

E) Validation the policy issues identified and listed through the above exercises by interacting with key stakeholders:

Stakeholders' analysis, validation of action items, and base line survey of KPIs are done accordingly in the meeting held on 12/01/2021.

Adoption of National Innovation and Start-up Policy (NISP) at HEI Level

Action Items for September- November 2020

About MHRD's Innovation Cell & AICTE

In November 2016, All India Council of Technical Education (AICTE) released a Startup Policy document for AICTE approved institutions, to address the need of inculcation of innovation and entrepreneurial culture in higher education institutions (HEIs). The policy primarily focused on guiding the AICTE approved institutions in implementing 'Startup Action Plan' of Government of India. Subsequent to release of the Startup policy by AICTE and further interaction & feedback received from education institutions, a need was felt for a more elaborate and comprehensive policy guiding document, which could be applicable for all the HEIs in India. A fifteen membered committee was constituted by Ministry of Human Resource Development to formulate detailed guidelines for various aspects related to innovation, Startup and entrepreneurship management. This committee deliberated on various facets for nurturing the innovation and Startup culture in HEIs, which covered Intellectual Property ownership, revenue sharing mechanisms, norms for technology transfer and commercialization, equity sharing, etc. Among the various programs have been initiated, major programs being implemented by MHRD's Innovation Cell and AICTE are Smart India Hackathon, National Student Start-up Policy, Atal Ranking of Institutions on Innovation Achievement (ARIIA) and Setting up Institutions Innovation Councils (IICs) in HEIs.

About Institution's Innovation Council (IIC):

MIC has envisioned encouraging creation of 'Institution's Innovation Council (IICs)' in HEIs and establishing the IIC network to promote innovation through multitudinous modes leading to an innovation promotion eco-system in the campuses. At institute level, the innovation council ensures coherence and synergy among departments and centres by bringing active representation of entrepreneurial faculties, students and expert's representations from regional ecosystem enablers, pre-incubation and incubation centres within and outside the institute and work in synergize manner towards to provide platform to encourage, inspire and nurture young students by exposing them to new ideas and process of resulting in innovative activities & entrepreneurial in their formative years.

As per the guidelines and norms set up by MHRD's Innovation Cell and AICTE, our institution Mugberia Gangadhar Mahavidyalaya, Bhupatinagar, Purba Medinipur, West Bengal, India has established Institution Innovation Councils-Mugberia Gangadhar Mahavidyalaya (IIC-MGM) during IIC Calendar year 2018-19 and has been rated as 1.5 star for undertaking various activities prescribed by Innovation Cell, Ministry of Education, Govt. of India to promote Innovation and Start-up in campus during the IIC calendar year 2019-20.

Vision of National Innovation and Startup policy (NISP)

The National Innovation and Startup policy (NISP) is a guiding framework to envision an educational system oriented towards start ups and entrepreneurship opportunities for student and faculties. The guidelines provide ways to Indian HEIs for developing entrepreneurial agenda, managing Intellectual Property Rights (IPR) ownership, technology licensing and equity sharing in Startups or enterprises established by faculty and students.

In India, innovation is still not the epicenter of education. In order to achieve the cultural and attitudinal shift and to ensure that 'Innovation and Startup' culture is the primary fulcrum of our higher education system a policy framework and guidelines are the need of this hour. These guidelines will enable institutions to actively support their faculty, staff and students to participate in innovation and entrepreneurship (I&E) related activities, thus encouraging students and faculty to consider start ups and entrepreneurship as a career option. These recommendations and guiding principles will also help HEIs in creating their own policy framework, if required.

Moreover, these guidelines will facilitate Ministry of Human Resource Development in bringing uniformity across HEIs in terms of IPR ownership management, technology licensing and institutional startups policy, thus enabling creation of a robust innovation and Startup ecosystem across all HEIs. These guidelines will also help emphasize that the entrepreneurship is all about creating a business, which is financially successful.

