

FINAL REPORT
of
One Day International Seminar on

**“Agripreneurship: Career and Start-up
Opportunities”**



Organized by

**The Faculty of Life Sciences
&
Agricultural Sciences**

**Rajiv Gandhi University
Rono Hills, Doimukh-791112
Arunachal Pradesh, India**

May 2, 2022

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Acknowledgments

We are extremely grateful to **Prof. Saket Kushwaha**, Hon'ble Vice-Chancellor, Rajiv Gandhi University for his persistent encouragement and support for smooth conduct of this seminar.

We would like to convey our deepest gratitude to **Prof. Amitava Mitra**, Pro Vice-Chancellor of the university, and **Dr. N.T. Rikam**, the Registrar of the university for the tireless commitment and support to the event.

We feel privileged to host the learned dignitaries, **Prof. Pawan K Joshi** School of Environmental Sciences, JNU, New Delhi, India, **Dr. Sunita Kushwaha Sr. Scientist & Head**, KVK, Vaishali, RPCAU Pusa, Samatipur, Bihar, India, **Ms. Tage Rita** Founder of Naara Aaba, Ziro, Lower Subansiri, Arunachal Pradesh, India, **Mr. Alex Khathing** Founder of Future Farms, Chennai, Tamil Nadu, India, **Mr. Anand Kumar** Tennessee State University, Nashville, Tennessee, USA.

We are humbled by the presence of the learned faculty members of RGU and other universities of the nation, young students and research scholars from the university and beyond, budding entrepreneurs, and of those who have directly or indirectly contributed to the grand success of the program.

Thank you all.

Webinar Organizing Committee

Organizing Committee

- **Chief Patron:** Prof. Saket Kushwaha, Honorable Vice-Chancellor, Rajiv Gandhi University.

- **Patrons:**
 - Prof. Amitava Mitra, Pro Vice-Chancellor, Rajiv Gandhi University.
 - Dr. N.T. Rikam, Registrar, Rajiv Gandhi University.

- **Resource Persons:**
 - 1) **Prof. Pawan K Joshi** School of Environmental Sciences, JNU, New Delhi, India,
 - 2) **Dr. Sunita Kushwaha** Sr. Scientist & Head, KVK, Vaishali, RPCAU Pusa, Samatipur, Bihar, India,
 - 3) **Ms. Tage Rita** Founder of Naara Aaba, Ziro, Lower Subansiri, Arunachal Pradesh, India,
 - 4) **Mr. Alex Khathing** Founder of Future Farms, Chennai, Tamil Nadu, India,
 - 5) **Mr. Anand Kumar** Tennessee State University, Nashville, Tennessee, USA

- **Chairman:** Prof. Sumpam Tangjang, Dean, Faculty of Life Sciences & Agricultural Sciences, Coordinator, Department of Agriculture Sciences & Food Technology, Rajiv Gandhi University.

- **Convenor:** Dr. Arnab Ghosh, Assistant Professor, Dept. of Zoology, RGU.

- **Coordinators:**
 - Dr. Bibhuti B. Das, Assistant Professor, Dept. of Botany, RGU.
 - Dr. Deependra Rajoriya, Assistant Professor, Dept. of Food Technology, RGU.

Program Schedule

<i>Inaugural Session</i>		
Time	Agenda	Speakers
11:00-11:05 AM	Introduction	
11:06-11:10 AM	Welcome Address by The Chairman	Prof. Sumpam Tangjang Dean Faculty of Life Sciences & Agricultural Sciences, RGU
11:11-11:20 AM	Address by The Special Guest	Dr. N T Rikam Registrar Rajiv Gandhi University
11:21-11:30 AM	Address by The Guest of Honor	Prof. Amitava Mitra Pro-Vice Chancellor Rajiv Gandhi University
11:31-11:45 AM	Address by The Chief Guest	Prof. Saket Kushwaha Vice Chancellor Rajiv Gandhi University
<i>Vote of Thanks</i>		
<i>National Anthem</i>		
<i>Tea Break</i>		

