



## WEBINAR REPORT ON

### “Research Interventions:- Mitigating Climatic Hazards

### An Academic Overview”

**nidm**  
Resilient India - Disaster Free India

**WEBINAR ON: Research Interventions: Mitigating Climatic Hazards an Academic Overview**

Prime Minister's 10 Point Agenda No. 6

15<sup>th</sup> JULY 2021  
11:00 - 13:00 Hrs

Registration Link: [training.nidm.gov.in](https://training.nidm.gov.in)

**PATRONS**

- Maj Gen M K Bindal, Executive Director, NIDM, Delhi
- Dr R C Srivastava, Vice-Chancellor, RPCAU, Bihar

**GUIDANCE**

- Prof Santosh Kumar, Head, GIDRR, NIDM, Delhi
- Shri Shekher Chaturvedi, Assistant Professor, NIDM, Delhi

**EXPERTS**

- Dr. Mithilesh Kumar, Director Research, RPCAU, Bihar
- Dr Ratnesh Kumar Jha, Project Director, RPCAU, Bihar
- Dr M C Manna, Professor, RPCAU, Bihar

Organised by  
India Universities and Institutions Network on Disaster Risk Reduction (IUIDRR)  
National Institute of Disaster Management (NIDM)  
Ministry of Home Affairs, Govt. of India  
in collaboration with  
Dr Rajendra Prasad Central agricultural University  
Pusa, Samastipur, Bihar

Coordinator & Convenor  
Dr Preeti Soni  
Senior Programme Consultant,  
IUIDRR, NIDM

Website: [www.nidm.gov.in](http://www.nidm.gov.in)

Stay Protected from Corona  
Wear your Mask Properly  
Follow Proper Hand Hygiene  
Maintain Social Distancing  
Get Vaccinated

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#### Session II:

*“Research Intervention: Mitigation drought and flood hazards”* By Dr. R. K. Jha, Project Director, Centre for Advance Studies on Climate Change, RPCAU. Pusa, Samastipur, Bihar

#### Session III:

*“Management of Soil during and after Climatic hazards”* By Dr M.C. Manna, Professor, RPCAU, Pusa, Samastipur. Bihar

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## ❖ **Background:-**

The world continues to experience the onslaught of natural calamities at regular interval and with increasing frequency as the days go by leading to the loss of countless lives of people and livestock and the destruction of property amounting to billions of rupees. India has unfortunately not been able to escape such onslaughts. In the recent past it has felt the might and force of natural phenomenon such as the “*fani*” Cyclone in 2019; the Kerala floods, Cyclone Titli and Gaza in 2018, and; the Kedarnath floods, Chennai flood, Phyllin and Hudhud 2013 Cyclones, to name but a few. In response to such disastrous events that have occurred around the world, the Global issues on Climate Change Adaptation (CCA), Sendai Framework for Disaster Risk Reduction (2015-2030), and Sustainable Development Goals (SDG) have initiated various steps to reduce the destructive impact of such events on life and property by 2030. In this regard, the Government of India, more specifically the Honourable Prime Minister, guided by the 10 points and 6 points agenda, has chosen to focus on the role of higher education institutions/universities for promoting education, innovative technology and research, facilitate capacity development, and their contribution to the decision-making for addressing local risks from natural calamities to reduce the risk of disasters in India. Therefore, the IUIN was established by the NIDM with the vision to build nation and communities which are safe and resilient to disasters, through education, knowledge creation, research, technology and dissemination.

## ❖ **Importance of Research in Disaster Management**

New Research techniques and methodology provide synoptic observations of natural disasters at regular intervals that help in better planning and management of disasters. India is prone to many natural disasters like floods, landslides, cyclones, forest fires, earthquakes, drought, due to climate change many changes has been observed in India To deepen our understanding of the risks due to Climate change, it is necessary to integrate research interventions by higher educational organizations, which is important in the endeavour towards risk education of disaster. Communication and navigation systems also play an important role in disaster management with improved technological options.

## ❖ Introduction of the Webinar:

A national webinar on “**Research Interventions: Mitigating Climatic Hazards an Academic Overview**” was conjointly organized by India University and Institution Network on Disaster Risk Reduction (IUIN-DRR)-National Institute of Disaster Management (NIDM), Ministry of Home Affairs (MHA), Govt. of India and Centre for Advance Studies on Climate Change, Dr. Rajendra Prasad Central agricultural University, Pusa, Samastipur, Bihar on 15<sup>th</sup> July 2021 to address the research interventions and strategies and its application in minimizing the disaster risk coming out of flood, drought, terminal heat, hailstorms or any other climatic issues with special focus on disasters related to agricultural production. The seminar was inaugurated and chaired by Dr. R.C. Srivastava, Vice-Chancellor of Dr. Rajendra Prasad Central Agricultural University in august presence of Major General, M.S. Bindal, Executive Director of National Institute of Disaster Management. Dr. Mithilesh Kumar, Director Research of Dr. RPCAU Pusa co-chaired the webinar. The webinar was conducted with the following key objectives.

