



AMITY UNIVERSITY

RAJASTHAN

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 240 families' i.e. around 720 persons plus 2500 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 2000 personnel. There is a mess and also other vendors who would require water for their 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: $135 \times 3220 = 4,34,700$ LPD

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

c. Day Scholars, Faculty & Staff = $2000 \times 40 = 80000$ LPD

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

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

6. Total 5, 81,700 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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RAJASTHAN

Amity University Rajasthan has established state of art STP (Sewage Treatment Plant) and adopted advanced microbial consortium bases treatment technology to treat its domestic wastewater which is further collected in on campus artificial lake where aerator will continuously maintain oxygen supply to ensure complete aerobic digestion.

The artificial lake also receives rain water direct / terrace water which will be used for irrigation to green belt.

Please find below the S.T.P Flow Meter reading (Monthly)

Lake S.T.P. Flow Meter

2019

Month	1st Reading (Cubic Meters)	Last Reading (Cubic Meters)	Balance (Cubic Meters)
January	1022	18765	17743
February	18765	34706	15941
March	34706	49864	15158
April	49864	62950	13086
May	62630	76212	13582
June	76212	83428	7216
July	83428	92731	9303
August	92731	99887	7156
September	99887	110403	10516
October	110403	116439	6036
November	116439	119626	3187
December	119626	122410	2784





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, RHICO 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.

Page 1 of 7

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Date: 2019.07.08 12:46:09 IST
Reason: Self Attested
Location:



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- 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 emissions along with pollution control measures and the emission standards for the prescribed parameters shall be as under:



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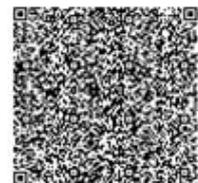
Unit Id : 56628

Sources of Air Emissions	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.

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- 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.

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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.

Page 5 of 7

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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, notwithstanding 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).

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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)
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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,

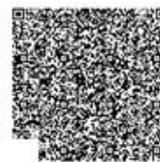
Consent to Operate under the provisions of section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 (hereinafter to be referred as the Water Act) and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981, (hereinafter to be referred as the Air Act) as amended to date 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:

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Date: 2019.07.08 12:45:38 IST
Reason: Self Attested
Location:

Head Office (MUID)
Rajasthan State Pollution Control Board
 4, Institutional Area, Jhalana Doongari, Jaipur-302 004
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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 emissions along with pollution control measures and the emission standards for the prescribed parameters shall be as under:

Sources of Air Emissions	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	--	--

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- 6 That the domestic sewage shall be treated before disposal so as to conform to the standards prescribed 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

- 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.
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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.
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- 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.

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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, notwithstanding 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 against 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]

Signature Not Verified

Digitally signed by Mahavir Mehta
Date: 2019.07.08 12:45:38 IST
Reason: Self Attested
Location:





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

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]

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





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

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 making it a very attractive place for students to come and relax. 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. (Babul, Khejri, Kadam, Khajur , Neem etc)





TOWARDS A GREENER ENVIRONMENT

Amity University Rajasthan has always been an environmentally conscious and socially responsible campus which makes it truly sustainable. Surrounded by hills, this tree-lined campus is like an "Oasis" that includes beautiful landscape; a rainwater harvesting lake with running fountains and floating aquatic birds; a Neem forest with nature trail & chirping sounds of birds that enables the project to protect the natural habitat and species.

Amity University Rajasthan is LEED registered project for achieving GOLD rating from United States Green Building Council. Leadership in Energy & Environmental Design (LEED) is an internationally recognized Green Building rating awarded to projects for their remarkable efforts in achieving sustainability and low impact on environment.

ELECTRICAL ENERGY

1. AUR has 24*7 electric supply through JVVNL and through its own captive power back up from DG sets.
2. With a view towards an energy conscious campus, AUR has installed solar panels on terraces of various buildings and has a ground tracker solar panel system.
3. The total sanctioned load for AUR from JVVNL is 3200 KW. AUR has taken approval presently to utilize 2490 KW out of sanctioned 3200 KW. AUR has two substations and has captive power generation capability to the tune of 4700 KVA through 9 DG sets installed near sub stations. The Solar Plant can generate a total of 0.99 MW or approx. 40% of AUR's total requirement.
4. Peak load, during summers, with all three chillers of air conditioning system running is in the region of 2400 KW. The minimum load is approx 700 KW (with no chillers/ less geysers operating). This is in the months of Nov and in Feb. The electricity bill varies between a maximum of Rs 58 lakhs and minimum Rs 25 lakhs.
5. The residents are provided subsidised electricity.. The vendors are charged at a rate calculated by giving due weightage to the units consumed on JVVNL and DG supply.
6. AUR has also got net metering connection with JVVNL, any excess generation of electricity through the solar panels is channeled to JVVNL grid, thus further saving on electrical cost.
7. Fitment of Solar panels has resulted in savings of Rs 6 lakhs (approx.) per month presently.


Director Administrative
AUR

8. **General Measures** -The measures adopted to ensure optimal utilization of electricity are as follows

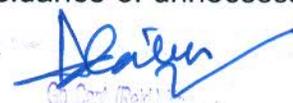
- Unserviceable Pumps motor winding is done only twice after which the pump is made redundant. This is because further rewinding will increase the load current of the pump.
- General Awareness is spread amongst all stakeholders to lower consumption of electricity and take proper precautions. Proper consumption at residences/vendor outlets is monitored through fitment of electronic meters.
- Residents / Students are made aware of the need to s/w off electrical appliances like tubelight / fans before leaving their rooms. They are also advised to stop keeping appliances like TV, Air Conditioner etc in stand by mode.
- Wardens in Hostels ensure that geysers are switched off when not in use. Hostel staff ensures only optimum lighting is used in the common areas of halls, lounges and staircase.
- Attendants in various Academic Blocks ensure that lights/fans are switched off in lecture theatres and classrooms when classes are not being held. Duty attendants also ensure that only necessary lighting is switched on after 6 pm.

