect to National Ambient Air Quality Standards.

Head Office (MUID)

Rajasthan State Pollution Control Board

4, Institutional Area, Jhalana Doongari, Jaipur-302 004

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File No : F(MUID)/Jaipur(Amber)/17(1)/2015-2016/1394-1396

Order No : 2019-2020/MUID/5204 **Dispatch Date:** 08/07/2019

Unit Id : 56628

8 That the domestic sewage shall be treated before disposal so as to conform to the standards prescribed by the Board as notified under the Environment (Protection) Act-1986 for disposal **Into Inland Surface Water**. The main parameters for regular monitoring shall be as under.

Parameters	Standards
Total Suspended Solids	Not to exceed 100 mg/l
pH Value	Between 5.5 to 9.0
Oil and Grease	Not to exceed 10 mg/l
Biochemical Oxygen Demand (3 days at 27°C)	Not to exceed 30 mg/l
Chemical Oxygen Demand	Not to exceed 250 mg/l

9 **That the unit shall obtain all necessary permission from concern authority & district administration, Jaipur related to establish of this institute.**

10 **That the unit shall not abstract ground water without prior permission of CGWA.**

11 **That the industry shall comply with all the guidelines issued from CGWA for ground water abstraction.**

12 **That the industry shall comply with the standards as prescribed vide MOEF notification no. GSR 826(E) dated 16th November, 2009 with respect to National Ambient Air Quality.**

13 **That the P.P. shall install and commission the STP of 750 KLD and ETP of 50 KLD to treat the waste water (675 KLD) generated from all the utilities.**

14 **That the total water consumption for the complete project shall not exceed-1309 KLD (Fresh-694 KLD+ recycled-615 KLD), after full occupancy.**

15 **That the water flow meters shall be provided at all suitable points to measure quantity of daily water consumption, waste water generation, waste water treated and treated waste water recycled and utilized for plantation/gardening purposes. Daily record of the same shall be maintained and to be submitted to the Board.**

16 **That the entire treated sewage shall be utilized within the premises for flushing,landscaping & general washing etc and Zero discharge status shall be maintained outside the premises.**

17 **That the unit shall dispose the sludge of STP in scientific manner.**

Head Office (MUID)

Rajasthan State Pollution Control Board

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Registered

File No : F(MUID)/Jaipur(Amber)/17(1)/2015-2016/1394-1396

Order No : 2019-2020/MUID/5204 Dispatch Date: 08/07/2019

Unit Id : 56628

18 That the unit shall ensure compliance of ambient air quality standard in respect of noise as prescribed under Environment (Protection) Act & Rules made therein.

19 That this consent to establish is being issued for Proposed project- "Amity University" with plot Area – 615117.40 Sq.meter and Gross Built-up Area – 144075.99 Sq.meter only. For any change in capacity of the services & area, the unit has to seek fresh consent to establish.

20 That the treated sewage (615 KLD) shall be recycled within premises for flushing-150 KLD, Landscaping & General Washing-335 KLD and cooling tower-130 KLD within the premises.

21 That the unit shall maintain adequate height of stack (minimum 30 meters with each)along with acoustic enclosures on one D.G.Set of 320 KVA, one D.G. set of 400 KVA, four D.G. sets of 600 KVA, two D.G. sets of 750 KVA & one D.G. set of 82.5 KVA.

22 That unit shall not allow to install any other air pollution source i.e. Boiler/Hot Water generator etc without prior consent to establish from the Board under the Air Act 1981.

23 That unit shall not discharge treated waste water to any natural water flow to any water body and completely utilize within the project.

24 That the P.P. shall ensure proper reuse of domestic waste water after adequate treatment.

25 That the project cost shall not exceed to Rs. 277.76 Crores. In case of any change in project cost, the project proponent shall have to deposit additional consent fee as per applicable fee notification.

26 That the unit shall not allow making any obstacles to any natural water flow i.e. natural nallah/stream carrying rain water to any water body.

27 That the unit shall install adequately designed rain water harvesting structure for prevention and recharge of ground water in and around the area.

28 That the solid waste generated should be properly collected & segregated. Wet garbage should be composted and dry/inert solid waste should be disposed off to approved sites for land filling after recovering recyclable material.

29 That energy conservation measures like installation of CFLs/FLs for lighting the areas outside the project should be integral part of the project design and should be in place before project commissioning.

