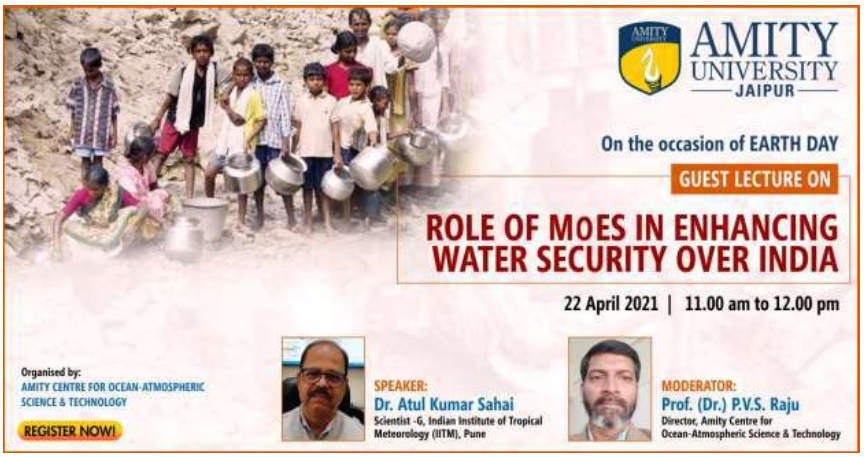
Earth Day 2021 was celebrated in Amity University Rajasthan, with full vigor and enthusiasm to understand the current challenges and potential solutions to restore our mother Earth for sustainable development and growth of all living beings. Due to pandemic (COVID-2019), Earth Day 2021 was organized online a guest lecture by an eminent scientist of the country, Dr. Atul Kumar Sahai, Scientist-G at the Indian Institute of Tropical Meteorology (IITM), Pune. Dr. Sahai graced the occasion by delivering a lecture via an online platform on the "Role of MoES in Enhancing Water Security over India". Before the talk started, Prof. (Dr.) P.V.S. Raju, Director of the Center (COAST), welcomed and introduced Dr. Sahai to all the participants.



Environmental education measures

AMITY-COAST Organized **World Environmental Day 2021** on the theme "Reimagine, Recreate, Restore" on 5 th June 2021. Prof Shreeram Inamdar, Director, Water Science & Policy Graduate Program Plant & Soil Sciences Department, University of Deleware discussed on Human degradation of natural ecosystem and their restoration and Prof. S. L. Kothari, Vice President, Amity Science, Technology & Innovation Foundation (ASTIF) talked on desert ecosystem and sustainability.

Microbiology Department is working in the area of Waste land Rehabilitation, Soil Fertility, Plant Nutrient influx, Plant & Animal Disease Management, Food preservation & Processing, Fermentation Technology with support grant from DST, DBT, ICAR, ICMR, MoFPI, Ministry of Agriculture and Genomics – USA.

13.2.1.

JAIPUR VIDYUT VITRAN NIGAM LIMITED

PAN NO-AABCJ6373K ; GSTIN-08AABCJ6373K1Z7 , HSN Code :-2716

Office of Issue	Name & Address	AEN_OM_KUNDA KI DHANI AMBER	E-mail	Office code	2105240

Bill for Grid Connected Rooftop & Small Solar Photovoltaic System (SSPVS) (Consumer Copy) TollFree Complaint Center No:1800-180-6507

Bill No	122122312	Bill Month	202112	Bill Status	R	Consumer Status	R
Bill issue date	08/12/2021			Due date	20/12/2021		

1	Name & Address of consumer:-Ritanand Balved EDUCATION FOUNDATION VILL-KANT-KALWAR AMITY UNIVERSITY RAJASHTHAN NH-11C JAIPUR-303002 null		1	SSPVS Generator Meter No	8341496
2	Mobile Numer:	9910221608	2	Meter Status	R
3	Email ID:	mstaneja@amity.edu	3	Present KWH Reading	14627.56
4	Binder No/ Account No.	03010034	4	Previous KWH Reading	14314.69
5	K. No.	210524024337	5	Difference (3-4)	312.87
6	Service No	0	6	Multiplying Factor (MF)	160
7	RSN	0	7	Net Generation KWH (3-4)*MF SOLAR .	50059
8	Tariff Code	2011Xn	8	Net Exported Units(KWH) to DISCOM	0
9	Category	NDS-HT	9	Net Exported & unadjusted Units (KWH)- B.F(max <100	0
10	Feeder Code	2262974	10	Units Adjusted against Bill/ Payment	0
11	Security Amount	6942522	11	Net Exported & unadjusted Units (KWH)- C.F for Next Billing (<100 Units)	0
12	Meter Security Amount	0	12	Energy Charges	550479.74
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	-16514.39
16	Sanctioned Connected Load(KW/HP)	3200(KW)	16	Amount of Unathourized Use	0
17	Installed capacity of solar P.G (KW)	998.4	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	0
21	Date of meter reading	01-12-2021		(II) Solar/Sprinklar/Rural Rebate/Def/HCC	-16514.39
22	Date of Previous reading	01-11-2021	21	Total Nigam Dues (Sr No 12 to 20)	-1161.48
23	Bi-directional meter No.	437965	22	Electricity Duty	1025037.44
24	Current Recorded Meter Details	KWH Export(b) / KWH Import(a)	23	WCC	54915.84
25	Meter Status	R	24	UC	11226
26	Present KWH Reading	19839.2 / 152301.5	25	Other Debit/Credit Nigam Dues	0
27	Present KVAH Reading	24415.7 / 153609	26	Other Debit/Credit Electricity Duty	0
28	Present KVA	9.72 / 12.74	27	Other Debit/Credit WCC	0
29	Previous KWH Reading	18170.57 / 148559.5	28	Other Debit/Credit UC	0
30	Previous KVAH Reading	22677.81 / 149833	29	Other Debit/Credit LED/Defered Payment Scheme	0
31	Difference KWH (26-29)	1668.63 / 3742	30	Amount Adjusted (Code)	71460
32	Difference KVAH (27-30)	1737.89 / 3776	31	Total Amount (Sr No 21 to 30)	0
33	Multiplying Factor (MF)	30	32	Outstanding Amount of Previous Bill	1162639.27
34	Total KWH import/export	50058.9 / 112260	33	Deferred Amount (DEF 2nd Instalment)	32816.65
35	Total KVAH Import/export	52136.7 / 113280	34	(I) Tariff Subsidy	0
36	Tr. Losses (KWH)	0 / 0		(II) Hall Strom/ Other Subsidy	0
37	Tr. Losses (KVAH)	0 / 0	35	Amount (Sr no 31+32-33-34)	0
38	Tr. Losses (KVA)	0 / 0	36	Amount of Solar Power Purchased	1195455.92
39	Net Import/Export (KWH)	0 / 62201.1	37	Amount of Solar Power Adjusted against Bill(Sundry	0
40	Net Import/Export (KVAH)	0 / 61143.3	38	Amount of Solar Power Payable to Consumer	0
41	Net Import/Export (KVA)	0 / 90.6	39	Amount Payable By consumer up to Due Date	0
42	Billing Demand	0 / 1867.5	40	LPS/DPS	1195456
43	Power Factor	0 / 0.99	41	Amount Payable After Due Date (Sr No 39 + 40)	21906.72
44	Billed Units	0 / 62201.1			1217363