9. **Chiller Plants**

- Air Conditioning system is on AMC to ensure efficient operation and regular maintenance. To increase the efficiency of the chiller plants daily inspection and periodic maintenance as required is carried out.
- Preventive maintenance (descaling etc) is carried out during the lean period. This ensures that electricity consumption does not increase significantly with ageing of the chillers.
- Chiller plants are used only on as required basis. Timing of usage is between 9 am to 5 pm from 01 Apr to 31 Oct.
- Records of Chiller plant operation and Power consumption are maintained and monitored to ensure that load current does not increase.

10. **DG Sets/Electrical Panels/Transformers/line losses/Power Factor**

- A dedicated team of electrical engineer and DG operators ensure effective running of the DG sets. Planned Maintenance is carried out at regular intervals as defined for the DG sets.
- DG sets are being synchronized to ensure max load (80% of DG rated capacity) on a particular DG set is achieved before other DG set is brought in line. This ensures reduction in fuel consumption due avoidance of unnecessary


Director Administration
AUR

running of second DG set. Record of DG sets running and servicing is maintained.

- Timely servicing of electrical panels and transformers is carried out.
- Proper rating cables are used to ensure that no cable is overloaded. This is to ensure line losses are minimum.
- Maintaining a higher Power Factor ensures stable current and reduction in its consumption. AUR is presently achieving a power factor of 0.98. Rebate is given by JVVNL for achieving a higher PF and AUR has received a max of Rs 1.75 Lakhs in a month last year. The average rebate given by JVVNL last year was approx. Rs one lakh per month.

8. **MIS** Daily and monthly MIS reports are compiled in soft copies. The same are scrutinized and provide a check to improve the system efficiency.

The Way Ahead

9. As the university expands there will be an increase in the level of power consumption. The emphasis will thus be on optimum utilization of this resource and thus concentration will be towards LED fitment and use of Solar Power. At the same time it has to be seen that existing fitments are utilized completely. Hence changeover to LED, which will be the first step, will be done in a phased manner over the next 5 years.

10. Changeover to LED in Phases

- AUR had approx 10,000 no. of 36 watt fluorescent tube lights fitted in Academic Blocks, Hostels and Residential Blocks. The 3100 tube lights fitted in Academic Blocks are proposed to be replaced by 18 watt LED tubes in the initial phase.
- The testing of LED tubes and their compatibility with the existing frames has been checked. **Similarly, there are 85 security lights of 400 watts each which has been replaced with 100/200 watts LED lamps in 2021.**
- The Tublights, chokes & starters removed from Academic Blocks will be utilized in the hostel / residential blocks. Subsequently fluorescent tubelights of Residential Blocks will be replaced, with those in hostel being replaced in the last phase.
- AUR has already replaced 1740 nos. of old fittings (inclusive of all types like security, panel and normal tube lights) with new LED in a period 18 months i.e. from Mar'2019 to Oct'2021 **saving approx. 680 units daily.**


Sp. Capt. (Retd.) Joy Ghoshal
Director Administration
AUR

Electricity Generation Through Solar Power

11. As AUR already has a sanction of 3200 KW from JVVNL and is generating 990 KW from solar, it is estimated that there will be no requirement of additional power to be sanctioned from JVVNL for the next five years. There is also a thought to extend the ground tracking system to generate additional solar power.

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 240 families' i.e. around 720 persons plus 2500 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 2000 personnel. There is a mess and also other vendors who would require water for their 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: $135 \times 3220 = 4,34,700$ LPD
- b. Guards and Other Staff routine duties after working hrs: $50 \times 80 = 4000$ LPD
- c. Day Scholars, Faculty & Staff = $2000 \times 40 = 80000$ LPD
- d. Chiller Plants Requirement : 60,000 LPD (Minimum)
- e. Laundry Requirement (Commercial purposes uses more water than household purposes) 3000 LPD

6. Total 5, 81,700 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


Gp. Capt. (Retd.) Ajay Mudaliar
Director Administration
AUR

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.

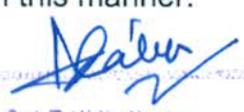
Going Ahead

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.


Gp. Capt. (Retd.) Ajoy Mudaliar
Director Administration
AUR

- **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.



Gp. Capt. (Retd.) Ajay Kumar
Director Administration
AUR

7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,
RAMNAGARIYA ROAD, JAGATPURA,
JAIPUR-302017, RAJASTHAN (INDIA)
CIN NO.:U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY
ISO-14001:2015 CERTIFIED LABORATORY
ISO-45001:2018 CERTIFIED LABORATORY

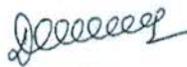
Sample ID No.: SCS/W/20210617/34	Date of Registration: 17.06.2021
Report No. SCS/TWPRS/W/20210617/34(2/2)	Date of Report: 23.06.2021

TEST REPORT

Name of Client : M/s. Amity University
Address of Client : SP-1 Kant Kalwar, NH11C, RIICO Industrial Area, Jaipur, Rajasthan 303007
Date of Sample Receipt : 17.06.2021
Date of start of testing : 18.06.2021
Date of end of testing : 23.06.2021
Details of Sample : H-4 Hostel Water
Sample sent by : University Representative

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 6: Bacteriological Quality of Drinking Water				
E. Coli	Absent	Shall not be detectable in any 100 ml sample		IS: 15185 - 2016
Total Coliform	Absent	Shall not be detectable in any 100 ml sample		IS: 15185 - 2016

Per pro SCS Enviro Services Pvt. Ltd.,


Dr. D. S. Parihar
(Technical Manager)
Authorised Signatory



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- This report cannot be reproduced without the written permission of the director.
- The sample will be destroyed after 15 days from the date of issue of the test report.
- The liability of the laboratory is limited to the invoiced amount.
- All disputes are subjected to Jaipur jurisdiction.