<i>Technical Session</i>		
Time	Topic	Resource Persons
12:00-01:00 PM	Industrial Hemp Culture	Mr. Anand Kumar Tennessee State University, Nashville, Tennessee, USA
01:01-02:00 PM	Value Addition of Banana Waste: Opportunity for Rural Youth to Agri-entrepreneurship	Dr. Sunita Kushwaha Sr. Scientist & Head, KVK, Vaishali, RPCAU Pusa, Samastipur, Bihar, India
<i>Lunch Break (02:00-02:30 PM)</i>		
02:31-03:30 PM	Insights of Naara Aaba Winery at Ziro Valley	Ms. Taje Rita Founder of Naara Aaba Ziro, Lower Subansiri, Arunachal Pradesh, India
03:31-04:30 PM	Geoinformatics - Career and Startup Opportunities	Prof. Pawan K Joshi Professor School of Environmental Sciences, JNU, New Delhi, India
04:31-05:30 PM	Hydroponics: A Steps Towards Future Farming	Mr. Alex Khathing Founder of Future Farms Chennai, Tamil Nadu, India

Vote of Thanks

Objectives of the Seminar

- i. To disseminate the concept of Agripreneurship and recognize the research and business potential in agriculture sector.
- ii. To orient younger generation, entrepreneurs, other key stakeholders and students towards the varied start-up and career opportunity in agriculture and allied sector, and
- iii. To familiarize participants about advanced agricultural techniques to improve agriculture production.

Expected Learning outcomes

- Motivating the younger generations and researchers to explore and seek career opportunities in agriculture field.
- Creating awareness about the entrepreneurship and start-up in agriculture sector among entrepreneurs along with other stakeholders to establish Agro-based industry in the state of Arunachal Pradesh, and
- Establishing an industry-academia platform for developing know-how for local agriculture produces of Arunachal Pradesh and exploring the business possibilities at the national and global level.

Outcomes of the Webinar

- The seminar participants have been made aware about the various opportunities and the challenges of Industrial Hemp production and also open the gateway for young researcher and students to explore the potential research and career in the field of industrial hemp.
- The seminar has explored the potential utilization of value-added banana waste products for entrepreneurship especially for rural youth and also made aware about the infrastructure required to establish a banana fiber extraction plant and extraction methodology along with major machineries required such as fiber extraction machine, stem cutter, rope, etc.
- The seminar has made participants aware about the various challenges that an entrepreneur may face when starting an agriculture-based business, particularly in places like Arunachal Pradesh where there is a lack of awareness about agripneurship and how entrepreneurs can find solutions to these challenges.
- The seminar has explored the possibility of career and start-up opportunities in the field of geoinformatics and also made aware about the application of advance data collection techniques such as remote sensing, GPS, GIS drone, etc., to get more accurate real time agriculture field data that will help to improve agriculture production.

Executive summary

The faculty of Life Sciences and Agricultural Sciences, RGU jointly organized an International Seminar on “Agripreneurship: Career and Start-up Opportunities” on May 2, 2022 in blended mode. It was the first seminar held at the University on exploring career and startup opportunities in the field of agriculture. The seminar was segmented into three dedicated sessions, i.e., inaugural session followed by technical session and valedictory session.

The seminar commenced with the welcome address delivered by Prof. Sumpam Tangjang, Dean, F/O Life Sciences & Agricultural Sciences, Coordinator, Dept. of Agricultural Sciences & Food Technology, RGU. He welcomed all the dignitaries present in the seminar and appreciated the fine leadership of Honorable VC of RGU.