### • The objectives of this webinar are as follows:

- To address the emerging challenges faced due to climate change
- To discuss research interventions and strategies on Disaster Risk Reduction
- To suggest way forwards to replicate the

### • Programme Schedule

Time	Topic	Resource Person/Experts
11:00 – 11:05	Welcome Address	Dr.Preeti Soni, SPC, IUINDRR-NIDM
11: 05- 11:10	Special Address by Co-Chairman	Dr. Mithilesh Kumar, Director Research, Dr. Rajendra Prasad Central Agricultural University, Pusa, Samastipur, Bihar
11:10-11:15	Keynote Address	Major Manoj Kumar Bindal, Executive Director, NIDM
11:15- 11: 40	Address by Chairman and presentation on “Mitigating air	Dr R. C. Srivastava, Vice- Chancellor,

	pollution due to wood/ dung based cooking through a sustainable economic intervention: Sukhet Model”	Dr Rajendra Prasad Central Agricultural University, Pusa, Samastipur, Bihar
11.40-12.05	Climate Change an Overview	Prof. Santosh Kumar, Head, GDRR Division, NIDM,MHA
12.05-12.30	Research Intervention: Mitigation drought and flood hazards	Dr. R. K. Jha, Project Director, Centre for Advance Studies on Climate Change, RPCAU. Pusa, Samastipur, Bihar
12.30- 12.55	Management of Soil during and after Climatic hazards	Dr M.C. Manna, Professor, RPCAU, Pusa, Samastipur. Bihar
12.55- 1.00	Vote of Thanks	Dr. Preeti Soni, SPC, IUINDRR-NIDM

#### ❖ *Session Wise Summary of the webinar*

- **Inaugural**

India University and Institution Network on Disaster Risk Reduction - National Institute of Disaster Management(IUINDRR-NIDM)in collaboration with Dr. Rajendra Prasad Central Agricultural University, Pusa, Samastipur, Bihar conducted a webinar on Research Interventions:- Mitigating Climatic Hazards an Academic Overview. The webinar began with Dr. Preeti soni, Senior Programme Consultant, IUINDRR-NIDM, introducing the webinar theme and the schedule of the programme. She also welcomed the dignitaries and participants and then gave an overview of the collaborative webinar.

- **Welcome Address**

Shri Shekhar Chaturvedi, assistant professor, National Institute of Disaster Management, Delhi Welcomed the dignitaries and all the participants and shared the agenda of the webinar. He discussed about the role of NIDM and Higher education on disaster management. He also emphasized about the climate change and human adaptations towards these climatic changes.

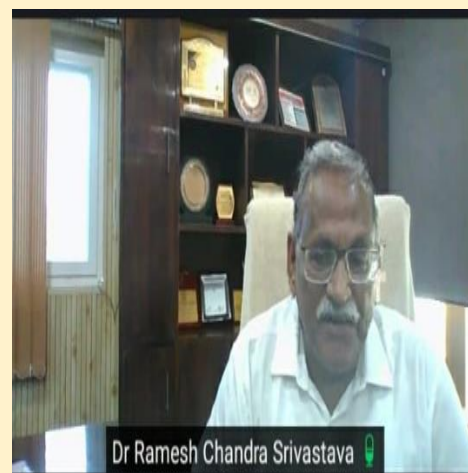
- **Special Address by Co-Chairman**

Dr. Mithilesh Kumar, Director Research, Rajendra Prasad Central Agricultural University, Pusa, Samastipur, Bihar. He thanked for inviting him on the webinar. Their University is closely collaborated with National Institute of Disaster Management for jointly working on Disaster Management. He highlighted various intervention strategies which has been initiated by the university in the state of Bihar for disaster risk reduction. He also discussed regional natural disasters including chemical, biological, radiological natural disasters and also emphasizes how the number technologies have been developed modulating these climatic problems. He gave brief about how universities helping in different areas of disasters and how we can work together to create the knowledge about Disaster risk reduction and to minimize the disaster risk.