Director Administration
AUR

7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,
RAMNAGARIYA ROAD, JAGATPURA,
JAIPUR-302017, RAJASTHAN (INDIA)
CIN NO.:U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY
ISO-14001:2015 CERTIFIED LABORATORY
ISO-45001:2018 CERTIFIED LABORATORY

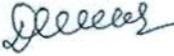
Sample ID No.: SCS/W/20210617/33	Date of Registration: 17.06.2021
Report No. SCS/TWPRS/W/20210617/33(2/2)	Date of Report: 23.06.2021

TEST REPORT

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Date of Sample Receipt : 17.06.2021
Date of start of testing : 18.06.2021
Date of end of testing : 23.06.2021
Details of Sample : H-3 Hostel Water
Sample sent by : University Representative

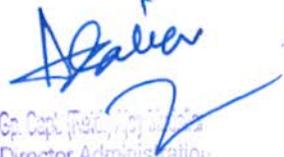
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Total Coliform	Absent	Shall not be detectable in any 100 ml sample		IS: 15185 - 2016

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Gp. Capt. (Retd.) Jyoti K. Sharma
Director Administration
AUR



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RAMNAGARIYA ROAD, JAGATPURA,
JAIPUR-302017, RAJASTHAN (INDIA)
CIN NO.:U74140RJ2013PTC042216

TC-6960

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ISO-14001:2015 CERTIFIED LABORATORY
ISO-45001:2018 CERTIFIED LABORATORY

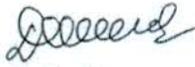
Sample ID No.: SCS/W/20210617/34	Date of Registration: 17.06.2021
Report No. SCS/TWPRS/W/20210617/34(1/2)	Date of Report: 23.06.2021

TEST REPORT

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Date of Sample Receipt : 17.06.2021
Date of start of testing : 18.06.2021
Date of end of testing : 23.06.2021
Details of Sample : H-4 Hostel Water
Sample sent by : University Representative

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic and Physical Parameters				
Color, Hazen Units	< 1	5	15	APHA (23rd Edition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS: 3025 Part 5 - 1983
pH	6.88	6.5 – 8.5	No Relaxation	APHA (23rd Edition) 4500- H ⁺
Taste	Agreeable	Agreeable	Agreeable	APHA (23rd Edition) 2160B
Turbidity, NTU	0.19	1	5	APHA (23rd Edition) 2130
Dissolved Solids	424.00 Mg / L	500 Mg / L	2,000 Mg / L	APHA (23rd Edition) 2540 C
Table 2: General Parameters Concerning Substances Undesirable in Excess Amounts				
Calcium as Ca	43.20 Mg / L	75 Mg / L	200 Mg / L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	43.98 Mg / L	250 Mg / L	1,000 Mg / L	APHA (23rd Edition) 4500 Cl B
Copper as Cu	< 0.01 Mg / L	0.05 Mg / L	1.5 Mg / L	APHA (23rd Edition) 3111 B
Fluoride as F	0.45 Mg / L	1.0 Mg / L	1.5 Mg / L	APHA (23rd Edition) 4500 F D
Free Residual Chlorine	< 0.1 Mg / L	0.2 Mg / L	1.0 Mg / L	APHA (23rd Edition) 4500 B
Iron as Fe	0.02 Mg / L	0.3 Mg / L	No Relaxation	APHA (23rd Edition) 3111 B
Magnesium as Mg	18.47 Mg / L	30 Mg / L	100 Mg / L	APHA (23rd Edition) 3500 Mg B
Manganese as Mn	< 0.01 Mg / L	0.1 Mg / L	0.3 Mg / L	APHA (23rd Edition) 3111 B
Nitrate as NO ₃	31.29 Mg / L	45 Mg / L	No relaxation	APHA (23rd Edition) 4500 B
Sulphate as SO ₄	12.63 Mg / L	200 Mg / L	400 Mg / L	APHA (23rd Edition) 4500 E
Total Alkalinity as CaCO ₃	224.00 Mg / L	200 Mg / L	600 Mg / L	APHA (23rd Edition) 2320
Total Hardness as CaCO ₃	184.00 Mg / L	200 Mg / L	600 Mg / L	APHA (23rd Edition) 2340 C

Per pro SCS Enviro Services Pvt. Ltd.,


Dr. D. S. Parihar
(Technical Manager)
Authorised Signatory



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Gp. Capt. (Retd.) Jyoti K. Jaiswal
Director Administration
AUR



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TC-6960
MoEF&CC RECOGNIZED LABORATORY
vide S.O. 5768(E) Dated 15.11.2018 Valid upto 14.11.21
ISO-9001:2015 CERTIFIED LABORATORY
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ISO-45001:2018 CERTIFIED LABORATORY

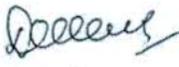
Sample ID No.: SCS/W/20210617/33	Date of Registration: 17.06.2021
Report No. SCS/TWPRS/W/20210617/33(1/2)	Date of Report: 23.06.2021

TEST REPORT

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Date of Sample Receipt : 17.06.2021
Date of start of testing : 18.06.2021
Date of end of testing : 23.06.2021
Details of Sample : H-3 Hostel Water
Sample sent by : University Representative