Dr. N.T. Rikam, Registrar, RGU stressed on the importance of agriculture department of RGU that can play a significant role in advancement and transformation of traditional agricultural practices into sustainable agriculture in Arunachala Pradesh. Prof. Amitava Mitra, hon’ble Pro-VC, RGU, enlightened the participants about the fact that the agriculture is a predominate factor in Arunachala Pradesh and it contributes more than 60% in GDP of the state. However, the share of agriculture is reducing as people are moving from agriculture to government sector for employment but the absorption capacity of government jobs is limited which lead unemployment in the state. He also said that this problem can be solved by creating self-employment in agricultural especially in horticulture sector and also said that this seminar may motivate students to build their career in agribusinesses.

Prof. Saket Kushwaha, hon’ble Vice Chancellor, RGU talked about that there is potential scope for research on industrial hemp which can be used to develop an effective medicinal product and also to develop hemp fortified food

product like chikki, for better health benefits. He also stressed on waste utilization of banana fiber, production of wine from organic agriculture produce, application of geoinformatics in agriculture field, and new form of agriculture “hydroponics” and their potential in agribusiness.

First resource person, Mr. Anand Kumar, Tennessee State University, Nashville, Tennessee, USA delivered his presentation in technical session. He talked about the opportunities and challenges of industrial hemp production. He explained different parts of hemp plant and their use to produce various products such as hempseed oil, meal, fiber and cosmetic and pharmaceuticals. He also discussed about different methods used for oil extraction such as solvent, steam and carbon dioxide extraction and roadmap for industrial hemp production.

Second resource person Dr. Sunita Kushwaha Sr. Scientist & Head, KVK, Vaishali, RPCAU Pusa, Samatipur, Bihar, India delivered her presentation of value addition of banana waste: opportunity for rural youth to agri-entrepreneurship. She talked about various opportunities of banana fiber such as substitute to the pulp industry, scope of export of products due to high demand, employment opportunities and eco-friendly fabric. She also discussed about infrastructure required to establish banana fiber extraction unit and major machineries required along with complete methodology of fiber extraction.

Third speech was delivered by Ms. Tage Rita Founder of Naara Aaba, Ziro, Lower Subansiri, Arunachal Pradesh, India, on Insights of Naara Aaba Winery at Zero valley. She shared her experiences and challenges faced during her journey to become one of the successful entrepreneur of Arunachal Pradesh.

Fourth technical presentation was delivered on Geoinformatics: Career and startup opportunities by Prof. Pawan K Joshi, School of Environmental Sciences, JNU, New Delhi, India. He discussed about remote sensing a data collection technique, geographical information system, global positioning

system and Drone and their application in agriculture to monitor soil nutrients, water distribution and crop harvesting pattern.

Fifth resource person Mr. Alex Khathing Founder of Future Farms, Chennai, Tamil Nadu, India, could not join the seminar due to unfortunate incident in his family.

Dr. Bibhuti B. Das, Dept. of Botany and Dr. Deependra Rajoriya, Dept. of Food Technology moderated the inaugural session and technical session, respectively and the vote of thanks was proposed by Dr. Arnab Ghosh, Dept. of Zoology.

Budget Estimate and expenditure incurred-

Estimated budget submitted on 21/4/2022 (Ref: RGU/ZOO/Conference/09)

S.N.	Items	Amount (INR)
1	Remuneration for lecture	
	Anand Kumar	2000
	Prof. P.K. Joshi	2000
	Ms. Tage Rita	2000
	Dr. Sunita Khuswaha	2000
	Alex Khathing	2000
2	Venue	1500
3	Flex banner (5x7 feet) @1000x3	3000
4	Refreshment	5000
5	Stationeries	1000
Total		20,500/-

Actual statement of expenditure

S.N.	Items	Amount (INR)	Remarks
1	Remuneration for lecture		
	Anand Kumar	2000.00	Will be paid upon sanction
	Prof. P.K. Joshi	2000.00	Will be paid upon sanction
	Ms. Tage Rita	2000.00	Will be paid upon sanction
	Dr. Sunita Khuswaha	2000.00	Will be paid upon sanction
	Alex Khathing	00.00	
2	Venue	1500.00	Will be paid upon sanction
3	Flex banner (5x7 feet) @1000x3	2160.00	Bill Attached
4	Refreshment	4400.00	Bill Attached
5	Stationeries	560.00	Bill Attached
	TOTAL	16620.00	
Total		Sixteen thousand six hundred twenty rupees only	

Photo Gallery:

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Career and Start-up Opportunities**
Organised by
The Faculty of Life Sciences & Agricultural Sciences
Rajiv Gandhi University, Arunachal Pradesh
May 2, 2022

Prof. P. K. Joshi
School of Env. Sci,
JNU.