Action Items for September- November 2020

A) Identification of experts to be part of the Innovation and Start-up Policy Formulation Committee at Institute level: The identification of experts who will be the part of Innovation and Start-up Policy formulation committee at institution level has been completed and the list is provided below

1. Prof (Dr) Swapan Kumar Misra, Principal, Mugberia Gangadhar Mahavidyalaya, Bhupatinagar, Purba Medinipur, West Bengal. Phone: 9002275816, E-mail: mugberia_college@rediffmail.com
2. Dr.JagatpatiTah, Ex Professor,Cytogeneteics and Molecular Biology Laboratory, Department of Botany [UGC CAS], University of Burdwan, Burdwan – 713 104, West Bengal, India. Phone: 7908809553, E-mail: jt_botbu2012@yahoo.in
3. Prof.(Dr.) Prakash Kanti Das, Visiting Prof.,Ramakrisna Mission Vivekananda Educational & Research Institute , Narendrapur, WB. Phone: 9433823254, E-mail: daskantiprakash@gmail.com
4. Dr. Ashok Kumar Karan, Agricultural & Food Engineering Department, IIT Kharagpur – 721302, West Bengal. Phone: +91 9163411246, E-mail: drashok.karan@gmail.com
5. Dr Bijoy Chandra Ghosh, Professor, Agricultural & Food Engineering, IIT Kharagpur, West Bengal. Phone: 9434300242, E-mail: bcg@agfe.iitkgp.ernet.in
6. Prof. (Dr.) ManoranjanMaiti, Ex Professor, Department of Mathematics, Vidyasagar University, Paschim Medinipur, West Bengal. Phone: 9434944709 Email: mmaiti2005@yahoo.com
7. Prof. (Dr) Samir Ranjan Sikdar, Former Professor & Presently Guest Faculty, Division of Plant Biology, Bose Institute, Centenary Building, P-1/12, C.I.T. Scheme VII M, Kolkata 700 054,West Bengal, India. Phone: +91-9831042569, E-mail: samir@jcbose.ac.in
8. MrBhashkarBera, Director, Nutricium Foods & Maa Shakti Milk Products, West Bengal. Phone: 8335068811, E-mail: bera.bhashkar@rediffmail.com
9. Sri Durgapada Bhattacharya, Retired Teacher & President, Purba Medinipur Farmers' Association and Welfare Society, Ubdadal, Purba Medinipur, West Bengal. Phone: 9635323935.
10. Mr. Gourav Goswami, Pipal Tree Hotels Pvt. Ltd., Kolkata, West Bengal. Phone: 9433947479, E-mail: ashitedo.bengal@gmail.com

11. Mr. Biswajit Sarkar, Advocates-IP Attorneys.
12. Dr. Bidhan Chandra Samanta, Associate Professor, Department of Chemistry, Mugberia Gangadhar Mahavidyalaya, Bhupatinagar, Purba Medinipur, West Bengal. Phone: 9732752907, E-mail: bidhansamanta@yahoo.in
13. Dr. Apurba Giri, Assistant Professor, Department of Nutrition, Mugberia Gangadhar Mahavidyalaya, Bhupatinagar, Purba Medinipur, West Bengal. Phone: 9564289290, E-mail: apurbandri@gmail.com
14. Mr. Koushik Mandal, SACT, Department of Zoology, Mugberia Gangadhar Mahavidyalaya, Bhupatinagar, Purba Medinipur, West Bengal. Phone: 9732606478, E-mail: kousik2141983@gmail.com

B) Innovation and Start-up Policy Formulation Committee at Institute level: Committee Formation has been completed and the meeting had been scheduled to be held on 03/11/2020. The committee is given below.

SI No	Name	Affiliation	Position Hold
1	Mr. Ardhendu Maity	MLA, West Bengal Legislative Assembly, Bhagbanpur, Purba Medinipur & President, GB and IIC-MGM	Chief Patron
2	Prof (Dr) Swapan Kumar Misra	Principal, Mugberia Gangadhar Mahavidyalaya, Bhupatinagar, Purba Medinipur, West Bengal	Chairman
3	Shri Dipan Sahu	National Coordinator, NISP	Convener
4	Prof Abani Kumar Tripathy	Associate Professor, Department of Commerce, Mugberia Gangadhar Mahavidyalaya, Bhupatinagar, Purba Medinipur, West Bengal	Vice Chairman
5	Dr Prasenjit Ghosh	Associate Professor,	Social Media