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic and Physical Parameters				
Color, Hazen Units	< 1	5	15	APHA (23rd Edition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS: 3025 Part 5 - 1983
pH	7.10	6.5 – 8.5	No Relaxation	APHA (23rd Edition) 4500- H ⁺
Taste	Agreeable	Agreeable	Agreeable	APHA (23rd Edition) 2160B
Turbidity, NTU	0.15	1	5	APHA (23rd Edition) 2130
Dissolved Solids	437.00 Mg / L	500 Mg / L	2,000 Mg / L	APHA (23rd Edition) 2540 C
Table 2: General Parameters Concerning Substances Undesirable in Excess Amounts				
Calcium as Ca	44.80 Mg / L	75 Mg / L	200 Mg / L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	45.98 Mg / L	250 Mg / L	1,000 Mg / L	APHA (23rd Edition) 4500 Cl B
Copper as Cu	< 0.01 Mg / L	0.05 Mg / L	1.5 Mg / L	APHA (23rd Edition) 3111 B
Fluoride as F	0.58 Mg / L	1.0 Mg / L	1.5 Mg / L	APHA (23rd Edition) 4500 F D
Free Residual Chlorine	< 0.1 Mg / L	0.2 Mg / L	1.0 Mg / L	APHA (23rd Edition) 4500 B
Iron as Fe	0.03 Mg / L	0.3 Mg / L	No Relaxation	APHA (23rd Edition) 3111 B
Magnesium as Mg	18.47 Mg / L	30 Mg / L	100 Mg / L	APHA (23rd Edition) 3500 Mg B
Manganese as Mn	< 0.01 Mg / L	0.1 Mg / L	0.3 Mg / L	APHA (23rd Edition) 3111 B
Nitrate as NO ₃	31.74 Mg / L	45 Mg / L	No relaxation	APHA (23rd Edition) 4500 B
Sulphate as SO ₄	16.79 Mg / L	200 Mg / L	400 Mg / L	APHA (23rd Edition) 4500 E
Total Alkalinity as CaCO ₃	228.00 Mg / L	200 Mg / L	600 Mg / L	APHA (23rd Edition) 2320
Total Hardness as CaCO ₃	188.00 Mg / L	200 Mg / L	600 Mg / L	APHA (23rd Edition) 2340 C

Per pro SCS Enviro Services Pvt. Ltd.,


Dr. D. S. Parihar
(Technical Manager)
Authorised Signatory



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Gp. Capt. (Field) Ajay Nudali
Director Administration
A.I.P.

7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,
RAMNAGARIYA ROAD, JAGATPURA,
JAIPUR-302017, RAJASTHAN (INDIA)
CIN NO.:U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY
ISO-14001:2015 CERTIFIED LABORATORY
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/W/20210617/32	Date of Registration: 17.06.2021
Report No. SCS/TWPRS/W/20210617/32(2/2)	Date of Report: 23.06.2021

TEST REPORT

Name of Client : M/s. Amity University
Address of Client : SP-1 Kant Kalwar, NH11C, RIICO Industrial Area, Jaipur, Rajasthan 303007
Date of Sample Receipt : 17.06.2021
Date of start of testing : 18.06.2021
Date of end of testing : 23.06.2021
Details of Sample : Borewell No. 18 Water
Sample sent by : SCS & University Representative

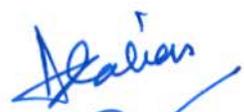
Parameter	Results	IS - 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 6: Bacteriological Quality of Drinking Water				
E. Coli	Absent	Shall not be detectable in any 100 ml sample		IS: 15185 - 2016
Total Coliform	Absent	Shall not be detectable in any 100 ml sample		IS: 15185 - 2016

Per pro SCS Enviro Services Pvt. Ltd.,


Dr. D. S. Parihar
(Technical Manager)
Authorised Signatory



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Gp. Capt. (Retd.) A. K. Sharma
Director Admin.
AUR



7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,
RAMNAGARIYA ROAD, JAGATPURA,
JAIPUR-302017, RAJASTHAN (INDIA)
CIN NO.:U74140RJ2013PTC042216

TC-6960
MoEF&CC RECOGNIZED LABORATORY
vide S.O. 5768(E) Dated 15.11.2018 Valid upto 14.11.20
ISO-9001:2015 CERTIFIED LABORATORY
ISO-14001:2015 CERTIFIED LABORATORY
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/W/20210617/32	Date of Registration: 17.06.2021
Report No. SCS/TWPRS/W/20210617/32(1/2)	Date of Report: 23.06.2021

TEST REPORT

Name of Client : M/s. Amity University
Address of Client : SP-1 Kant Kalwar, NH11C, RIICO Industrial Area, Jaipur, Rajasthan 303007
Date of Sample Receipt : 17.06.2021
Date of start of testing : 18.06.2021
Date of end of testing : 23.06.2021
Details of Sample : Borewell No. 18 Water
Sample sent by : SCS & University Representative

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic and Physical Parameters				
Color, Hazen Units	< 1	5	15	APHA (23rd Edition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS: 3025 Part 5 - 1983
pH	7.28	6.5 – 8.5	No Relaxation	APHA (23rd Edition) 4500- H ⁺
Taste	Agreeable	Agreeable	Agreeable	APHA (23rd Edition) 2160B
Turbidity, NTU	0.12	1	5	APHA (23rd Edition) 2130
Dissolved Solids	460.00 Mg / L	500 Mg / L	2,000 Mg / L	APHA (23rd Edition) 2540 C
Table 2: General Parameters Concerning Substances Undesirable in Excess Amounts				
Calcium as Ca	40.00 Mg / L	75 Mg / L	200 Mg / L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	33.99 Mg / L	250 Mg / L	1,000 Mg / L	APHA (23rd Edition) 4500 Cl B
Copper as Cu	< 0.01 Mg / L	0.05 Mg / L	1.5 Mg / L	APHA (23rd Edition) 3111 B
Fluoride as F	0.68 Mg / L	1.0 Mg / L	1.5 Mg / L	APHA (23rd Edition) 4500 F D
Free Residual Chlorine	< 0.1 Mg / L	0.2 Mg / L	1.0 Mg / L	APHA (23rd Edition) 4500 B
Iron as Fe	0.03 Mg / L	0.3 Mg / L	No Relaxation	APHA (23rd Edition) 3111 B
Magnesium as Mg	14.58 Mg / L	30 Mg / L	100 Mg / L	APHA (23rd Edition) 3500 Mg B
Manganese as Mn	< 0.01 Mg / L	0.1 Mg / L	0.3 Mg / L	APHA (23rd Edition) 3111 B
Nitrate as NO ₃	34.74 Mg / L	45 Mg / L	No relaxation	APHA (23rd Edition) 4500 B
Sulphate as SO ₄	10.91 Mg / L	200 Mg / L	400 Mg / L	APHA (23rd Edition) 4500 E
Total Alkalinity as CaCO ₃	248.00 Mg / L	200 Mg / L	600 Mg / L	APHA (23rd Edition) 2320
Total Hardness as CaCO ₃	160.00 Mg / L	200 Mg / L	600 Mg / L	APHA (23rd Edition) 2340 C

