

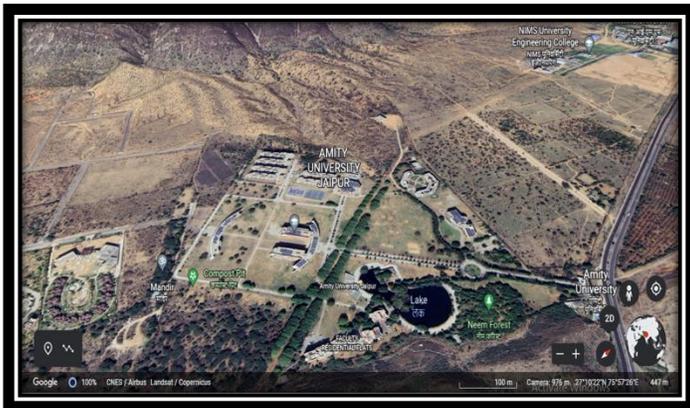
AMITY UNIVERSITY RAJASTHAN

7.3 INSTITUTIONAL DISTINCTIVENESS

‘GREEN OASIS’: AUR AN ECO-FRIENDLY SUSTAINABLE GREEN CAMPUS

Amity University Rajasthan is a lush green & clean campus, located amidst one of the world’s oldest mountain ranges of Aravalli situated in the semi-arid region of Jaipur (Rajasthan). Surrounded by Aravalli, this tree-lined campus appears like a “Green Oasis” that includes a beautiful landscape; a manmade rainwater-harvesting lake with running fountains and floating aquatic birds contributing towards the conservation of natural resources; a Neem forest with a nature trail & chirping sounds of birds that serves the objective to protect the natural habitat and species. The picturesque campus stretches across 152 acres with plantations of regional biodiversity.

AMITY UNIVERSITY RAJASTHAN AS ‘GREEN OASIS’



GOOGLE EARTH VIEW



ACTUAL SITE VIEW

It is well said that ‘A healthy environment leads to a healthier brain’. A green, clean and sustainable campus will provide and promote a healthy and cheerful campus learning environment. The adoption of concept of an eco-friendly sustainable campus becomes important in the current scenario of climate change, pollution, natural resource depletion, biodiversity loss, and improper waste management. Realizing the commitment of India toward the UN 2030 Agenda for Sustainable Development and the role of the education sector in the implementation and attainment of the sustainable development goals (SDGs), the University Grants Commission (UGC) proposed a ‘sustainable campus framework’ known as SATAT in 2020 with an aim to integrate sustainable development into the teaching-learning process and to achieve a green and sustainable campus environment for Higher Education Institutions (HEIs) in India. Thus, educating the youth and future generations towards



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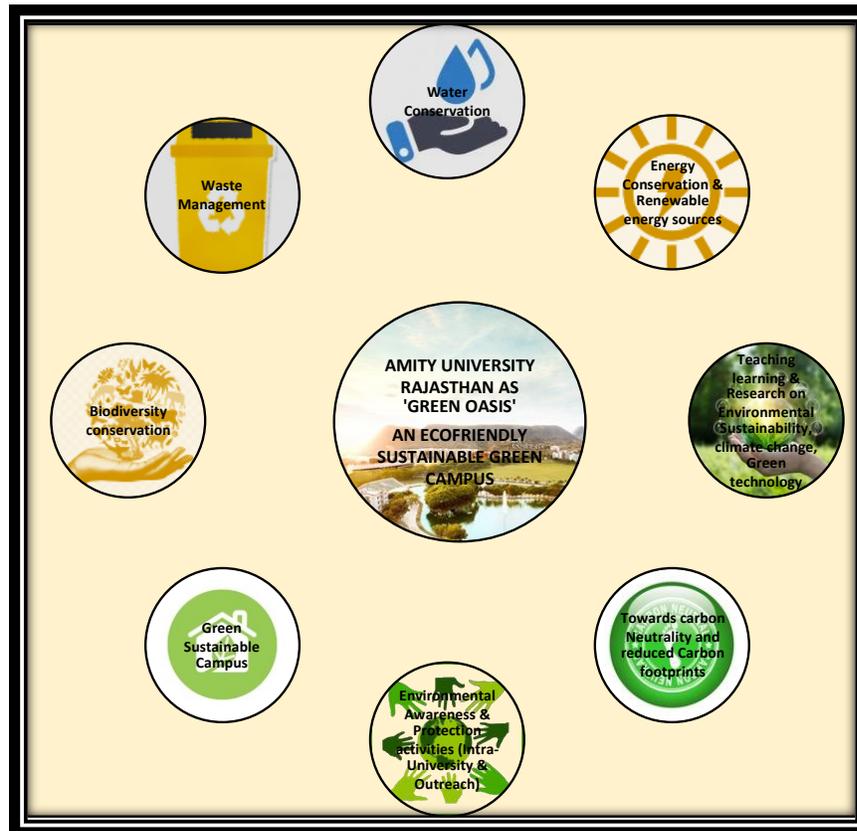
RAJASTHAN

environment conservation and sustainable development. As stated in Amity University's Mission Statement 'To prepare future global leaders by providing an environment of excellence in academics, research technology-driven learning cross-cultural exposure, holistic development and enabling them with a commitment to societal & environmental responsibility, Amity University Rajasthan (AUR) is committed towards environmental consciousness and initiate action accordingly. AUR strongly believe in an environment-friendly green campus concept and has initiated appropriate practices since its inception. The University is acutely aware of its environmental responsibilities and embraces the principle of sustainable development to ensure that any adverse environmental impact of its activities is minimized. As an environment-conscious institution, the University promotes green practices both inside and outside the campus. The University as a family considers it as its collective responsibility to preserve the campus environment and undertake activities to ensure the harmonious well-being of both people and the environment and an effective learning experience for students. Keeping in lieu of these SDGs, Amity University Rajasthan has also taken initiatives for developing a green, clean, and sustainable campus through green practices, eco-friendly infrastructure with zero waste, energy efficiency and water conservation strategies, tree plantations and biodiversity conservation; and promoting sustainability research and environmental awareness among the students, faculty and staff.



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ECO-FRIENDLY GREEN SUSTAINABLE CAMPUS STRATEGIES AT AMITY UNIVERSITY RAJASTHAN

BIODIVERSITY & GREEN COVER MAINTENANCE:

“Nurture nature and nature nurtures us all”Paul Wheaton

Amity University Rajasthan also believes in ‘nurturing nature to save the future and follows conservation strategies to save and conserve biodiversity. Biodiversity is very important for sustainable development and a healthy environment. It is thus home for many endangered plants, birds, insects and animal biodiversity. The University has undertaken several initiatives for making an eco-friendly green sustainable and clean campus with the involvement of NSS, UBA, NCC student and staff volunteers.

- Enhancement in green cover by regular plantations, to date we have 15,000 trees
- Maintaining “Neem Forest” Cluster of 350 trees on a dedicated piece of 02 Acre land.
- Maintaining 02 acres plantation of Bamboo, a research trail of the Ministry of Agriculture – GOI grant.
- Kept 07-acre land untouched to maintain its century-old resident flora & fauna.
- The artificial lake is filled with treated water besides hosting 200+ geese.



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- MOU with NHAI for green belt maintenance.
- Polythene-free campus and ban on single-use plastics
- Conservation of State Tree '*Khejri*'
- *Swatch Bharat Abhiyan* & Clean campus activities by NSS
- Save Bird program by NSS



GREEN BELT AT AMITY UNIVERSITY RAJASTHAN

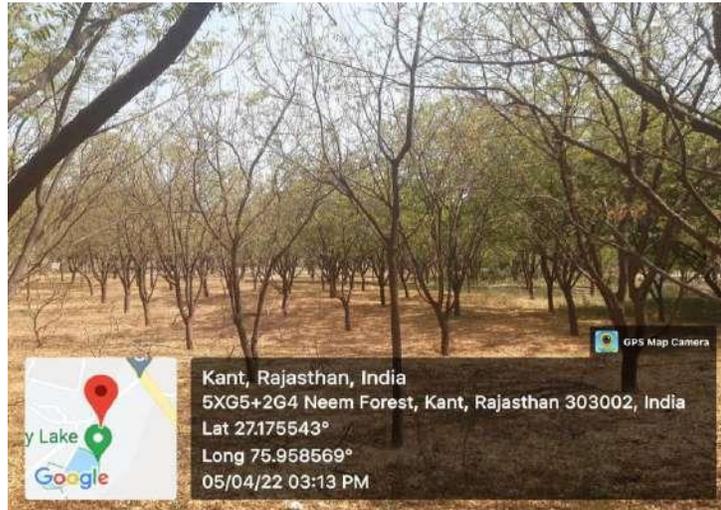
Neem Forest

Amity University Rajasthan has a conserved land where approx. 350 Neem trees have been planted in approx. 2 Acre land.

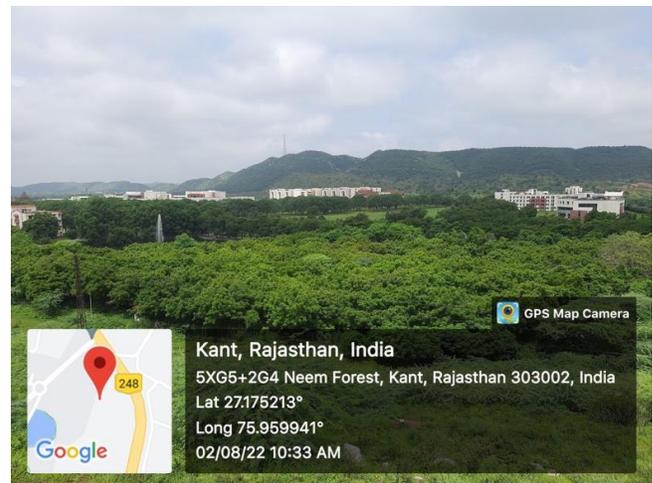
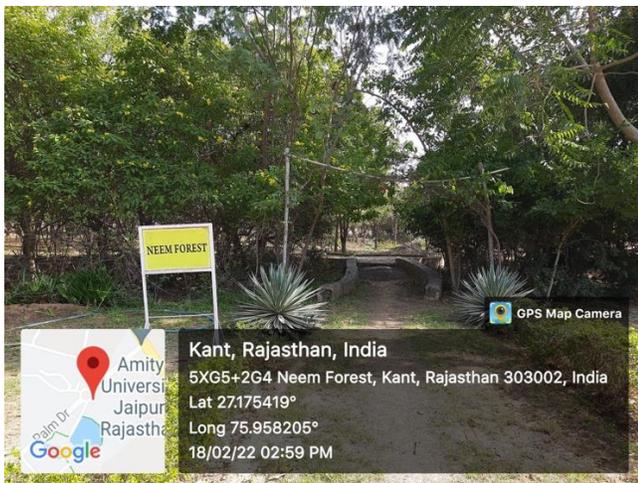


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Conserved Neem Forest in 2 Acre land



NEEM FOREST

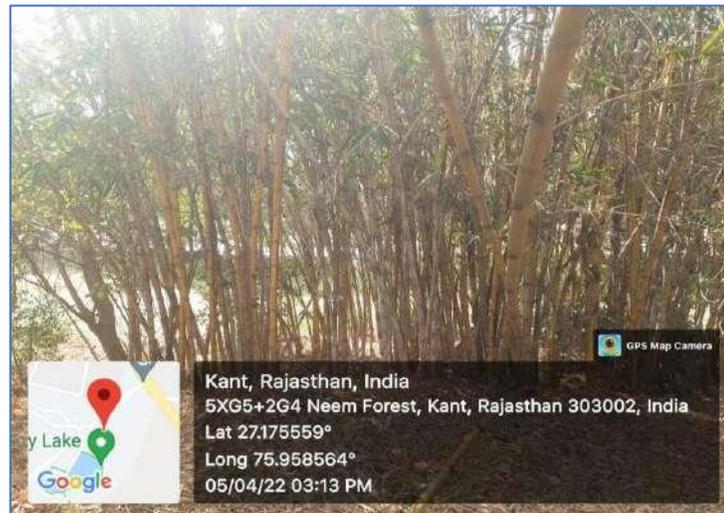


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Bamboo Forest

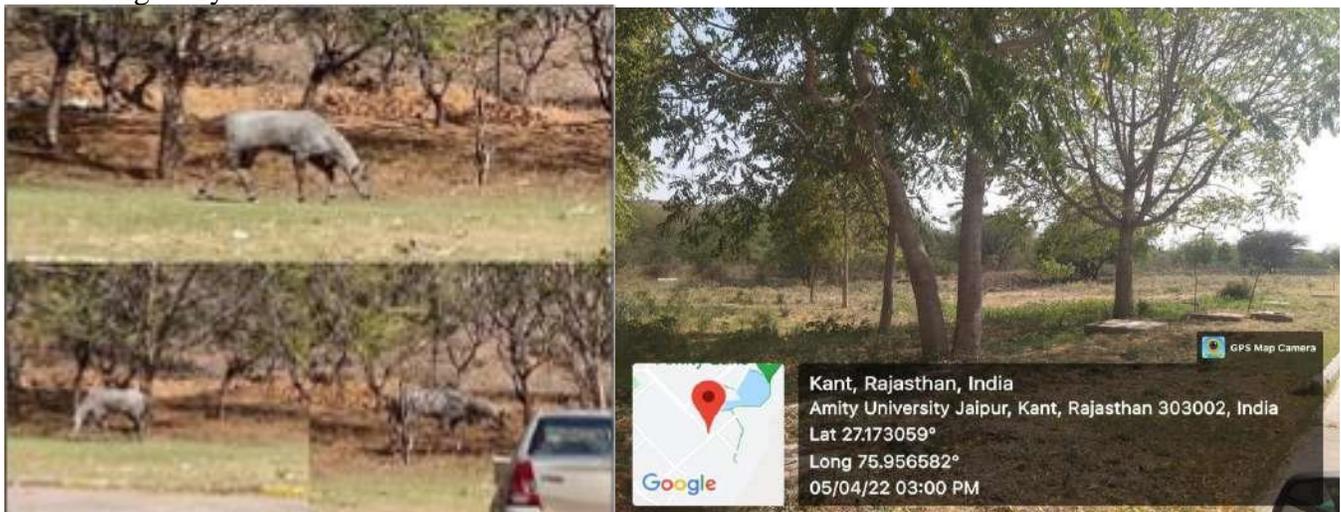
The Ministry of Environment and Forest Tree gave a project to Amity University Rajasthan for the plantation of Bamboo trees. The campus has a bamboo forest on approx. 2 acres of land. The land is conserved for bamboo trees.



Bamboo Plantation under MOEF project (Conserved area).

Conserved land for wild forest

- University has approx. 5 Acre land which's conserved for wild forest and native fauna comprising of Neelgai, Hyaena, Rabbits, Deer, Anteater, fox, reptiles, insects, and a huge diversity of native and migratory birds.



Conserved non-disturbed wild forest.



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RAINWATER HARVESTING ARTIFICIAL LAKE



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 GPS Map Camera

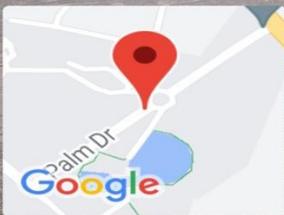


Kant, Rajasthan, India
Lake, Kant, Rajasthan 303002, India
Lat 27.17394°
Long 75.958281°
18/02/22 03:07 PM

ARTIFICIAL LAKE WITH GEESE



 GPS Map Camera



Kant, Rajasthan, India
AMITY BUSINESS SCHOOL, AMITY UNIVERSITY JAIPUR, Kant,
Rajasthan 303002, India
Lat 27.175353°
Long 75.957707°
01/08/22 12:18 PM



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PALM DRIVE AT AUR

CONSERVATION OF STATE TREE 'KHEJRI'

Prosopis Cineraria (Khejari)

Khejri is the state tree of Rajasthan. AUR has conserved *khejari* trees throughout the campus. Leguminous *Prosopis* trees play a great role in feeding humans in dry areas to prevent protein and mineral deficiency, especially during the famine period.



- Due to its location in the semi-arid region, priority has been given to the resident xerophytic “Draught Tolerant Plants” like Khejri (*Prosopis* sp.), Kikar (*Acacia* sp.), Babool, Kadam, Khajur (*Phoenix* sp.), Neem (*Azardiricta* sp.), Ber (*Ziziphus* sp.) Pipal, Gulmohar (*Delonix* sp.), Amaltash (*Casia* sp.), Kachnar (*Bauhinia* Sp.), *Albizia lebbek* Etc while planning green belt.
- Conservation and protection of State tree ‘Khejri’ has been given special emphasis
- Ornamental plants like Alstonia, Ashok, Night jasmine, Catharanthus, Bamboo, Jatropha, Christmas tree, and Henna hedges, add to the beauty of the campus
- Medicinal plants like Aonla, Tulsi, Guggul, Giloe, Meetha neem, Aloe vera, Neem, Karonda, etc are flourishing in campus and were of great importance during the Covid-19 pandemic for making Kadhas

REGIONAL TREES ON CAMPUS

Sr. No.	Hindi Name	Common Name	Botanical Name
1	छितवन	Alstonia	Blackboard Tree



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2	अमलतास	Golden Shower Tree	Cassia Fistula
3	अलनुस	Alnus	Alnus Glutinosa
4	नीम	Margosa	Azadirachta Indica
5	आंवला	Indian Gooseberry	Phyllanthus Emblica
6	चम्पा	Champak	Mangolia Champaca
7	कदम	Burn-flower Tree	Neolamarckia Cadmba
8	सागवान	Teak	Tectona Grandis
9	गुलमोहर	Delonix Regia	Royal Poinciana
10	अमलतास	Cassia Fistula	Golden Shower Tree
11	कचनार	Mountain Ebony	Bauthinia Variegata
12	छिरीष	Lebbeck	Albizia Lebbeckia
13	जत्रोफा	Nettlepurges	Physic Nut
14	िीिम	Indian Rosewood	Dalbergia Sissoo
15	खेजडी	Ghaf	Prosopis Cineraria
16	सफे दे	White Tree	Eucalyptusa
17	आम	Mango	Mangifera Indica
18	छिल्व	Stone Apple	Aefle Marmelosa
19	हरछसगार	Night Jasmine	Nyctcanthes Arbor-tristis
20	रात की रानी	Night Blooming Jessamine	Cestrum Nocturnum
21	मीठा नीम	Curry Tree	Murraya Koenigia
22	अिक	Ashoka Tree	Saraca Asoca
23	नींू	Lemon	Citrus Limon
24	िंूल	Gum Arabic Tree	Vachellia Nilotica
25	िहतूत	Mulberry	Morus Alba
26	खजूर	Date Palm	Phoenix Dactylifera
27	पीपल	Sacred Figa	Ficus Religiosa
28	छहना	Heena	Lawsonia Inermis
29	िंस	Bamboo	Bambusoideae
30	छिसमस वृक्ष	Christmas Tree	Araucaria Colimnaris



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BIODIVERSITY AWARENESS THROUGH NAME PLATES ON TREES





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Tree Plantation Drives

Regular tree plantation drives are organized by NSS and Unnat Bharat in the campus and nearby villages to keep the environment green and healthy.



Tree plantation drives at AUR



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PLANTATION DRIVE BY NSS

NSS has planted more than 750 plants at Amity University Rajasthan since last five years by the NSS units. Plantation is an essential task to breath in pollution free environment. Plantation drive is regularly organized by National Service Scheme Units of Amity University Rajasthan Jaipur.