30 That used CFLs/FLs should be properly collected and disposed off/sent for re-cycling as per the prevailing rules/guidelines issued by the regulatory authority. Use of solar panels also may be done to the extent possible.

31 That adequate measures should be taken to prevent odour problem from STP.

32 That this consent to establish shall be subject to compliance of any direction or order passed by Court of Law in the matter.

Head Office (MUID)

Rajasthan State Pollution Control Board

4, Institutional Area, Jhalana Doongari, Jaipur-302 004

Phone: 0141-5159600,5159695 Fax: 0141-5159697

Registered

File No : F(MUID)/Jaipur(Amber)/17(1)/2015-2016/1394-1396

Order No : 2019-2020/MUID/5204 **Dispatch Date:** 08/07/2019

Unit Id : 56628

33 **That the P.P. shall provide and maintain the Oil & Grease trap in good condition, so that oil & grease coming with waste water from kitchen/laundry will retained in the trap.**

34 **That the PP shall submit yearly Environmental Audit Statement on or before September of every year.**

35 **The industry shall not use pet coke and F.O. or any other such fuel which is banned by Hon'ble Supreme Court of India or any other Court of Law or Government of Rajasthan.**

36 That, not withstanding anything provided hereinabove, the State Board shall have power and reserves its right, as contained **under section 27(2) of the Water Act and under section 21(6) of the Air Act** to review anyone or all the conditions imposed here in above and to make such variation as it deemed fit for the purpose of compliance of the **Water Act and Air Act**.

37 That the grant of this **Consent to Establish** is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the industry/ unit/ project proponent.

38 That the grant of this **Consent to Establish** shall not, in any way, adversely affect or jeopardize the legal proceedings, if any, instituted in the past or that could be instituted against you by the State Board for violation of the provisions of the Act or the Rules made thereunder.

This **Consent to Establish** shall also be subject, beside the aforesaid specific conditions, to the general conditions given in the enclosed Annexure. The project proponent will comply with the provisions of the **Water Act and Air Act** and to such other conditions as may, from time to time, be specified by the State Board under the provisions of the aforesaid Act(s). Please note that, non compliance of any of the above stated conditions would tantamount to revocation of **Consent to Establish** and project proponent / occupier shall be liable for legal action under the the relevant provisions of the said Act(s).

Sub: (B) Issuance of Consent to Operate(CTO) from Rajasthan State Pollution Control Board, 4 Institutional Area, Jhalana Doongari, Jaipur-302 004

1. We had also applied online for obtaining Consent to Operate (CTO) to Rajasthan State Pollution Control Board (RSPCB) Jaipur on 13/03/2018 under section 25/26 of the water (Prevention & Control of Pollution) Act, 1974 and under section 21(4) of Air (Prevention & Control of Pollution) Act, 1981,

2. We are in receipt of the sanction to the issue of Consent to Operate (CTO) from Rajasthan State Pollution Control Board 4 Institutional Area, Jhalana Doongari, Jaipur vide their letter order No. 2019-2020/MUID/5203 dated.08.07.2019 (copy enclosed for your reference)

Head Office (MUID)

Rajasthan State Pollution Control Board

4, Institutional Area, Jhalana Doongari, Jaipur-302 004

Phone: 0141-5159600,5159695 Fax: 0141-5159697

Registered

File No : F(MUID)/Jaipur(Amber)/17(1)/2015-2016/1391-1393

Order No : 2019-2020/MUID/5203 **Date:** 08/07/2019

Unit Id : 56628

M/s Ritnand Balved Education Foundation

E-27, Defence Colony, New Delhi-110024. ,

Sub: **Consent to Operate** under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21(4) of Air (Prevention & Control of Pollution) Act, 1981.

Ref: Your application for Consent to Operate dated 13/03/2018 and subsequent correspondence.

Sir,

Consent to Operate under the provisions of section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 (hereinafter to be referred as the Water Act) and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981, (hereinafter to be referred as the Air Act) as amended to date and rules & the orders issued thereunder **is hereby granted** for your **Amity University plant** situated at **Plot No SP- 1, Kant Kalwad, RIICO Industrial Area, Jaipur Tehsil:Amber District:JAIPUR** , Rajasthan, subject to the following conditions:-

1 That this Consent to Operate is valid for a period from **13/03/2018** to **29/02/2028** .

2 That this Consent is granted for manufacturing / producing following products / by products or carrying out the following activities or operation/processes or providing following services with capacities given below.