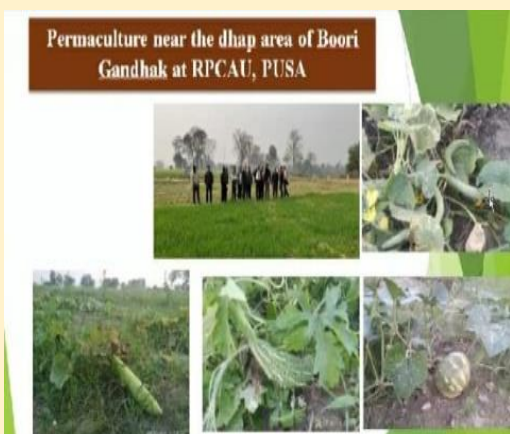


- **Technical session and address by Vice chancellor**

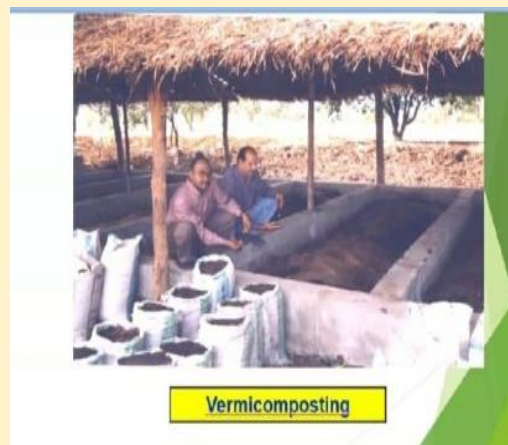
Dr. R. C. Srivastava, Honorable Vice- Chancellor, RPCAU, Pusa, Samastipur, Bihar and chairman of the webinar addressed how to mitigate the after effects of disasters through technologies generated by the University during last few years and delivered his intellectual speech on **“Mitigating air pollution due to wood/ dung based cooking through a sustainable economic intervention: Sukhet Model”**. This model strengthening Pradhan mantra Ujjawala yojna by exchanging cow dung with LPG cylinder refill. This model



of university is collecting garbage visiting door to door from the houses holds of the area and convert it into biofertilizer. Form the profit of selling the Biofertilizer University gives one LPG cylinder in every two month to the families who gave their garbage to the university collection. In this process of production of biofertilizer university has give n employment



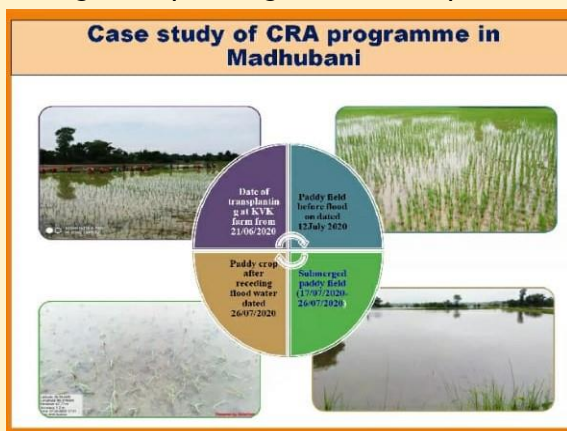
to He also spoke about the objectives of the Sukhet model, through this how University generated the employment for rural youth and also improve soil health and sanitation by recycling of household and Agro-waste. He also discussed about the mitigate the cow dung cake air pollution in a sustainable manner and the consequences of burning cow-dung cake.



He highlighted that how these smokes can harm human health especially women who are using cow-dung cake for cooking. The chairman described about uniqueness of the “Sukhet Model” and told how it could be helpful in mitigating the pollution hazard as well as the health hazard. In this model, all the household wastes, crop residues, cow dungs and other biodegradable wastes, that may otherwise cause hindrance in day to day life, are collected and converted into Vermicomposting. In return, university provides LPG cylinder in every two months equivalent to the estimated cost of garbage, thereby minimizing the air pollution as well as sanitizing the nearby environment. In addition, the production of vermicomposting from these residues generates revenue and provides employment to about 15 persons per unit. Thus the dreams of Hon’able Prime Minister of Swachh Bharat Abhiyan, Atmanirbhar Bharat Abhiyan and Ujjwala Abhiyan may come true through this single innovation. The model is being scaled up in 7 different locations in 7 different districts.