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	Ritanand Balved EDUCATION FOUNDATION VILL-KANT-KALWAR	Remarks:	
Bill Month	202112	Bill No	122122312
K. No.	210524024337	Mode of Payment Cash/Cheque No	
Binder No/ Account No.	03010034	Payment Date	20-12-2021
SDO Code	2105240	Amount Payable By consumer up to Due Date	1195456
		Amount Payable After Due Date	1217363

AMITY UNIVERSITY RAJASTHAN Administration

10/11

AMITY UNIVERSITY
RAJASTHAN

Report on Earth Day (April 22nd, 2021) celebrations by the Center for Ocean-Atmospheric Science & Technology (COAST), Amity University Rajasthan

Earth Day 2021 was celebrated in Amity University Rajasthan, with full vigor and enthusiasm to understand the current challenges and potential solutions to restore our mother Earth for sustainable development and growth of all living beings. Due to pandemic (COVID-2019), Earth Day 2021 was organized online a guest lecture by an eminent scientist of the country, Dr. Atul Kumar Sahai, Scientist-G at the Indian Institute of Tropical Meteorology (IITM), Pune. Dr. Sahai graced the occasion by delivering a lecture via an online platform on the "Role of MoES in Enhancing Water Security over India". Before the talk started, Prof. (Dr.) P.V.S. Raju, Director of the Center (COAST), welcomed and introduced Dr. Sahai to all the participants.

Dr. Sahai emphasized the current global scenario of water security and associated crisis and how MoES (ministry of Earth Sciences, India) is countering the challenge of water-related issues in the country, especially in the light of climate change. Further, elaborated the role of water in the socio-economic growth, environmental, and political perspective of the country. Dr. Sahai enlightened us on the potential causes of water security such as increasing water demand due to population increase and industrialization, degrading water quality because of human intervention, natural causes such as monsoon patterns in India, choice of agricultural practices (growing cash crops versus food crops), human-induced deforestation, and other natural and anthropogenic causes of declining water availability. Dr. Sahai cited the reports from Niti Aayog (2018) suggesting India is on the verge of facing the worse water crisis ever. The Niti Aayog report predicts that because of increasing population demand for food production and industrial setup, our water resources will be under immense pressure as groundwater withdrawal has already been at threatening increasing levels in northwestern states (e.g., Punjab, Haryana, and Rajasthan) in conjunction with declining recharge levels due to lack of monsoon rains (causing rivers running dry) or increasing levels of impermeable surfaces in urban developments.

To address the alarming issue of water security in India, Dr. Sahai outlined the plans by the MoES and other initiatives taken by locals to the Government of India level. He presented examples from ancient India where communities were more responsible and visionary in protecting and preserving our most important natural resource -Water. For example, Kundi systems in Rajasthan, Zings in Ladakh, Guls in Himalayan region, Ahar Pynes in South Bihar, Bamboo drip irrigation in Meghalaya, Madakas in Karnataka and Kerala, and Cascade tank methods in Tamil Nadu were a few traditional methods of rainwater harvesting that were actually originated from a scientific mindset of those communities. The need of the hour is to think and apply such techniques and encourage the population to innovate more for the future to preserve and protect water for our sustainable future. Dr. Sahai further emphasized the need to harvest rainwater, to encourage micro-irrigation and crop diversification, to utilize nature's support in cultivating organic produces, to

recycle wastewater into the agricultural fields, and managing aquifer recharge to increase groundwater levels that should be considered as major action plans to counter increasing water deficit in the country.

Dr. Sahai further elaborated the initiatives taken up by the Government of India such as the Groundwater Bill 2017, Namami Gange Scheme to protect and clean River Ganga by human efforts, and by encouraging public-private partnership (by giving incentives to private industries). MoES, a Govt of India functionary, is also contributing by producing and delivering science-based hydro-meteorological and climate information to the community and other interested stakeholders. Dr. Sahai elaborated on the role and tasks completed by MoES in imparting regular information on monsoonal patterns for decades. He further emphasized that MoES has successfully been able to predict monsoonal patterns over many years and has been instrumental in predicting extreme rainfall events over many places in India. The information produced by MoES should be taken into account with full confidence and must help in managing our water securities. Dr. Sahai concluded that prioritizing the need for rainwater harvesting, judicious consumptive uses of water resources, and public-private collaborative approaches are the key to counter water security issues in India.