Particular	Type	Quantity with Unit
GROSS BUILT UP AREA	Activity	144,075.99 SQ. METER
PLOT AREA	Activity	615,117.40 SQ. METER

3 That this consent to operate is for existing plant, process & capacity and separate consent to establish/operate is required to be taken for any addition / modification / alteration in process or change in capacity or change in fuel.

4 That the quantity of effluent generation along with mode of disposal for the treated effluent shall be as under:

Head Office (MUID)

Rajasthan State Pollution Control Board

4, Institutional Area, Jhalana Doongari, Jaipur-302 004

Phone: 0141-5159600,5159695 Fax: 0141-5159697

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File No : F(MUID)/Jaipur(Amber)/17(1)/2015-2016/1391-1393

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Unit Id : 56628

Type of effluent	Max. effluent generation (KLD)	Recycled Qty of Effluent (KLD)	Disposed Qty of effluent (KLD)and mode of disposal
Domestic Sewage	675.000	615.000	60.000 Sludge & Evaporation Loss

5 That the sources of air emmissions along with pollution control measures and the emission standards for the prescribed parameters shall be as under:

Sources of Air Emmissions	Pollution Control Measures	Prescribed	
		Parameter	Standard
DG Set (1 Nos.)(320KVA)	ACOUSTIC ENCLOSURE , WITH ADEQUATE STACK HEIGHT	--	--
DG Set (1 Nos.)(400KVA)	ACOUSTIC ENCLOSURE , WITH ADEQUATE STACK HEIGHT	--	--
DG Set (1 Nos.)(82.5KVA)	ACOUSTIC ENCLOSURE , WITH ADEQUATE STACK HEIGHT	--	--
DG Set (2 Nos.)(750KVA)	ACOUSTIC ENCLOSURE , WITH ADEQUATE STACK HEIGHT	--	--
DG Set (4 Nos.)(600KVA)	ACOUSTIC ENCLOSURE , WITH ADEQUATE STACK HEIGHT	--	--

Signature Not Verified
Digitally signed by Mahavir Mehta
Date: 2019.07.08 12:45:38 IST
Reason: SelfAttested
Location:

Head Office (MUID)

Rajasthan State Pollution Control Board

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6 That the domestic sewage shall be treated before disposal so as to conform to the standards prescribed under the Environvent (Protection) Act-1986for disposal **Into Inland Surface Water**. The main parameters for regular monitoring shall be as under.

Parameters	Standards
Total Suspended Solids	Not to exceed 100 mg/l
pH Value	Between 5.5 to 9.0
Oil and Grease	Not to exceed 10 mg/l
Biochemical Oxygen Demand (3 days at 27°C)	Not to exceed 30 mg/l
Chemical Oxygen Demand	Not to exceed 250 mg/l

7 **That the unit shall obtain all necessary permission from concern authority & district administration, Jaipur related to Operation of this institute.**

8 **That the unit shall not abstract ground water more than 694 KLD without prior permission of CGWA.**

9 **That the industry shall comply with all the guidelines issued from CGWA for ground water abstraction.**

10 **That the industry shall comply with the standards as prescribed vide MOEF notification no. GSR 826(E) dated 16th November, 2009 with respect to National Ambient Air Quality.**

11 **That the P.P. shall install and commission the STP of 750 KLD and ETP of 50 KLD to treat the waste water (675 KLD) generated from all the utilities.**

12 **That the total water consumption for the complete project shall not exceed-1309 KLD (Fresh-694 KLD+ recycled-615 KLD), after full occupancy.**

13 **That the water flow meters shall be provided at all suitable points to measure quantity of daily water consumption, waste water generation, waste water treated and treated waste water recycled and utilized for plantation/gardening purposes. Daily record of the same shall be maintained and to be submitted to the Board.**

14 **That the entire treated sewage shall be utilized within the premises for flushing,landscaping & general washing etc and Zero discharge status shall be maintained outside the premises.**

15 **That the unit shall dispose the sludge of STP in scientific manner.**

16 **That the unit shall ensure compliance of ambient air quality standard in respect of noise as prescribed under Environment (Protection) Act & Rules made therein.**

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17 That this consent to operate is being issued for Proposed project- "Amity University" with plot Area – 615117.40 Sq.meter and Gross Built-up Area – 144075.99 Sq.meter only. For any change in capacity of the services & area, the unit has to seek fresh consent to establish.