PLANTATION DRIVE BY NSS VOLUNTEERS AT AUR





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एनएसएस स्वयंसेवकों की पहल

पक्षियों के लिए लगाए परिण्डे, पानी भरने का लिया संकल्प



चंदवाजी, परिण्डे लगाते अतिथि तथा स्वयंसेवक ।

पत्रिका न्यूज नेटवर्क
patrika.com

चंदवाजी, एक निजी विश्वविद्यालय के एनएसएस स्वयंसेवकों ने मंगलवार को यूनिवर्सिटी परिसर में पक्षी बचाओ अभियान के तहत पक्षियों के लिए परिण्डे लगाए। शुरुआत एनएसएस राजस्थान जयपुर के निदेशक एस.पी. भटनागर ने की। उन्होंने स्वयंसेवकों को राष्ट्रीय सेवा योजना की गतिविधियों में भाग लेने और एनएसएस नियमों का पालन करने के लिए प्रेरित किया। इसके बाद एनएसएस स्वयंसेवकों के लिए पीवीसी प्रोफेसर अमित जैन ने संबोधन दिया। उन्होंने स्वयंसेवकों को समाज के कार्य के लिए आगे आने को प्रेरित किया।

एसपी भटनागर, पीवीसी प्रो. अमित जैन और डॉ. नितिन भारद्वाज ने पहले परिण्डे बांधकर उसमें पानी डाला और उसके बाद अन्य शिक्षकों एवं स्टाफ और एनएसएस के स्वयंसेवकों ने परिण्डे बांधे। एमिटी कैम्पस में नीम के जंगल में पानी के साथ कई बर्ड फीडर रखे गए। पक्षियों को खाने के लिए अनाज और कीड़े आसानी से मिल जाते हैं, लेकिन ऐसे गर्म मौसम में पानी उनके लिए एक दुर्लभ आवश्यकता है। एनएसएस के समन्वयक डॉ. मनोज कुमार ने धन्यवाद ज्ञापित किया। कार्यक्रम में डीएसडब्ल्यू संजीव भाला, महेंद्र सिंह शेखावत, प्रो. राहुल त्रिपाठी, डॉ. कुमार संभव वर्मा आदि मौजूद रहे।



AMITY UNIVERSITY RAJASTHAN



Shri SP Bhatnagar being welcomed by PVC



Shri SP Bhatnagar addressing the volunteers



Tying the bird feeder and pouring water



NSS Volunteers learning about NSS Clap



Group Photo



Dr. Nitin Bhardwaj and DSW Shri SS Bhatnagar

Save Bird Programme



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NSS & UBA ACTIVITIES FOR GREEN CAMPUS INITIATIVES

Swachchata Abhiyan at Amity University Rajasthan Campus

As a part of special camp of NSS units at AUR, Swachchata Abhiyan is organized at Amity University Rajasthan campus regularly. The volunteers, teachers and staff members participated in this abhiyan. The participants were having banners in their hands with messages of cleanliness and hygiene. The participants collected the garbage in the recyclable polybags from the road side from AIB circle to faculty flats. The participants then removed congress grass from the area behind faculty flats E and F block. Finally the participants visited hostel area and collected garbage from that area.



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Selected pictures showing the Swachata Abhiyan at AUR campus



Group photo



Collecting the garbage



Volunteers collecting garbage



NSS coordinator Dr. Vinod Singh addressing the gathering



Participants started cleaning the campus



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Environmental Consciousness & Awareness Outreach Activities

SWACHCHATA ABHIYAN RAILLY

As a part of special camp of NSS units at AUR, Swachchata Abhiyan Rally has been organized in nearby village Shyampura, virat nagar and other villages. The NSS volunteers visited the village and a message of cleanliness and hygiene was spread among the villagers. The students interacted with several villagers. Afterwards they visited Government Senior Higher Secondary School, Shyampura, where they interacted with students of primary classes.



Swachhata Rally at Shyampura & NSS officials, school staff and students



Swachhata rally at Virat Nagar



AMITY UNIVERSITY RAJASTHAN

BAN ON THE USE OF PLASTIC

Amity University Rajasthan is always concerned about nature and therefore Polythene and other single-use plastic materials and packaging are totally banned on the campus.



AMITY UNIVERSITY

RAJASTHAN

Kirti Katar, NH-11-C,
Jaipur (Rajasthan) 303002
Tel: 31428-489678,
Fax: 31428-489679

No: AUR/RBG/May/2016/01 Date: 17/05/2016

Notice
(Banning of Polythene Bags and other plastic packings)

Environmental issues do need the attention and concern of all of us. Polythene bags and other plastic disposable plates/cups etc. are non-biodegradable and pose a serious threat to the environment. Advicees against use of such items in the AUR, Campus have earlier been issued and awareness programmes to make campus polythene/ plastic free were undertaken. However, it has been observed that off late few vendors have again started use of plastic cups/ plates/polythene bags, despite earlier advice against use of such hazardous items.

In a bid to make AUR campus an environmental friendly campus, all employees, Students and Vendors are hereby informed that use of plastic cups/ plates/polythene bags etc. within the university campus shall be banned from 23/05/2016 onwards. It is requested to make alternative arrangements and be involved in active awareness campaign.

All Deans/Directors/HoIs are requested to ensure wide publicity and motivate members of faculty/staff and students to make AUR a Polythene Free Campus.



Brig. S. K. Saeen (Retd.)
Registrar



Copies for kind information to:

1. Office of the Vice-Chancellor
2. Office of the Pro Vice Chancellor
3. Dy. Pro VC (Students/Faculty affairs)
4. OSD to Chancellor
5. All Deans/Directors/Dy. Directors/HoIs
6. Dean Students' Welfare & Campus Life -
7. Director - Administration -
8. Director - Hostels -
9. Dy. Director - Security -
10. Record File

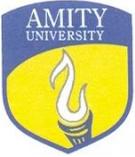
To instruct all vendors in the SRC and elsewhere on AUR Campus to comply with the decision and make arrangements.

Placards/ boards advertising against the use of plastic/polythene bag may be designed and put up at prominent places of campus, in consultation with Dean Students' Welfare.

To instruct all wardens to keep watch and accordingly counsel the students against the use of polythene bags.

It is requested to instruct the security guards at main gate to ensure that no material/goods are brought inside the campus in polythene bags.

Amity City Office: Amity House, 14, Gopabari, Ajmer Road, Jaipur - 302 001, Telefax- 3141-2372488, 2374111



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RAJASTHAN

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

Date: 1st Aug 2022

ALL VENDORS TO NOTE

Single Use of Plastic like Cups, plates, glasses, straw, cutlery, knives and any other item is prohibited inside Amity University Rajasthan Campus with immediate effect.

By Order:



(Gp Capt (Retd) A. Mudanar)
Director Administration
AUR

Amity City Office: Amity House, C-119, Lal Kothi Scheme, Behind Vidhan Sabha, JAIPUR (Raj) - 302 015 Tel. 0141-4735000, 2744350

NOTICE FOR PROHIBITING OF SINGLE-USE PLASTIC



AMITY UNIVERSITY RAJASTHAN

MOU with NH-11 C for Median Greenery: Amity University Rajasthan has also signed a MOU with NH-11C for greenery maintenance of 6 kms patch as an initiative of keep our society clean and green




MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (MoU) for median maintenance is between Chainage 6.00 to 11.200(5.2km)on NH-11C Delhi Jaipur road made on this 15...day of May, 2019 at Jaipur (hereinafter referred to as the Effective Date)"

BETWEEN

The President of India through ministry of Road Transport &Highways, Government of India represented by EE PWD NH DN.1 JAIPUR on behalf of Office of the Chief Engineer (NH),PWD Govt.of Rajasthan Jaipur ,hereinafter referred to as the Authority include its administrators ,successor and assigns of one part.

AND

Amity University Jaipur Rajasthan having its registered campus at Amity University Jaipur NH-11C Delhi Jaipur road, Kant Kalwar,Jaipur-303002, Rajasthan hereinafter referred to as the Other party.

NOW THIS MOU WITNESSETH AS FOLLOWS:
Following are the terms and conditions of MoU between Authority & Other parties.
The work to be done by the other party at his own extenditure are as following:-

1. Upkeep & Maintnerance of Median and Plants/Shurbs including-
(A)Regular cleaning of median.(4 to 7 Mtr width)




ATTESTED



दि. 21.02.2019 दिनांक 13/01/19.

श्रीमान का नाम: श्रीमती विष्णु विद्यालय अन्तर्गत ए.ए. हाईवे (मध्य)

पिता/पति का नाम: श्री. विष्णु देवराज शर्मा

विवरण: अन्तर्गत हाईवे

काल: 15/05/19

श्रीमती विष्णु देवी स्वामी
जी. आर. पटेल
पु.स. तालुका जालोर (राजस्थान)

ए.ए. हाईवे
फोटो - श्री विष्णु देवराज शर्मा
पंजीयन नम्बर: 1555
(M) 9596852757

विवरण	अंश	मूल्य
1. अन्तर्गत हाईवे	100%	1000/-
2. अन्तर्गत हाईवे	100%	1000/-
3. अन्तर्गत हाईवे	100%	1000/-
4. अन्तर्गत हाईवे	100%	1000/-
5. अन्तर्गत हाईवे	100%	1000/-
कुल		5000/-

श्रीमती विष्णु देवी स्वामी
व्यक्तिगत रूप से

MOU with NH-11 C for Median Greenery



AMITY UNIVERSITY

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NH-11 C MEDIAN GREENERY MAINTENANCE BY AMITY UNIVERSITY RAJASTHAN



AMITY UNIVERSITY

RAJASTHAN



Kant, Rajasthan, India

Jaipur Amity University, Kant, Rajasthan 303002, India

Lat 27.176955°

Long 75.960215°

02/08/22 10:20 AM

NH-11 C MEDIAN GREENERY MAINTENANCE BY AMITY UNIVERSITY RAJASTHAN



AMITY UNIVERSITY RAJASTHAN

3. WASTE MANAGEMENT

University is managing its waste by adopting environment-friendly practices:



Solid waste management: On Campus, biodegradable green litter waste is decomposed and recycled into compost in Compost Pits, and food waste supplies to nearby piggeries, dry waste is collected by a municipal empanelled vendor, and a sanitary napkin incinerator is installed in the girls’ hostel for safe disposal of sanitary pads.



Garbage house on the campus



Sanitary Pads Incinerator in Girls hostel



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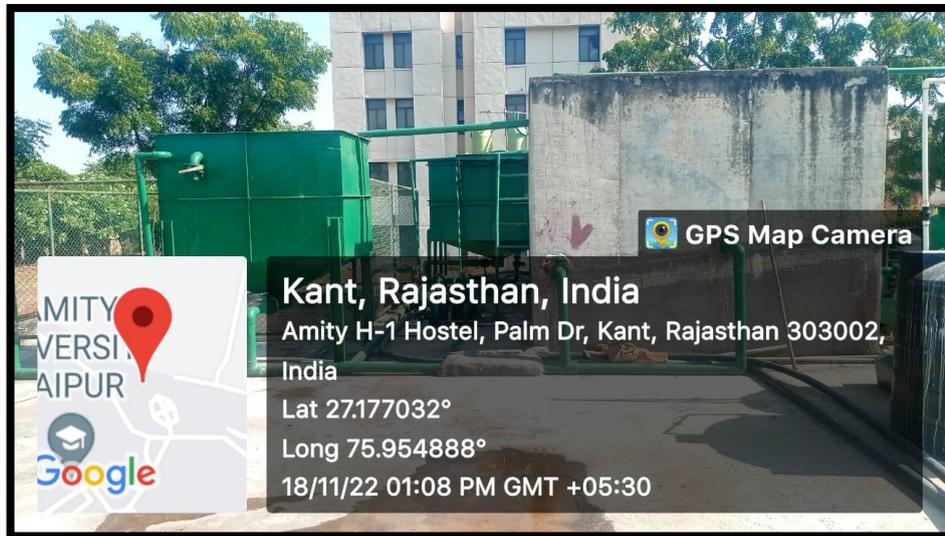
- **Liquid waste management:** University Liquid waste and laundry effluent is treated through an in-house Sewage Treatment Plant (STP) & Effluent Treatment Plant (ETP) set up on the campus with a capacity of 7.5 lakh LPD. On-campus Artificial Lake receives the treated water and supplies to sprinklers & pop-ups for watering its green belt and using it as a coolant in the cooling towers of its central AC unit. Carp fish has been introduced in the lake to maintain the water ecosystem.



Sewage Treatment Plant (STP)



Artificial Lake with fountain



Effluent Treatment Plant at AUR

- Parameters of the treated water have been validated by third party external test periodically
- An average data of treated water through STP and ETP from 2019 to 2021 is mentioned in below table



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Amity University STP & ETP 2019 to 2021

Treated Water Lake (Ltr.) Per Day											
Treated Water Chiller (Ltr.) Per Day											
Treated Water Flushing for Hostel (Ltr.) Per Day											
ETP Water for Lake (Ltr.) Per Day											
2019				2020				2021			
Lake	Chiller	Flushing	ETP to Lake	Lake	Chiller	Flushing	ETP to Lake	Lake	Chiller	Flushing	ETP to Lake
372354	0	0	17064	395806	0	65225	10935	134193	0	14709	741
587964	0	0	18428	374775	0	70285	11821	171071	0	12857	3750
488967	0		17032	938580	0	33354	5032	295806	8612	29032	8709
436200	39935		17066	620066		14833	933	22366	10133	45966	4700
439129	54433	24033	13548	37612	0	12741	0	140645	0	18838	0
240533	48935	50064	10400	121400	11400	14133	0	44333	0	18033	0
299935	37900	39200	8967	63774	0	12516	0	128612	0	14419	0
237033	33161	200129	10700	103322	3290	10838	1290	29354	0	14354	0
339238	38433	154266	10193	37933	0	22900	1300	101000	0	2110	0
194709	20129	119516	8870	140032	0	37580	1548	99258	8774	15290	8548
106233	1700	134833	5161	139333	0	16233	3433	78333	0	22800	5733
419677	0	80064	5548	135741	0	14709	1161				
Average		463141				292151				140451	

Efficient utilization of treated STP year wise

QUALITY LAB
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Gurgaon - 122 001 (NCR) India
Lab Tel.: 0124-4384380-1
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9810098791
Visit us at : www.qualityanalyst.net
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CRISIL Rated
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CIN : U85195DL2003PTC121385
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Certificate of Analysis

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

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

Remarks: The no. of parameters tested is 08 only. The report is issued subject to the terms & conditions as mentioned over leaf.

Chemist

Authorized Signatory

QUALITY LAB is a trademark and fully owned unit of **Quality Analyst & Labs Pvt. Ltd.**
Office : 382, Vardhman Charve Plaza-5, Plot No. 20, KP Block Commercial Centre, Pitam Pura, New Delhi-110088
 Exclusive representatives in South Asia for Green Seal, Inc., 1001, Connecticut Avenue, NW, Suite, 827, Washington, DC, US
 Exclusive representatives in India for Sens Aqua, Naeringshagen No. 7340, OPPDAL, Norway
 Exclusive representatives in India for Femko Technical Control and Certification Ltd., Izmir, Turkey for CE Marking

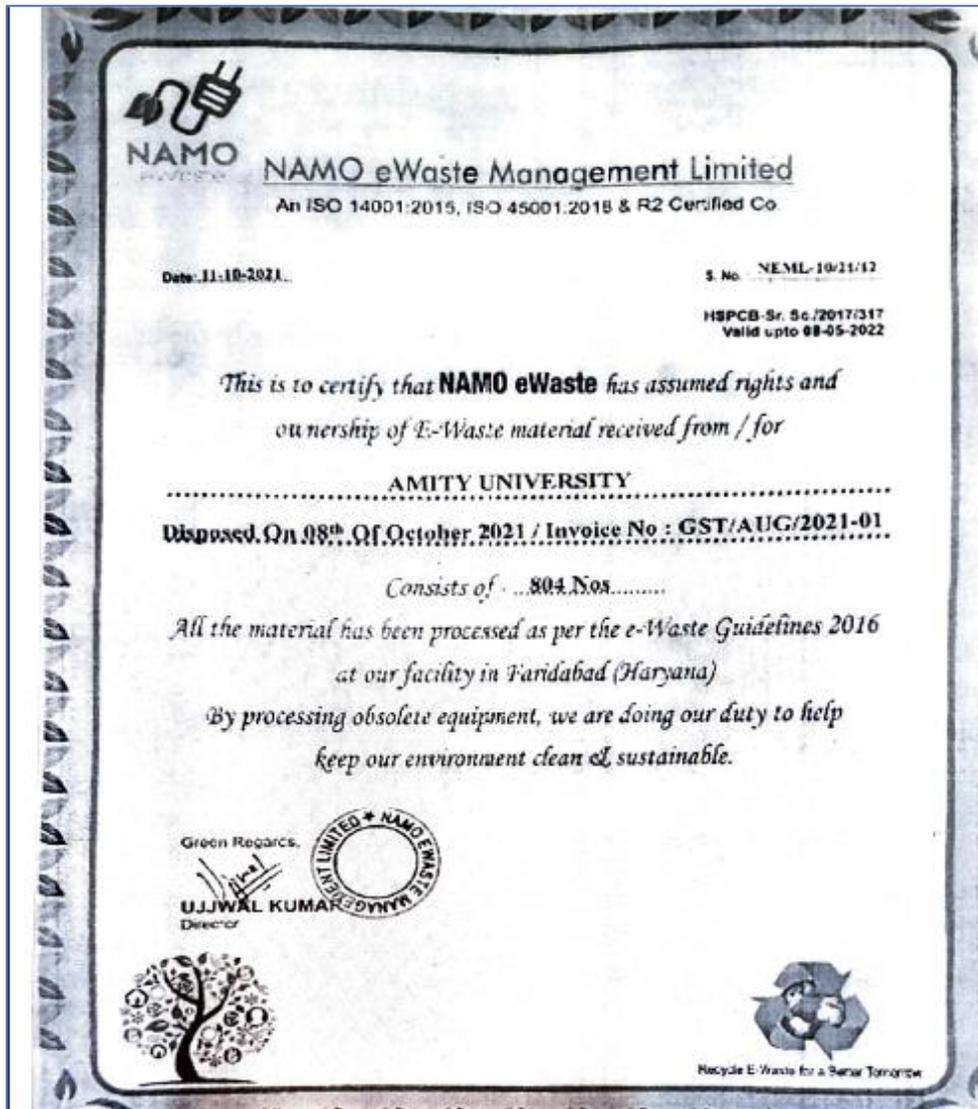
Certificate of STP water test report



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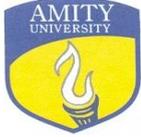
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- **E-Waste Management:** Electronic waste is disposed of through M/ s Namo E-Waste Management Limited, an ISO 14001:2015, ISO 45001:2018 & R2 Certified Company based in Faridabad.



Certificate of Electronic waste disposal through M/s Namo E-Waste Management Limited, an ISO 14001:2015, ISO 45001:2018 & R2 Certified Company

- **Biomedical waste management:** University is having DBT – IBSC, a medical investigation facility and respective laboratory biomedical waste is disposed of through Standard Practices.



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No : BT/IBKP/540/2021

Dated: 09-Dec-2021

OFFICE MEMORANDUM

Subject : Nomination of DBT representative in the IBSC of Amity University Rajasthan (AMITY-R-775), Jaipur.

1. In accordance with the Notification of the Ministry of Environment and Forests vide Gazette Notification No. GSR 1037 (E) dated 05.12.1989, notified under the E.P. Act 1986, the Department of Biotechnology (DBT) had evolved the "Regulations and Guidelines on Biosafety of recombinant DNA Research and Bio containment, 2017" for achieving personnel and environmental safety in the use of genetically manipulated organisms in research, manufacture and applications. The constitution of the Institutional Biosafety Committee (IBSC) is mandatory in R&D Centers at the institutions/ universities/ industries/ any other organization which intends to carry out or are engaged in research activities involving genetic manipulation of genetic materials, microorganisms, plants or animals.
2. In conformity with the above, institutions engaged in genetic engineering research constitute their IBSCs and the department nominate its representatives in all such committees. Accordingly, **Dr BHARTI MALHOTRA, Sr. Prof. and Head, Dept of Microbiology, SMS Medical College, Jaipur, Jaipur, RAJASTHAN** has been nominated to act as a DBT representative in the IBSC constituted at Amity University Rajasthan (AMITY-R-775), SP-1, Kant Kalwar, RICO Industrial Area, NH-11C, Jaipur, Rajasthan, Jaipur, RAJASTHAN-303002.