Per pro SCS Enviro Services Pvt. Ltd.,


Dr. D. S. Parihar
(Technical Manager)
Authorised Signatory




Co. Capt. (Retd.) Jyoti
Director Administ.
AUR

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7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,
RAMNAGARIYA ROAD, JAGATPURA,
JAIPUR-302017, RAJASTHAN (INDIA)
CIN NO.:U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY
ISO-14001:2015 CERTIFIED LABORATORY
ISO-45001:2018 CERTIFIED LABORATORY

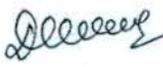
Sample ID No.: SCS/W/20210617/31	Date of Registration: 17.06.2021
Report No. SCS/TWPRS/W/20210617/31(2/2)	Date of Report: 23.06.2021

TEST REPORT

Name of Client : M/s. Amity University
Address of Client : SP-1 Kant Kalwar, NH11C, RIICO Industrial Area, Jaipur, Rajasthan 303007
Date of Sample Receipt : 17.06.2021
Date of start of testing : 18.06.2021
Date of end of testing : 23.06.2021
Details of Sample : Borewell No. 9 Water
Sample sent by : University Representative

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 6: Bacteriological Quality of Drinking Water				
E. Coli	Absent	Shall not be detectable in any 100 ml sample		IS: 15185 - 2016
Total Coliform	20 CFU	Shall not be detectable in any 100 ml sample		IS: 15185 - 2016

Per pro SCS Enviro Services Pvt. Ltd.,


Dr. D. S. Parihar
(Technical Manager)
Authorised Signatory



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Gp. Capt. (Retd.) Ajay Kumar
Director Administ.
AUR



7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,
RAMNAGARIYA ROAD, JAGATPURA,
JAIPUR-302017, RAJASTHAN (INDIA)
CIN NO.:U74140RJ2013PTC042216

TC-6960
MoEF&CC RECOGNIZED LABORATORY
vide S.O. 5768(E) Dated 15.11.2018 Valid upto 14.11.20
ISO-9001:2015 CERTIFIED LABORATORY
ISO-14001:2015 CERTIFIED LABORATORY
ISO-45001:2018 CERTIFIED LABORATORY

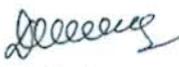
Sample ID No.: SCS/W/20210617/31	Date of Registration: 17.06.2021
Report No. SCS/TWPRS/W/20210617/31(1/2)	Date of Report: 23.06.2021

TEST REPORT

Name of Client : M/s. Amity University
Address of Client : SP-1 Kant Kalwar, NH11C, RIICO Industrial Area, Jaipur, Rajasthan 303007
Date of Sample Receipt : 17.06.2021
Date of start of testing : 18.06.2021
Date of end of testing : 23.06.2021
Details of Sample : Borewell No. 9 Water
Sample sent by : University Representative

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic and Physical Parameters				
Color, Hazen Units	< 1	5	15	APHA (23rd Edition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS: 3025 Part 5 - 1983
pH	7.19	6.5 – 8.5	No Relaxation	APHA (23rd Edition) 4500- H ⁺
Taste	Agreeable	Agreeable	Agreeable	APHA (23rd Edition) 2160B
Turbidity, NTU	0.17	1	5	APHA (23rd Edition) 2130
Dissolved Solids	467.00 Mg / L	500 Mg / L	2,000 Mg / L	APHA (23rd Edition) 2540 C
Table 2: General Parameters Concerning Substances Undesirable in Excess Amounts				
Calcium as Ca	52.80 Mg / L	75 Mg / L	200 Mg / L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	65.98 Mg / L	250 Mg / L	1,000 Mg / L	APHA (23rd Edition) 4500 Cl B
Copper as Cu	< 0.01 Mg / L	0.05 Mg / L	1.5 Mg / L	APHA (23rd Edition) 3111 B
Fluoride as F	0.49 Mg / L	1.0 Mg / L	1.5 Mg / L	APHA (23rd Edition) 4500 F D
Free Residual Chlorine	< 0.1 Mg / L	0.2 Mg / L	1.0 Mg / L	APHA (23rd Edition) 4500 B
Iron as Fe	0.03 Mg / L	0.3 Mg / L	No Relaxation	APHA (23rd Edition) 3111 B
Magnesium as Mg	19.44 Mg / L	30 Mg / L	100 Mg / L	APHA (23rd Edition) 3500 Mg B
Manganese as Mn	< 0.01 Mg / L	0.1 Mg / L	0.3 Mg / L	APHA (23rd Edition) 3111 B
Nitrate as NO ₃	37.49 Mg / L	45 Mg / L	No relaxation	APHA (23rd Edition) 4500 B
Sulphate as SO ₄	16.59 Mg / L	200 Mg / L	400 Mg / L	APHA (23rd Edition) 4500 E
Total Alkalinity as CaCO ₃	220.00 Mg / L	200 Mg / L	600 Mg / L	APHA (23rd Edition) 2320
Total Hardness as CaCO ₃	212.00 Mg / L	200 Mg / L	600 Mg / L	APHA (23rd Edition) 2340 C

Per pro SCS Enviro Services Pvt. Ltd.,


Dr. D. S. Parihar
(Technical Manager)
Authorised Signatory




Gp. Capt. (Retd.) Ajay Singh
Director Administration
AUR

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RAMNAGARIYA ROAD, JAGATPURA,
JAIPUR-302017, RAJASTHAN (INDIA)
CIN NO.:U74140RJ2013PTC042216

TC-6960
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ISO-45001:2018 CERTIFIED LABORATORY

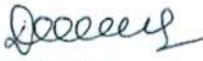
Sample ID No.: SCS/W/20210617/30	Date of Registration: 17.06.2021
Report No. SCS/AUJ/W/20210617/30(1/2)	Date of Report: 23.06.2021