- **Session II: By Dr Ratnesh Kumar Jha, Project Director, Centre for Advanced Studies on Climate Change**

Dr Ratnesh Kumar Jha, Project Director, Centre for Advanced Studies on Climate Change, delivered lecture on “**Research Intervention: Mitigation drought and flood hazards**”. Dr. Jha discussed about different types of natural hazards and economic losses with specific reference to flood and drought hazards in Bihar. Dr. Jha told that most of the districts of Bihar are affected either by flood or drought or both in the same year. Dr. Jha emphasized that dry spells are increasing day by day while number of rainy days are decreasing in Bihar. The losses can be mitigated through rice-wheat cropping system through low cost assured irrigation. Further, he suggested that time management is also important here as timely sowing/transplanting of rice will provide extra vigor to the crop to cope up the probable

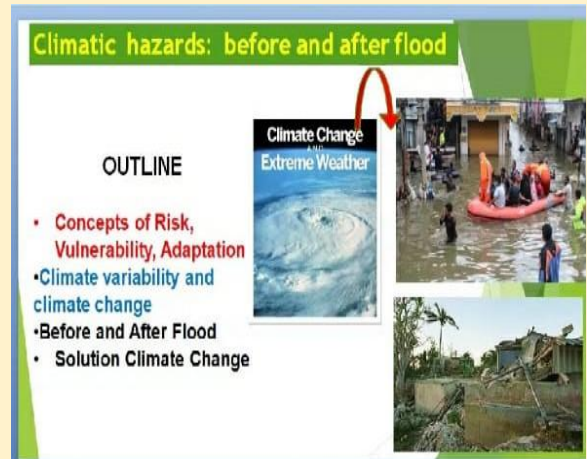


flood or drought and timely transplanting of rice will allow its harvesting in first week of November and timely sowing of wheat can also be achieved. Dr. Jha suggested drainage strategies through water recharge structure and assured irrigation through 3hp single phase tube well for modulating the climate hazards. Solar trees, Tractor mounted solar pumps and boat mounted irrigation system for

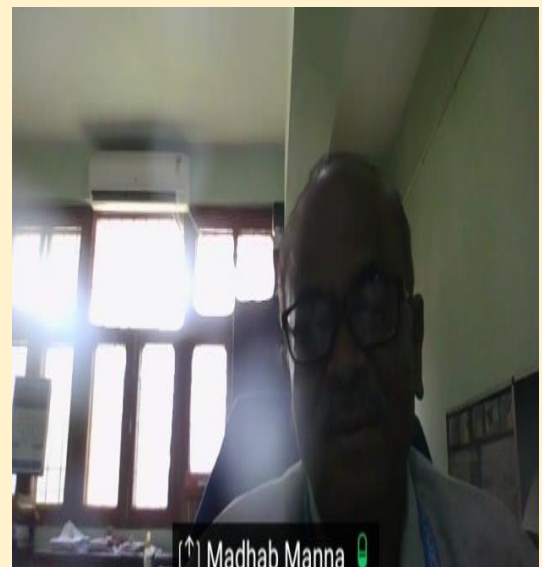
chaur lands, dhab lands and diara lands are most suitable.

He gave a light on how community life has improved in Sukhet and other places after installing 3hp single phase tube well and water recharge structure. People are able to cultivate wheat in that field where they used to avoid farming due to water logging conditions before use of water recharge structure. He also explained that through proper management practice, farmers from many water logged-flood affected areas were able to cultivate vegetables through RPCAU technology and interventions.

- **Session III: By Dr. Mc Manna, professor, Rajendra Prasad Agricultural University, pusa , Samastipur , Bihar**



After him, Dr. Mc Manna, professor, Rajendra Prasad Agricultural university, pusa, Samastipur , Bihar discussed about the climatic hazards. He discussed the key concept of any hazards. He gave a detailed presentation on the climate change. He beautifully explains how changing climate is responsible for change in sustainability, biodiversity, and ecosystem functioning. He explains the primary, secondary and long term effects of flood. He also talked about the kind of measures must have been taken before, during and after the flood. He also emphasized the strategies that farmers can use before flood. He gave a brief about the methods of decomposition of bio-waste which produces after the flood also spoke about the solution for climate change.



#### ❖ Key takeaways

- Higher Education institution such as Dr. Rajendra Prasad Central Agricultural University Pusa, Samastipur, Bihar Has an important role to play in risk reduction activities and must come forward for undertaking risk reduction activities
- Future collaborative training and awareness programme with the involvement of students and scholars of the University may be conducted.



- Disaster Management Plan within the University and other institutions must be prepared and drilled.
- The use of education and research must be acknowledged for improving the livelihood of the communities and such studies encouraged and confidence must be shown to research scientist.
- There is a need for data driven approach in disaster management with strong component of research and understanding.
- There should be committees in every institution for engaging people in disaster risk management and having public awareness program for people out of the institution.