Finally, Dr. Sahai responded to a few questions or concerns raised by the participants on the role of MoES in tackling water-related issues.

Before signing off the meeting, Prof. (Dr.) P.V.S. Raju delivered the vote of thanks to Dr. A.K. Sahai, who enlightened all the participants with great knowledge and information on current and upcoming challenges of water-related issues in the country and discussed few potential solutions to attack the problem with confidence. Dr. Raju take this opportunity to place his sincere thanks to Hon'ble Chancellor Sir, Dr. Aseem Chauhan for his constant Support and help. He also thank Prof. Amit Jain, Pro Vice Chancellor, AUR for his encouragement to organizing this event.

Earth Day 2021 was concluded with an increased level of understanding about our most precious and most wasted natural resource -Water. In the end, We promised and committed that we all should work in accordance and complement each other to protect and preserve water on our planet Earth and help in restoring its glory for the survival of living beings for generations.

AMITY UNIVERSITY
JAIPUR

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

REGISTER NOW!

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

AMITY UNIVERSITY
RAJASTHAN

Brief Report World Environmental Day 2021

AMITY-COAST Organised World Environmental Day 2021 on the theme "Reimagine, Recreate, Restore" on 5 th June 2021. Prof Shreeram Inamdar, Director, Water Science & Policy Graduate Program Plant & Soil Sciences Department, University of Deleware discussed on Human degradation of natural ecosystem and their restoration and Prof. S. L. Kothari, Vice President, Amity Science, Technology & Innovation Foundation (ASTIF) talked on desert ecosystem and sustainability.

Speaker: Prof. S. L. Kothari

Topic: Desert Ecosystem and Sustainability

Speaker covered the following points:

- Started with the basic concept about the ecosystem, its structure and ecosystem restoration need for damaged, degraded or destroyed by human activities.
- Further he explained types of ecosystem among which focused on desert ecosystem & its characteristics.
- To explain about desert ecosystem sustainability, speaker gave an example of dryland model tree ***Prosopis Cineraria (Khejri)***. Also provided he information about its occurrence around the world deserted areas, plants adaptive capabilities to sustain in desert conditions, benefits of this plant such as water mobilization and nitrogen fixation.
- Speakers presented some of the wonderful pictures around the Rajasthan desert area and their sample collection work.
- He concluded with presenting about work done by our ancestors, as *Yagya*, tree saving fights and necessity to conserve nature for development of sustainable ecosystem.
- Take home message from speaker is *campaign has to be arranged to save environment and follow sustainable way of living in all walks of life*.

Speaker: Prof. Shreeram Inamdar

Topic: Human degradation of natural ecosystem and their restoration.

Speaker covered the following points:

- Speaker started with the research interest followed by basics of ecosystem restoration.
- He presented the river pollutions pictures around the world and pointed out about *landscape have memories* & *Legacies Persist.*
- Past and current land practices can affect current water quality and watershed health.
- As per speaker pollution is easy but restoration is difficult, but restoration can be successful if well-defined and implemented. To support this he showed some of the restoration images of past and present landscape areas and provided an example of large scale degradation and landscape alteration.
- Explained about the story of legacy sediments in the US in Mill Dams which focuses on evolution of sediments over the region and water quality concerns.
- Mitigation and restoration of legacy sediments and streams along with management and policy point of views discussed.
- Speaker pointing about restoration which may take more time, cost, need and its sustainability and finished his talk.
- Take home message from speaker is *Easier to degrade ecosystem than restore!*
- Climate change and atmospheric pollution awareness is necessary to conserve nature.

Panel discussion has been followed by the question answer sessions.

AMITY UNIVERSITY
RAJASTHAN

Prof. (Dr.) G. K. Aseri
Provost, Dean Academics &
Director - Amity Institute of Microbial Technology
Mob. No.- +91-9414412560
e-mail-gkaseri@jpr.amity.edu

Kant Kalwar, NH 11- C
JAIPUR (Rajasthan) - 303 002
Tel. : 01426 - 405678
Fax : 01426 - 405679

AIMT/4019

Dated: - November 26, 2019

To

Shree Ashwini Jaiswal
Dy General Manager
Rajasthan State Mines and Minerals Ltd.
Govt. of Rajasthan
Jaipur

Subject: Sharing of Research Information: "Feldspar Mine Spoil Rehabilitation".

Respected Sir,

Greetings!

Microbiology Department is working in the area of Waste land Rehabilitation, Soil Fertility, Plant Nutrient influx, Plant & Animal Disease Management, Food preservation & Processing, Fermentation Technology with support grant from DST, DBT, ICAR, ICMR, MoFPI, Ministry of Agriculture and Genomics – USA.

We are interested to collaborate with you in transferring the technology developed by one of our Ph. D scholars based on the rehabilitation of feldspar mine spoil with the use of selected plants and identified microorganisms.

We have observed exiting results especially in improving the soil fertility which have directly supported plant growth and moving towards microclimate development. The same can be used for soil health restoration as our state is mining rich and it is now mandatory also to restore the mine site after each lease, therefore we believe this work will be an addition to strengthen our environment consciousness.

Here we are sharing the brief of the work done and its outcome for your kind information, copy of detail report / Ph.D. thesis can also be provided after her Viva – Voce.

We would like to contribute in waste land rehabilitation of our state.