TEST REPORT

Name of Client : M/s. Amity University
Address of Client : SP-1 Kant Kalwar, NH11C, RIICO Industrial Area, Jaipur, Rajasthan 303007
Date of Sample Receipt : 17.06.2021
Date of start of testing : 18.06.2021
Date of end of testing : 23.06.2021
Details of Sample : Borewell No. 1 Water
Sample sent by : University Representative

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic and Physical Parameters				
Color, Hazen Units	< 1	5	15	APHA (23rd Edition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS: 3025 Part 5 - 1983
pH	7.03	6.5 – 8.5	No Relaxation	APHA (23rd Edition) 4500- H ⁺
Taste	Agreeable	Agreeable	Agreeable	APHA (23rd Edition) 2160B
Turbidity, NTU	0.14	1	5	APHA (23rd Edition) 2130
Dissolved Solids	451.00 Mg / L	500 Mg / L	2,000 Mg / L	APHA (23rd Edition) 2540 C
Table 2: General Parameters Concerning Substances Undesirable in Excess Amounts				
Calcium as Ca	49.60 Mg / L	75 Mg / L	200 Mg / L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	41.99 Mg / L	250 Mg / L	1,000 Mg / L	APHA (23rd Edition) 4500 Cl B
Copper as Cu	< 0.01 Mg / L	0.05 Mg / L	1.5 Mg / L	APHA (23rd Edition) 3111 B
Fluoride as F	0.53 Mg / L	1.0 Mg / L	1.5 Mg / L	APHA (23rd Edition) 4500 F D
Free Residual Chlorine	< 0.1 Mg / L	0.2 Mg / L	1.0 Mg / L	APHA (23rd Edition) 4500 B
Iron as Fe	0.02 Mg / L	0.3 Mg / L	No Relaxation	APHA (23rd Edition) 3111 B
Magnesium as Mg	16.52 Mg / L	30 Mg / L	100 Mg / L	APHA (23rd Edition) 3500 Mg B
Manganese as Mn	< 0.01 Mg / L	0.1 Mg / L	0.3 Mg / L	APHA (23rd Edition) 3111 B
Nitrate as NO ₃	16.34 Mg / L	45 Mg / L	No relaxation	APHA (23rd Edition) 4500 B
Sulphate as SO ₄	8.97 Mg / L	200 Mg / L	400 Mg / L	APHA (23rd Edition) 4500 E
Total Alkalinity as CaCO ₃	264.00 Mg / L	200 Mg / L	600 Mg / L	APHA (23rd Edition) 2320
Total Hardness as CaCO ₃	192.00 Mg / L	200 Mg / L	600 Mg / L	APHA (23rd Edition) 2340 C

Per pro SCS Enviro Services Pvt. Ltd.,


Dr. D. S. Parihar
(Technical Manager)
Authorised Signatory




Gp. Capt. (Retd.) Ajay Kumar
Director Administration
AUR

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RAMNAGARIYA ROAD, JAGATPURA,
JAIPUR-302017, RAJASTHAN (INDIA)
CIN NO.:U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY
ISO-14001:2015 CERTIFIED LABORATORY
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/W/20210617/30	Date of Registration: 17.06.2021
Report No. SCS/TWPRS/W/20210617/30(2/2)	Date of Report: 23.06.2021

TEST REPORT

Name of Client : M/s. Amity University
Address of Client : SP-1 Kant Kalwar, NH11C, RIICO Industrial Area, Jaipur, Rajasthan 303007
Date of Sample Receipt : 17.06.2021
Date of start of testing : 18.06.2021
Date of end of testing : 23.06.2021
Details of Sample : Borewell No. 1 Water
Sample sent by : University Representative

Parameter	Results	IS - 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 6: Bacteriological Quality of Drinking Water				
E. Coli	Absent	Shall not be detectable in any 100 ml sample		IS: 15185 - 2016
Total Coliform	15 CFU	Shall not be detectable in any 100 ml sample		IS: 15185 - 2016

Per pro SCS Enviro Services Pvt. Ltd.,


Dr. D. S. Parihar
(Technical Manager)
Authorised Signatory



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Gp. Capt. (Retd.) Ajoy Mudaliar
Director Administration
AUR

Amity University Jaipur, Rajasthan													20.10.2021		
S. No.	Name of Light	Location	2019	2020	Oct'2021	Total Lights Replaced	LED Wattage	Old light wattage	Wattage Saved	Hr usage/day	Hr usage/annual	KWh Saved Annual	Total Annual Saving in Rs.	Total Co2 emission Reduced in Kg	
1	LED Flood Light	Block terrace/outdoor			66	66	200	400	13200	10	3650	48180	₹ 481,800	40953	
2	LED Flood Light	Block terrace/outdoor			19	19	100	400	5700	10	3650	20805	₹ 208,050	17684	
3	LED Street Light	Outdoor			20	20	60	150	1800	10	3650	6570	₹ 65,700	5585	
4	LED 4 ft. Tube Light	Academic block Corridor/Office	123	320	580	1023	18	45	27621	12	3960	109379	₹ 1,093,792	92972	
5	LED 4 ft. Tube Light	Hostel Corridor				150	18	45	4050	12	3600	14580	₹ 145,800	12393	
6	LED bulb 9/13 watt	Lift shaft/misc.	22	80	20	122	12	60	5856	12	1800	10541	₹ 105,408	8960	
7	LED round light 4"	Lift Car			15	15	6	20	210	24	8760	1840	₹ 18,396	1564	
8	LED round light 7"	Academic blocks		50	100	150	15	45	4500	9	1800	8100	₹ 81,000	6885	
9	LED PLL 4 pin	Academic blocks		75	100	175	18	54	6300	15	4500	28350	₹ 283,500	24098	
												Total	248345	₹ 2,483,446	211093


 Sr. Capt. (Retd.) J. K. Sharma
 Director Administration
 AUR

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															
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


 Anil
 Sr. Capt. (Retd.) Jy. Narain
 Director Administration
 AUR

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															
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

A


 Director Administration
 AUR



AMITY UNIVERSITY

RAJASTHAN

Amity University Rajasthan has established state of art STP (Sewage Treatment Plant) and adopted advanced microbial consortium bases treatment technology to treat its domestic wastewater which is further collected in on campus artificial lake where aerator will continuously maintain oxygen supply to ensure complete aerobic digestion.