Dr. S. Kushwaha
KVK, RPCAU Pusa.

Ms. Tage Rita
Naara Aaba Ziro

Mr. Alex. Khathing
Founder-Future Farms
Chennai, India.

Mr. Anand Kumar
Tennessee State
University, USA.

PATRON
Prof. Amitava Mitra
Pro-Vice Chancellor, RGU

CHIEF PATRON
Prof. Saket Kushwaha
Hon'ble Vice-Chancellor, RGU

PATRON
Dr. N.T. Rikam
Registrar, RGU

CHAIRPERSON
Prof. S. Tangjang
Dean, Faculty of Life Sciences

CONVENOR
Dr. Arnab Ghosh
Dept. of Zoology

COORDINATOR
Dr. Bibhuti B. Das
Dept. of Botany

COORDINATOR
Dr. Deependra Rajoriya
Dept. of Food Technology

(11:00 AM)

Venue:
CSE Smart Theatre

Register for free at: <https://forms.gle/V9sLf3zp76g6TZWe9>
Link to Meeting: <https://meet.google.com/yse-uhdz-cct>

Fig.1: Seminar Flyer



Fig.2: Address by Registrar, RGU



Fig.3: Address by Pro-Vice Chancellor, RGU



Fig. 4: Address by Hon'ble Vice Chancellor, RGU

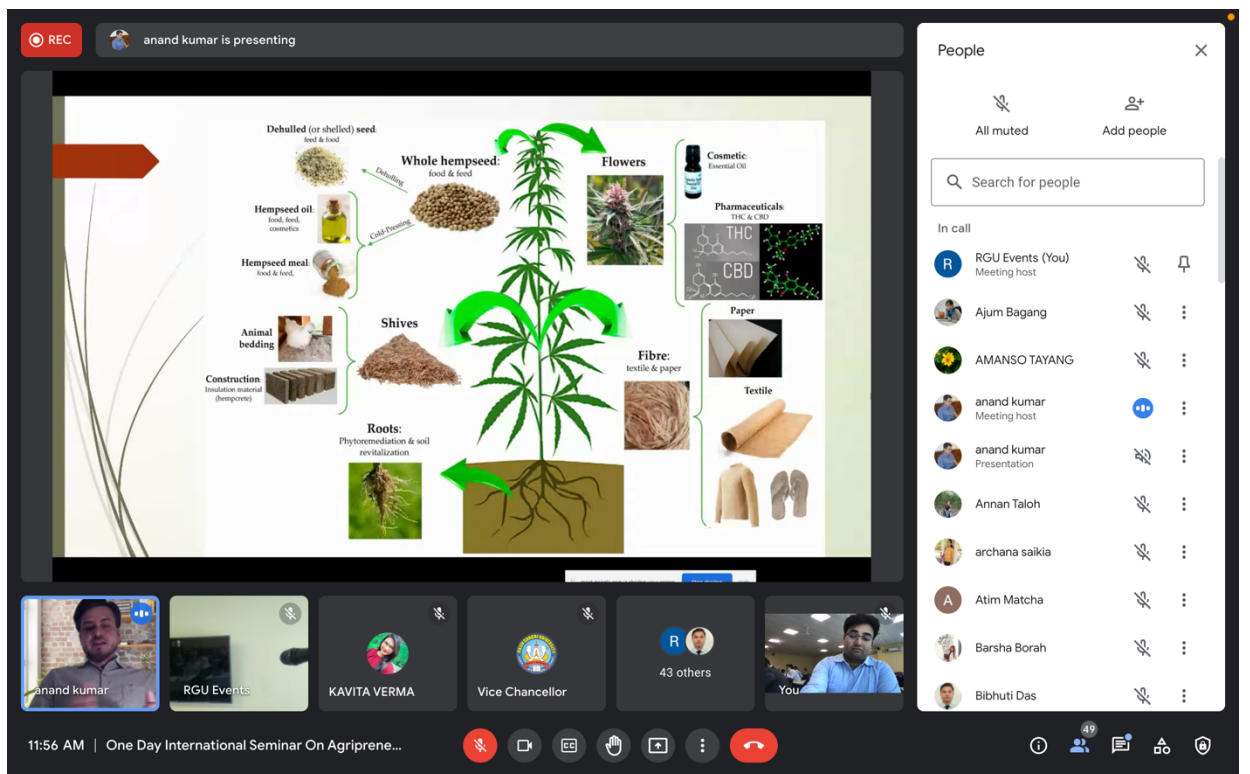


Fig.5: Mr. Anand Kumar, Tennessee State University, USA (Resource Person)

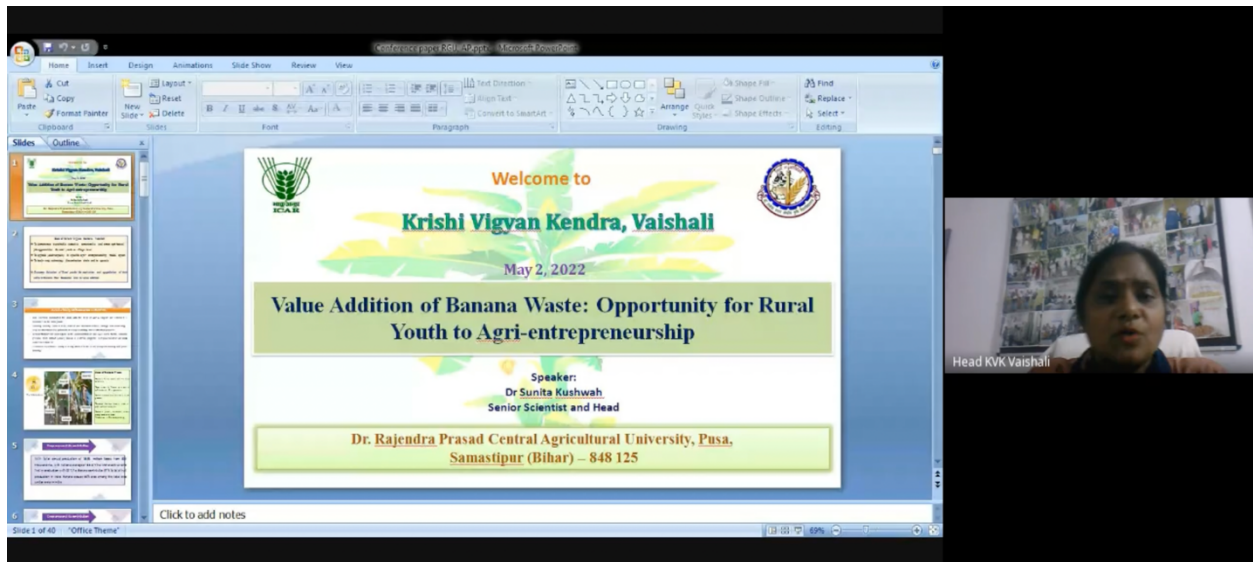


Fig.6: Dr. Sunita Kushwaha, KVK, RPCAU, Pusa, India (Resource Person)



Fig.7: Ms. Tage Rita, Founder Naar Aaba Zero, Arunachal Pradesh, India (Resource Person)