The complete composition of the IBSC is as under:

Chairman	: Dr Vinay Sharma, Chairman, Jaipur, RAJASTHAN
DBT Nominee	: Dr BHARTI MALHOTRA, Sr. Prof. and Head, Dept of Microbiology, SMS Medical College, Jaipur, Jaipur, RAJASTHAN
Member Secretary	: Dr Manali Datta, Member Secretary, Jaipur, RAJASTHAN
Outside Experts	: Dr M. Krishnamohan, Outside Expert, Jaipur, RAJASTHAN## Dr Nilima Kumari, Outside Expert, Sawai Madhopur, RAJASTHAN
Biosafety Officer	: Dr Sudhir Mehta, Biosafety Officer, Jaipur, RAJASTHAN
Internal Experts	: Dr Dush deepak Singh, Internal Member, Jaipur, RAJASTHAN## Dr G.K.Aseni, Internal Member, Jaipur, RAJASTHAN## Dr Sanket Kaushik, Internal Member, Jaipur, RAJASTHAN

3. The DBT nominee serves as link between department and the respective IBSC. The nominee should ensure that:
 - handbook on IBSC, Third revised edition, September 2020 is followed by IBSC,
 - the committee has been constituted as per the norms of the guidelines,
 - the Recombinant DNA Safety Guidelines are strictly followed in the company,
 - the IBSC meets regularly (at least twice in a year) to review the ongoing activities and provide yearly reports to RCGM/ DBT in the prescribed proforma,
 - all the activities within the purview of the guidelines are in the knowledge of RCGM/DBT and to guide the IBSC on biosafety issues.
 - the IBSC will follow the 'Simplified Procedures/Guidelines on Exchange (inter-state and inter-institutional supply/ receipt within India), Import and Export of Genetically Engineered Organism and Product(s) thereof for research Purpose', as per Department's OM dated 22.09.2015 and its revised version issued vide DBT OM dated 17.01.2020.
4. He/she will work for 3 years on the respective committee. On the expiry of term of nominee, institution/ organizations are required to reconstitute its IBSC in prescribed proforma.
5. The DBT, on the expiry of the term of its nominee shall re-nominate or appoint a new nominee, and such nomination shall be communicated to the institutes/ organizations.
6. Any special invitees to IBSC should be communicated to RCGM/ or taken prior approval.
7. The IBSC of the institution will meet at least twice in a year. The institutes having the IBSC are required to submit yearly report of progress (1st January to 31st December) within one month, following the expiry of the period of Progress Report to the DBT for enabling the proper monitoring and consolidation of this information by the RCGM and the Government.
8. The institute will meet the TADA & honorarium to the DBT nominee as per the GOI norms.


Member Secretary,
RCGM, DBT

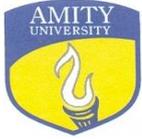
To
Dr Vinay Sharma, Chairman, Jaipur, RAJASTHAN

Copy to:

1. Dr BHARTI MALHOTRA, Sr. Prof. and Head, Dept of Microbiology, SMS Medical College, Jaipur, Jaipur, RAJASTHAN
2. Dr Sudhir Mehta, Biosafety Officer, Jaipur, RAJASTHAN
3. Office Copy
4. Guard file


Member Secretary,
RCGM, DBT

डॉ. नितीन कुमार जैन / Dr. NITIN K. JAIN
वैज्ञानिक 'एच' / Scientist 'F'
संयंत्रण/संयंत्रण विभाग / Dept. of Biotechnology
विज्ञान और प्रौद्योगिकी, मंत्रालय / M/o Science & Tech.
राज्य सरकार, नई दिल्ली / Govt. of India, N. Delhi



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➤ Hazardous chemicals and radioactive waste management:

- A committee for the purchase, storage, usage, and disposal of hazardous materials/chemicals has been constituted.
- Oil and lubricants are used for the DG sets (s/by power supply), disposed of through a licensed vendor.

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Kant Kalwar, NH-11-C,
Jaipur (Rajasthan) 303002
Tel: 01426-405678,
Fax: 01426-405679

No. : AUR/REG/5472 Date : 02/07/2021

Committee
To Prepare Policy for Purchase, Storage, Usage & Disposal of Hazardous Materials/Chemicals

A committee is constituted, as under, to prepare 'Draft Policy of AUR for Purchase, Storage, Usage & Disposal of Hazardous Materials/Chemicals'.

1. Prof. Vinay Sharma	Dean - Research	: Presiding Officer
2. Prof. P.V.S. Raju	Director-Amity COAST and Chairman-Professional Code of Ethics Committee	: Member
3. Prof. Pankaj Kumar Pandey	Professor & Coordinator - ASET	: Member
4. Dr. Deepansh Sharma	Assistant Professor - AIMT	: Member
5. Dr. Parul Yadav	Scientific Officer - AUSIC	: Member
6. Mr. Ravikant Pachauri	Manager - IT, AKCDS	: Member

Members of committee are requested to :

(a) Peruse the 'Guidelines' issued by the University Grants Commission (UGC) on the subject and incorporate the instructions/suggestions during framing the 'Draft Policy'.

(b) Cover/incorporate comprehensive procedures related to Purchase, Storage, Usage and Waste Disposal of Radioactive and other Hazardous Materials/Chemicals in the 'Draft Policy'.

(c) Incorporate the guidelines for disposal of 'Electronic Waste' in the 'Draft Policy'.

The 'Presiding Officer' of the committee is requested to submit the 'Draft Policy', latest by EOD 09/07/2021 (Friday).


Dr. Nitin Bhardwaj
Registrar



Amity City Office: Amity House, C-119, Lal Kothi Scheme, Behind Vidyan Sabha, Jaipur - 302 015, Telefax- 0141-2372480, 2374111



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Head Office (HSW)
Rajasthan State Pollution Control Board
 4, Institutional Area, Jhalana Doongari, Jaipur-302 004
 Phone: 0141-5159600, 5159695 Fax: 0141-5159697

Registered

File No : F(HSW)/Jaipur(Jaipur)/53(1),2009-2010/s200-c202
 Order No: 2018-2019/HSW/4062
 Date: 24/01/2019
 Unit Id : 1634

Maheshwari Petro Chemicals (3079846034)
 G-681, Road No. 9 F 2, Vishwakarma Industrial Area,
 Jaipur
 District: JAIPUR

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.
 Your application for Consent to Operate dated 05/12/2017 and subsequent correspondence.

VALID FOR PURCHASE ON 2/9/2019

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 Maheshwari Petro Chemicals plant situated at G-681, Road No 9 F 2, Vishwakarma Industrial Area Jaipur Tehsil/Jaipur(VEGA) District:JAIPUR, Rajasthan, subject to the following conditions:-

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- That this Consent to Operate is valid for a period from 01/02/2018 to 31/01/2023.
- 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
REFINING OF USED OIL	Product	3,600.00 KLA

- 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.
- That the quantity of effluent generation along with mode of disposal for the wasted effluent shall be as under:

Vimol
MAHESHWARI PETRO CHEMICALS

Page 1 of 5

Disposal of Oil and lubricants are used for the DG sets through Ms Maheshwari petrochemicals



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Dated 29.07.2021

OFFICE ORDER

To comply the store, use and disposal of hazardous material in labs of AIB following duties are assigned to the lab staff in addition to their regular duties:

1. Mr. Balu Ram: He will maintain the hazardous material in lock and key with stock register.
2. Mr. Rajesh and Mr. Sultan: They will collect agarose gels from each lab at 3.00 PM and then discard followed by autoclave on daily basis. They are responsible for gel discard from all labs of AIB. Mr. Rajesh will take care of it from 1st to 15th day of every month and Mr. Sultan from 16th to 31st day of every month.
3. Mr. Mahesh and Sultan will be responsible for discard of biological materials after autoclave on daily basis from 1st to 15th day of every month. Mr. Rajesh and Mr. Mohan Lal will be responsible for discard of biological materials after autoclave on daily basis from 16th to 31st day of every month.
4. The Lab-incharges of the respective lab will supervise the above said work.


Prof. Vinay Sharma
(Director, AIB)





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4. WATER CONSERVATION PRACTICES:

Maintenance of water bodies and distribution system in the campus

- The University has five Academic Blocks, one Student Resource Centre, Five Hostel Blocks, Six faculty Blocks, One Staff Quarters Block.
- AUR has total 13 Nos. of borewell located at various locations.
- All borewells are fitted with water flow meters for measurements of daily water consumption. This helps in monitoring and control of water usage.
- Water from borewell first goes to underground tanks. From underground tanks, water is pumped to overhead tanks of academic/hostel blocks.
- Water coolers with aquaguards are fitted in all the hostels and academic blocks for drinking water.
- There are 50 overhead tanks (both RCC and Sintex) and 08 underground tanks.
- Overhead tanks supply water to all occupants of buildings. All the overhead tanks are fitted with water level indicator and alarming units for ease of information to the plumbers for switching On/off, thus avoiding spillage and wastage of water.
- There are total 9 plumbers of Amity University who will take care of the maintenance work.
- There is a complaint register for all the residents, they write their complaint in the register which will be rectified by these plumbers.



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)

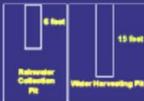


Borewell

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.



10 feet
Top View



6 feet
13 feet
Water Collection Pit
Water Harvesting Pit
Side View



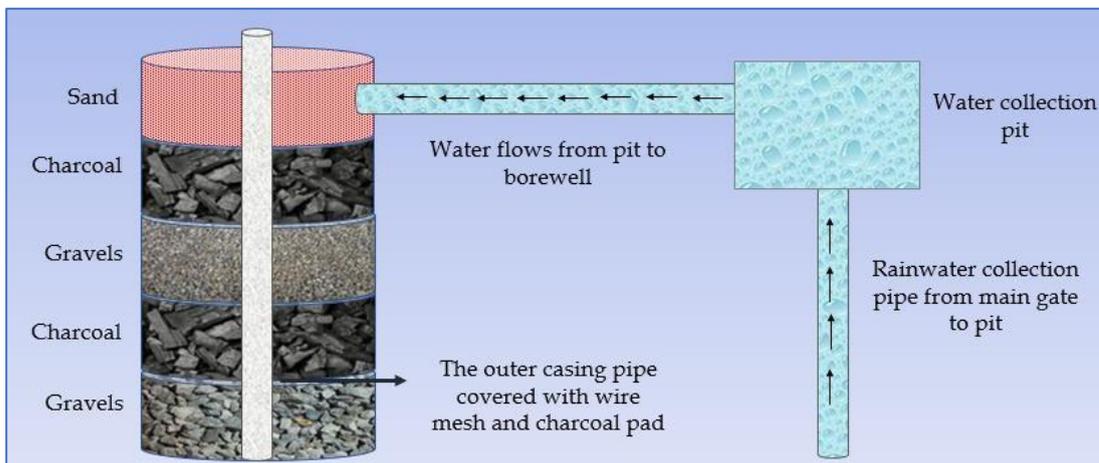
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Amity University Rajasthan has sound planning for water use and management of water resources and is committed not only to reducing the use as well as its recharging/refilling by the below-listed initiatives.

Borewell Recharge Pits: The purpose of the borewell recharge pit is to

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



Material & Diagram of Collecting and Recharge pits





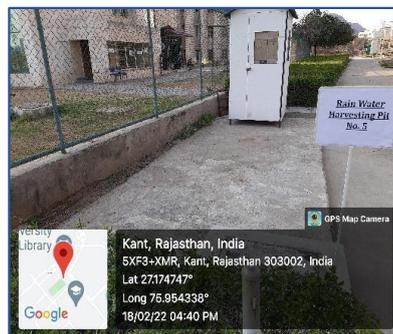
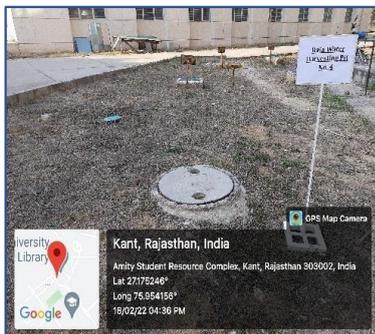
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Rainwater flows into the recharge pit

Rainwater harvesting

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



Rain Water Harvesting Through Recharge Pits at Amity University Rajasthan



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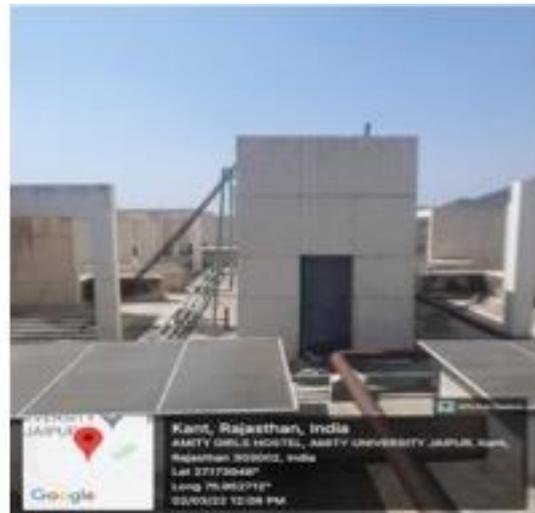
Construction of tanks and bunds

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

- Water is supplied to various buildings through a network of underground sumps and overhead tanks. Water from the borewell is pumped to the underground tanks, from the underground tanks it is pumped to the overhead tanks. There are a total of 34 overhead tanks (both RCC and Sintex) and 08 underground tanks. Plumbers work in shifts to ensure adequate supply to each building.
- Aquaguard are installed in water dispensers. Wastewater is channelled to STP plant and after treatment is utilized for flushing, horticulture and in chiller plants.
- One bore well recharge Tank has been created and other near the rear gate. This will help in collection and harvesting of rain water.



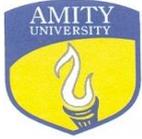
Underground Tank



Overhead Tank

Water Harvesting Lake:

A manmade water-harvesting lake contributing towards conservation of natural resources is located in the heart of Amity University Rajasthan. The artificial lake gets treated water from the Sewage Treatment Plant. Rainwater from terraces of buildings, and other low lying areas also



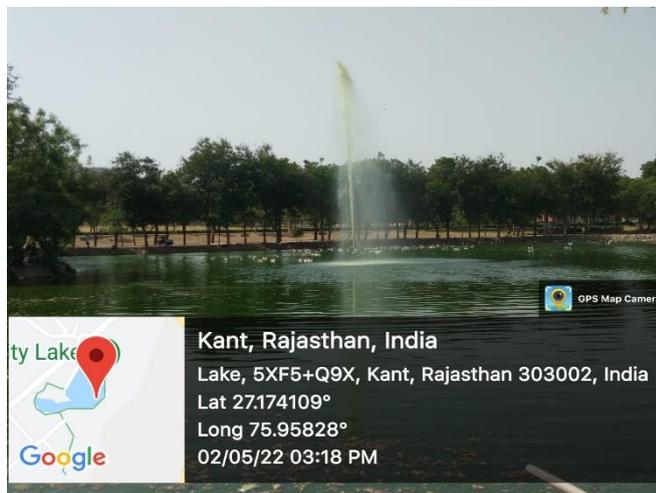
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flows to this lake. This water is used for horticulture, thus ensuring literally zero wastage of water. The artificial water harvesting lake created stores treated water for horticulture purposes. The lake water for horticulture is pumped from the lake for auto Irrigation system. It attracts beautiful migratory birds thus enhancing the biodiversity and overall ecosystem of the University campus.



Water Harvesting Lake at Amity University Rajasthan



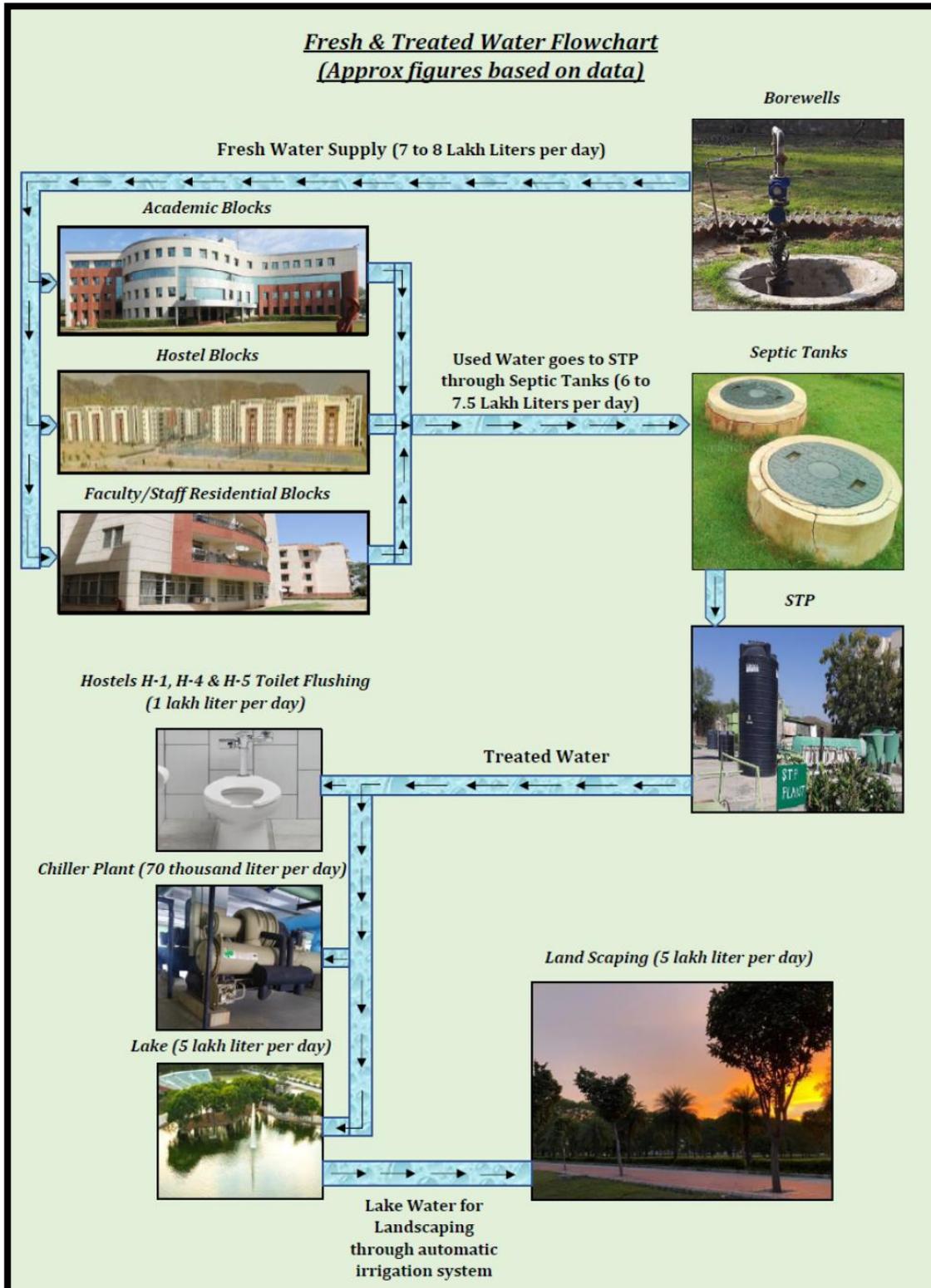
Fountain in the lake for manual aeration

Wastewater Recycling



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- The liquid waste generated in the campus is from sewage of labs, residential and canteen facilities, hostels and laundry. The above waste is treated through a Sewage Treatment Plant (STP) and Effluent Treatment Plant (ETP) of 7.5 lakh LPD available in the campus.
- Water after treatment, is sent to a treated water lake, from where it is used for horticulture through an auto irrigation system. Fountains in the lake ensure proper aeration and as the process of use is dynamic, stagnation



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does not occur negating bad odor.