		Department of History, Mugberia Gangadhar Mahavidyalaya, Bhupatinagar, Purba Medinipur, West Bengal	Coordinator,NIRF Coordinator
6	Dr. Bidhan Chandra Samanta	Associate Professor, Department of Chemistry & Coordinator of Research Cell, Mugberia Gangadhar Mahavidyalaya, Bhupatinagar, Purba Medinipur, West Bengal	IPR Activity Coordinator,ARIIA Coordinator
7	Dr KalipadaMaity	Associate Professor, Department of Mathematics & Coordinator of IQAC, Mugberia Gangadhar Mahavidyalaya, Bhupatinagar, Purba Medinipur, West Bengal	Innovation Activity Coordinator
8	Dr ApurbaGiri	Assistant Professor, Department of Nutrition, Mugberia Gangadhar Mahavidyalaya, Bhupatinagar, Purba Medinipur, West Bengal	Internship Activity Coordinator
9	Dr Pintu Roy Choudhury	Assistant Professor, Department of Bengali, Mugberia Gangadhar Mahavidyalaya, Bhupatinagar, Purba Medinipur, West Bengal	Entrepreneur Coordinator
10	Dr NarottamSutradhar	Assistant Professor, Department of Chemistry, Mugberia Gangadhar Mahavidyalaya, Bhupatinagar, Purba Medinipur, West Bengal	Start up Activity Coordinator

11	Dr Soma Karmakar	Assistant Professor, Department of Zoology, Mugberia Gangadhar Mahavidyalaya, Bhupatinagar, Purba Medinipur, West Bengal	Member
12	Sk. Wadut	Assistant Professor, Department of Physics, Mugberia Gangadhar Mahavidyalaya, Bhupatinagar, Purba Medinipur, West Bengal	Member
13	Mr Koushik Mandal	SACT, Department of Zoology, Mugberia Gangadhar Mahavidyalaya, Bhupatinagar, Purba Medinipur, West Bengal	Member
14	Miss Debjani Jana	Student, B.Sc., Mugberia Gangadhar Mahavidyalaya, Bhupatinagar, Purba Medinipur, West Bengal	Member

C) Conduction of first brainstorm session with experts of committee: The same was conducted on November 3, 2020 on virtual platform to identify and list the policy level issues, strength areas, weak areas, opportunities, and threats (SWOT) of I&E ecosystem at HEI level taking all major stakeholders into account. As expected output of the assignment, the list of policy gaps and issues which need interventions/action through policy/guideline formation has been identified. The list is summarized below:

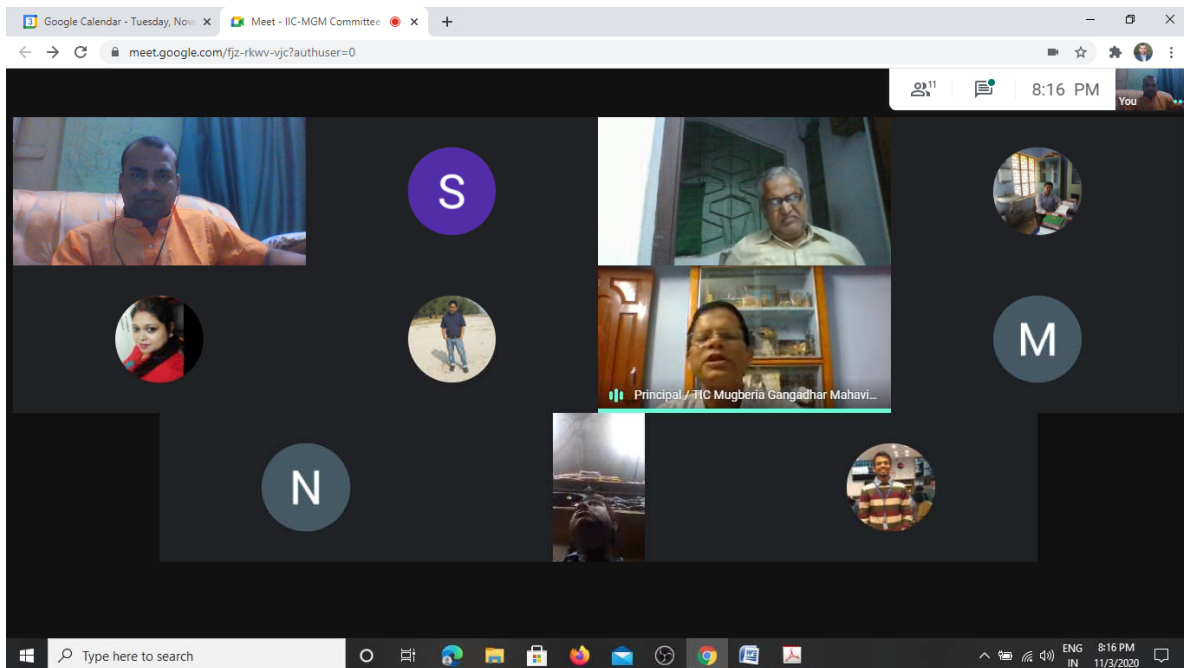
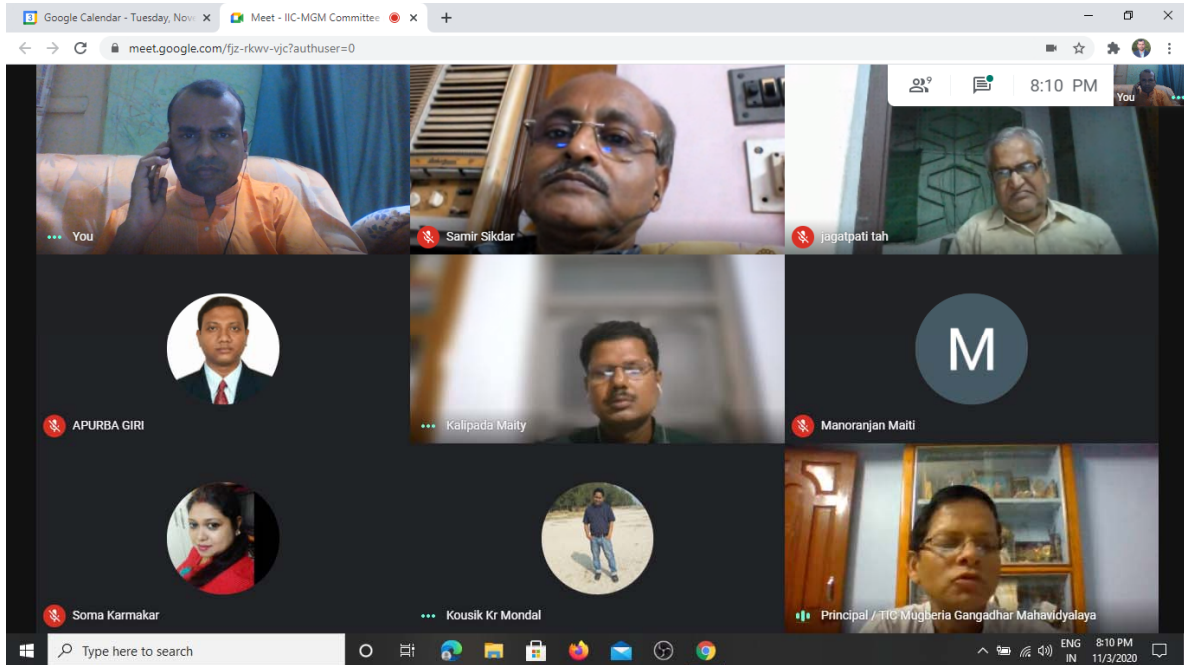
1. Master trainer development among students.
2. Emphasis on need base innovation as well as depending on availability of local material.
3. Process, production, market linkage to be done with the help of known technology/ any modified better technology.
4. Arrangement of much more emphasis/ demonstration, awareness camp etc to provide knowledge on technology developing.

5. Emphasis on Self experience gathering by facing problems related to financial investment, market linkaging etc.will be given to solve the problem(s) and to get easy remedy.

6. Emphasis on small scale production will be preferred at the initial stage.

7. No new research required but need more implementation of indigenous products, cultivation process and available resources.