#### ❖ Vote of Thanks

At the end of the webinar, Dr. Preeti soni, Senior Programme Consultant, IUINDRR-NIDM gave vote of thanks to Major General Manoj Kumar Bindal, Executive Director, NIDM, DR.R.C Srivastava, Vice Chancellor, Dr. Rajendra Prasad University for their support and all resource persons, collaborators, NIMD, NIDM IT team and participants who gave their valuable time and knowledge to make the programme successful. A total about 247 scientists, students, faculties and disaster working personnel from all over the country participated in the webinar.

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### List of the participants

S.No	NATIONAL INSTITUTE OF DISASTER MANAGEMENT	nidm.outreach04@gmail.com
1.	NATIONAL INSTITUTE OF DISASTER MANAGEMENT	nidm.outreach04@gmail.com
2.	Madhuri Pardeshi Rajput	madhurirajveer2020@gmail.com
3.	Vikas Reddu 47	vikasreddu200@gmail.com
4.	ajaya dalai	ajayadalai6@gmail.com
5.	Anamika Kumari	kumarianamikabhu1@gmail.com
6.	maansi	mansi.rai333@gmail.com
7.	Dr. Kumari Anjani	anjani@rpcau.ac.in
8.	RAJ KUMAR MANDAL	rkmandalpb@gmail.com
9.	Hari Sankar Rout	swati_pab@yahoo.co.in
10.	rachna mor 26	rachnamor90@gmail.com
11.	Punam Sitafale	pnmgadakh107@gmail.com
12.	MAJOHN CHALAKKAL	majohn.c.v@gmail.com
13.	Ganesh	ganeshvi2806@gmail.com
14.	PAVITRA PAILA	pavitray015@gmail.com
15.	kaushal kishor	kaushal.kishor@rpcau.ac.in
16.	Mohammad Wizarat Ali khan	srkhan61112@gmail.com
17.	Dr.R. Suresh	rsuresh@rpcau.ac.in
18.	RAJ KUMAR MANDAL	rkmandalpb@gmail.com
19.	Dr. Lalita Rana	lalita@rpcau.ac.in
20.	K. NEDUMARAN	nedumaran76@gmail.com
21.	RAJ KUMAR MANDAL	rkmandalpb@gmail.com
22.	sudhir kumar	ksudhir42051@gmail.com
23.	SURESH DUDWAL	dudwalsuresh@gmail.com
24.	Sudhanand Prasad Lal	sudhanand.lal@rpcau.ac.in
25.	pankaj	pankajsinghnafrina@gmail.com
26.	Neeraj Kumar	neeraj@rpcau.ac.in
27.	Abhishek Srivastava	abhi.sun97@gmail.com
28.	sunita kumari meena	sunita.meena@rpcau.ac.in
29.	Sapna Tundwal	tundwalsapna25@gmail.com
30.	LAKSHMI NARAYANA NAGISETTY	grcnln@gmail.com
31.	Monday Joseph Azagbaesuweli	joemazz2003@gmail.com
32.	jitendra kumar	jitendracool.1985@gmail.com
33.	SONU	ssheoran3111@gmail.com
34.	KVK SARAN	head.kvk.manjhi@rpcau.ac.in
35.	Anamika Kumari	kumarianamikabhu1@gmail.com
36.	Dr Pawan Kumar Srivastwa	pawan.raj61@gmail.com
37.	Dr. Anil Singh	director.sri@rpcau.ac.in
38.	Dr. Anil Singh	director.sri@rpcau.ac.in
39.	Sunita	jonirouhil3131@gmail.com
40.	Sudhanshu Ranjan	sudhanshu.fzdranjan@gmail.com
41.	Gurram Mallikarjun	mallikarjun.g.1996@gmail.com