- Carp fish are there in the lake which prevents any algae growth by consuming the same, thus keeping the lake clean.
- Treated water is also used for the cooling tower of chiller plants and for the flush system of four hostels (Hostel-1, 2, 4 & 5).
- The sludge settled in STP is removed and is dried on drying beds and used as manure for the gardens. Therefore, the entire wastewater generated in the campus is treated and reused.

5. ENERGY CONSERVATION PRACTICES:

Besides reducing dependency on fossil fuel university has taken initiative to switch towards alternate resources & carbon neutrality and thus reducing carbon footprints:

- **Solar energy:** On-Campus Solar Park with a ground tracker to keep panels in front of the sun throughout the day, generate 40 % of campus energy requirement, Net metering is available and excess solar power is sent to the JVVNL grid.
 - On-Campus Solar Park – Generate 40 % of required energy.
 - Solar energy of nearly one MW generated through ground terrain based and roof top solar panels of Academic blocks and SRC.

Roof top Solar panels are installed on terraces of various buildings and a ground tracker system is also installed. An electricity bill of JVVNL is attached which itself means a permission document connecting to the grid from electricity department and wheeling to the grid. Environment saving data through Solar system is attached.

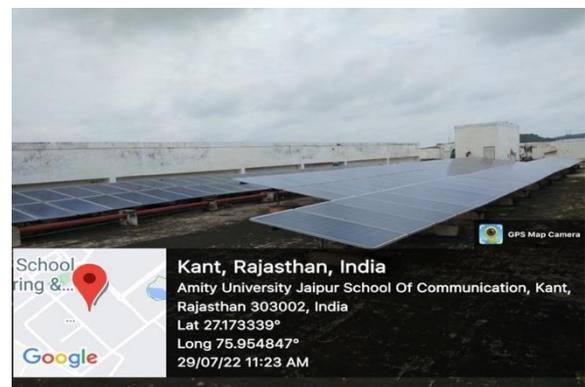


GROUND TRACKER SOLAR PARK

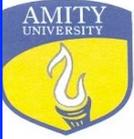


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Roof-top Solar panel



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E-27, Defence Colony, New Delhi-110024
Tel: 011-41888000 Fax: 011-24339500

Date - 15.03.2017

To,

Clean Max Enviro Energy Solutions Pvt. Ltd.
1511, Prasad Chambers
Pandit Pataskar Chowk, Opera house, Mumbai - 400004

Kind Attn: **Kuldeep Jain, Managing Director**

Sub: Letter of Intent (LOI) for supply, installation, commissioning and maintenance of rooftop Solar PV Power Plant at Amity University - Jaipur campus under a Build, Own and Operate and Transfer (BOOT) agreement for a period of 12 years.

Dear Sir,

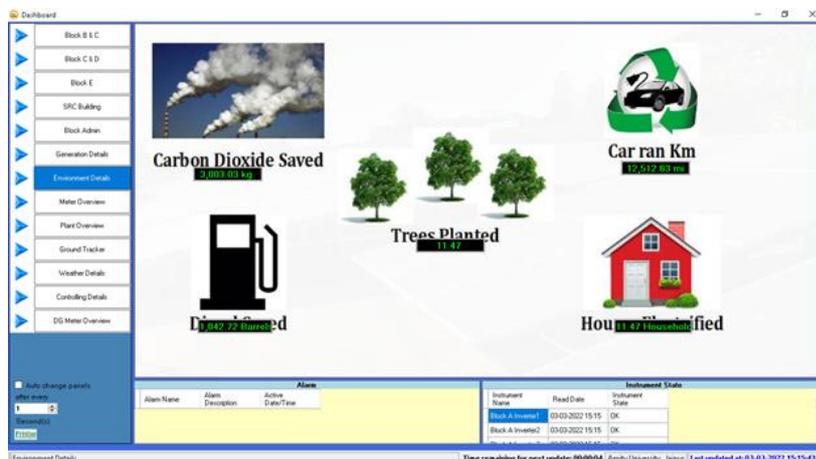
This is with reference to the on-going negotiations on rooftop solar plant at Amity University Rajasthan. We are pleased to convey our approval for implementing the solar PV plant and issuing this LOI for supply, installation, commissioning, operation and maintenance of rooftop solar PV plant at Amity University Rajasthan in Jaipur under a BOOT model.

Further to this LOI, both parties will enter into a Power Purchase Agreement (PPA) on the terms and conditions mentioned in the attached term sheet.

<p>For and on behalf of - Amity University Rajasthan</p> <p>Through its authorized representative</p>  <p>Name: Mr. Ajay Chauhan Title: Member - Executive Board Ritmand Balved Education Foundation (RBEF)</p>	<p>Accepted by - Clean Max Enviro Energy Solutions Pvt. Ltd.</p>  <p>Name: Kuldeep Jain Title: Managing Director</p>
---	--

Amity University Campus: 'A'-9 (Dahli - Jaipur Highway), Kant Kalwar, Jaipur-305002, Rajasthan. Tel: 01426-222835/222832. Fax: 01426-222836
Amity City Office: Amity House, 14, Gopal Bari, Ajmer Road, Jaipur-302001, Rajasthan. Tel: 0141-2378293. Fax: 0141-2372489. Website: www.amity.edu

LOI FOR SUPPLY,INSTALLATION,COMMISSIONING AND MAINTENANCE OF ROOF TOP SOLAR POWER PV PLANT AT AUR



Wheeling to the Grid

Net metering is available and excess solar power is sent to the JVVNL grid. An electricity bill of JVVNL has been attached which itself means a permission document connecting to the grid from the electricity department and wheeling to the grid.

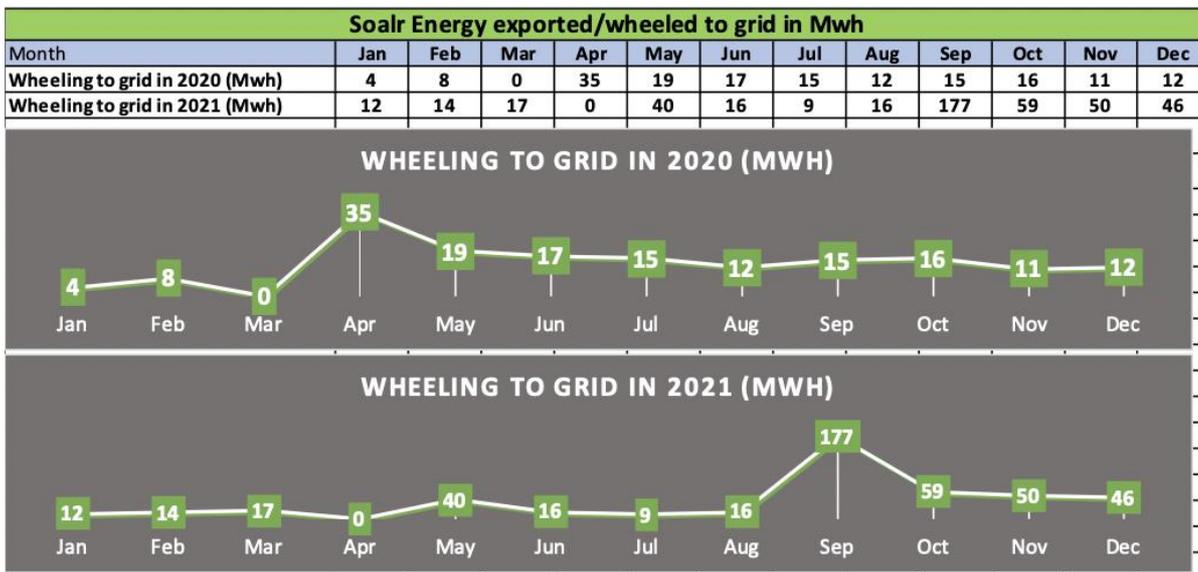


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AMITY UNIVERSITY RAJASTHAN				
Amity Power Management				
Month	Units Received from DISCOM MVAh	CO2 Generated tonnes	Units Generated by Solar MVAh	CO2 benefit due to Solar tonnes
January, 2021	93	77	106	88
February, 2021	80	66	117	97
March, 2021	129	107	144	119
April, 2021	95	79	160	133
May, 2021	67	56	134	112
June, 2021	79	65	141	117
July, 2021	220	183	123	102
August, 2021	215	178	129	107
September, 2021	46	38	99	82
October, 2021	128	106	123	102
November, 2021	62	52	100	83
December, 2021	90	74	76	63
Total	1303	1081	1451	1204

Page 1





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Sensor-

JAIPUR VIDYUT VITRAN NIGAM LIMITED PAN NO-AAABCJ6373K ; GSTIN-08AAABCJ6373K127 , HSN Code :-2718					
Office of Issue	Name & Address	AEN_OM_KUNDA RJ RISHAB AMBEDI	E-mail	Office code	2105240
Bill for Grid Connected Rooftop & Small Solar Photovoltaic System (SSPVS) (Consumer Copy) TollFree Complaint Center No:1800-180-8607					
BILL No	102112746	BILL Month	202110	BILL Status	R
BILL issue date	09/10/2021	Due date	18/10/2021	Consumer Status	R
1	Name & Address of consumer-Rishab Bahad EDUCATION FOUNDATION VILL-KANT-KALWAR AMITY UNIVERSITY RAJASTHAN NH-11C JAIPUR-303002 null		1	SSPVS Generator Meter No	8341406
2	Mobile Number:	9910221808	2	Meter Status	R
3	Email ID:	mrbnjs@amity.edu	3	Present KWH Reading	13645.83
4	Binder No/ Account No.	03010034	4	Previous KWH Reading	12121.84
5	K. No.	210524024337	5	Difference (3-4)	1524.19
6	Service No	0	6	Multiplying Factor (MF)	150
7	RSN	0	7	Net Generation KWH (3-4)*MF	177316
8	Tariff Code	2011Xn	8	Net Exported Units(KWH) to DISCOM	0
9	Category	NDS-RT	9	Net Exported & unadjusted Units (KWH)- S.F(max +100)	0
10	Feeder Code	2252974	10	Units Adjusted against Bill/ Payment	0
11	Security Amount	8940522	11	Net Exported & unadjusted Units (KWH)- C.F for Next Billing (+100 Units)	0
12	Meter Security Amount	0	12	Energy Charges	404085.89
13	MAC of PFY	0	13	Fixed Charges	504225
14	Supply Voltage	33000	14	Demand surcharge	0
15	Metering Voltage	33000	15	Power factor surcharge/incentive	-14143
16	Sanctioned Connected Load(KVAHP)	3200(KVA)	16	Amount of Unauthorized Use	0
17	Installed capacity of solar P.G (KW)	966.4	17	CT/PT Rent	2200
18	Contract Demand	2490	18	Transformer Rent	0
19	Ownership of Meter	B	19	Others if any/Parallel Charges	0
20	Billing Period	1	20	(i) Voltage Rebate	-12122.57
21	Date of meter reading	01-10-2021	21	(ii) Solar/Sprinkler/Rural Rebate/DefHCC	-1136.95
22	Date of Previous reading	01-09-2021	22	Total Nigam Dues (Sr No 12 to 20)	865381.07
23	Bi-directional meter No.	437965	23	Electricity Duty	124653.36
24	Current Recorded Meter Details	KWH Export(b)	KWH Import(a)	24	WCC
25	Meter Status	R	25	UC	22297.5
26	Present KWH Reading	16203.32	26	Other Debt/Credit Nigam Dues	0
27	Present KVAH Reading	20641.81	27	Other Debt/Credit Electricity Duty	15704.84
28	Present KVA	12.04	28	Other Debt/Credit WCC	0
29	Previous KWH Reading	10282.5	29	Other Debt/Credit UC	0
30	Previous KVAH Reading	10868	30	Other Debt/Credit LED/Deferred Payment Scheme	89052
31	Difference KWH (26-29)	5910.82	31	Amount Adjusted (Code)	0
32	Difference KVAH (27-30)	9973.81	32	Total Amount (Sr No 21 to 30)	1137088.57
33	Multiplying Factor (MF)	30	33	Outstanding Amount of Previous Bill	0
34	Total KWH Import/Export	177315.6	34	Deferred Amount (DEF 2nd Instalment)	0
35	Total KVAH Import/Export	299214.3	35	(i) Tariff Subsidy	0
36	Tr. Losses (KWH)	0	36	(ii) Hall/Brown/Other Subsidy	0
37	Tr. Losses (KVAH)	0	37	Amount (Sr no 31+32-33-34)	1137088.57
38	Tr. Losses (KVA)	0	38	Amount of Solar Power Purchased	0
39	Net Import/Export (KWH)	0	39	Amount of Solar Power Adjusted against Bill(Bundry)	0
40	Net Import/Export (KVAH)	-75219.3	40	Amount of Solar Power Payable to Consumer	0
41	Net Import/Export (KVA)	0	41	Amount Payable By consumer up to Due Date	1137089
42	Billing Demand	0	42	LPS/DPS	19465.94
43	Power Factor	0.995	43	Amount Payable After Due Date (Sr No 39 + 40)	1156555
44	Billed Units	0	44		

Sig-Ledger Keeper (LK)	Sig-ARO	Sig-AEN
Counter Foil of the Bill of Grid Connected Rooftop & Small Solar Photovoltaic System (SSPVS)		
Name of Consumer	Rishab Bahad EDUCATION FOUNDATION VILL-KANT-KALWAR	Remarks:
BILL Month	202110	Bill No
K. No.	210524024337	Mode of Payment Cash/Cheque No
102112746		102112746
Binder No/ Account No.	03010034	Payment Date
03010034		18-10-2021
SDO Code	2105240	Amount Payable By consumer up to Due Date
2105240		1137089
		Amount Payable After Due Date
		1156555

based energy conservation
 Amity University Rajasthan has Sensor Based Energy

Conservation technology to ensure maximum energy conservation

- AUR has a Ground tracker solar system of 500 Kilowatt which sense and monitor the moment of Sun and accordingly the Solar panels moves as per direction of Sun. It generates more electricity due to an increased direct exposure to solar rays and provides maximum efficiency. A Geotagged photo of Solar park and weather sensor station is attached.
- AMF Panel: AUR has a 1500 Kilowatt AMF (Automatic Main Failure) panel at substation-II which automatically starts when main supply cuts from JVVNL and switches off automatically when the supply comes. It runs DG sets under synchronization as per load and saves diesel consumption. The Geotagged photo of the panel is attached.



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Weather sensor station



AMF PANEL

Use of LED bulbs/power-efficient equipment

LED lights can be up to 80% more energy efficient than conventional bulbs, and waste far less energy than other styles of lighting. The LEDs require less power than regular forms of lighting, so obviously the less energy they require, the more positive the effect on the environment. Therefore, Amity University Rajasthan has started converting conventional bulbs to LED lights.

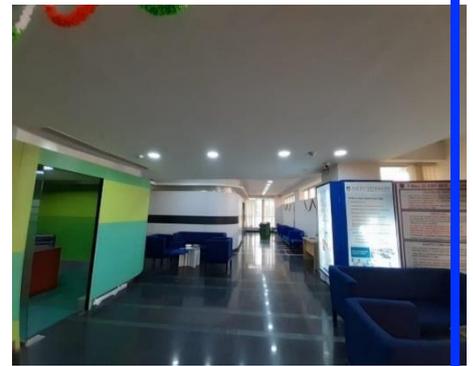
- Phase wise replacing existing lamps with LED lamps to reduce electricity consumption is under process.



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- In the first phase, corridors of all blocks and Street lamps were converted to LED from the main gate to the ABS circle. LED lights for the replacement of heavy-duty security lights are ongoing.
- The University also initiated to the installation of Road lights (LED) on NH-11 in a patch of almost one and a half kilometres.



LED SETTINGS AT DIFFERENT SITES AT AUR

Carbon emission reduction initiatives

- The solar projects are expected to generate over 2,762,388 kWh units per annum of electricity cumulatively, thereby abating 2,265 tons of carbon dioxide annually for the next 25 years.
- Shifting from Tube lights to LED Lights by 2023 (entire campus)
- AUR has already replaced 1840 nos. of old fittings (inclusive of all types like security, panel, and normal tube lights) with new LED in a period of 24 months i.e., from Mar'2019 to Feb'2022 saving approx. 780 units daily.
- Total CO₂ emissions reduced by using LEDs was 211093 Kg in 2021
- Since all buildings on campus are at a walkable distance, walking and cycling are great ways to get around the campus.
- Restricting movement of Cars within the campus and encouraging Faculties/Staff/Students to use bicycles within the campus.
- As an initiative toward carbon neutrality, emphasis is on the use of Battery-Operated Cars, golf carts, and E-rikshaw within the campus premises
- Restricting the use of Chiller plant during winter.



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Use of battery-powered vehicles, E-Rickshaw, Golf carts & bicycles

- The faculty, staff and students always encourage using the E-vehicle and Bicycle to avoid unnecessary pollution.
- The Amity University has battery operated vehicles like golf carts and E-Ricksha for usage of all.



Golf Carts



E-Rikshaw



Bicycle stand



Bicycle racing



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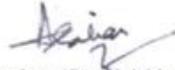
Board Proceeding for contract renewal

E-RIKSHAW SERVICE

Accr/Atanin) F.364

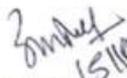
Date: 14.10.2019

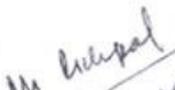
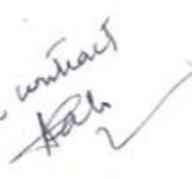
1. The E-Rikshaw facility has been provided for students & residents of campus to alleviate their walking from main gate to hostels/residential areas.
2. This is a welfare measure and a local vendor M/s OM Seemawat being inside the campus had to be persuaded to run the same. Vendors from outside were reluctant to run this venture.
3. The charges are Rs 5/- per person and in case of heavy piece, or luggage is carried Rs 5/- is taken extra. No fee is taken from the vendor as very normal income accrues, considering his investment in the venture & keeping a driver.
4. While a formal contract is not deemed necessary, a final terms contract is given just to avoid any untoward incident.
5. The contract is recommended for extension from 07 Sep 2019 to 06 Sep 2020.


Gp Capt (Retd.) A Mudalliar
Member


Dr. Nitin Bhardwaj
Member


Prof. Amit Jain
Presiding Officer


President


Mr. Deepal
PI: prepare contract




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Kant Kalwar, NH 11C,
Jaipur (Rajasthan) 303002
Tel : 01426-405678
Fax : 01426-405679

THIS AGREEMENT OF LICENSE IS MADE AND EXECUTED AT JAIPUR ON THIS 15 Oct 2019.

By and Between

AMITY UNIVERSITY RAJASTHAN, JAIPUR herein after called "First Party"

AND

Mr. Lal Chand Sharma, resident of Seemawaton ki Dhani (Tikanpura) Post - Bhanpur Kalan Tehsil - Jamuaramgarh, Distt - Jaipur (Rajasthan) - 302028 hereinafter called the "SECOND PARTY".

WHEREAS

- (a) The First Party has established a residential Campus at Kant Kalwar, NH-11C, Jaipur Delhi National Highway, Jaipur-303002.
- (b) The Second Party is Service Provider.
- (c) The First Party wishes to engage the Second party namely **Mr. Lal Chand Sharma** to provide E-Rickshaw Services in his Campus.