18 That the treated sewage (615 KLD) shall be recycled within premises for flushing 150 KLD, Landscaping & General Washing-335 KLD and cooling tower-130 KLD within the premises.

19 That the unit shall maintain adequate height of stack (minimum 30 meters with each)along with acoustic enclosures on one D.G.Set of 320 KVA, one D.G. set of 400 KVA, four D.G. sets of 600 KVA, two D.G. sets of 750 KVA & one D.G. set of 82.5 KVA.

20 That unit shall not allow to install any other air pollution source i.e. Boiler/Hot Water generator etc without prior consent to establish from the Board under the Air Act 1981.

21 That unit shall not discharge treated waste water to any natural water flow to any water body and completely utilize within the project.

22 That the P.P. shall ensure proper reuse of domestic waste water after adequate treatment.

23 That the project cost shall not exceed to Rs. 277.76 Crores. In case of any change in project cost, the project proponent shall have to deposit additional consent fee as per applicable fee notification.

24 That the unit shall not allow making any obstacles to any natural water flow i.e. natural nallah/stream carrying rain water to any water body.

25 That the unit shall install adequately designed rain water harvesting structure for prevention and recharge of ground water in and around the area.

26 That the solid waste generated should be properly collected & segregated. Wet garbage should be composted and dry/inert solid waste should be disposed off to approved sites for land filling after recovering recyclable material.

27 That energy conservation measures like installation of CFLs/FLs for lighting the areas outside the project should be integral part of the project design and should be in place before project commissioning.

28 That used CFLs/FLs should be properly collected and disposed off/sent for re-cycling as per the prevailing rules/guidelines issued by the regulatory authority. Use of solar panels also may be done to the extent possible.

29 That adequate measures should be taken to prevent odour problem from STP.

30 That this consent to Operate shall be subject to compliance of any direction or order passed by Court of Law in the matter.

Head Office (MUID)

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31 **That the P.P. shall provide and maintain the Oil & Grease trap in good condition, so that oil & grease coming with waste water from kitchen/laundry will retained in the trap.**

32 **That the PP shall submit yearly Environmental Audit Statement on or before September of every year.**

33 **The industry shall not use pet coke and F.O. or any other such fuel which is banned by Hon'ble Supreme Court of India or any other Court of Law or Government of Rajasthan.**

34 That, not withstanding anything provided hereinabove, the State Board shall have power and reserves its right, as contained **under section 27(2) of the Water Act and under section 21(6) of the Air Act** to review anyone or all the conditions imposed here in above and to make such variation as it deemed fit for the purpose of **Air Act & Water Act**.

35 That the grant of this **Consent to Operate** is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility to comply with the conditions laid down in all other laws for the time-being in force, rests with the industry/ unit/ project proponent.

36 That the grant of this **Consent to Operate** shall not, in any way, adversely affect or jeopardize the legal proceeding, if any, instituted in the past or that could be instituted againt you by the State Board for violation of the provisions of the Act or the Rules made thereunder.

This **Consent to Operate** shall also be subject, besides the aforesaid specific conditions, to the general conditions given in the enclosed Annexure. The project proponent will comply with the provisions of the **Water Act and Air Act** and to such other conditions as may, from time to time , be specified, by the State Board under the provisions of the aforesaid Act(s). Please note that, non compliance of any of the above stated conditions would tantamount to revocation of **Consent to Operate** and project proponent / occupier shall be liable for legal action under the relevant provisions of the said Act(s).

This bears the approval of the competent authority.

Yours Sincerely

Group Incharge[MUID]

Head Office (MUID)

Rajasthan State Pollution Control Board

4, Institutional Area, Jhalana Doongari, Jaipur-302 004

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Order No : 2019-2020/MUID/5203 **Date:** 08/07/2019

Unit Id : 56628

Copy To:-

1 Regional Officer, Regional Office, Rajasthan State Pollution Control Board,,Jaipur (N) with requested to inspect the institute and verify the compliance of CTO and forward the detailed inspection report to HO for further action within 6 months

2 Master File.

Group Incharge[MUID]

AMITY UNIVERSITY
RAJASTHAN

Amity University Rajasthan is providing purified drinking water to all the Students, Staff and Visitors. **Water Purifying System** with **zero wastage** of water are installed in all of the academic and residential buildings including Hostels. University has also appointed dedicated staff to monitor water quality and maintenance of machineries, also cross checking its quality by NABL accredited laboratories.