The artificial lake also receives rain water direct / terrace water which will be used for irrigation to green belt.

Please find below the S.T.P Flow Meter reading (Monthly)

Lake S.T.P. Flow Meter

2019

Month	1st Reading (Cubic Meters)	Last Reading (Cubic Meters)	Balance (Cubic Meters)
January	1022	18765	17743
February	18765	34706	15941
March	34706	49864	15158
April	49864	62950	13086
May	62630	76212	13582
June	76212	83428	7216
July	83428	92731	9303
August	92731	99887	7156
September	99887	110403	10516
October	110403	116439	6036
November	116439	119626	3187
December	119626	122410	2784





AMITY UNIVERSITY

RAJASTHAN

Amity University Rajasthan is having a process in place to treat **Waste water**. **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. Please find below the S.T.P Flow Meter reading (Monthly)

Lake S.T.P. Flow Meter

2019

Month	1st Reading (Cubic Meters)	Last Reading (Cubic Meters)	Balance (Cubic Meters)
January	1022	18765	17743
February	18765	34706	15941
March	34706	49864	15158
April	49864	62950	13086
May	62630	76212	13582
June	76212	83428	7216
July	83428	92731	9303
August	92731	99887	7156
September	99887	110403	10516
October	110403	116439	6036
November	116439	119626	3187
December	119626	122410	2784





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.

Water Harvesting Lake

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 making it a very attractive place for students to come and relax.





Head Office (MUID)
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302
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, RIIC 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.

Signature Not Verified

Digitally signed by Mahavir Mehta
Date: 2019.07.08 12:46:09 IST
Reason: Self Attested
Location:





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Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302
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- 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 emissions along with pollution control measures and the emission standards for the prescribed parameters shall be as under:



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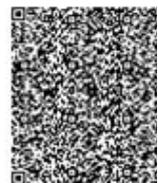
Unit Id : 56628

Sources of Air Emissions	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.

Signature Not Verified

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Reason: Self Attested
Location:





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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.

Signature Not Verified

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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

- 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.

Page 5 of 7

Signature Not Verified

Digitally signed by Mahavir Mehta
Date: 2019.07.08 12:46:09 IST
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Location:





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4, Institutional Area, Jhalana Doongari, Jaipur-302
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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

- 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, notwithstanding 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 on and does not absolve the project proponent from the other statutory obligatio prescribed under any other law or any other instrument in force. The sole and comple responsibility, to comply with the conditions laid down in all other laws for the time-bei 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 c jeopardize the legal proceedings, if any, instituted in the past or that could be institute against you by the State Board for violation of the provisions of the Act or the Rules mad thereunder.

This **Consent to Establish** shall also be subject, beside the aforesaid specific conditions, t the general conditions given in the enclosed Annexure. The project proponent will compl with the provisions of the **Water Act and Air Act** and to such other conditions as may, fro 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 t revocation of **Consent to Establish** and project proponent / occupier shall be liable for leg action under the the relevant provisions of the said Act(s).

Signature Not Verified

Digitally signed by Mahavir Mehta
Date: 2019.07.08 12:46:09 IST
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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

This bears the approval of the competent authority.

Yours Sincerely

Group Incharge[MUII

Copy To:-

- 1 Regional Officer, Regional Office, Rajasthan State Pollution Control Board,,Jaipur (N) to verify the compliance of Consent to Establish conditions and forward the detailed inspection report for further necessary action within 03 month.
- 2 Master File.

Group Incharge[MUI

Signature Not Verified

Digitally signed by Mahavir Mehta
Date: 2019.07.08 12:46:09 IST
Reason: SelfAttested
Location:



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
Unit Id : 56628
Date: 08/07/2019

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,

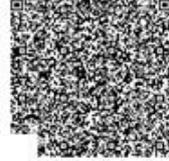
Consent to Operate under the provisions of section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 (hereinafter to be referred as the Water Act) and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981, (hereinafter to be referred as the Air Act) as amended to date 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:

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Digitally signed by Mahavir Mehta
Date: 2019.07.08 12:45:38 IST
Reason: Self Attested
Location:

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

Order No: 2019-2020/MUID/5203

Date: 08/07/2019

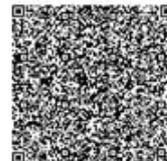
Unit Id : 56628

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 emissions along with pollution control measures and the emission standards for the prescribed parameters shall be as under:

Sources of Air Emissions	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	--	--

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Order No : 2019-2020/MUID/5203

Date: 08/07/2019

Unit Id : 56628

- 6 That the domestic sewage shall be treated before disposal so as to conform to the standards prescribed 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

- 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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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

- 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.

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Date: 2019.07.08 12:45:38 IST
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Location:





Head Office (MUID)
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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

- 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, notwithstanding 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 against 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]

Signature Not Verified

Digitally signed by Mahavir Mehta
Date: 2019.07.08 12:45:38 IST
Reason: Self Attested
Location:





Head Office (MUID)
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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

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]

Signature Not Verified

Digitally signed by Mahavir Mehta
Date: 2019.07.08 12:45:38 IST
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AMITY UNIVERSITY

RAJASTHAN

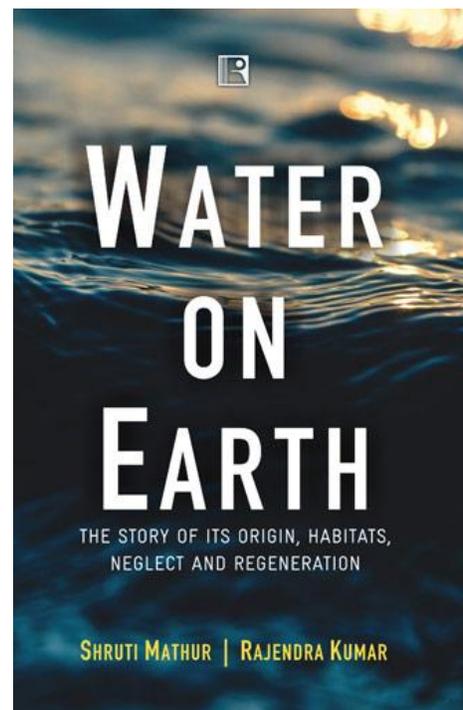
[The Amity Centre for Water Studies and Research](#) has been established with a vision to provide excellence in teaching, research and consultancy in water and water related issues. The centre envisages offering solutions to all water related problems as a consultant organization and to produce highly 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.