THIS AGREEMENT WITNESSETH AND IT IS AGREED TO AND BY THE PARTIES HERETO AS UNDER:-

1. **NATURE OF RELATIONSHIP:** SECOND PARTY is engaged as an independent contractor and must not be taken to be in partnership or in a joint venture with the FIRST PARTY.
2. **TERMS OF THIS AGREEMENT:**
 - (a) This Agreement shall be valid WITH EFFECT FROM 07th Sep 2019 and shall remain in force till 06 Sep 2020.
 - (b) The term of this Agreement can be extended for a further period of 12 months on completion of the present agreement and conditions as mutually satisfactory to both parties.

Contd..2/-



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6

3. **SCOPE OF SERVICES:** The scope of services shall be to provide E-Rickshaw Services at Amity University Rajasthan as the details elaborated further in this agreement.

4. **SERVICE LEVEL AGREEMENT:**

(a) Second Party will provide E-Rickshaw service for 12 hrs from 9 a.m. to 9 p.m daily. The time may be changed as per requirement.

5. **E-Rickshaw Rates.** The rates for E-Rickshaw Service are as under :-

- (a) Rs 5/- per person from any point to any other point within the campus.
(b) Rs 5/- per piece of Luggage like Suitcase/Bag of big size.

6. **TERMINATION:**

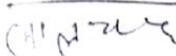
(a) That in case of deficiency in quality of service or default in providing of E-Rickshaw service, the agreement is liable to be discontinued by giving 30 days notice by the First party to the Second Party in writing. Similarly, if Second Party desires to discontinue the services for whatever reason, the Second Party will be required to give 30 days' notice to the First party in writing.


Gp Capt (Retd) Ajoy Mudaliar
Director Administration
AMITY University Rajasthan, Jaipur



Accepted


Witness


Mr. Lal Chand Sharma
Service Provider
Seemawaton ki Dhani (Tikampura)
Post - Bhanpur Kalan Tehsil -
Jamuarangarh, Distt - Jaipur
(Rajasthan) - 302028

Mob No 9772461704

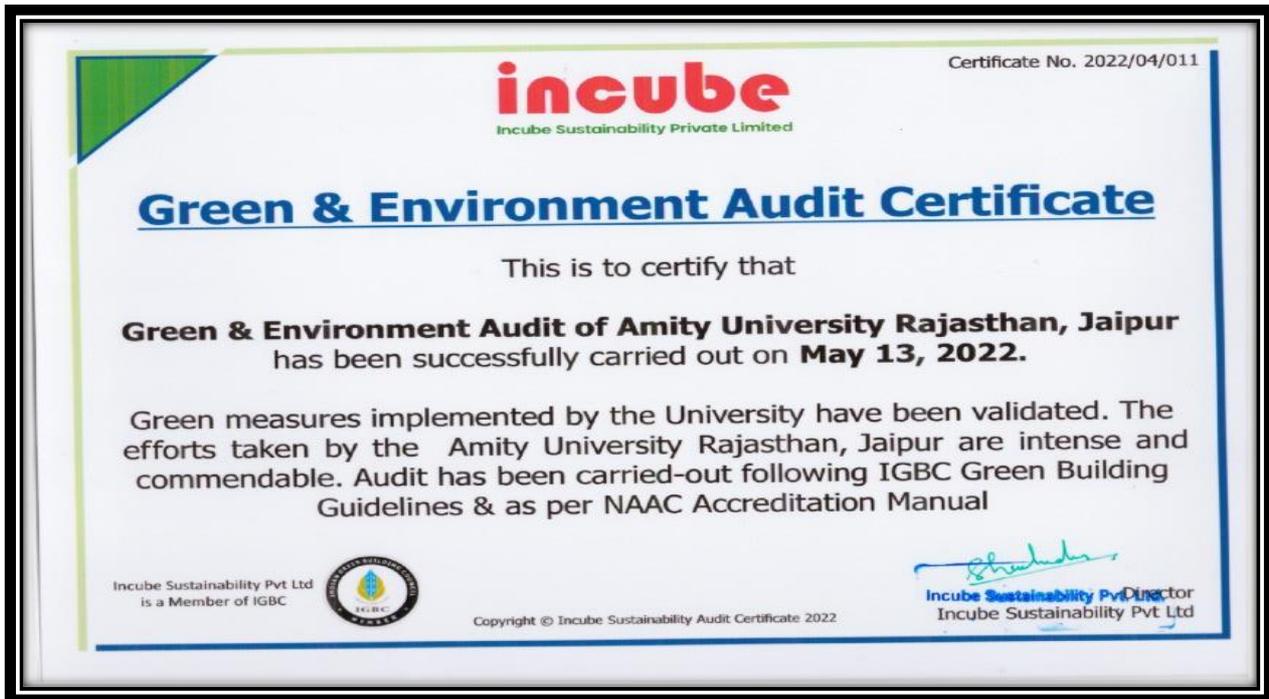


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6. ENVIRONMENTAL, ENERGY, WATER AND GREEN AUDIT

- University performs an internal and external environment, energy, water, and green audit to evaluate and strengthen its practices.



7. CLUBS & CLUSTERS: University encourages faculty and students of various clubs to organize activities to take up environmental issues for creating awareness and possible abatement.

- Environment Protection/Enviro-act Club
- Photography Club
- Fine Arts & Crafts Club
- Yoga & Meditation Club
- Hiking & Cycling Club
- Horse Riding Club



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- Sports Club

Environment Protection club/ Enviro-Act Club

Due to the burning environmental issues like pollution, depletion of natural resources, and global warming, globally, there is a need to spread environmental awareness by addressing the issues through the youth. Hence, the University has the Environmental Club to inculcate a sense of responsibility among the students toward the environment, biodiversity & resources conservation and sustainability. The club engages eco-friendly activities for the preservation and conservation of the ecosystem, energy & water conservation through quizzes, poster and collage competitions.

09th April 2018

To,

Maj. Gen. C P Singh (Retd.)
Dean Student Welfare & Campus Life
AUR, Jaipur

hobby club/ env. prot. club/2018-01

Subject: To organize event under 'Environment Protection Club' of Hobby Clubs.

Dear Sir,

An event 'EOPREZ' is being proposed in order to observe the Earth Day i.e. 22 April 2018. Detail of the event is given below:

Event name: ECOPREZ
Date of Event: 23 April 2018
Event Aim: to provide a platform to the students of the university to present their scientific ideas to improve environmental awareness of Earth and talk about the reigning issues like Water depletion in major cities such as Capetown and other top ten regions, Water scarcity, Air pollution, etc.
Event Description:
The following are the detailed description of the event:

- The event would be held in the form of competitive exhibition.
- Students can participate in groups (not more than three) and individually.
- Ideas can be presented in the form of hand-made/printed/digital posters.

Innovative ideas in the following fields are invited:

1. Green Power
2. Sustainable Development
3. Recycling
4. Waste Management
5. Water Conservations, etc

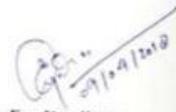
E-certificates would be provided.

Venue(expected)- ASET SEMINAR HALL
Expected number of participants- 25

Submitted for your kind approval please.

Thanking you,


Dr. Manishita Das Mukharji
Club Leader


Dr. Era Upadhyay
Reserve Club Leader

D/Sw Recommended

Dr. Manishita Das Mukharji 10/04/18

Dr. Era Upadhyay 8/4/18

Dr. President 10/4

Dr. President



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Event name: **ECOPREZ-18**

Date: 23 April 2018

Time: 2:00 – 3:00 pm

Venue: ASCO seminar hall

Organised by: **Environmental Protection Club**



Faculty Coordinators:

1. Dr. Manishita Das Mukherji
2. Dr. Era Upadhyay

(mdmukherji@jpr.amity.edu)
(eupadhyay@jpr.amity.edu)

Student Coordinators:

1. Deepanshu Sharma
2. Jainam Jain
3. Alpa Rajput
4. Nitigya Mathur
5. Suryapriya U.
6. Chayan Patra

(dipanshu4m@gmail.com)
(jainam.jain@student.amity.edu)
(alparajput2015@gmail.com)
(nitigyamathur@gmail.com)
(suryapriyau297@gmail.com)
(patra2chayan@gmail.com)

Social media accounts:



<https://eco-club.tumblr.com>



https://www.instagram.com/environment__club

Poster for the event:

ECOPREZ
Exhibition cum Competition

DATE: 23 APRIL 2018
VENUE: ASCO SEMINAR HALL
TIME: 2:00 - 3:00 pm

- Troubled times call for ingenious innovators.
- Present your ideas to get started and do your part to save the Earth.
- Create Your Pledge, Lets Find an Alternative.

Free Participation @

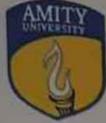
Faculty Coordinators:
Dr. Manishita Das Mukherjee: 9950340740
Dr. Era Upadhyay: 9772815546
 environment__club

Student Coordinators:
Deepanshu: 7597912184
Nitigya: 7976821395
 eco-club.tumblr.com



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Kant Kalwar, NH-11C,
Jaipur (Rajasthan) 303002
Tel : 01426-405678
Fax : 01426-405679

AUR/AIB/ENV/02

Date: 08-04-2021

Superseding office Letter No. AUR/AIB/ENV/01 dated 4/11/2019 the Environment Club "Enviro Act Club" of Amity Institute of Biotechnology, Amity University Rajasthan, Jaipur is re-constituted as under:

Chairperson

1. Dr. Era Upadhyay Associate Professor, AIB

Members

2. Dr. Shweta Kulshreshtha Associate Professor, AIB
3. Dr. Vigi Chaudhary Assistant Professor, AIB
4. Dr. Sunil Kumar Assistant Professor, AIB

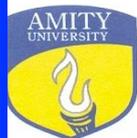
Student Representatives

5. Ms Sakshi Kalyani B.Tech. Biotechnology, IV Sem.
6. Ms Malavika Vino B.Sc. Biotechnology, IV Sem.
7. Mr Arun Vijayan B.Tech. Food Technology, VI Sem.


Prof. Vinay Sharma
Director, AIB, AUR.



Amity City Office : Amity House, C-119, Lal Kothi Scheme, Behind Vidhan Sabha, Jaipur-302015 (Rajasthan)
City Office Phone No. : 0141-4735000, 2744350



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Enviro-Act Club

Name of the Event: - ECOPHILIC VIDEO PRESENTATION

Department: - AIB

Date of the Event: - 15-05-2021

Online Platform: - Google Meet

Outstation Participants (A): - 5

In-house Participants (B): - 19

Total number of Participants (A+B): - 24

Faculty Coordinators: -
1. Dr.Shweta Kulshreshtha
2. Dr.Vigi Chaudhary

Student Coordinators: -
1. Ankit Mangal
2. Varun Bhardwaj
3. Sajan Kesari
4. Shivansh Agrawal

Result of the Event: -

Sr. No	Name of the Participant	College/University	Position
1	Rhythm Pallikonda Gori Kulshreshtha (tie), Akshat Kulshreshtha, Garvit Kulshreshtha	Amity University of Rajasthan	1 st
2	Rajat Gupta Sasmitha Sharma	Amity University of Rajasthan	2 nd
3	Awadhesh Pareek	Amity University of Rajasthan	3 rd

List of the participants: -

Sr. No	Name of the participant	College/University	Email address
1	Anurag mishra	Amity University Rajasthan	anurag.mishra.0220@gmail.com
2	Suvankar das	Amity University Rajasthan	suvankard789@gmail.com
3	Aakriti goyal	Amity University Rajasthan	aakritigoyal14@gmail.com
4	Rhythm Pallikonda	Amity University Rajasthan	Rhythmpallikonda@gmail.com



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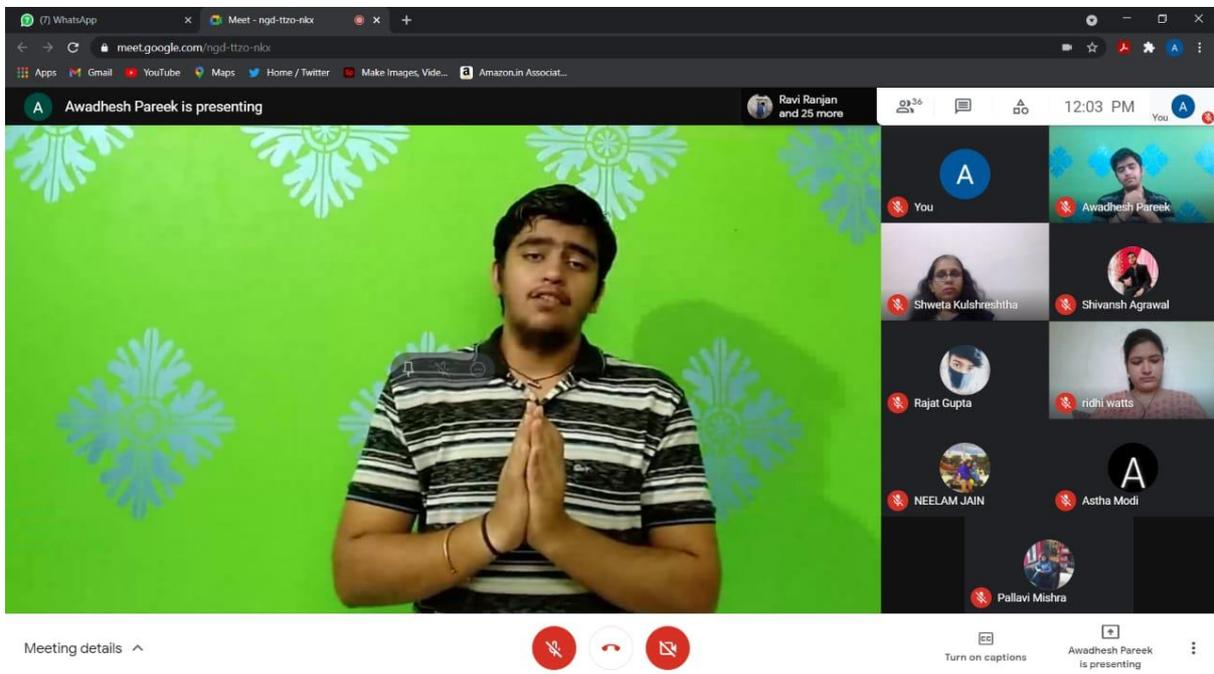
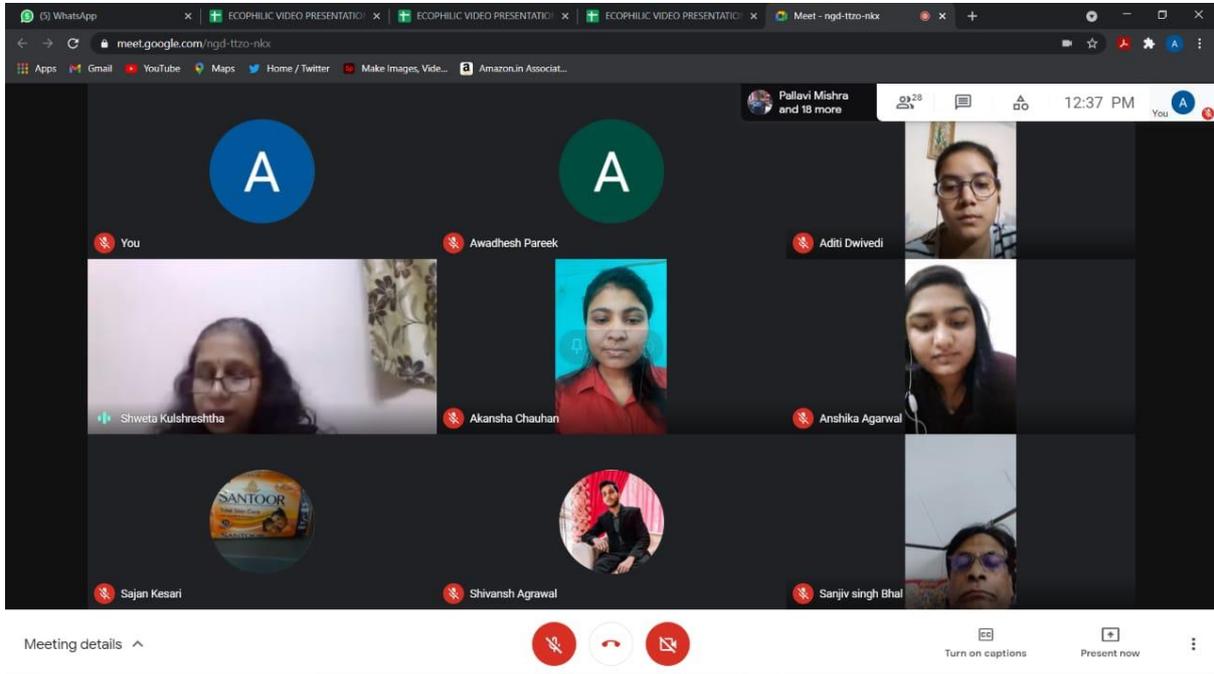
5	Mansi Banerjee	Amity University Rajasthan	mansibanerjee8@gmail.com
6	Anshika Agarwal	Amity University Rajasthan	anshikaagarwal631@gmail.com
7	Aditi Dwivedi	Amity University Rajasthan	dwivediaditi22@gmail.com
8	Akansha Chauhan	Amity University Rajasthan	akanshachauhan066@gmail.com
9	Ridhi Watts	Amity University Rajasthan	wattsridhi@gmail.com
10	Anshika Singh	Amity University Rajasthan	anshika2568@gmail.com
11	Rajat Gupta	Amity University Rajasthan	sanjeev061072@gmail.com
12	Sasmita Sharma	Amity University Rajasthan	sasmita.s.2402@gmail.com
13	Awadhesh Pareek	Amity University Rajasthan	ritapareek1995@gmail.com
14	Krati Gupta	Amity University Rajasthan	radhikaguptakrati@gmail.com
15	Akshat Jain	Amity University Rajasthan	akshatjain0402@gmail.com
16	Shubham Swami	Amity University Rajasthan	shubham.swami1@s.amity.edu
17	Kichad Manisha kumari	Amity University Rajasthan	themanisha017@gmail.com
18	Prashant Yadav	Amity University Rajasthan	yprashant1509@gmail.com
19	Khushi shekhawat	Amity University Rajasthan	khushishekhawat@gmail.com
20	Manan Jain	JK Lakshmipat University, Jaipur	mananjainnn@gmail.com
21	Akshat Kulshreshtha	St. Teresa's School, Jaipur	akshatkulshreshtha2006@gmail.com
22	Manvi Sharma	JK Lakshmipat University, Jaipur	manvidp07@gmail.com
23	Gori Kulshreshtha	Kendriya Vidhyalaya, Jaipur	minakshikulshreshtha20040511@gmail.com
24	Garvit Kulshreshtha	Mother Teresa world school, Jaipur	kk.nishu1975@gmail.com



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Some Glimpses of the event:





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The screenshot shows a Google Meet interface during a presentation. The top browser window displays the meeting URL: `meet.google.com/ngd-ttzo-nkx`. The meeting title is "Meet - ngd-ttzo-nkx" and the time is 12:38 PM. The main content area shows a grid of participants. A large video feed on the left shows a woman, Shweta Kulshreshtha, presenting. The slide she is presenting contains the following text:

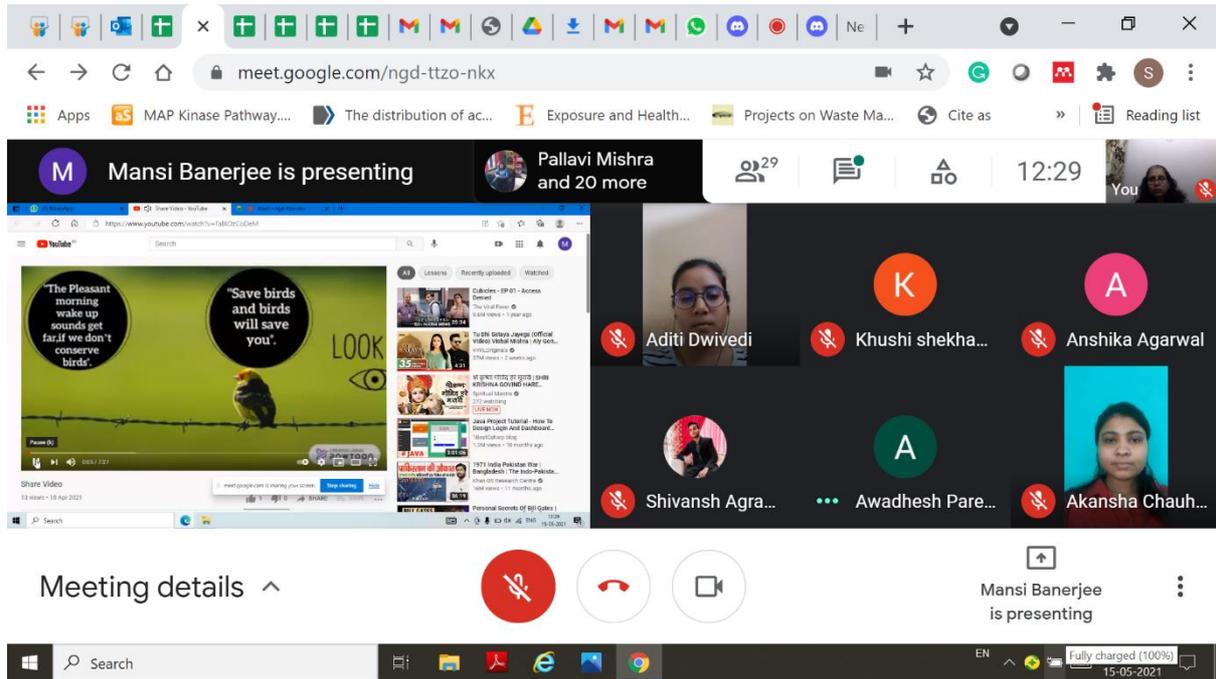
THE NUMBER OF TREES HAS DIMINISHED TO A GREAT EXTENT. TREES ARE OUR ONLY SOURCE OF OXYGEN IN THE EARTH; CLEARING TREES AND PLANTS RESULTS IN DEPLETION AND A DECREASE IN THE AMOUNT OF OXYGEN AVAILABLE IN THE AIR. THIS PUTS THE ENTIRE HUMANITY AT RISK. BY FACILITATING THE GROWTH OF TREES, THE GREENERY CAN BE RESTORED. THE LOSS MADE CAN BE COMPENSATED.