AMITY UNIVERSITY
RAJASTHAN

The University is ever proactive in its responsibility towards environmental awareness. It has been aggressively involved in:- Use of renewable energy & energy conservation Water harvesting - Artificial lake Ground water recharge pits Green Belt Development - Neem Forest, Bamboo cultivation trial Conservation of Campus Flora Sewerage Treatment Plant Lush green lawns. Waste management

All the buildings at Amity University Rajasthan are installed with Wireless Water Level Controller to minimize any wastage of water from the Water Tanks. Borewell recharge Pit is in place to collect Rainwater from low lying areas.

Purpose of Borewell Recharge Pit

- Divert rainwater from low lying areas to prevent flooding
- Provide a passage for rainwater from terraces of buildings and other structures
- Channelise the water to a borewell through proper filtering, thus harvesting for future use
- Recharge of dry borewells to prevent digging of new ones
- Conservation of water through eco friendly means
- Ensures proper utilisation of rainwater which otherwise could stagnate and fester mosquitoes / harmful bacteria

Rainwater flows in recharge pit

The rainwater from low lying areas and terraces diverted to the recharge pit.

AMITY UNIVERSITY
RAJASTHAN

Amity University Rajasthan strongly believe in environment consciousness, as we are located in semi-arid part of Indian Thar Desert we have given priority to the xerophytic "Draught Tolerant Plants" while planning green belt. University has well protected these resident plants and added similar quality plants annually to strengthen green campus.

The University has created a beautiful lake using the water harvesting technology. The rain-fed lake is surrounded by trees on one side and has a walking track on the other side. It has multiple fountains that are run in the evening during the summers to aerate the lake water.
There is a huge Neem Forest with walking tracks besides the lake. Most of the plantation within the campus is done keeping in mind the Water Conscious characteristics of the plants. The Watering for the plants are generally done in the evening through water sprinklers using the treated water of the lake.

Water Conscious Planting. (Kiker -Acacia sp., Kejri - Prosopis sp. Kadam – Mitragyna sp, Khajur –

Phoenix sp., Neem – Azardiricta sp. Amaltash – Casia sp. Kachnar – Bohenia Sp. Gulmohar – Delonix sp. etc)

AMITY UNIVERSITY
RAJASTHAN

Kant Kalwar,
Jaipur - Delhi NH 11- C
JAIPUR (Raj.) – 303 002
Tel. : 01426 - 405678
Fax : 01426 - 405679

Water is supplied in AUR through bore wells. All the utilized water is recycled though STP and ETP. Major usage of recycled water is in irrigation of grass/plants through an artificial lake. Other usage of recycled water includes toilet flushing of Hostel buildings and Chiller plant.

Details of last 6 months is as follows: -

Usage of Recycled Water in KL					
Month	**Lake for irrigation usage**	**Hostel Toilet Flushing**	**Chiller Condensor**	**ETP water for irrigation**	**Total recycled water usage**
May' 2022	9270	2582	1660	674	**14186**
Jun' 2022	9194	982	0	106	**10282**
Jul' 2022	8954	644	677	214	**10489**
Aug' 2022	11130	1367	1165	411	**14073**
Sep' 2022	12550	2950	1213	707	**17420**
Oct' 2022	11056	2350	334	519	**14259**