Book Published by Dr Shruti Mathur on Water !

Shruti Mathur, recipient of Young Scientists' Award from the Indian Science Congress, an avowed academician and researcher, is currently Associate Professor of Biotechnology, Amity University, Jaipur. Conscious, as she is, about the perils of the threatening water shortages in the country, her commitment to arm the society with scientific awareness about water is as strong as her research interests in Biotechnology. She has guided research students and has also published her research in reputed international journals. Rajendra Kumar, former Director, Regional Research Laboratory (CSIR), Bhopal has been connected with various environmental issues pertaining to global warming. He participated in the UN workshops on climate control in Moscow and Saarbrucken (Germany). He has authored two books in the field of metallurgical engineering.



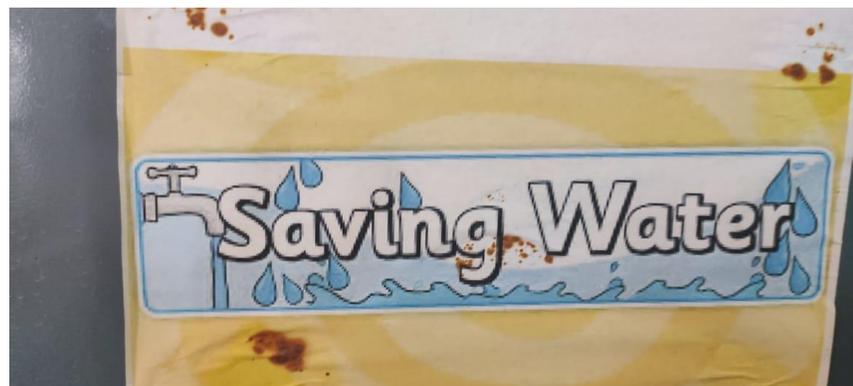


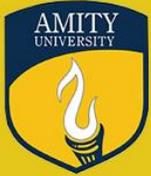
AMITY UNIVERSITY

RAJASTHAN

Amity University Rajasthan believes in sustainable use of water – both drinking and use for other purpose. Starting from rainwater harvesting to use of recycled water in the campus is the strength. The Staff as well as the students and residential members are continuously educated for water management and saving of water as much as possible. Every building is installed with individual meters and automatic tank refill to minimize any wastage of water.

Posters are installed at strategic locations for students and staffs.





Mapping of Water Conservation Practices in Amity University Rajasthan



Lake



Sprinkler for Irrigation



Cooling Ducts

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



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



Water Collection Pit

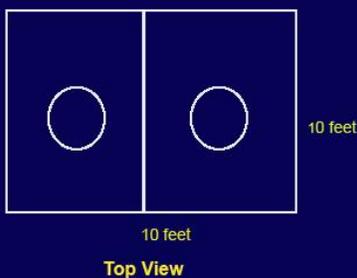


Surface Drain Pipe (Side View)

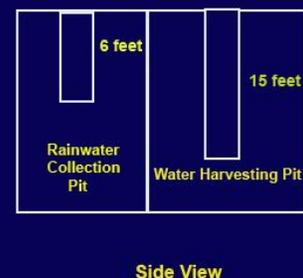


Borewell

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.



Water Collection Pit



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)**

Acknowledgements

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

**Mr. Sudarshan Chauhan
Asst. Manager (Admin)**

**Mr Sanjit Singh
ASCO(Photography)**



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



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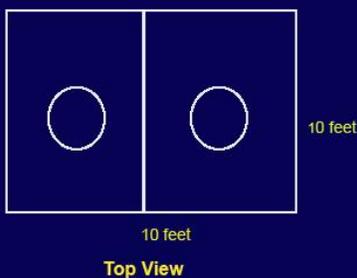


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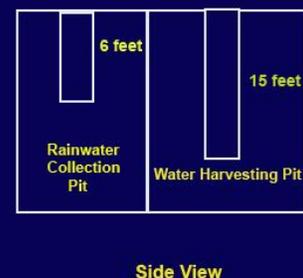


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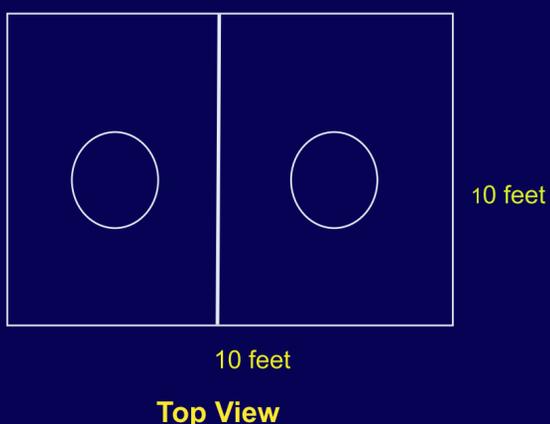


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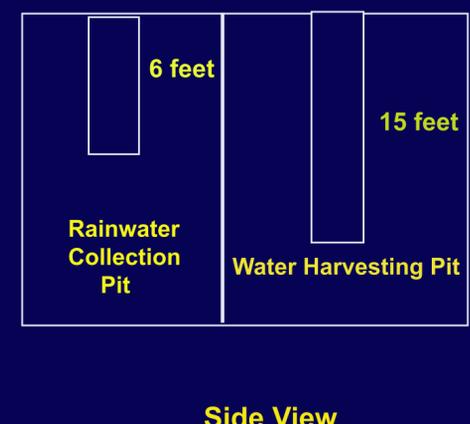


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