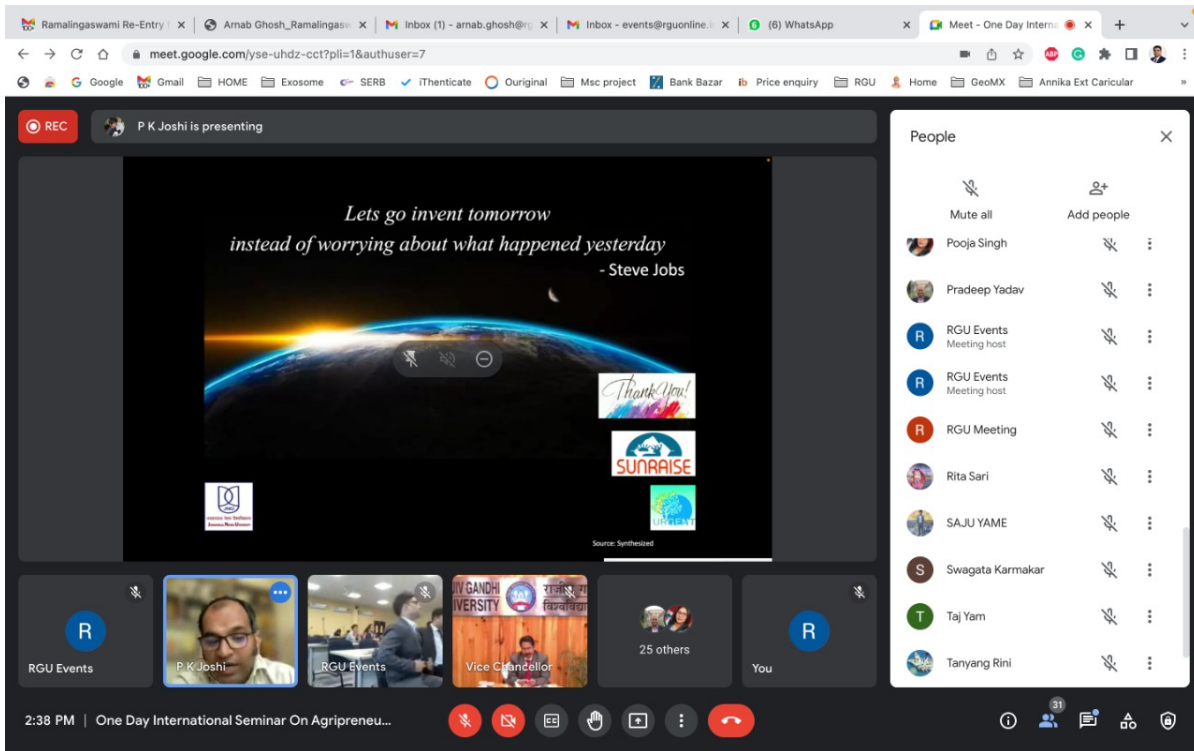


Fig.8: Prof. P.K. Joshi, School of Environmental Sciences, JNU, New Delhi, India (Resource Person)