UNIVERSITY RAJASTHAN ★ Administration

Director Administration

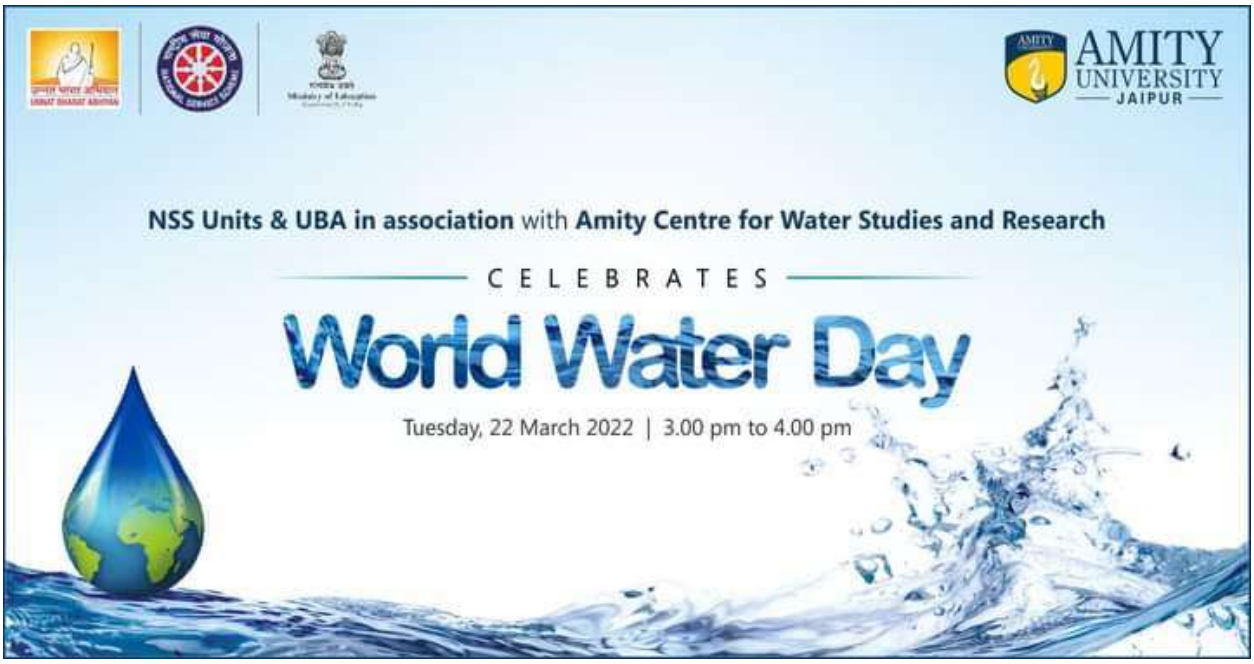
10/11

AMITY UNIVERSITY
RAJASTHAN

The Amity Centre for Water Studies and Research has been established with a vision to provide excellence in teaching, research and consultancy in water and water related issues. The centre envisages offering solutions to all water related problems as a consultant organization and to produce highly trained and skilled graduates to deal with the water related issues in a multidisciplinary approach involving a converging approach of science technology and engineering to address local regional, national and global problems related to water availability and sustainable development.

These include among others, new areas of water toxicity due to nanomaterials and other engineered toxic substances Issues arising out from the global warming and climate changes and their intricate relationships with water.

This is the only a dedicated Centre in the western region which envisages on research, teaching and outreach activities in Water sector to address the exclusive challenges being faced by arid to semiarid region.



World Water Day was celebrated to create awareness among the communities on Water Management.

AMITY UNIVERSITY
RAJASTHAN

World Water Day Celebration-2022

22 March 2022

NSS Units and UBA Cell in association with Amity Centre for Water Studies celebrated World Water Day on 22 March 2022 via hybrid mode. Prof Shruti Mathur, AIB, AUR and Coordinator Amity Centre for Water studies and Research delivered a lecture and her talk focused on the how groundwater resources are created by the process of rainfall and percolation of water through the soil highlighting the importance of maintenance of soil structure for proper percolation and retention of rainwater.

After the talk, participants presented posters and slogans followed by quiz competition on water day. The event was attended by more than fifty students from Amity and other universities, some villagers from adopted villages and NSS officers such as Dr. Kaushal Kishore Sharma, Mr. Vinod Sharma, Mr. Rituraj Taye and Ms. Ishani Gogoi. Dr. Manoj Kumar, Coordinator NSS & UBA thanked the speaker and the participants for their active participation in the event.

List of Attendees

S.No. Name Enrolment Number

1 Seema Ratnu A21957420003

2 Shaina A20349321031

3 Srashta Garg A21006920019

4 Meghna Nair A210118721019

5 Tannu Shekhawat A21957420011

6 Urvashi Yadav A21957421006

7 Vijay Gaur A20001921015

8 Virginia Merlyn Scott A21006921003

9 Vishakha Kaushik A21521520012

10 Ashley Zothansangi Sailo A210118721006

11 Lalani Vipasha A210118721013

12 Raj sahu A21806221001

13 Siddhika Gupta A21806221004

14 Mahima Sharma A20001921025

15 Bhagyashree Jhanwar A20001921039

16 UTKARSH DUBEY A20001921036

17 Khushi Jangid A21806121006

18 Jeet Kumar Singh A20405221137

19 Jyoti yadav A20001921038

20 SHIV NARAYAN MITTAL A20001921017

AMITY UNIVERSITY
RAJASTHAN

Amity University Rajasthan is located on foothills of Aravalli Range and comes under semi-arid zone of Indian Thar dessert, so justifiable water use is already in our Strategic plan and since inception we have incorporated the same in our buildings and practices.