Thanking you

G. K. Aseri

PROVOST
AMITY UNIVERSITY RAJASTHAN
Kant Kalwar, NH-11C,
Jaipur-Dehli National Highway
Jaipur (Rajasthan) 303002

AMITY UNIVERSITY
RAJASTHAN

Prof. (Dr.) G. K. Aseri
Provost, Dean Academics &
Director - Amity Institute of Microbial Technology
Mob. No.- +91-9414412560
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Kant Kalwar, NH 11- C
JAIPUR (Rajasthan) - 303 002
Tel. : 01426 - 405678
Fax : 01426 - 405670

AIMT/4018

Dated: - November 26, 2019

To

Sh. Ayodhya Prasad Gaur
General Manager
Cairn Oil & Gas, Vedanta Limited
Gurgaon, India.

Subject: Sharing of Research Information: "Feldspar Mine Spoil Rehabilitation".

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JAIPUR (Rajasthan) - 303 002
Tel. : 01426 - 405678
Fax : 01426 - 405679

AIMT/ 407

Dated: - November 26, 2019

To

Sh. Pawan Kumar Goyal
Chairman
Rajasthan Pollution Control Board,
Govt. of Rajasthan
Jaipur

Subject: Sharing of Research Information: "Feldspar Mine Spoil Rehabilitation".

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G. K. Aseri

PROVOST
AMITY UNIVERSITY RAJASTHAN
Kant Kalwar, NH-11C,
Jaipur-Dehli National Highway
Jaipur (Rajasthan) 303002

Letter of Agreement (LoA)

Between

INDIA METEOROLOGICAL DEPARTMENT
(M/o Earth Science, Govt. of India)

&

AMITY UNIVERSITY RAJASTHAN

The India Meteorological Department (IMD) was established in 1875 and is the nodal agency under the Ministry of Earth Sciences (MoES), Govt. of India. From a modest beginning in 1875, IMD has progressively expanded its infrastructure for meteorological observations, communications, forecasting and weather services and it has achieved a parallel scientific growth. It has continuously ventured into new areas of application and service, and steadily built upon its infra-structure in its history of 140 years. It has simultaneously nurtured the growth of meteorology and atmospheric science in India. Today, meteorology in India is poised at the threshold of an exciting future.

Amity University Rajasthan, Jaipur has been established by the Ritnand Balved Education Foundation (RBEF) New Delhi, which is a society registered under the Societies Registration Act, 1860 and set up under the Amity University Rajasthan Act 2008, notified by Government Notification No F.2 (10) vidhi/2. It is a fully government recognized University with the right to confer degrees as per Sections 2f and 22(1) of the UGC Act. The University has a beautiful tree-lined campus spread over 152 acres of land on the Delhi-Jaipur Highway. The campus includes a rainwater harvesting lake with running fountains, a Neem forest, and an amphitheatre that can seat 1,500 spectators.

In the ambit of above AWS, India Meteorological Department hereinafter referred as IMD and Amity University Rajasthan, Jaipur hereinafter referred as AU sign this Letter of Agreement, hereinafter referred as LoA jointly to meet the requirements of IMD and AU.

A. Scope of this Agreement(LoA)

1. Considering the increased demand of weather data & products and improving weather & climate services, establishment of an Automatic Weather Station (hereinafter referred as AWS) in the campus of Amity University Rajasthan (AU), Jaipur.

2. Mutual co-operation in the field of Environmental Monitoring & Research between both institutes.

3. To provide an opportunity to utilize meteorological & environmental data for academic and research purpose to help public in general of the region and for general awareness.

AMITY UNIVERSITY RAJASTHAN JAIPUR

B. Responsibilities under this LoA

1. For setting up of AWS, AU shall provide open levelled space having dimension at least 15 meter x 10 meter for Automatic Weather Station (AWS) with good exposure conditions (to be inspected by installations party of IMD). The said open space will be fenced by AU with complete civil & electrical works required for installation of AWS.

2. AU shall arrange & provide required electricity, water supply, network connectivity etc.

3. IMD will install AWS in the campus of AU, Jaipur at the location finalised by common consent of both parties.

4. IMD will supply meteorological instruments and will provide technical maintenance/ guidance at its cost but during the period of installation/ inspection / maintenance of AWS, required necessary support / hospitality to visiting IMD officials is to be extended by AU.

5. All other support / infrastructure will be provided by AU. Cost of infrastructure its maintenance and other recurring / monthly expenditure will be borne by AU.

6. AU shall ensure complete safety & security of AWS installed in the premises of AU. In case of theft, unnatural wear & tear, AU will be solely responsible for that.

7. AU with the concurrence of IMD will appoint a suitable supervisory officer amongst officers under his establishment to act as Honorary Superintendent /In-charge of the AWS. He / she will be responsible for day-to-day upkeep of the AWS and will contact IMD in case of any problem/query. The Honorary Superintendent will act as the medium of correspondence between IMD and AU.

C. Mutually Agreed Conditions

1. AWS data will be sole property of IMD but AU can use this for its own academic purpose only.

2. Both IMD & AU intend to co-operate their sponsored students/employees in various Research and Development activities associated with their fields.

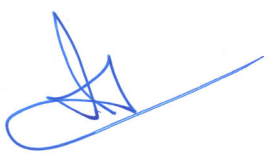
3. IMD and AU will jointly explore weather monitoring requirements and the facilities of AU may be used by IMD for providing capacity building training to farmers.

D. Review and Monitoring Mechanism

This LoA does not constitute a legal or contractual obligation on the part of either party. It reflects an arrangement that currently agreed by the parties involved. IMD & AU will periodically review this collaboration to determine whether it should be amended, renewed, or cancelled and suggest on any directional change, if required.

E. Confidentiality

Both parties acknowledge that any information disclosed by or on behalf of any of the parties which is not in the public domain, is confidential and may not be used or



disclosed to any other party (either before or after the termination of this LoA for any reason whatsoever except when it may be strictly necessary for the due and effectual rendering of the services). Any scientific data exchanged/shared between the parties for joint research/supervision will not be transferred to third party without written consent of the parties.