Screen shot of 1stvirtual meeting:

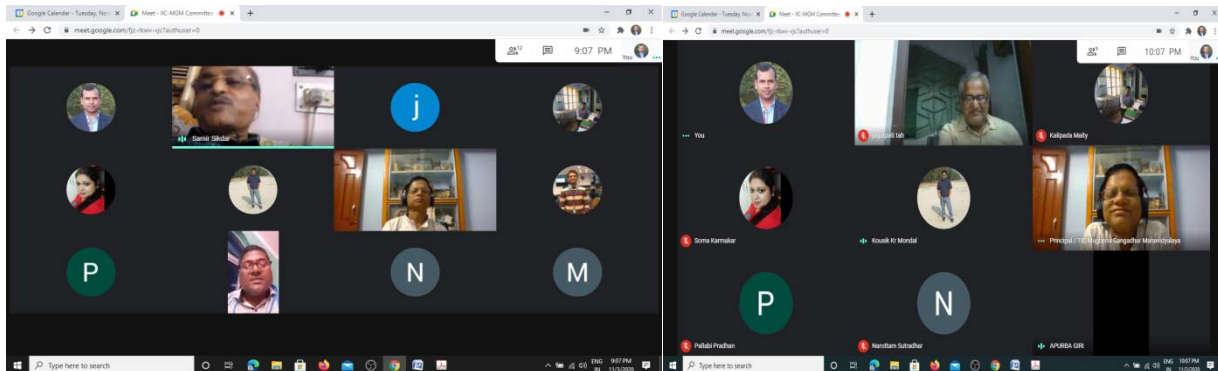


D) Conduction of second brainstorming session with experts of committee to deliberate upon the policy issues identified and prioritized during the first meeting and develop solution framework with action points/ thrust areas (develop the objective tree or policy logics as explained during the first training session) and also set Key Performance Indicators -KPIs to become part of monitoring & evaluation of I& E policy:

The second brainstorming session with experts of committee has also been completed to deliberate upon the policy issues identified and prioritized during the first meeting and develop solution framework with action points/ thrust areas along with KPIs. Set of action points given in the following table:

SI No	Action	Category	Thrust area	KPIs
1	Workshop on “Entrepreneurship and Innovation as Career Opportunity”	Short term (one day to be completed within November, 2020)	Inspiration, Motivation and Ideation	Number of students interested
2	Motivational Session by Successful Entrepreneur/Startup founder	Short term (one day to be completed within November, 2020)	Inspiration, Motivation and Ideation	Willingness to become entrepreneur
3	Session on Problem Solving and Ideation Workshop	Short term (one day to be completed within December, 2020)	Inspiration, Motivation and Ideation	Number of Idea developed

Screen shot of 2nd virtual meeting:



E) Validation the policy issues identified and listed through the above exercises by interacting with key stakeholders:

Stakeholders' analysis, validation of action items, and base line survey of KPIs are done accordingly in the meeting held on 10/11/2020.

F) Developing the action plan

SI No	Program/ Activities	Category	Resource Allocation	KPIs
1	Production of Organic Farming from Bio-waste	Long term (10-12 months needed to be completed)	20000/- per project	Quality w.r.t. Phosphate and potassium content
2	Production of Mushroom Pickle	Mid-term (6 months needed to be completed)	25000/- per project	Substrate, Inoculums, Spinning & ingredients used
3	Preparation of gel from <i>Aloe vera</i> plant	Long term (10-12 months needed to be completed)	30000/- per project	Extraction in a pure form
4	Mushroom Spawn Production	Long term (10-12 months needed to be completed)	1,00,000/-	Quality
5	Preparation of various Milk Products	Long term (10-12 months needed to be completed)	30000/- per project	Quality
6	Plant Tissue Culture	Long term (10-12 months needed to be completed)	50000/- per project	Accuracy

G) 1st Draft of I&E Policy and Review of the draft: Completed.

H) Final draft and approval by board of studies: This is the final draft and has been approved by the Board of Studies.

I) Resource allocation and Team deployment: Done accordingly.

J) Orientation Session for Stakeholders: Organized on 20/11/2020.

K) Development of webpage and use of social media: Done.