42.	Santosh Kumar Thakur	santosh.sri@rpcau.ac.in
43.	undefined undefined	pprajapati@rpcau.ac.in
44.	Dr Aurovinda Das	kvkbhadrak.ouat@gmail.com
45.	Vashant Kishore	vashantdrpcs@gmail.com
46.	HRISHIKESH NATH	hrishikeshthenath26@gmail.com
47.	DR. RAJEEV KUMAR SRIVASTAVA	raj_agronomy@rediffmail.com
48.	Mohammad Abbas Ahmad	abbas.ento@rpcau.ac.in
49.	Ahmad Faraz	ahmadfaraz@theglobaluniversity.in
50.	Dr.DHARMENDRA KUMAR DWIVEDI	dharmendradwivedi1959@gmail.com
51.	Avinash kumar	avinashkumarverma21@gmail.com
52.	Sudhanshu Ranjan	sudhanshu.fzdranjan@gmail.com
53.	Vaibhav Pandey	vaibhavpandey.agro@gmail.com
54.	Krishna Kumar	dean.hf@rpcau.ac.in
55.	Swati Saloni	swatisaloni999@gmail.com
56.	Dharminder Choudhary	dharminder@rpcau.ac.in
57.	Arvind Chauhan	arvindchauhan.chauhan081@gmail.com
58.	Sachin Kumar	sachinsorout1@gmail.com
59.	RAJA KISHOR MISHRA	rajakishormishra17@gmail.com
60.	Er.Mukesh Kumar Saubhagya	mukesh_saubhagya124@rediffmail.com
61.	J.LAWRENCE VU3XQI	lawrence.lawru@gmail.com
62.	RAJ KUMAR MANDAL	rkmandalpb@gmail.com
63.	Hari Sankar Rout	swati_pab@yahoo.co.in
64.	Vashant Kishore	vashantdrpcs@gmail.com
65.	nitin kumar	nitinkumar.dun@gmail.com
66.	veena rani	veenasama10@gmail.com
67.	Akshayjit Podder	chem.akshayjit.aus@gmail.com
68.	sheetal yadav	sheetuyadav286@gmail.com
69.	Ram manohar Singh	rammanoharsingh2015@gmail.com
70.	Er. Nidhi Kumari	nidhi.kumari@rpcau.ac.in
71.	Rohan Mark Nimmagadda	rohanmark.n@gmail.com
72.	Ritu	ritupoonia2017@gmail.com
73.	suraj mahto	surajpusa@gmail.com
74.	jitendra kumar	jitendracool.1985@gmail.com
75.	RAHUL KUMAR RAUSHAN	rahulkmrraushan20@gmail.com
76.	PRASANTA SATAPATHY	prasanta.swati@gmail.com
77.	sudhir kumar	ksudhir42051@gmail.com
78.	Vashant Kishore	vashantdrpcs@gmail.com
79.	maansi	mansi.rai333@gmail.com
80.	santosh bhardwaj	bhardwajsantosh038@gmail.com
81.	Dr Shankar Jha	shankarjha@rpcau.ac

82.	Rupali Thakur	rupalithakur1829@gmail.com
83.	Vashant Kishore	vashantdrpcsu@gamil.com
84.	Manoj Kumar Jha	manoj61367@gmail.com
85.	Dr Sudeshna Das	sudeshna.5692@gmail.com
86.	Mahendra sah	mahendrasah1271@gmail.com
87.	Sattar A	asattar@rpcau.ac.in
88.	RATNESH KUMAR MANDAL	rkmandalbiotechrau@gmail.com
89.	Priteesh Kumar	priteesh96@gmail.com
90.	RAHUL KUMAR RAUSHAN	rahulkmraushan20@gmail.com
91.	Sanjay nirala	sknirala@rpcau.ac.in
92.	Chaitanya Kumbhar	ckagrigo@gmail.com
93.	Dr Sudhanand Prasad	sudhanand.lal@rpcau.ac.in
94.	Manisha Saini	manishasaini3660@gmail.com
95.	Madhab Manna	m.c.manna@rpcau.ac.in
96.	nishad hasaan	nishadrashid0786@gmail.com
97.	RAMAN SAXENA	raman4saxena@rediffmail.com
98.	nidhi sinha	nidhi_96@yahoo.co.in
99.	SAURABH PATEL KVK MANJHI	sp9600@gmail.com
100.	Shirine Khan	im.shirine1@gmail.com
101.	Ramesh Kr. Gupta	ramesh18in@gmail.com
102.	Soniya Verma 54	vsoniya920@gmail.com
103.	s s PRASAD	ssprasad@rpcau.ac.in
104.	Sarmistha	bhagawatisarmistha@gmail.com
105.	Sanjay Kumar Sahoo	sksahoo@rpcau.ac.in
106.	Ravita	raavilohan321@gmail.com
107.	Vikram	dr.vikram@rpcau.ac.in
108.	RAJ KUMAR MANDAL	rkmandalpb@gmail.com
109.	ajaya dalai	ajayadalai6@gmail.com
110.	maansi	mansi.rai333@gmail.com
111.	KVK, Saran	spd06_bhu@rediffmail.com
112.	Sarmistha	bhagawatisarmistha@gmail.com
113.	Pankaj Singh	pankaj.singh30@gmail.com