We have identified underground on campus water pockets and begin its recharge mechanism by using rainwater simultaneously focusing on smart harvesting for domestic use.

As we are environment conscious, ensured reuse of recycled water instead of keeping dependency on underground water only.

We have aligned our policies and practices with the regional needs, complying with the State and Central Government's policies on conservation of water security.

Some of the major initiatives are listed below…

- Borewell Recharge Pits
- Rainwater Harvesting
- Artificial lake pumping recycled water
- Sewage treatment Plant
- Use of treated water in Hostel Toilets and Irrigation purposes
- Water sprinklers for landscaping
- Water conscious plantings

Mapping of Water Conservation Practices in Amity University Rajasthan

Lake

Sprinker for Irrigation

Cooling Ducts

AUR campus has an in house sewage treatment plant. (STP). Water treated in the STP is used for coolong ducts, irrigating the campus greens and collection in the lake.

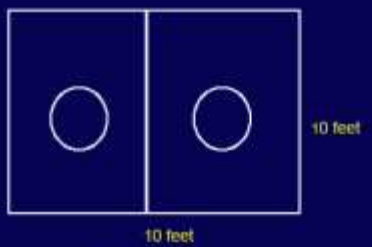
Surface Drain Pipe (Top View)
Roof Top Drain Pipe (inset)

Water Collection Pit

Surface Drain Pipe (Side View)

Borewell

On the rooftop of every building there are roof drains for removing water from roof surface (inset).The water from these roof drains and from surface drain pipes all across the campus is taken to rainwater collection pit and from there it gets transferred to water harvesting pit.Approximately 22 lac litres of water has been collected in the last one year of rainfall and recharged into the groundwater.



Top View

Water Collection Pit

Side View

Guidance

Prof.(Dr.) Shruti Mathur , AIB and Coordinator, Amity Centre for Water Studies and Research

Dr Pankaj Sharma, ASET and Co-coordinator, Amity Centre for Water Studies and Research

Prepared By

Mr Pankaj Giri Goswami
B.Tech Biotech (2020-24)

Ackowledgements

Gp.Capt. (Retd.) Ajoy Mudaliar
Director (Admin)

Mr. Sudarshan Chauhan
Asst. Manager (Admin)

Mr Sanjit Singh
ASCO(Photography)

Amity School of Architecture & Planning, Amity University Rajasthan, visited the temple town of Pushkar on 06.07.2022. The aim of the visit was to study the historical and heritage context of Pushkar with a focus on understanding the various layers of the city and its issues. The architecture students of Amity University Rajasthan explored, documented, analyzed, understand, hold discussions with various local stakeholders and synthesize and propose an architectural intervention relevant to Pushkar and its issues. Thus, taking Pushkar as a Living Lab, an open source of endless learning for the students of architecture.

In the recent visit the faculty and director Prof. Tanaya Verma visited the ghats and the precinct. They also had discussions with Chairman Kamal Pathak, (Adhyaksh) Pushkar Nagar Palika, who shared about the challenges and issues faced by the governing body.

Assistant Engineer, Shri Vishnu Adania, Pushkar Nagar Palika highlighted the various challenges of the prevailing old sewerage treatment system which is stressed due to increase in the tourist population. He also discussed about the stagnant and deteriorate lake water. The water in the Pushkar sarowar is collected due to natural slop from the runoff the adjoining areas. The water is aerated by way of aeration fountains but this not enough for improving the water quality of the lake. The PH values of the water is not suitable for bathing or consumption. The issue of water and its conservation and treatment is taken up by the students in the vertical studio which aims to create a shared experience for the students of Bachelor of Architecture and Bachelor of Interior Design at different levels within the given curriculum during the Odd Semester of the Academic Year 2022- 2023.

Conservation of Lake

Pushkar Lake is surrounded by 52 bathing ghats (a series of steps leading to the lake), where pilgrims throng in large numbers to take a sacred bath, especially around Kartik Poornima (October–November) when the Pushkar Fair is held. A dip in the sacred lake is believed to cleanse sins and cure skin diseases. Over 500 Hindu temples are situated around the lake precincts.