F. Intellectual property

It is the intention of the parties that any and all benefits derived from the collaborative efforts of the two parties will be the joint property of both the parties.

G. Settlement of Disputes

Each Party shall consult with the other as and when required on any matter that may affect the proper implementation of this agreement. Any dispute regarding interpretation or implementation of this agreement or its associated Implementing Agreements or Arrangements will be resolved through mutual discussion between the Parties.

H. Entry into Force & Validity of Agreement

The LoA will come into effect from the date of signature and will be valid for 05 years. It may be extended/ modified in joint consultation of both parties as and when required for better coordination, services and academic/research purpose. After the expiry of this LoA, a fresh agreement in accordance with the mutual agreed covenants, agreements and conditions will be signed.

I. Termination of LoA

This LoA may be terminated at any time by either party upon three (03) months written notice to the other party.

This LoA has been prepared in duplicate. Each copy of LoA has been retained by both parties for record.

Signed and executed this day ..... 2016 in token of having accepted the terms and conditions mentioned therein by both parties.

On behalf of IMD
Signature & Official Seal

(15/11/2016)

Dy. Director General of Meteorology
India Meteorological Department
Lodi Road, New Delhi-110 003

Dr. S. D. ATTRI
Dy. Director General of Meteorology (International)
भारत मौसम विज्ञान विभाग
India Meteorological Department
लोदी रोड, नई दिल्ली-110003
Lodi Road, New Delhi-110003

Witnesses :

1. 15/11/16

2. _____

On behalf of AU
Signature & Official Seal

(_____)

AMITY UNIVERSITY RAJASTHAN JAIPUR

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

Registrar
Amity University Rajasthan
Jaipur

1. _____

2. _____

AMITY UNIVERSITY

RAJASTHAN

Amity University Rajasthan has established a dedicated research centre ,"COAST- Centre for Ocean & Atmosphere Science and Technology", in the year 2015 to plan and execute climate related R&D.

Centre is first of its kind in the state of Rajasthan to promote interdisciplinary research on numerical modeling of Ocean & Atmosphere state, monsoon studies, climate modeling, extreme weather as well as academic programs at graduate, post-graduate and doctoral levels. The Research is focused on

- Mesoscale Modeling; Prediction of High Impact Weather Events
- Regional Climate Modeling and Diagnostic Studies
- Ocean Modeling
- Hydrology, Glaciers and Climate Change
- Environmental Monitoring and Modeling

Environmental Monitoring Facility (EMF) has been established at Amity COAST with the collaboration of India Meteorological Department (IMD), New Delhi. Currently the EMF lab has The Sky Radiometer to measure scattered solar radiation at multiple wavelengths for the estimation of aerosol properties & Aerosol Optical Depth (AOD). Aethalometer: to measure the concentration of optically absorbing ('black') suspended particulates in a gas colloid stream; commonly visualized as smoke or haze, often seen in ambient air under polluted conditions.

In addition, Amity COAST is also equipped with High Performance Computing server comprising of 3 nodes with total 96 cores, providing ~ 6 Tera Flops clock speed and 184 TB storage. CISCO network switch of 100 GB/s is connected to HPC for fast data transfer to remote users. 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. Climate Simulation Lab (CSL) is placed with six high-end standalone workstations extensively used by the Research Scholars for weather and climate modeling.

Besides offering Phd and PG Programs in domain, the centre is actively involved in extension activities with state and central govt, in form of joint Seminar/workshops. In recent past the Centre has participated in Central University of Rajasthan and Kagawa University, Japan.

AMITY UNIVERSITY

RAJASTHAN

Amity University Rajasthan has established a dedicated research centre ,"COAST- Centre for Ocean & Atmosphere Science and Technology", in the year 2015 to plan and execute climate related R&D.

Centre is first of its kind in the state of Rajasthan to promote interdisciplinary research on numerical modeling of Ocean & Atmosphere state, monsoon studies, climate modeling, extreme weather as well as academic programs at graduate, post-graduate and doctoral levels. The Research is focused on

- Mesoscale Modeling; Prediction of High Impact Weather Events
- Regional Climate Modeling and Diagnostic Studies
- Ocean Modeling
- Hydrology, Glaciers and Climate Change
- Environmental Monitoring and Modeling

Environmental Monitoring Facility (EMF) has been established at Amity COAST with the collaboration of India Meteorological Department (IMD), New Delhi. Currently the EMF lab has The Sky Radiometer to measure scattered solar radiation at multiple wavelengths for the estimation of aerosol properties & Aerosol Optical Depth (AOD). Aethalometer: to measure the concentration of optically absorbing ('black') suspended particulates in a gas colloid stream; commonly visualized as smoke or haze, often seen in ambient air under polluted conditions.

In addition, Amity COAST is also equipped with High Performance Computing server comprising of 3 nodes with total 96 cores, providing ~ 6 Tera Flops clock speed and 184 TB storage. CISCO network switch of 100 GB/s is connected to HPC for fast data transfer to remote users. 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. Climate Simulation Lab (CSL) is placed with six high-end standalone workstations extensively used by the Research Scholars for weather and climate modeling.

Besides offering Phd and PG Programs in domain, the centre is actively involved in extension activities with state and central govt, in form of joint Seminar/workshops. In recent past the Centre has participated in Central University of Rajasthan and Kagawa University, Japan.

2nd International Workshop on "Extreme Severe Storms and Disaster Mitigation Strategy (ESSDMS-2)"; PVR

Extreme Severe Storms Disaster Mitigation Strategies <essdms@curaj.ac.in>

Sun 2/23/2020 7:12 PM

To: Prof.(Dr.) P.V.S. Raju <pvsraju@jpr.amity.edu>

Cc: Dr Subrat Kumar Panda <subrat.atmos@curaj.ac.in>; Dr. Someshwar Das <somesh@curaj.ac.in>

1 attachments (711 KB)

Brouchure-ESSDMS2-v4.pdf;

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We look forward to hearing from you at your earliest convenience.