The slide also features an image of a forest with a large tree in the foreground. The bottom part of the screenshot shows a different view of the meeting, where Aakriti Goyal is presenting. The slide content is the same as above. The meeting title is "Aakriti Goyal is presenting" and the time is 12:15. The bottom taskbar shows the Windows operating system with the date 15-05-2021 and time 12:15.



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Amity Centre for Ocean and Atmospheric Science and Technology (COAST):

This Centre is the first of its kind in the state of Rajasthan to promote interdisciplinary R&D on climate-related research, has Environmental Monitoring Facility (EMF) & High-performance computing facility which is supported by India Meteorological Department (IMD), in New Delhi.

Programmes organized by COAST:

Rajasthan Science Congress: Climate Change Vulnerability Assessment and Adaptation” track was organized under 5th Rajasthan Science Congress during 13-15 October, 2017. The main objective is to promote Science & Technology and to create innovation capacity among the people and generate excellence for sustainable development in the state of Rajasthan. Under this track, to understand climate change science, uncertainties, its implication on various sectors such as agriculture, water resources, biodiversity, health, energy and tourism etc. This conference also brings the synergies among the distinguished researchers/scientists and policymakers in the area of climate change research.



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5th Rajasthan Science Congress (RSC) 13-15 October 2017

India Meteorological Society Jaipur Chapter was initiated at Amity University Rajasthan on 14 October 2017. The objective is to establish the IMS Jaipur chapter to promote interdisciplinary on Research weather and climate for the semi-arid state of Rajasthan particularly on desert research.



Inauguration meeting of IMS Jaipur Chapter (from left Prof. U.C Mohanty, IIT Bhubaneswar, LS Rathore DGM, IMD, Prof. SK Dube, Vice Chancellor, AUR and Prof. Ajit Tygi, President, IMS and Retd DGM, IMD)

Environmental Monitoring Facility (EMF) has been established at Amity COAST with Collaboration with India Meteorological Department (IMD), Ministry of Earth Sciences, New Delhi. The Sky Radiometer is a radiometer with a dedicated sun tracker, to measure scattered solar radiation at in seven narrow wavebands from 315 nm to 1020 nm. The POM-01 sky radiometer is measure the aerosol properties & Aerosol Optical Depth (AOD). The distribution and size of aerosol are monitoring continuously. This information will provide



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the seasonal variation of aerosol properties, which further help in improvement of the weather forecast over this region.



Inauguration of EMF at Amity COAST



SkyRadio meter

Aethalometer is installation on October 2018 in Environmental Monitoring Facility of Amity COAST. Aethalometer is the foremost instrument for the real-time measurement of the optically absorbing 'black' carbon aerosol particulate concentrations, emitted from all types of combustion, most notably from diesel exhaust, biomass burning. These black carbon particles Absorb incoming solar radiation and re-radiate in the form of infrared radiation and thereby causing warming of atmosphere surrounding them. The Aethalometer uses a continuous filtration and optical measurement method to give a continuous readout of real-time data





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High Performance Computing(HPC) is installation on September 2018 for DST Project (DST/CCP/NCM/71/2017(C)). HPC server comprising of 3 nodes with total 96 cores, providing ~ 6 Tera Flops clock speed and 64 TB storage. CISCO network switch of 100 GB/s is

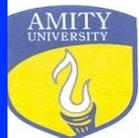
connected to HPC for fast data transfer to remote users. 10KV USB for uninterrupted power supply. The HPC server is fortified with parallel processing capabilities and meteorological data handling software. This is primarily utilized to simulate state-of-the-art numerical models of weather and climate for short and medium to seasonal scale prediction.



High Performance Computing Inauguration of HPC server @ Amity COAST by Vice Chancellor, Prof. S.K Dube (HPC) Server

Climate Simulation Lab consists of 6 high-end workstation and a network printer was established for PhD students and Project staff.





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Inspire Science Lab was set up at Amity COAST for demonstration of physics experiments to the college students to motivate them to choose the career in Science.



Innovation in Science Pursuit for Inspired Research-2018 (INSPIRE-2018) sponsored by Department of Science & Technology Ministry of Science & Technology Govt. of India, New Delhi was organized on 26-30 November, 2018. INSPIRE camp for eligible XI grade students started at Amity University Rajasthan on 26th November 2018. Total 204 selected students from 19 colleges/schools from Rajasthan participated in the event. Total 15 eminent scientist from Scientific Organization/Institutes/universities are interacted with young students.

Innovation in Science Pursuit for Inspired Research-2017 (INSPIRE-2017) sponsored by Department of Science & Technology Ministry of Science & Technology Govt. of India was organized on 16-20 Jan, 2018.



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GLIMPSES OF INSPIRE 2018 & 2017



Registration of participants



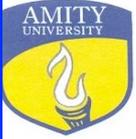
Lightening Lamp by Dr. Mangala Rai



Final round of Quiz Competition



Winners receiving award from the Chief Guest



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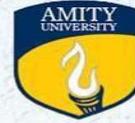
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GUEST LECTURE on

METEOROLOGICAL APPLICATION IN RENEWABLE ENERGY SOURCES

**Date: 01 June 2020
14 : 30 hrs - 15 : 30 hrs**



Speaker: Dr. Raghavendra Ashrit
Scientist F, National Centre for Medium Range
Weather Forecast, Ministry of Earth Sciences



Speaker: Mr. Sushant Kumar
Scientist, National Centre for Medium Range
Weather Forecast, Ministry of Earth Sciences



Moderator: Prof. (Dr.) P.V.S. Raju
Director, Centre for Ocean-Atmospheric Science & Technology
Amity University Rajasthan

REGISTER NOW

Webinar on Meteorological Applications in Renewable Energy sources on 1 June 2020



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WEBINAR ON

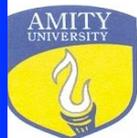
CAREER OPPORTUNITIES IN ATMOSPHERIC & ENVIRONMENTAL SCIENCES

8th JUNE, 2020 | 3:00 PM - 4:00 PM



By : Prof. (Dr.) P.V.S. Raju
Director, Amity COAST

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On the occasion of EARTH DAY

GUEST LECTURE ON

ROLE OF MOES IN ENHANCING WATER SECURITY OVER INDIA

22 April 2021 | 11.00 am to 12.00 pm

Organised by:
AMITY CENTRE FOR OCEAN-ATMOSPHERIC SCIENCE & TECHNOLOGY

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SPEAKER:
Dr. Atul Kumar Sahai
Scientist -G, Indian Institute of Tropical Meteorology (IITM), Pune



MODERATOR:
Prof. (Dr.) P.V.S. Raju
Director, Amity Centre for Ocean-Atmospheric Science & Technology

On the occasion of World Environmental Day, half day seminar organized on 05 June 2021. Prof Shreeram Inamdar, Director, Plant & Soil Sciences Department, University of Delaware, USA delivered a talk on Human degradation of natural ecosystems and their restoration. Prof. S. L. Kothari, Vice President, Amity Science, Technology & Innovation Foundation (ASTIF), Amity University Rajasthan delivered a Talk on Desert ecosystem and sustainability




CELEBRATING

**WORLD ENVIRONMENT DAY 2021:
ECOSYSTEM RESTORATION**

5th June 2021 | 3.30 PM - 5.30 PM

GUEST LECTURE & PANEL DISCUSSION

SPEAKERS

Prof. Shreeram Inamdar
Director, Water Science & Policy Graduate Program,
Plant & Soil Sciences Department, University of Delaware, USA
Title: Human degradation of natural ecosystems and their restoration

Prof. S. L. Kothari
Vice President, Amity Science, Technology & Innovation Foundation (ASTIF),
Amity University Rajasthan-Jaipur
Title: Desert Ecosystem and Sustainability

MODERATOR

Dr. Shatrughan Singh
Assistant Professor, Amity COAST,
Amity University Rajasthan-Jaipur

HOST

Dr. P.V.S. Raju
Director, Amity COAST,
Amity University Rajasthan-Jaipur

Organised by: Amity Centre for Ocean-Atmospheric Science & Technology

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Organised by:  AMITY CENTRE FOR OCEAN-ATMOSPHERIC SCIENCE & TECHNOLOGY  AMITY UNIVERSITY JAIPUR

GUEST LECTURE on

World Meteorological Day

Topic: Early Warning & Early Action: Hydrometeorological & Climate Information for Disaster Risk Reduction

Wednesday, 23rd March 2022 | 14:30 to 15:30 hrs.



SPEAKER
Dr. S.H.M. Fakhruddin
Technical Director, Disaster Risk Reduction & Climate Resilience at Tonkin +Taylor, Auckland



MODERATOR
Dr. Shatrughan Singh
Assistant Professor, Amity COAST



HOST
Prof (Dr.) P.V.S. Raju
Director, Amity COAST

On the occasion of World Meteorological Day, S.H.M. Fakhruddin, Technical Director, DRR & Climate Resilience, Tonkin + Taylor International, Auckland, NZ. The title of the lecture - “Early Warning & Early Action: Hydrometeorological & Climate Information for Disaster Risk Reduction” aligned with the World Meteorological Organization’s (WMO’s) 2022 theme of “Early Warning & Early Action”.

Meeting of Board of Studies (BoS) conducted on 10th December 2021 to review of Existing institutional PhD courses in Ocean Atmospheric Science. Modifications on the Syllabi of PhD Courses

Projects Completed

1. 2017-2021: Improvement of regional Climate Model (RegCM) in simulation of Climate Extremes over North West India. Department of Science & Technology Govt. of India, (Budget: Rs. 72.14 Lacs)
2. 2017-2021: Assessment of The Vulnerability on the Indian Coast Due to Tropical Cyclones in the Context of Climate Change”. Department of Science & Technology, Govt. of India, (Budget: Rs. 41.0 Lac)

Ongoing Projects

1. 2018-2021: Response of land surface processes on simulation of Indian summer monsoon, Ministry of Earth Sciences, Govt. of India, (Budget:



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28.84 Lacs).

Research Collaborations

1. National Centre for Medium Range Weather Forecasting (NCMRWF)
2. India Meteorology Department, New Delhi

MoUs

India Meteorological Department (IMD) New Delhi: MoUs Signed on July 2016 with India Meteorological Department (M/o Earth Science, Govt. of India): for sharing data, Joint R&D and set up Environmental Monitoring Equipment at Amity COAST.

Centre for Ocean-Atmospheric Prediction Studies, Florida State University: MoU signed on August 2017 for joint R&D collaboration on Ocean Atmospheric Studies

South China Sea Institute of Oceanology, Chinese academy of Sciences MoU signed on 22 August 2019 for joint research on Ocean studies, student exchange programme and develop joint research proposal



Signing ceremony Memorandum of Understanding



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Amity Centre for water studies and research (ACWSR):

The centre envisages offering solutions to all water-related problems as a consultant organization and producing highly trained and skilled graduates to deal with 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. The objectives of ACWSR are:

- To offer solutions to all water related problems as a consultant organization.
 - To produce highly trained and skilled graduates to deal with the water related issues in a multi-disciplinary approach.
 - To undertake research with converging approach of science, technology and engineering.
 - To undertake research in the area of water toxicity caused by nano-materials and other engineered toxic substances issues arising out from global warming and climate changes and their intricate relationships with water.
 - To understand the local, regional, national and global problems related to water availability and sustainable development.
 - To undertake international collaborative research activities.
- Mapping of Water conservation practices in AUR campus was done.



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)



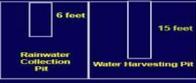
Borewell

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.



10 feet
10 feet
Top View

Water Collection Pit



6 feet
15 feet
Rainwater Collection Pit
Water Harvesting Pit
Side View

Guidance
Prof.(Dr.) Shruti Mathur , AIB and Coordinator, Amity Centre for Water Studies and Research
Dr Pankaj Sharma, ASET and Co-coordinator, Amity Centre for Water Studies and Research

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

Acknowledgements
Gp.Capt. (Retd.) Ajoy Mudaliar
Director (Admin)
Mr. Sudarshan Chauhan
Asst. Manager (Admin)
Mr Sanjit Singh
ASCO(Photography)

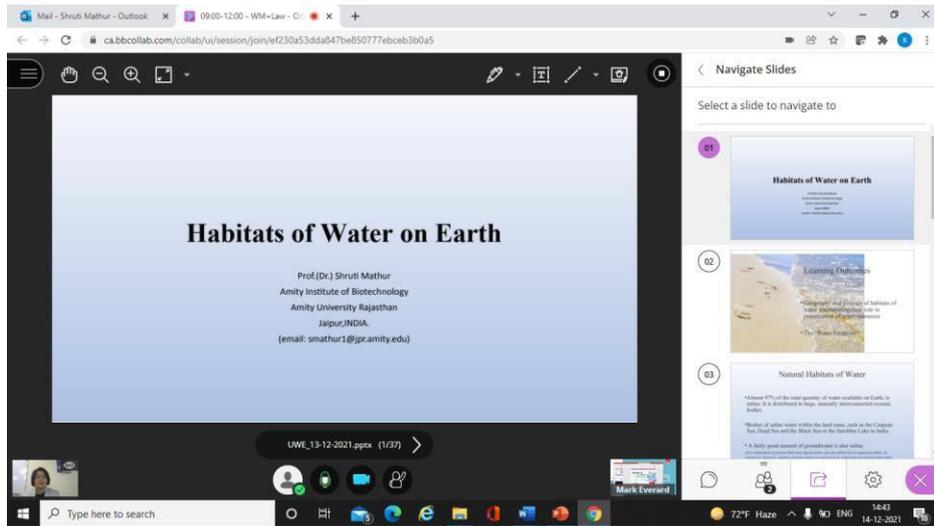


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MoU of ACWSR

Name of the Organisation/ Institution/ Industry with whom MoU is signed	Year of signing MoU	Date	Duration of MoU	List the actual activities under each MOU year wise
University of the West of England, (UWE) Bristol, UK	2020	20-May-20	5 years	1. Webinar on 'Water and Ecosystem services' by Dr. Mark Everard, Assoc. Prof. UWE on 11-08-2021. 378 registrations, 308 participants. 2. Invited online lecture by Prof. (Dr.) Shruti Mathur for M.Sc. students of UWE on 'Habitats of Water on Earth' on 14-12-2021



ONLINE WEBINAR ON WATER AND ECOSYSTEM SERVICES

Under the aegis of the
MoU with **UWE** and **Amity Centre for Water Studies and Research (ACWSR)**

SPEAKER
Dr. Mark Everard
Associate Professor - Ecosystem Services, University of West England (UWE Bristol), UK Consultant - Ecosystem Services

WORDS OF WISDOM
Prof. (Dr.) Rakesh Bhatnagar
Hon'ble Vice-Chancellor
Amity University Rajasthan

ABOUT ACWSR
Prof. (Dr.) S.L. Kothari
Distinguished Professor of Biotechnology & Vice President, Amity Science, Technology & Innovation Foundation.

WELCOME ADDRESS
Prof. (Dr.) Vinay Sharma
Director AIB & Dean (Research)
Amity University Rajasthan

EVENT COORDINATOR
Prof. (Dr.) Shruti Mathur
Amity Institute of Biotechnology
Coordinator of MoU of AIUR with UWE. Coordinator, Amity Centre for Water Studies & Research, Amity University Rajasthan

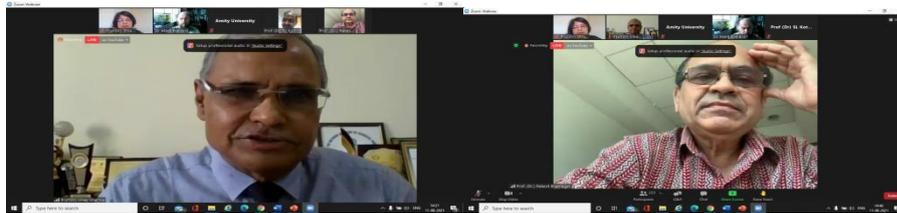
Aug 11th 2021 | 02:15 PM

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8. Research on Sustainability, climate change, green energy & Environmental technology:

- University has identified environmental & sustainability research areas and initiated work towards Bioremediation, Soil Microbial Indexing, Bio-inoculants for Sustainable Agriculture, Biotechnology of Plants and Microbes, Regional Weather and Climate Modeling, Environment Monitoring and Analysis, Biosensors, Food Technology.
- Seven research projects funded by DST, ICMR, ICFRE, and UCOST are being executed at the university on various aspects of environmental sustainability and health.