The lake is in semi circular shape with a depth of about 9 to 10 mts. The total storage capacity of the lake is 0.79 million cubic metres (1.03 million cu yd). The quality of the water in the lake is deteriorating severely due to various reasons as mentioned below:

- Untreated sewage inflow • Encroachments
- Washing of clothes
- Unmanaged aquatic flora and fauna
- Cattle population pressure
- Lack of cleanliness
- Water temperature

Morphological features of Pushkar lake

S.No.	Features	Details
1.	Period of Construction	12th century
2.	Type	Artificial lake
3.	Catchment area, km^2	22
4.	Max depth	9-10 m
5.	Source of Water	Luni river
6.	Main uses of water	Mass bathing, washing clothes, holy rituals
7.	Volume of lake	790000 cu.m

The program shall involve the students of various B.Arch and B.ID batches to take up different design projects in their respective studios and contribute to the overall theme of **"Revitalizing the Sacred Spaces of Rajasthan: A case of Pushkar"**. The Studio will be termed as **VIDHIH: Vertical Integrated Design studio & Holistic Interpretation of the Historical context of Pushkar.**

The Vertical Studio VIDHI- Pushkar living labs is designed to bring together policymakers, city governments, residents, and research institutions to collaboratively address local urban problems and architectural intervention for addressing congestion, livability, promote sustainable growth, sanitation or the need for more green cover. The vertical studio gives a platform for review, rethink, and revise urban policy. The studio also focuses on carefully managing and will aim to, design which can attract tourism investment in a sustainable way, involving local communities without damaging the heritage areas.

Objectives of the Study:

- learning by using multi-disciplinary approaches to learn and create knowledge about urban problems - Pushkar Living Lab
- engaging with governments, private actors and policy knowledge institutions to review, select, design, test and fine tune relevant global and local solutions to their needs
- co-creating collaborative spaces for residents to participate in urban planning processes
- work towards helping cities address sustainability and livability by integrating global and local solutions.

Through this we are targeting the United Nations Sustainable Development Goals (SDGs) 6 and SDG 11:The studio also focuses on carefully managing and will aim to, design which can attract tourism investment in a sustainable way, involving local communities without damaging the heritage areas.

दैनिक भास्कर

अजमेर 08-07-2022

आर्किटेक्चर विद्यार्थियों ने समझी ऐतिहासिक इमारतों की बनावट

अजमेर | जयपुर की एमिटी यूनिवर्सिटी के स्कूल ऑफ आर्किटेक्चर एंड प्लानिंग डिपार्टमेंट के विद्यार्थियों के दल ने पुष्कर भ्रमण कर ऐतिहासिक इमारतों की बनावट और निर्माण के तरीकों को बारीकी से जाना। इस भ्रमण का मुख्य उद्देश्य ऐतिहासिक इमारतों और विरासत को करीब से जानना था। विद्यार्थियों ने पुष्कर की इमारतों, वास्तुकला, हस्तकला, घाटों, मंदिरों आदि को अपने प्रोजेक्ट में शामिल कर भविष्य में धरोहरों को बचाने से जुड़े विषय पर विस्तार से चर्चा की। फैकल्टी मैंबर्स ने लाइव प्रयोगशाला के रूप में पुष्कर की वास्तु व हस्तशिल्प कला, पुष्कर के घाटों व परिसर का दौरा किया। डायरेक्टर प्रो. तान्या वर्मा ने पुष्कर नगर पालिका अध्यक्ष कमल पाठक से मुलाकात कर पुष्कर की खूबियों को जाना। इंजीनियर विष्णु अदानिया ने सीवरेज की कार्यप्रणाली और आने वाली समस्याओं की जानकारी दी। प्रो. तान्या वर्मा ने बताया कि पुष्कर की ऐतिहासिक इमारतों को प्रोजेक्ट में शामिल किया गया है। राजस्थान के धार्मिक स्थानों को पुर्नजीवित करने के उद्देश्य से पुष्कर को पायलट प्रोजेक्ट में शामिल कर वर्टिकल स्टूडियो का निर्माण किया जाएगा। इसका मुख्य उद्देश्य विरासत को बगैर नुकसान पहुंचाए पर्यटन स्थल को आकर्षित बनाया जाना है।