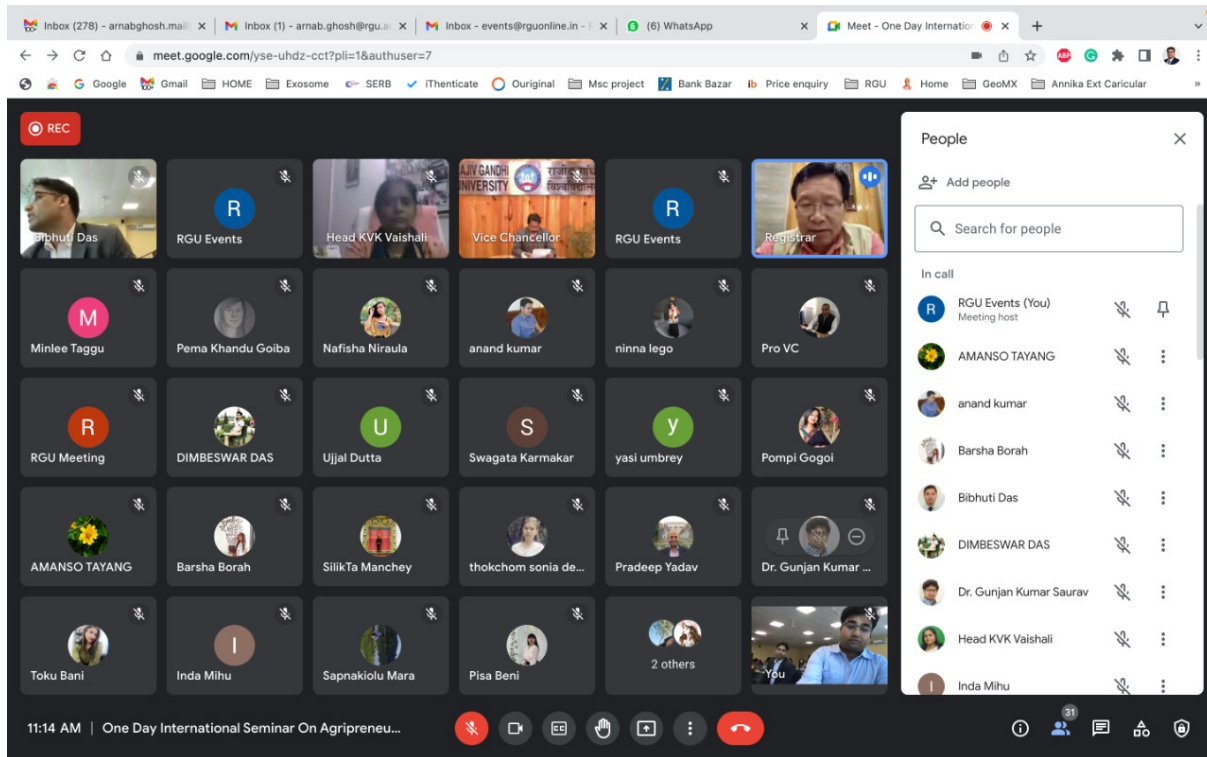


Fig. 9: Snaps from the webinar participants

List of Registered Participants Attended Seminar in Offline Mode:

One day International Seminar
on Agripreneurship: Career and
Startup opportunities.
May-2

classmate
 Date _____
 Page _____

Sl. No.	Name	Department
1	Prof. Sumpam Jangjap	Dean, FLS & FAS
2	Dr. Nikhil Kumar Malhotra	Assistant Professor, Food Technology
3	Dr. Fadung Tawar	Agriculture
4	Dr. Pema Kh. Gaikha	Agri. Sciences
5	Dr. Yashi Umbrey	Agricultural Sciences
6	Dr. Bharati Kap	Agricultural Sciences
7	TAKAR SONAM	"
8	TANYANG RINI	"
9	RITA SARI	"
10	Lungdoi DOKKAM	"
11	Ebhi Mihu	"
12	Kalung Odung	"
13	Tam Tai	"
14	Nguli Lombi	"
15	Jage Jaring	"
16	Martyn Mique	"
17	Indusur Rahman	"
18	Meena Kagor	"
19	Taj Yarn	"
20	Goga Amanso Tagung	Botany
21	Inda Mihu	Botany
22	Toku Bami	Botany.
23	Imbeswar Sa	Botany
24	Pampi Gogoi	Botany
25	Ujjal Dutta	Botany
26	Ms. Silikta Manchey	Botany
27	Narmi Tatak	Agricultural Science
28	Kamson Rikung	"
29	Chuppa Manjan	dept. of Agronomy

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Sl No.	Name	Department
30	Debia Pola	Agonomy
31	Liguna Tabri	Faculty of Agricultural sciences
32	Lebecca Jamoh	II
33	Dr. Deependra Rajanya	Department of food Tech.
34	Dr. Arnab Ghosh	Dept of Zoology
35	Dr. Bidanti Bhesu Das	Dept of Botany.