Best Regards,

Coordinators (PI/ Co-PIs):

Prof. Someshwar Das (Central University of Rajasthan, India)

Prof. Toru Terao (ICEDS/Kagawa University, Japan)

Prof. Hirohiko Ishikawa (DPRI/Kyoto University, Japan)

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International Workshop on "Extreme Severe Storms and Disaster Mitigation Strategy (ESSDMS)"

Chair Person (Local Organizing Committee): Prof. Someshwar Das
Convener: Dr. Subrat Kumar Panda
Department of Atmospheric Science,
Central University of Rajasthan, Kishangarh, Ajmer
Phone: :+91-9818450738, +91-7427804360,
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About the University

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School of Earth Sciences

The School of Earth Sciences is committed to provide interdisciplinary knowledge in the field of Earth Sciences and their linkage with societal development. Presently it has 2 departments (Atmospheric & Environmental science). The prime goal of the school is to train manpower with scientific knowledge and technical skills in the field of earth sciences to serve local and global communities.

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DPRI-KU

Disaster Prevention Research Institute (DPRI)-Kyoto University (KU), Japan

CENTRAL UNIVERSITY OF RAJASTHAN 2009

ICEDS

Sumitomo Foundation

JOINTLY ORGANIZED BY

Department of Atmospheric Science
School of Earth Sciences
Central University of Rajasthan, INDIA

And

International Consortium for Earth and Development Sciences (ICEDS), Kagawa University, JAPAN

Chief Patron

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(Vice Chancellor, CURAJ)

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Prof. Neeraj Gupta (Dean Academics)
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Chairperson

Prof. Someshwar Das (Chair)
Dr. L. K. Sharma (Co-Chair)

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Prof. Rajesh Kumar	CURAJ
Dr. Devesh Sharma	CURAJ
Dr. Subrat Kumar Panda	CURAJ
Dr. Garima Kaushik	CURAJ
Dr. Alok Kumar	CURAJ
Dr. Ritu Singh	CURAJ
Dr. Chinmay Malik	CURAJ
Dr. Jayanti Pal	CURAJ
Dr. Shailesh Patidar	CURAJ
Dr. Nivedita Chaudhary	CURAJ

About the Workshop

Over the South Himalayan range, many severe atmospheric mega-disasters occur due to extreme rainstorm events. In June 2013, severe rainstorm (also known as cloudburst) caused more than 4000 death because of flooding and landslides in Uttarakhand Himalayan region near the Kedarnath shrine in India.

On 31st March 2019, Nepal witnessed the 1st Tornado in its recorded history that killed 30 and injured more than 1150 people. Many such events occur annually over the Himalayan region, where the terrain is complex, economy is poorly developed and fragile. Such atmospheric mega-disasters in this region are expected to increase in number rapidly due to global warming. The economic development in South Asian countries on the other hand results in the unplanned human intervention in nature, rising disaster vulnerabilities in these areas. There is an urgent need to facilitate implementation of early warning system in different time scales for the South Himalayan severe rainstorm disasters. Extreme rainfall events are now catching new interests of wide research communities in South Asia. We are making an attempt, to foster international linkage and collaboration in this field among interdisciplinary researchers, which will emit an agenda for the implementation of early warning system of severe rain storm disaster in South Himalayan region.

In this context, the 1st an international workshop was organized at Central University of Rajasthan(CURAJ) during December 2018 in collaboration with the Disaster Prevention Research Institute (DPRI), Kyoto University, and International Consortium for Earth and Development Sciences (ICEDS), Kagawa University, Japan.

The 2nd international workshop on this subject is being organized at CURAJ during 27-29 February 2020. The objective of this workshop is to foster research ideas for modeling, process studies, rainfall retrievals through in-situ observation, Satellites & Radars, and development of early warning system for severe storms through collaboration with the affected countries.

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Weather

Weather is generally cold in the month of February and March in CURAJ. Average minimum and maximum temperatures are in the range of 9-12 ℃ and 23-26 ℃ respectively. Days are warm, but nights are cold. Average rainfall is about 2-3 mm.

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AMITY UNIVERSITY

RAJASTHAN

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The center is closely working with India Meteorological Society Jaipur Chapter, and Unnat Bharat Abhiyan (UBA) to work with local community on risk early warning on hydro- meteorological hazards and climate change disaster.

The University has organized interactive sessions and awareness with 5 Villages under the UBA, on weather related hazards including lightning safety.

Lightening Safety Awareness Program

In collaboration with India Meteorological Society, (IMS) Jaipur Chapter, Unnat Bharat Abhiyan Cell of Amity University Rajasthan organized a community awareness program on Lightening Safety on 8th August 2020 at 11.00 am in Kant village and at 12.30 am in Jaichandpura village.

UBA Convenor Dr Manoj Kumar said that every year many people die due to lightning. Recently, 20 people including seven children were killed and 21 were injured in separate incidents of lightning in several parts of Rajasthan. Of these, 12 people died due to lightning on the watch tower of Amer Fort in Jaipur. Hence, this program was organized to educate the local people on the precautions to be taken before lightning as well as to take proper shelter during and after the lightning strike.
The keynote speaker of the program was Dr. Akhilesh Mishra who gave information about the related topic and various apps run by the government like Meghadoot, Rain Alarming, Damini etc. He told the farmers about the benefits of these apps. Along with this, pamphlets were also given to the people present there for protection from lightning.