Grants for research projects sponsored by the government agencies during the last five years (INR in Lakhs) with regards to Climate change and env consciousness								
S.No.	Name of the Scheme/Project/Endowments/Chairs	Name of the Principal Investigator/ Co Investigator (if applicable)	Department	Year of Award	Funds provided (INR in lakh)	Duration of the Project	Funding Agency	Attachment
1	Assessment of the vulnerability on the Indian Coast due to tropical cyclones in the context of climate change	PI- Dr. PVS Raju	ACOAST	2017-18	41.0016	3 years	Dept. of Science & Technology, Govt. of India, New Delhi	1. Improvement of Regional Climate Model (RegCM) in Simulation of Climate Extremes over North West India by Dr. PVS
2	Improvement of regional climate model in simulation of climate extremes over north west india	PI-Dr. PVS Raju	ACOAST	2017-18	72.148	3 years	DST	2. Application of functionalized CNTs for enhancing tolerance towards abiotic stresses (drought and salinity) and augmenting yield potential of
3	Application of functionalized CNTs for enhancing tolerance towards abiotic stresses (drought and salinity) and augmenting yield potential of Pennisetum glaucum	PI- Prof Ajay Jain, Co-PI- Dr. Vinod Kumar Gour & Dr Kumar Sambhav Vema	AIB	2017-18	17.532	3 years	DST, Govt. of Rajasthan, Jaipur	3. Development of a scalable and optimized electricity generating walking platform as a source of clean energy
4	Development of a scalable and optimized electricity generating walking platform as a source of clean energy	Dr. Tarun K. Sharma (PI), Dr. Jitendra Rajpurohit (Co-PI) Ms. Pushpa Gothwal (Co-PI)	ASET	2017-18	5.868	3 years	DST, Govt. of Rajasthan, Jaipur	4. Nutritional and pharmacological potential of Kair (Capparis decidua) grown in Northwest part of India, Vinod Gour
5	Nutritional and pharmacological potential of Kair (Capparis decidua) grown in Northwest part of India	PI-Dr. Vinod Singh Gour Co-PI- Dr. Paras Sharma	AIB	2018-19	4.5	4 years	ICMR new Delhi	5. Response of land surface processes on simulation of Indian summer monsoon by Dr. PVS Raju
6	Seed invigoration through nano-formulations in important forest tree species	PI: Dr. Vishwanath Sharma, RFRJ, Jorhat Co-PI: Dr. Hemant Kumar	AIB	2021-22	27.1	3 years	ICFRE, Dehradun Reg.	6. Seed invigoration, Dr. Daima
7	Utilization of industrial or commercial by products of fruit, flowers and herbs of Uttarakhand region.	Co-PI Dr. Harish Kamwar PI- Ms. Bhavana Gahtori (TID Dehradun)	AIB	2021-22	7.67	2 Years	UCOST Dehradun	7 Utilization of Industrial, Dr. Harish



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DSO

DST/CCP/NCM/71/2017(G)
DEPARTMENT OF SCIENCE & TECHNOLOGY
CLIMATE CHANGE PROGRAMME-(SPLICE)

Technology Bhavan
New Mehrauli Road
New Delhi 110016
Dated:

ORDER

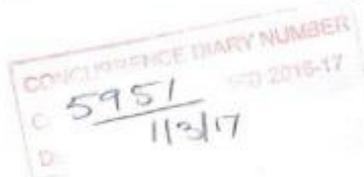
Sub Research proposal on "Improvement of Regional Climate Model (Reg CM) in simulation of climate Extremes over North West India" to be implemented by Interdisciplinary Centre for Climate Research & Policy (ICCRP), Amity University Rajasthan, NH11C, Jaipur – Delhi high way, Kant kalwar, Jaipur under the Network Programme on Climate modelling. Approval of the proposal and release of grants for the first year (PI- Dr. P.V.S Raju).

Sanction of the President is hereby accorded to the above-mentioned project at a total cost of Rs.72,14,800/- [Seventy two lakhs fourteen thousand eight hundred only] with a break up of Rs.40,14,800/- only under General head and of Rs.32,00,000/- only under Capital head for a duration of three years. The items of expenditure for which the allocation has been approved are given below:

Head	I Yr	II Yr	III Yr	Total
A. Non- Recurring				
Linux server. Quotation @ p 6-7/c	3200000	--	---	3200000
Subtotal (A)	3200000	--	---	3200000
B. Recurring				
Manpower SRF @ 28000+20% HRA (month)	403200	403200	403200	1209600
RA @ 36000+ 20% HRA/month	518400	518400	518400	1555200
Travel	100000	100000	100000	300000
Contingencies	50000	50000	50000	150000
Consumables	100000	100000	100000	300000
Subtotal (B)	1171600	1171600	1171600	3514800
OH charges @10 % of the total cost (C)	167000	167000	166000	500000
Grand Total (A+B+C)	45,38,600	13,38,600	13,38,600	72,14,800

Abhishek
28/02/17

..2/-





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राजस्थान सरकार
विज्ञान एवं प्रौद्योगिकी विभाग
506, धनुष गजिल, विन्सीसविद्यालय, जायपुर
क्रमांक प 7(3)विप्रो/आर एण्ड डी/2016/5665 जायपुर दिनांक 23/3/18
कार्यालय आदेश

वित्तीय वर्ष 2017-18 में राज्य सरकार के आदेश क्रमांक व.13(126)विप्रो/आरडी/प्र स्वी/प.पी/2017-16/3110, दिनांक 09.05.2017 द्वारा विभाग को सहयोगार्थी अनुदान मद (पूर्व तारियत मद) में राशि रुपये 154.34 लाख की प्रशासनिक एवं शैक्षीय स्वीकृति प्रदान की गई है।

स्वीकृत राशि रुपये 154.34 लाख में से **Principal Investigator, Dr Ajay Jain, Professor, Amity Institute of Biotechnology, Amity University, Rajasthan** का तीन वर्षीय अनुसंधान एवं विकास परियोजना **"Application of functionalized CNTs for enhancing tolerance towards abiotic stresses (drought and salinity) and augmenting yield potential of pennisetum glaucum."** के लिये राशि रुपये 1753200/- लाख (अक्षर सत्रह लाख तिरपन हजार दो ती मात्र) निम्नलिखित शर्तों में व्यय करने की स्वीकृति एतद् द्वारा प्रदान की जाती है।

Item	I year One JRF @ Rs 10,800 p.m Post graduate degree in Scientific discipline	II year One JRF @ Rs 10,800 p.m Post graduate degree in Scientific discipline	III year One SRF @ Rs12,000 p.m Post graduate degree in Scientific discipline	Total
Manpower	1,29,600	1,29,600	1,44,000	4,03,200
Consumable	3,00,000	3,00,000	3,00,000	9,00,000
Travel	50,000	50,000	50,000	1,50,000
Other cost	1,00,000	1,00,000	1,00,000	3,00,000
Total	5,79,600	5,79,600	5,94,000	17,53,200

उपरोक्त स्वीकृत राशि रुपये 1753200/- लाख (अक्षर सत्रह लाख तिरपन हजार दो-ती-मात्र) में से प्रथम वर्ष हेतु स्वीकृत राशि रुपये 579600/- (अक्षर पैंढ लाख उनचासी हजार छः सौ मात्र) का भुगतान परियोजना निदेशक (आहरण एवं वितरण) विज्ञान एवं प्रौद्योगिकी विभाग, जायपुर द्वारा आहरित कर Registrar, Amity University, Jaipur को प्रेषित की जायेगी। जो इस राशि को Principal Investigator को उपलब्ध करायेंगे।

यह व्यय निम्न बजट मद से प्रभाव होगा।
3425- अन्य वैज्ञानिक अनुसंधान 600- अन्य व्यय 01- भारतीय सर्वेक्षण(10) विज्ञान एवं तकनीक (आयोजना)
12- सहयोगार्थी अनुदान/अनुदान सहयोगार्थी, (1)- अनुसंधान एवं विकास परियोजनाओं को सहायता
उपरोक्त स्वीकृति संलग्न अनुसंधान एवं विकास परियोजनाओं को अनुदान की शर्तों के साथ लागू होगी एवं स्वीकृत राशि जब ही जारी की जायेगी जब परियोजना अन्देष्ट एक उपनिष्पन्न (undertaking) 1- संलग्न परियोजना की शर्तें मंजूर हैं 2- परियोजना समाप्ति पर एक उपयोगिता कार्यशाला आयोजित की जायेगी 3- परियोजना को अनुपयोगी राशि शीघ्र इस विभाग को लौटायी जायेगी। एवं 4- रु 500/- का एक शपथ-पत्र (सालान प्रारम्भ के अनुसार) इस विभाग को प्रेषित करेंगे।

- संस्था की स्वीकृति दिनांक तक कोई उपयोगिता प्रमाण पत्र बकाया नहीं है।
- स्वीकृत राशि की प्राप्ति रसीद इस विभाग को निजदायी जाये।
- राशि जिस कार्य हेतु स्वीकृत की गयी है केवल उसी कार्य पर नित्यव्ययता के साथ व्यय की जाये।
- कार्य समाप्ति पर विस्तृत रिपोर्ट मध्य स्वीकृति आदेश, उपयोगिता प्रमाण पत्र एवं अन्य व्यय विवरण जो अंकेक्षण / रक्षण लेखा प्रणाली द्वारा सत्यापित हो, को निर्धारित प्रपत्र में (3 प्रतियों में) विभाग को शीघ्र निजदायी जाये जिससे कि कार्यालय, महालेखाकार को परीक्षण व समायोजन के लिए निजवाया जा सके।
- अनुदानित राशि से कच की गई संपत्ति का रजिस्टर संभारित किया जायेगा जिसे विभागीय ऑडिट पार्टी द्वारा चाहे जाने पर परीक्षण हेतु उपलब्ध कराना होगा।

आमुक्त



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विज्ञान एवं प्रौद्योगिकी विभाग
508, चतुर्थमंजिल, मिनीसचिवालय, जयपुर
क्रमांक प 7(3)विप्रो/आर एण्ड सी/2016/5689 जयपुर दिनांक 22/3/18
कार्यालय आदेश

वित्तीय वर्ष 2017-18 में राज्य सरकार के आदेश क्रमांक: प.13(126)वि.प्रि./आयो./प्र.स्वी./पू.दा.
/2017-18/3110, दिनांक: 08.05.2017 द्वारा विभाग को सहायताार्थ अनुदान मद (पूर्व दायित्व मद) में राशि रुपये 154.
34 लाख की प्रशासनिक एवं वित्तीय स्वीकृति प्रदान की गई है।

स्वीकृत राशि रुपये 154.34 लाख में से Principal Investigator, Dr Tarun Kumar Sharma,
Associate Professor, Department of Computer Science, Amity School Of engineering &
Technology, Amity University, Jaipur को तीन वर्षीय अनुसंधान एवं विकास परियोजना " **Development of
a Scalable and optimized Electricity Generating walking platform as a Source of Clean
Energy.** " के लिये राशि रुपये 586800/- लाख (अक्षरे पाँच लाख छियासी हजार आठ सौ मात्र) निम्नलिखित मदों में
व्यय करने की स्वीकृति एतद् द्वारा प्रदान की जाती है।

Item	I year One JRF @ Rs 11,400 p.m /B.E. with two years' Experience/ M.E.	II year One JRF @ Rs 11,400 p.m. B.E. with two years' Experience/ M.E.	III year One SRF @ Rs 15,000 p.m. B.E. with two years' Experience/ M.E	Total
Manpower	1,36,800	1,36,800	1,80,000	4,53,600
Consumable	9,600	1,800	1,800	13,200
Travel	20,000	40,000	40,000	1,00,000
Other cost	10,000	5,000	5,000	20,000
Total	1,76,400	1,83,600	2,26,800	5,86,800

उपरोक्त स्वीकृत राशि रुपये 586800/- लाख (अक्षरे पाँच लाख छियासी हजार आठ सौ मात्र) में से प्रथम
वर्ष हेतु स्वीकृत राशि रुपये 176400/- (अक्षरे एक लाख छिहत्तर हजार चार सौ मात्र) का भुगतान परियोजना निदेशक
(आहरण एवं वितरण) विज्ञान एवं प्रौद्योगिकी विभाग, जयपुर द्वारा आहरित कर Registrar, Amity University,
Jaipur को प्रेषित की जायेगी। जो इस राशि को Principal Investigator को उपलब्ध करायेगा।

यह व्यय निम्न बजट मद से प्रभार्य होगा।

3425- अन्य वैज्ञानिक अनुसंधान 800- अन्य व्यय 01- भारतीय सर्वेक्षण(10) विज्ञान एवं तकनीक (आयोजना)
12- सहायताार्थ अनुदान/अंशदान सहायताार्थ, (1)- अनुसंधान एवं विकास परियोजनाओं को सहायता

उपरोक्त स्वीकृति संलग्न अनुसंधान एवं विकास परियोजनाओं को अनुदान की शर्तों के साथ लागू होगी
एवं स्वीकृत राशि जब ही जारी की जायेगी जब परियोजना अन्वेषक एक अभिकथन (undertaking)

1- संलग्न परियोजना की शर्तें मंजूर हैं 2-परियोजना समाप्ति पर एक उपयोगिता कार्यशाला आयोजित
की जायेगी 3-परियोजना की अनुपयोगी राशि शीघ्र इस विभागको लौटायी जायेगी। एवं 4-रु 500/-
का एक शपथ -पत्र (संलग्न प्रारूप के अनुसार) इस विभाग को प्रेषित करेंगे

5. संस्था की स्वीकृति दिनांक तक कोई उपयोगिता प्रमाण पत्र बकाया नहीं है।

6 स्वीकृत राशि की प्राप्ति रसीद इस विभाग को भिजवायी जावे।

7 राशि जिस कार्य हेतु स्वीकृत की गयी है केवल उसी कार्य पर मित्तव्ययता के साथ व्यय की जावे।

8 कार्य समाप्ति पर विस्तृत रिपोर्ट मय स्वीकृति आदेश, उपयोगिता प्रमाण पत्र एवं आय व्यय विवरण
जो अंकेषक / सक्षम लेखा प्रनारी द्वारा सत्यापित हो, को निर्धारित प्रपत्र में (3 प्रतियों में)
विभाग को शीघ्र भिजवायी जावे जिससे कि कार्यालय, महालेखाकार को परीक्षण व समायोजन के लिए
भिजवाया जा सके।

9. अनुदानित राशि से व्यय की गई संपत्ति का रजिस्टर संचारित किया जायेगा जिसे विभागीय ऑडिट
पार्टी द्वारा चाहे जाने पर परीक्षण हेतु उपलब्ध कराना होगा।

अधिकारी



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3 - 3 yrs + 1 = 4 yrs
Amount - 3,00,000/-
+ 1,50,000/-
= 4,50,000/-

12



आइ सी एम आर-राष्ट्रीय पोषण संस्थान
ICMR-NATIONAL INSTITUTE OF NUTRITION
Taramak, Hyderabad - 500 007, Telangana

Tel: 01-42219226
Fax: 01-42219224
Email: icmr@icmr.gov.in
Web: www.icmr.gov.in

No.ST/1/Intra-Proj-Allot/2018-19

Date: 11.11.2018.

Dr. Paras Sharma,
Scientist-C.

A note dated: 0th Nov. 2018 has been received from the Director's office stating that budget has been sanctioned towards the intramural Projects entitled during the current financial year 2018-19 as detailed below:

Sl. No.	Nomenclature of the Intramural Project	Proj. Ref. No.	Budget allotted (Rs.)
1.	Nutritional characterization of Kair (<i>Capparis decidua</i>) grown in Northwest part of India.	18-PC02	1.00 Lakh

You are requested to mention the Number & Title of the project while submitting indents for chemicals/glassware/plastic ware. And also, please keep the track of the expenditure of the project. The last date for receipt of indent is 3rd December, 2018 and no indent will be entertained after this date.

Administrative Officer (Stores)
for Director

c.c to: PA to Director.



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MoES/16/11/2016-RDEAS
Government of India
Ministry of Earth Sciences

Prithvi Bhawan, Lodhi Road,
New Delhi-110003

Dated: /08/2018

SANCTION ORDER

In continuation of this Ministry's Administrative Order No. MoES/16/11/2016-RDEAS dated /08/2018, sanction of the President is hereby conveyed under rule 18 of the Delegation of Financial Power Rules, 1978 for the release of **Rs. 15,78,200/- (Rupees fifteen lakhs seventy-eight thousand two hundred only)** to the Director, COAST, Amity University Rajasthan, Jaipur during the current financial year 2018-19 as 1st year grant under the project entitled "**Response of land surface processes on simulation of Indian summer monsoon**" as per details given below:-

(Amount in Rupees)

S. No.	Description	Total	
1.	Allocation for 2018-19 as per A.O.	Non-recurring	9,50,000
		Recurring	6,28,200
2.	Less Unspent balance	Nil	
3.	Total amount to be released	15,78,200	

2. The amount of **Rs. 15,78,200/- (Rupees fifteen lakhs seventy-eight thousand two hundred only)** will be drawn by the Drawing and Disbursing Officer, Ministry of Earth Sciences and disbursed through Real Time Gross Scheme (RTGS) to the Director, COAST, Amity University Rajasthan, Jaipur on the following Bank details:

Name of the Bank	Axis Bank Limited
Branch	O-15, Green House, Ashok Marg, C-Scheme, Jaipur-302001
Account No	010010100496797
IFSC Code	UTIB0000010
MICR Code	302211002

3. The amount will be debited to:-
'3425' Other Scientific Research (Major Head)
60.200 Assistance to Other Scientific Bodies (Minor Head)
52 Research Education and Training Outreach
52.00.31 Grant-in-Aid-General (Plan)
Under Demand No. 25 of Ministry of Earth Sciences for the year 2018-19.

4. The Director, COAST, Amity University Rajasthan shall send the Utilisation Certificate (UC), Statement of Expenditure (SoE) of this amount and DBT details of manpower in the required Performa. The Director, COAST, Amity University shall ensure that UC/SoE includes interest earned on MoES grants. The subsequent/final installment will be released only after confirmation of the acceptance of the UC by the Ministry.

5. The programme division has certified that no other U/C is pending from Amity University Rajasthan under the rules in respect of any grants released for this project as this is the 1st release to COAST, Amity University Rajasthan under this project.

Contd....



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वर्षावनअनुसंधानसंस्थान
भारतीयवनानिरीक्षणसंस्थानावधिशापविद्
(पर्यावरण, वनसंवर्धनवायु परिवर्तन मंत्रालय, भारतसर्वकार)
पोस्टबॉक्सनं. 136, जोगहाट-785001, असम।
RAIN FOREST RESEARCH INSTITUTE
Indian Council of Forestry Research & Education
(Ministry of Environment, Forest & Climate Change, Govt. of India)
Post Box No. 136, Jorhat-785001, Assam

No. RFRI/ 2022-23/SFM-2/

Date: 09.05.2022

To,

Dr. Hemant Kumar Daima,
A/Professor and Incharge,
Amity Center for Nanobiotechnology and Nanomedicine,
Amity University, Jaipur, Rajasthan. 303002

Subject: Approval of research project for funding by ICFRE, Dehradun reg.

Sir,

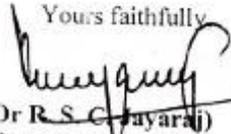
We are pleased to convey that Research Policy Committee (RPC) of Indian Council of Forestry Research Education, Dehradun, in its XXII meeting held on 23-25th February has considered collaborative research project for funding submitted by Rain Forest Research Institute, Jorhat and Amity University, Jaipur. Project is approved for a period of three years at a total cost of Rs. 27.10 Lakh. Following are the details of project:

Title: Seed invigoration through nano-formulations in important forest tree species.

Project Code: RFRI/ 2022-23/SFM-2

Details of the investigator:

Project Investigator	Co- Project Investigator
Dr Vishwanath Sharma, RFRI, Jorhat	Dr Hemant Kumar Daima, AU, Jaipur

Yours faithfully,

(Dr R. S. C. Jayaraj)
Director, RFRI, Jorhat



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Uttarakhand State Council for Science and Technology
Department of Information and Science Technology (Govt. of Uttarakhand)
VIGYAN DHAN, Jhajra, Chakrata Road, Dehradun-248015 (UK)
[Email: md.ucost@gmail.com]

No.- UCS&T/R&D-17/22-23/21104/2

Dated: 07-06-2022

ORDER

Sanction of ₹ 7,67,000/- (₹ Seven Lakh Sixty Seven Thousand only) for implementation of the project titled "Utilization of Industrial or Commercial byproducts of fruits, flowers and herbs of Uttarakhand region" to 'The Director, Tula's Institute, Dehradun' over a duration of 02 years.