114.	Vikas Kr.Rai	vikas.soils@rpcau.ac.in
115.	Madhab manna	madhabcm@gmail.com
116.	Krishna Bahadur Chhetri	krishnachhetri25@gmail.com
117.	EHTISHAM AHMAD KHAN	eakhan1@gmail.com
118.	Kumar Ganesan	kumarg@hku.hk
119.	Surendra Prasad	spd06_bhu@rediffmail.com
120.	Avinash Kumar	avinashjhapintu@gmail.com
121.	Renu	riyachaudhary8899g@gmail.com
122.	harshita singh	harshitasingh1706@gmail.com
123.	Manoranjan kumar	manoranjan.cae@rpcau.ac.in
124.	Krishna Kumar	dean.hf@rpcau.ac.in
125.	Manisha Saini	manishasaini3660@gmail.com
126.	Bipul Kumar Jha	bipul.k.jha@gmail.com
127.	nishad hasaan	nishadrashid0786@gmail.com
128.	Dr Ramesh Chandra Srivastava	vc@rpcau.ac.in
129.	Rupali Thakur	rupalithakur1829@gmail.com
130.	Dr. Pawan Kr. Srivastwa	pawan.raj61@gmail.com
131.	Mahak bhardwaj	bhardwajmahak001@gmail.com
132.	Pragya Mishra	pragya.mishra8315@gmail.com
133.	Vikas	vikasb957@gmail.com
134.	Dr. Neerja Upadhyaya	upadhyayaneerja@gmail.com
135.	Sudhanshu Ranjan	sudhanshu.fzdranjan@gmail.com
136.	Babji Malineni	babjimali@yahoo.com
137.	Vikram	dr.vikram@rpcau.ac.in
138.	Melbin Babu	melbinbabu789@gmail.com
139.	Prem Kumar Prajapati	pprajapati@rpcau.ac.in
140.	DAMINI	damini13096@gmail.com
141.	Mohammad Wizarat Ali khan	srkhan61112@gmail.com
142.	Mohammad Wizarat Ali khan	srkhan61112@gmail.com
143.	priyanka Vashist	priyankavashist21@gmail.com
144.	Rajesh singh	manassingh7610@gmail.com
145.	Ashish Kumar Maurya	a.maurya@rpcau.ac.in

146.	Bipul Kumar Jha	bipul.k.jha@gmail.com
147.	Dr RAM KUMAR	rk440659@gmail.com
148.	Dr. Dinesh Rai, Pusa	drai1975@gmail.com
149.	Sitaram Singh	singhsitaram1111@gmail.com
150.	Ravita	raavilohan321@gmail.com
151.	M. S.Sai Reddy	sai.reddy@rpcau.ac.in
152.	Rupashree Senapati	rupashre.senapati@gmail.com
153.	kvkwest champaran	utpalkantdr@gmail.com
154.	Bipul Kumar Jha	bipul.k.jha@gmail.com
155.	Dr Gulab Singh	gulab.metrpcau@gmail.com
156.	rachna mor 26	rachnamor90@gmail.com
157.	Dr. Manoj Kumar	manojk.ento@rpcau.ac.in
158.	sunil kumar jha	sunil.jha@indianbank.co.in
159.	C.S.SURESH KUMAR	421ncc@gmail.com
160.	rajendra ojha	9777952606raju@gmail.com
161.	Dr. D. k. Roy	dkroywc@gmail.com
162.	A Sattar	asattar@rpcau.ac.in
163.	Anupam Kashyap	akkashyap130@gmail.com
164.	Prem Kumar Prajapati	pprajapati@rpcau.ac.in
165.	Atul Kohli	geoatul@gmail.com
166.	Kumari Sapna	sapna@rpcau.ac.in
167.	RATNAKAR DWIBEDI	ratnakardwibedi8@gmail.com
168.	KVK, Saran	spd06_bhu@rediffmail.com
169.	Swastika Banerjee	1907101011@rpcau.ac.in
170.	SAMRAT DAS	samratdas9932@gmail.com
171.	Anju Sharma	anjusharma0981@gmail.com
172.	Ravi Ranjan Kumar	raviagro1993@gmail.com
173.	PULASANI MADHU LAKSHMI REDDY	pmadhulakshmireddy13@gmail.com
174.	Manoj Kumar Jha	manoj61367@gmail.com
175.	sameer	sameer03152@gmail.com
176.	Sanju Bala	sanjujakhar0036@gmail.com
177.	Sriram Venkatesh S	sriramvenkatesh0@gmail.com