Registrar Dr. Nitin Bhardwaj thanked the faculty and all the staff for organizing awareness programs in the village and appealed to the villagers to follow the instructions given under the programme. Dr. Vinod Singh Gaur, Mr. Amit Chaurasia, Mr. Vinod Sharma etc. were present in this program.


AMITY UNIVERSITY
RAJASTHAN
उन्नत भारत अभियान एवं India Mete ical Society, Jaipur Chapter
के तत्वाधान में
आकाशीय बि
सुरक्षा जागरूक
Organised by: Amity University Rajasthan, Jaipu Society, Jaipur Chapter


AMITY UNIVERSITY
RAJASTHAN
India Meteorological Society, Jaipur Chapter
के तत्वाधान में
आकाशीय बिजली
सुरक्षा जागरूकता कार्यक्रम


AMITY
UNIVERSITY
RAJASTHAN

AMITY UNIVERSITY
RAJASTHAN

Amity University has joined a select league of colleges and educational institutions that have gone solar to meet energy demands and usher in a greener, cleaner tomorrow. Amity's solar PV projects have been installed in the Jaipur campus with a cumulative capacity of 1.8 MW. These projects have been developed by Clean Max Solar under OPEX model. The Amity University Jaipur campus meets almost 50 percent of its electricity requirement from solar. 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.

Other Carbon emission reduction initiatives

Commitment to carbon neutral university Have a target date by which it will become carbon neutral according to the Greenhouse Gas Protocols?
scope 1- (a) Increase the number of Battery-Operated Cars within the campus premises (b) Shifting from Tube lights to LED Lights by 2023 (entire campus) (c) Restrict the use of Chiller plant during Winters
scope 2- (a) Having a Green Audit Policy in place by 2021 end. (b) Restricting movement of Cars within the campus and encouraging Faculties/Staff/Students to use bicycle with the campus.

आकाशीय बिजली सुरक्षा-जागरूकता कार्यक्रम

उन्नत भारत अभियान सेल, एमिटी यूनिवर्सिटी राजस्थान एवं भारत मौसम विज्ञान सोसायटी,(IMS) जयपुर चैप्टर के सहयोग से 8 अगस्त 2021 को सुबह 11.00 बजे कांट गांव में एवं 12.30 बजे जयचंदपुरा गांव में आकाशीय बिजली से सुरक्षा जागरूकता पर एक सामुदायिक कार्यक्रम आयोजित किया गया।

यूबीए संयोजक डॉ मनोज कुमार ने बताया कि हर साल आकाशीय बिजली गिरने से कई लोगो की जान जाती है। अभी हाल ही में राजस्थान के कई हिस्सों में बिजली गिरने की अलग-अलग घटनाओं में सात बच्चों सहित 20 लोगों की मौत हो गई और 21 लोग घायल हो गए. इनमें 12 व्यक्तियों की मौत जयपुर में आमेर किले के वाच टावर पर बिजली गिरने से हुई। इसलिए स्थानीय लोगों को बिजली गिरने से पहले रखी गई सावधानियों के साथ-साथ बिजली गिरने के दौरान और बाद में उचित आश्रय लेने के विषय पर शिक्षित करने के लिए इस कार्यक्रम का आयोजन किया गया।

भारत मौसम विज्ञान सोसायटी, जयपुर चैप्टर के सचिव डॉ पीवीएस राजू ने कार्यक्रम में उपस्थित सभी लोगो को आकाशीय बिजली के बारे में जानकारी देते हुए जागरूक किया। उन्होंने कहा कि एनसीआरबी के द्वारा पिछले साल सितंबर में जारी रिपोर्ट के अनुसार वर्ष 2019 में देश में बिजली गिरने से करीब तीन हजार लोगों की मौत हो गई। इसमें कहा गया था कि प्राकृतिक आपदाओं में सबसे ज्यादा जनहानि इसी से होती है।

कार्यक्रम के मुख्य वक्ता डॉ अखिलेश मिश्रा थे जिन्होंने संबधित विषय के बारे में जानकारी दी एवं सरकार के दवारा चलाये गए विभिन्न एप्स जैसे की मेधदूत, रेन अलार्मिंग, दामिनी आदि के बारे में जानकारी दी। उन्होने किसानो को इन एप्स के फायदों के बारे में बताया। साथ ही में आकाशीय बिजली से सुरक्षा हेतु वहां पर उपस्थित लोगो को पेम्फ्लेट्स भी दिए गए।

रजिस्ट्रार डॉ नितिन भारद्वाज ने फैकल्टी एवं समस्त स्टाफ को गाँव में जागरूकता कार्यक्रम आयोजित करने के लिए धन्यवाद दिया एवं कार्यक्रम के अंतर्गत दिए गए निर्देशों की पालना के लिए गाँव वालो से अपील की। इस कार्यक्रम में विश्वविधालय के डॉ विनोद सिंह गौर, श्री अमित चौरसिया, श्री विनोद शर्मा आदि उपस्थित रहे।

Lightening Safety Awareness Program

In collaboration with India Meteorological Society, (IMS) Jaipur Chapter, Unnat Bharat Abhiyan Cell of Amity University Rajasthan organized a community awareness program on Lightening Safety on 8th August 2021 at 11.00 am in Kant village and at 12.30 am in Jaichandpura village.

UBA Convenor Dr Manoj Kumar said that every year many people die due to lightning. Recently, 20 people including seven children were killed and 21 were injured in separate incidents of lightning in several parts of Rajasthan. Of these, 12 people died due to lightning on the watch tower of Amer Fort in Jaipur. Hence, this program was organized to educate the local people on the precautions to be taken before lightning as well as to take proper shelter during and after the lightning strike.

The keynote speaker of the program was Dr. Akhilesh Mishra who gave information about the related topic and various apps run by the government like Meghadoot, Rain Alarming, Damini etc. He told the farmers about the benefits of these apps. Along with this, pamphlets were also given to the people present there for protection from lightning.