The items of expenditure for the total tenure of 02 years for which the total allocation has been approved are given below:-

SINo	Account Head	1 st Year Sanction (in ₹)	2 nd Year Sanction (in ₹)
1.	Manpower – Project Assistant/Research Assistant @ ₹ 8000/pm	96000	96000
2.	Consumables	200000	125000
3.	Travel	50000	50000
4.	Overhead	30000	20000
5.	Contingency	50000	50000
6.	Total (1+2+3+4+5)	426000	341000
Grant Total		767000	

On the basis of Council's policy, the sanction and release of funds for the first year of the project is granted as mentioned hereunder:-

(i)- Amount sanctioned	₹	4,26,000
(ii)- Amount being released	₹	3,40,800
(iii)- Balance	(i-ii) ₹	85,200

Balance amount may be paid later on after receiving Progress Report of the project and requisition for funds (if required/requested).

Grant is being released through RTGS/NEFT in favour of The Director, Tula's Institute, Dehradun' through RTGS/NEFT in Punjab National Bank, Nehru Colony, Dehradun; Account Number 51881131003702; IFSC PUNB051RB10; PAN: AAAYRR382G; GST-No: 05AAATR382G12B

- ☞ Above grant is subject to the terms and conditions available at our webpage link: <http://ucost.in/grants/forms.html>.
- ☞ PI must submit "Date of Start Intimation Form" to the Council.
- ☞ PI will strictly follow the terms and conditions.
- ☞ This order is being issued as per approval accorded by Director General, UCOST.

(Dr D.P. Uniyal)

Joint Director

No. and Date as above

Copy for information and necessary action to:

1. The Director, Tula's Institute, Dhoalkot, Dehradun-248007.
2. Ms Bhawana Gahtari, Assistant Professor, Department of Agriculture and Forestry, Tula's Institute, Dhoalkot, Dehradun-248007 [PI of the project]
3. Dr Harish Kanwar, Assistant Professor, Department of Biotechnology, Amity University, Jaipur, Rajasthan-303002. [Co-PI of the project]
4. Accounts Section for release of above amount, debitible under R&D head.
5. Master file.

(Dr Ashutosh Mishra)
Sr Scientific Officer



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9. OTHER ENVIRONMENT AWARENESS INITIATIVES:

- The hawan has been the traditional kick-starter of most Amity events and has thus become an indispensable part of its DNA since the inception of the University giving a clear message of incorporating the blend of modernity with Indian traditions during the orientation program to welcome the new batch of students.
- The University offers a compulsory course on Environment Sciences as prescribed by UGC for all First-Year students to educate and make them aware of environmental issues, environmental conservation and sustainability through ICT enabled interactive learning activities and assignments.
- Every year World environment day is celebrated in the campus and/or nearby villages to create awareness and concern among stakeholders about environmental conservation.
- The University promotes maximum use of ICT and demotes the use of paper. Initiatives have been taken for online transactions to reduce paper waste and make almost all the correspondences online.
- Amizone Intranet is used to record most of the academic activities.
- Smoking is not allowed publically on the University premises
- The University educates the youth on the importance of conserving the environment by organizing various environmental awareness programmes such as the Earth Day, World Water Day, Ozone Day, World Environment Day, No plastic Day etc.
- Participation by NSS, UBA & NCC Volunteers in cleanliness programmes like Swachh Bharat Abhiyan, Plantation drives, Swachhta Pakhwara, Save birds programme, etc. in the campus as well as outreach activities like environmental awareness and cleanliness drives, rallies, plastic reduction and distribution of face masks during Covid 19, etc. in the neighbouring villages.
- Amity University Rajasthan is the home for diversity of local and migratory birds. NSS Units of Amity University Rajasthan regularly organizes “Save Birds Program” by placing ‘Parindas’ or bird feeders with water in the Neem Forest, and other localities in the Amity Campus to quench the thirst of birds and thus take pride towards conservation of bird diversity, as in summer water can save lives of birds.
- The University organize competitions and activities that instil and encourage students in environmental protection, biodiversity conservation, and waste recycling and utilization to get value-added products.
- Regular guest lectures, seminars, webinars and conferences on sustainability and environmental issues are organized by the various institutes of the University to motivate the faculty and students and find innovative ways to mitigation of various environmental issues.
- AUR has a well-equipped Gym & aerobics facilities with trainer
- Yoga Club celebrates International Yoga Day every year with full zeal for spreading mental health and peace
- Amity University Rajasthan has an International standard sports complex with huge open grounds for outdoor games like Football, volleyball, cricket, basketball, lawn tennis, golf etc. and indoor games facilities for badminton, table tennis, pool, chess, are available for students, faculties and staff and their families.
- NSS, UBA, NCC, MTC and YSBC are other units of AUR to inculcate the feeling of belongingness and patriotism and serve the society



Environmental Studies & Disaster Management

Course Code: EVS 001

Credit Units: 03

Course Objective:

At present a great number of environment issues, have grown in size and complexity day by day, threatening the survival of mankind on earth. The objective of the course is to familiarize students of law with the basic concepts in environmental studies and enlighten about the importance of the protection and conservation of the environment and control of human activities which has an adverse effect on the environment and to sensitize them towards the issues of environmental management and to make students aware about disaster management and its planning and emergencies.

Unit 1: Introduction to environmental studies

Multidisciplinary nature of environmental studies; components of environment –atmosphere, hydrosphere, lithosphere and biosphere; Scope and importance; Concept of sustainability and sustainable development.

Unit 2: Ecosystems

What is an ecosystem? Structure and function of ecosystem; Energy flow in an ecosystem: food chain, food web and ecological succession. Case studies of the following ecosystems: (a) Forest ecosystem (b) Grassland ecosystem (c) Desert ecosystem (d) Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

Unit 3: Natural Resources: Renewable and Non-renewable Resources

Land Resources and land use change; Land degradation, soil erosion and desertification. Deforestation: Causes and impacts due to mining, dam building on environment, forests, biodiversity and tribal populations. Water: Use and over-exploitation of surface and ground water, floods, droughts, conflicts over water (international & inter-state). Heating of earth and circulation of air; air mass formation and precipitation. Energy resources: Renewable and non-renewable energy sources, use of alternate energy sources, growing energy needs, case studies.

Unit 4: Biodiversity and Conservation

Levels of biological diversity :genetic, species and ecosystem diversity; Biogeography zones of India; Biodiversity patterns and global biodiversity hot spots. India as a mega-biodiversity nation; Endangered and endemic species of India. Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts, biological invasions; Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity. Ecosystem and biodiversity services: Ecological, economic, social, ethical, aesthetic and Informational value.

Unit 5: Environmental Pollution

Environmental pollution: types, causes, effects and controls; Air, water, soil, chemical and noise pollution. Nuclear hazards and human health risks. Solid waste management: Control measures of urban and industrial waste. Pollution case studies

Unit 6: Environmental Policies & Practices

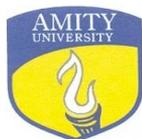
Climate change, global warming, ozone layer depletion, acid rain and impacts on human communities and agriculture. Environment Laws : Environment Protection Act; Air (Prevention & Control of Pollution) Act; Water (Prevention and control of Pollution) Act; Wildlife Protection Act; Forest Conservation Act; International agreements; Montreal and Kyoto protocols and conservation on Biological Diversity (CBD). The Chemical Weapons Convention (CWC). Nature reserves, tribal population and rights, and human, wildlife conflicts in Indian context.

Unit 7: Disaster Management

Bomb threat; Earthquake; Explosion; Hazardous material spill/release; Campus shooting; Terrorist incidence; Financial emergency: (a) A sudden health emergency, (b) unexpected loss of income, (c) Death in the family or other family emergency, (d) Rent in arrears and risk of eviction and (e) Natural disaster.

Unit 8: Human Communities and the Environment

Human population and growth: Impacts on environment, human health and welfares; Carbon foot-print; Resettlement and rehabilitation of project affected persons; case studies.



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Disaster management: floods, earthquakes, cyclones and landslides. Environmental movements: Chipko, Silent valley, Bishnios of Rajasthan.

Environmental ethics: Role of Indian and other religions and cultures in environmental conservation. Environmental communication and public awareness, case studies (e.g., CNG vehicles in Delhi).

Unit 9: Field work

- Visit to an area to document environmental assets; river/forest/flora/fauna, etc.
- Visit to a local polluted site – Urban/Rural/Industrial/Agricultural.
- Study of common plants, insects, birds and basic principles of identification.
- Study of simple ecosystems-pond, river, Delhi Ridge, etc.

Examination Scheme:

Components	CA	A	CT	EE
Weightage (%)	30	5	15	50

Text & References:

- Verma, Snehlata Environmental Problems: Awareness and Attitude; 2007; : Academic Excellence Publishers & Distributors; Delhi
- Saxena, Karunesh and Nityesh Bhatt (ed.) Environment Management Practices: An Indian Outlook; 2007; Himanshu Publications, Delhi
- Rosencranz, Armin and Shyam Divan Environmental Law and Policy in India: Cases, Materials and Statutes 2001; Oxford University Press, new Delhi
- Uberoi, N.K. Environmental Management; 2004; Excel Books, Delhi
- Kumar, Mukul, MitraPrasenjitSarkar et al (eds.) Environmental Change and its Impact ; 2006; Classique Books, Kolkata
- Chatterjee, SanjoyEncyclopaedia of Ecology; 2006; Anmol Publications, New Delhi
- Bhatt, S. International Environmental Law; 2007; A.P.H Publishing Corporation, New Delhi

Suggested Readings:

- Carson, R. 2002. *Silent Spring*. Houghton Mifflin Harcourt.
- Gadgil, M., & Guha, R. 1993. *This Fissured Land: An Ecological History of India*. Univ. of California Press.
- Gleeson, B. and Low, N. (eds.) 1999. *Global Ethics and Environment*, London, Routledge.
- Gleick, P.H. 1993. *Water in Crisis*. Pacific Institute for Studies in Dev., Environment & Security. Stockholm Env. Institute, Oxford Univ. Press.
- Groom, Martha J. Gary K. Meffe, and Carl Ronald carroll. *Principles of Conservation Biology*. Sunderland: Sinauer Associates, 2006.
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- World Commission on environment and Development. 1987. *Our Common Future*. Oxford University Press.
- www.nacwc.nic.in



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Environmental Consciousness & Awareness Outreach Activities





स्वयंसेवकों ने लगाए 200 पौधे

चन्द्रबाजी @ पत्रिका जयपुर दिल्ली राजमार्ग पर स्थित एमिटी यूनिवर्सिटी परिसर में शुक्रवार को राष्ट्रीय सेवा योजना इकाइयों द्वारा पौधारोपण कार्यक्रम के तहत करीब 200 पौधे लगाए गए।

यूनिवर्सिटी के विरोध अधिकारी विनोदियर जोरस राठी ने बताया कि पौधारोपण कार्यक्रम के लिए परिसर में राष्ट्रीय सेवा योजना की इकाई के छात्र-छात्राओं एवं स्टाफ ने परिसर में गुणमोहक करीब 200 पौधे लगाकर सूबा को जिम्मेदारी ली है। यूनिवर्सिटी के कुलपति डॉ. विनोद सिंह एनएसएस प्रमारी डॉ. विनोद सिंह गौड़ और छात्र-छात्राएं उपस्थित रहे। (निस)



जागरूकता की शपथ चन्द्रबाजी

निजी विश्वविद्यालय में एनएसएस इकाइयों की ओर से कोविड 19 की गाइडलाइन्स का उचित रूप से पालन करने के लिए चर्चुआन मोंडू पर प्रतियोगिता समारोह आयोजित किया। अध्यापकों और कर्मचारियों के साथ एनएसएस स्वयंसेवकों ने नियमों का पालन करने और मास्क पहनने, सोशल डिस्टेंसिंग की पालना करने, स्वच्छता बनाए रखने के लिए संकल्प लिया। रजिस्ट्रार डॉ. नितिन भारद्वाज ने स्वयंसेवकों को निर्धारित नियमों का पालन करने के लिए प्रेरित किया।



एमिटी विश्वविद्यालय ने उन्नत भारत अभियान योजना के तहत कांट गांव में किया तुलसी पौधा वितरण

ललित किशोर शर्मा

जयपुर, 23-08-2020

एमिटी विश्वविद्यालय के अध्यक्ष डॉ. विनोद सिंह गौड़ ने कांट गांव में तुलसी पौधा वितरण कार्यक्रम का शुभारंभ किया। कार्यक्रम में एमिटी के स्वयंसेवकों ने कांट गांव के लोगों को तुलसी पौधा वितरित किया। कार्यक्रम के दौरान एमिटी के अध्यक्ष डॉ. विनोद सिंह गौड़ ने कांट गांव के लोगों को तुलसी पौधा वितरित किया। कार्यक्रम के दौरान एमिटी के अध्यक्ष डॉ. विनोद सिंह गौड़ ने कांट गांव के लोगों को तुलसी पौधा वितरित किया।



एनएसएस शिविर का समापन रैली से जैविक खेती के लिए किया जागरूक

चन्द्रबाजी, जयपुर दिल्ली रोड स्थित एमिटी विश्वविद्यालय एनएसएस में राष्ट्रीय सेवा योजना इकाई के तत्वावधान में चल रहे एनएसएस शिविर का शुक्रवार को समापन हो गया। कार्यक्रम प्रमारी एवं समन्वयक डॉ. विनोद सिंह गौड़ ने बताया कि शिविर में 22 से 26 अप्रैल तक स्वयंसेवकों ने कालेज प्रांगण में राफर्ट कर श्रमदान किया। डॉ. मनोज कुमार ने दुकानों से नमूने लेकर आने की अपील की तथा नमूने के तरीके बताए। वहीं राष्ट्रीय अनुसंधान संस्थान जयपुर के डॉ. हरिश भाकुनी ने संक्रामक बीमारियों के खयाल पर विस्तृत व्याख्यान दिया। उन्होंने जैविक खेती के बहलाव काके स्वस्थ रहने के तरीके को जानकारी दी। शुक्रवार को विद्यार्थियों ने रैली निकाल कर जैविक खेती के बढ़ावा व खेती में रसायनों के प्रयोग को रोकने का संदेश दिया। इस दौरान छात्र अधिकृता एएसएस भाल, डॉ. मनोज कुमार, डॉ. प्रशांत मिश्र, मंगल सिंह सिंसोदिया, अंजनी कुमार खन्ना, डॉ. नरेंद्र पात तंवा व विस्तृत रिल का विशेष सहयोग रहा। (निस)



पौधरोपण किया

जयपुर, दिल्ली रोड स्थित एमिटी विश्वविद्यालय को एनएसएस इकाइयों द्वारा पौधरोपण किया गया। प्रो. प्रिजिडेंट प्रोफेसर डॉ. अमित जैन ने पौधरोपण कर कार्यक्रम की शुरुआत की। विवि के रजिस्ट्रार डॉ. नितिन भारद्वाज, प्रोवोस्ट प्रोफेसर डॉ. जीके असेरी, प्रोग्राम कोऑर्डिनेटर डॉ. मनोज कुमार मौजूद रहे।

Figure-22: Amity University Rajasthan initiatives coverage in local media/newspapers.

Covid 19 initiatives:

- Distribution of masks, Tulsi saplings and vaccine awareness events have also been organized by NSS.



AMITY UNIVERSITY

RAJASTHAN

- The students also prepared informative videos on techniques of preparing composting, vermicompost using their kitchen and household wastes. Waste to wealth was another initiative taken by students of Biotechnology.

10. AWARDS AND CERTIFICATIONS FOR SUSTAINABLE ENVIRONMENTAL PRACTICES:

- University has been awarded by Times Higher Education Impact Ranking in the Area of Environment Sustainability 2022.
- Amity University Rajasthan got a Gold rating from the internationally recognized 'Leadership in Energy & Environment Design (LEED)', a United States Green Building Council in 2017 for remarkable efforts in achieving sustainability and low impact on the environment.



Certificate of LEED

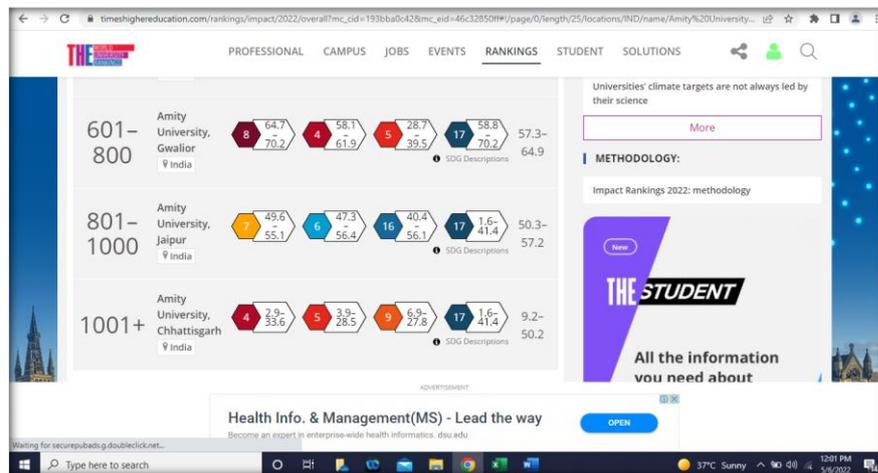


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Value	SDG4: Quality Education	SDG6: Clean Water and Sanitation	SDG7: Affordable and Clean Energy	SDG9: Industry, Innovation, and Infrastructure	SDG13: Climate Action	SDG16: Peace, Justice, and Strong Institutions	SDG17: Partnership for the Goals
Amity University Rajasthan Rank	601-800	201-300	301-400	401-600	301-400	401-600	1001+
Institutions ranked	1180	634	705	785	674	809	1438
Your Score	42.9	51.2	52.1	37.7	39.2	52.7	35.8



Times Higher Education Impact Ranking in the Area of Environment Sustainability 2022

AUR is a mini-India with a rich cultural mix of local students and faculties from different regions and States from India and even few students from abroad. It is thus a home away from home for all the students from remote areas and reflects Unity in Diversity. The eco-friendly green-sustainable campus environment has set new standards through sustainable eco-friendly practices. *Thus*, we have left no stone unturned in the development of a sustainable green ecosystem to provide holistic development for the students.

“The environment and the economy are really both two sides of the same coin. If we cannot sustain the environment. we cannot sustain ourselves”.....Wangari Maathai



AMITY UNIVERSITY RAJASTHAN

GENESIS OF AMITY UNIVERSITY RAJASTHAN AS 'GREEN OASIS'

<p>THEN</p>	<p>NOW</p> <p>Kant, Rajasthan, India 5XG6+VZ2, Kant, Rajasthan 303104, India Lat 22°17'54.4" Long 75.960527° 02/08/22 10:04 AM</p>
AUR FRONT VIEW	
<p>28/04/2006</p>	<p>Kant, Rajasthan, India 5X74+GQ5, Kant, Rajasthan 303002, India Lat 22°17'43.93" Long 75.956597° 29/07/22 02:14 PM</p>
HAVELI	
<p>02/08/2006</p>	
BARREN LAND TO SCENIC LAKE	
<p>02/08/2006</p>	<p>Kant, Rajasthan, India 5XG5+2G4, Neam Forest, Kant, Rajasthan 303002, India Lat 22°17'52.41" Long 75.959978° 02/08/22 10:40 AM</p>
NEEM FOREST	
	<p>Kant, Rajasthan, India Amity H-2 Hostel, Kant, Rajasthan 303002, India Lat 22°17'58.99" Long 75.956725° 29/07/22 02:06 PM</p>
FOOTBALL GROUND & H-2 HOSTEL	
	<p>Kant, Rajasthan, India Amity H-2 Hostel, Kant, Rajasthan 303002, India Lat 22°17'51.32" Long 75.956516° 01/08/22 03:16 PM</p>
FOOTBALL GROUND	
	<p>Kant, Rajasthan, India AMITY BUSINESS SCHOOL, AMITY UNIVERSITY JAIPUR, Kant, Rajasthan 303002, India Lat 22°17'56.71" Long 75.952277° 29/07/22 11:11 AM</p>
ABS CIRCLE	