178.	Satya Prakash	satyaprakashpusa@gmail.com
179.	SK Singh	adr2@rpcau.ac.in
180.	Renu	riyachaudhary8899g@gmail.com
181.	Soniya Verma 54	vsoniya920@gmail.com
182.	Vikas Kumar	vk8879478@gmail.com
183.	Bipul Kumar Jha	bipul.k.jha@gmail.com
184.	Rajesh Ranjan	rkranjan@rpcau.ac.in
185.	Santosh Kumar Thakur	santosh.sri@rpcau.ac.in
186.	Dr. S. P. Gupta	spgupta.cae@rpcau.ac.in
187.	Deepika	vatsdeepika27@gmail.com
188.	khushboo	khushbusinhmar0001@gmail.com
189.	Hari Ram Yadav	hariyadav1984@gmail.com
190.	Nagendra Kumar	nagendra.kumar@rpcau.ac.in
191.	Bipul Kumar Jha	bipul.k.jha@gmail.com
192.	RASHTRA BANDHU SHRINGI	rb.shringi@gail.co.in
193.	Mustakim Khan	mk.fse101@gmail.com
194.	Matangi Mishra	matangi.gaurav@gmail.com
195.	Dr. Brajesh Shahi	nodalkvk@rpcau.ac.in
196.	Digvijay Singh	digvijaysingh19981@gmail.com
197.	Dr. Prabhat Kumar Singh	singhpk.gpb@gmail.com
198.	Prabhat Kumar	prabhat.onnet12@gmail.com
199.	Dr. Pawan Kr. Srivastwa	pawan.raj61@gmail.com
200.	Bipul Kumar Jha	bipul.k.jha@gmail.com
201.	Shekher Chaturvedi	shekherc@gmail.com
202.	Abhilasha Paradkar	abhiparadkar2002@gmail.com
203.	Sunita	jonirouhil3131@gmail.com
204.	Ratnesh Kumar Jha	ratnesh@rpcau.ac.in
205.	SANDEEP S N	snsandeepgowda@gmail.com
206.	YERAGORLA VENKATA HARIKRISHNA	harikrishnavenkata.y@gmail.com
207.	Sonia	goswamisonia904@gmail.com
208.	K.M.Singh SINGH	m.krishna.singh@gmail.com
209.	Usha Shukla	usha.shukla1@gmail.com

210.	Sunita	jonirouhil3131@gmail.com
211.	Sandeep Kumar	sandeep.kumar50400@gmail.com
212.	Sitaram Singh	singhsitaram1111@gmail.com
213.	Deepika	vatsdeepika27@gmail.com
214.	RAVINDRA REDDY M	ravindraoudepts@gmail.com
215.	LAKSHMI NARAYANA NAGISETTY	grcnln@gmail.com
216.	MAJOHN CHALAKKAL VARGHESE	majohn.c.v@gmail.com
217.	jyostnarani pradhan	jyotsna.pradhan@rpcu.ac.in
218.	Dr Shankar Jha	shankarjha@rpcu.ac
219.	Neeraj Kumar	neeraj@rpcu.ac.in
220.	ajaya dalai	ajayadalai6@gmail.com
221.	Vinod Kumart Yadav	vinnod17383@gmail.com
222.	Harbakhsh Singh	hs.civildefence@gmail.com
223.	Kanchan Wala	kanchanwala451@gmail.com
224.	Prof.Dr.I.Manavalan Ilakkuvan	imanavalan56@gmail.com
225.	DAMINI	damini13096@gmail.com
226.	Dr.Mithilesh Kumar	dr@rpcu.ac.in
227.	ajaya dalai	ajayadalai6@gmail.com
228.	Uma Shankar Singh	ussingh@rpcu.ac.in
229.	manoranjan kumar	manoranjan.cae@rpcu.ac.in
230.	Sai Harini S.M	19euee110@skcet.ac.in
231.	Arun Verma	arun.nidm@gmail.com
232.	Prem Kumar Prajapati	pprajapati@rpcu.ac.in
233.	PRASANTH EVURU	drevuru9@gmail.com
234.	VIKAS PANDEY	vikaspandey998@gmail.com
235.	Ashish Kumar	ashishsawant52@gmail.com
236.	DAMINI	damini13096@gmail.com
237.	SARATH SR	srsarath6396@gmail.com
238.	BALAYYA B	bala.bulla1990@gmail.com
239.	Manoj Kumar Jha	manoj61367@gmail.com
240.	Md Omar Faruk	omorfarkcsdm@gmail.com
241.	Shivam Chaubey	shivamchaubey55@gmail.com



242.	Simranjeet	simranjeet75211@gmail.com
243.	Manish Kumar Azad	manish.azad@rpcau.ac.in
244.	Ahammed Kabeer	kabeerta1@gmail.com
245.	Dhruv Kishor Sinha	head.agecon@rpcau.ac
246.	DAMINI	damini13096@gmail.com
247.	Manisha	manisha29star@gmail.com