Registrar Dr. Nitin Bhardwaj thanked the faculty and all the staff for organizing awareness programs in the village and appealed to the villagers to follow the instructions given under the

programme. Dr. Vinod Singh Gaur, Mr. Amit Chaurasia, Mr. Vinod Sharma etc. were present in this program.


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08.08.2021


उन्नत भारत अभियान एवं India Meteorological Society, Jaipur Chapter
के तत्वाधान में
आकाशीय बिजली
सुरक्षा जागरूकता कार्यक्र
Organised by: Amity University Rajasthan, Jaipur &
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कांट व जयचंदपुरा में आकाशीय बिजली सुरक्षा का जागरूकता कार्यक्रम आयोजित

चंदवाजी (हुक्मनामा समाचार)। उन्नत भारत अभियान सेल, एमिटी यूनिवर्सिटी राजस्थान एवं भारत मौसम विज्ञान सोसायटी जयपुर चैप्टर के सहयोग से रविवार को कांट व जयचंदपुरा गांव में आकाशीय बिजली से सुरक्षा जागरूकता पर एक सामुदायिक कार्यक्रम आयोजित किया गया।यूबीए संयोजक डॉ मनोज कुमार ने बताया कि हर साल आकाशीय बिजली गिरने से कई लोगो की जान जाती है। अभी हाल ही में राजस्थान के कई हिस्सों में बिजली गिरने की अलग-अलग घटनाओं में सात बच्चों सहित 20 लोगों की मौत हो गई और 21 लोग घायल हो गए. इनमें 12 व्यक्तियों की मौत जयपुर में आमेर किले के वाच टावर पर बिजली गिरने से हुई। इसलिए स्थानीय लोगों को बिजली गिरने से पहले रखी गई सावधानियों के साथ-साथ बिजली गिरने के दौरान और बाद में उचित आश्रय लेने के विषय पर शिक्षित करने के लिए इस कार्यक्रम का आयोजन किया गया। भारत मौसम विज्ञान सोसायटी, जयपुर चैप्टर के

सचिव डॉ पीवीएस राजू ने कार्यक्रम में उपस्थित सभी लोगो को आकाशीय बिजली के बारे में जानकारी देते हुए जागरूक किया। कार्यक्रम के मुख्य वक्ता डॉ अखिलेश मिश्रा ने सरकार के दवारा चलाये गए विभिन्न एप्स जैसे मेधदूत, रेन अलार्मिंग, दामिनी आदि के बारे में जानकारी दी। उन्होने किसानो को इन एप्स के फायदों के बारे में बताया। साथ ही में आकाशीय बिजली से सुरक्षा हेतु वहां पर उपस्थित लोगो को पेम्फ्लेट्स भी दिए गए। रजिस्ट्रार डॉ नितिन भारद्वाज ने फैकल्टी एवं समस्त स्टाफ को गाँव में जागरूकता कार्यक्रम आयोजित करने के लिए धन्यवाद दिया एवं कार्यक्रम के अंतर्गत दिए गए निर्देशों की पालना के लिए गाँव वालो से अपील की। इस कार्यक्रम में विश्वविधालय के डॉ विनोद सिंह गौर, अमित चौरसिया, विनोद शर्मा आदि उपस्थित रहे।

आकाशीय बिजली से सुरक्षा पर जागरूकता कार्यक्रम, दामिनी एप के बारे में बताया

अचरोल/चंदवाजी | उन्नत भारत अभियान सेल, एमिटी यूनिवर्सिटी राजस्थान एवं भारत मौसम विज्ञान सोसायटी जयपुर चैप्टर के सहयोग से कांट एवं जयचंदपुरा गांव में आकाशीय बिजली से सुरक्षा जागरूकता पर एक सामुदायिक कार्यक्रम आयोजित किया गया। यूबीए संयोजक डॉ. मनोज कुमार ने बताया कि हर साल आकाशीय बिजली गिरने से कई लोगो की जान जाती है। अभी हाल ही में राजस्थान के कई हिस्सों में बिजली गिरने की अलग-अलग घटनाओं में सात बच्चों सहित 20 लोगों की मौत हो गई और 21 लोग घायल हो गए। इनमें 12 व्यक्तियों की मौत जयपुर में आमेर किले के वाच टावर पर बिजली गिरने से हुई। इसलिए स्थानीय लोगों को बिजली गिरने से पहले रखी गई सावधानियों के साथ-साथ बिजली गिरने के दौरान और बाद में उचित आश्रय लेने के विषय पर शिक्षित करने के लिए इस कार्यक्रम का आयोजन किया गया। भारत मौसम विज्ञान सोसायटी जयपुर चैप्टर के सचिव डॉ पीवीएस राजू ने आकाशीय बिजली के बारे में जानकारी देते हुए कहा कि प्राकृतिक आपदाओं में सबसे ज्यादा जनहानि इसी से होती है। कार्यक्रम के मुख्य वक्ता डॉ अखिलेश मिश्रा थे।

बसपा की बैठक चुनावों में एकजुट रहें

समर सहारा

शेखावाटी

सोमवार/ 9 अगस्त /2021

कांट व जयचंदपुरा में आकाशीय बिजली सुरक्षा से जागरूकता कार्यक्रम आयोजित

ग्रामीणों को किया जागरूक, एमिटी यूनिवर्सिटी के तत्वावधान में हुआ आयोजन

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पुलिस थाना कोतवाली की कार्रवाई: दो वाहन चोर गिरफ्तार, एक मोटरसाईकिल बरामद

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गौशाला में तो सब जाकर गाय की सेवा करते है पर सड़क पर बेसहारा गाय की सुध कोई नहीं लेता - राजवीर कुमार

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