

Institutional Development Plan

National Agricultural Higher Education Project (NAHEP)

Progress Report (April 2018 - 19)

ICAR-National Dairy Research Institute, Karnal

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1. Executive Summary

Project Objective:

The institute has proposed 'Institutional Development Plan' with the objective to strengthen its academic programmes by introducing industry oriented course modules with learning outcome centric approach to make it more relevant to the stakeholders of the industry and farming community. It also proposes to leverage its strong alumni base located in leading industries and academic institutions across the world to enrich its programme and mentor the students to be globally competitive. Exploring opportunities for engagement with researchers and academia based at leading world universities through student exchange, twinning/sandwich/dual degree programs and on campus mentoring for international exposure of the students remain one of the thrust areas of the IDP. The IDP for the institute also lays great emphasis on nurturing the soft skills of the student and offering them ecologically sustainable and vibrant campus life for overall development of their personality which are so critical for employability. The institute has also built in strong provisions for equity action plan for disadvantaged students and proposes to engage communities and stakeholders to discharge its social responsibilities very responsibly. Finally, through successfully implementing the activities listed in the IDP, the institute aspires to emerge as an institute of global repute.

Component 1a: Support to Institutional Development Plan (IDP) of Agricultural University

During the FY 2018-19, different activities were undertaken to create enabling environment for enhancing faculty's' competence and students' soft and professional skills which includes sending bachelors degree program students for overseas internship and faculty for international training to globally renowned institutions, signing of MoU with Nestle-India, IRMA (Gujarat), etc. In order to leverage alumni network and industrial linkages for enhancing education and employment opportunities among students, an Alumni engagement cell and a NDRI Alumni dedicated website was created, besides of organizing stakeholder workshop and Global Alumni Scientific Meet. Different sessions involving faculty and students were convened for raising academic standards and quality of instructions. In order to create socially and environmentally responsible model campus and strengthen outreach programs for community engagement, different initiatives viz., incremental use of renewable energy in the campus, involvement of students in green campus, recycling of organic wastes, etc. were undertaken.

Output-outcome monitoring

2. Component 1 a				
Support to Institutional Development Plan (IDP) of Agricultural Universities			Component cost USD 69.4 Mn	
S. No.	Particulars	April'18 to March'19		
		Plan	Achievement	Progress made during period (Elaboration)
1.	Number of new facilitative units established to enable academic and research infrastructure (IIC-Industry Institution Interaction Cell / Start up cell / incubation cell / experiential learning unit / placement cell etc.)	4	1 completed 3 in progress	One course "Breeding soundness examination of bull and andrological examination for VO and QCO of semen station" has been successfully conducted. Course Content was developed and scheduled for the remaining courses.
2.	Number of pilot courses added/upgraded on communication skills, entrepreneurial skills, information processing, creative and innovative thinking, leadership skills, industry oriented courses etc.	10	In progress.	Training content was developed, scheduled and advertised.
3.	Additional revenue generated through institutional activities with industries (in INR lakhs)	20	11.46604/-	7 trainings were conducted in which revenue was generated.
4.	Revenue generated through public usage of infrastructure for academic activities in INR lakhs	105	6.24975/-	This was generated from consultancies undertaken, analytical and testing fees, etc.
5.	Number of MoUs signed with industry for knowledge exchange programs/ internships / short term training programs etc.	03	02	Linkages with Nestle, India, Future Group, etc. were established.
6.	Number of faculty exchange programmes (both national and international) initiated by Agricultural university.	38	15	Eight faculty members of less than 40 age , four of 40 to 50 years age and three of >50 years age were send to reputed organizations for learning advanced teaching and research skills.
7.	Number of student exchange programmes (both national and international) initiated by	34	31	Third and fourth year B. Tech. (Dairy Technology) students were screened

	Agricultural University			based on their academic performance. Thirty four (#34) students were shortlisted on the basis of extracurricular activities, taxonomical valuation and personal interview as per the IDP guidelines. Thirty one (#31) students went for overseas internship.
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2.2 Input and activity monitoring

Input / Activity indicator	Sub- head / category	Expenditure / input in INR lakhs		Justification
		Planned	Utilization	
Goods and equipments	Equipment, Plant & Machinery	100.00	0.00	
	Office equipment	6.5	1.12100	
	Laboratory equipment	188	0.96028	
	Furniture & fixtures	5.00	0.00	
	Computers and Peripherals	104.00	48.93664	
	Books and Journals	0.00	0.00	
Civil works	Minor repair and renovation works	75.00	0.00	
Human capacity building	National level training	0.00	0.00	
	International level training	150.00	98.70072	
	Short visit/ seminars	6.00	0.00	
	Meetings and workshops	28.00	6.46425	
Consultancy	National level consultancies	16.00	0.22177	
Recurrent cost / Miscellaneous	Travel	10.00	2.61955	
	Contractual services	111.12	11.62455	
	Operational costs	502.00	93.18208	
	Institutional charges	31.16	12.70000	
Total		1332.78000	276.53084	

2.3 Challenges faced and lessons learnt under Component 1 a:	
1	During the FY 2018-19, we were not much clear about the purchasing guidelines and financial management in the project. Also, the budget released was in the latter half of the year.

2.4 Plan ahead (Key activities) for next reporting period	
1	Establishment of language lab to improve English speaking and writing skills.
2	Foundation course for fresher's of B. Tech. (Dairy Technology) students aimed at identifying their innate talents, building their self-confidence, helping them explore their creative passions and develop their minds and bodies.
3	Procurement of instruments/equipment to ensure quality hands-on-training and competence of students.
4	Organization of soft skill development courses to improve verbal & non-verbal communication skills, team work and other personality traits of the students.
5	Modification and/or development of new industry oriented course modules.
6	Introduction of newly designed industry oriented course modules to improve adaptability of the students to industry environment.
7	Industrial attachment linkages to improve the problem solving skills of the students.
8	Initiatives for Dual Degree with reputed foreign universities.
9	Showcasing NDRI at national level by organizing road shows to increase awareness of the dairy education among youth; conducting open dairy science day & exposure visits for school children in order to motivate them.
10	Creating more opportunities for alumni and industry stalwarts to spend time on the campus and engage as stakeholders in institution building (Guest lectures, training sessions, panelists, workshops) and career guidance of the students.
11	Catalyzing collaborations through alumni-faculty members at foreign universities (student exchanges, adjunct faculty, virtual classrooms, etc.).
12	Strengthening of Research & Development (R &D) Centre under BPD Unit as hub for the idea creation, prototype development, refinement and validation of technologies & tools developed.
13	Organization of 'Innovative Idea Contest' related to Dairy/Agribusiness opportunities and possibility of exploring seed funding to selected ideas.
14	Development and implementation of quality management systems (QMS) to maintain high academic standards at the institute.
15	Recognition and awards to teachers who use pedagogical innovation and are responsive to students' aspirations.
16	Encouraging students to successfully compete for national and international scholarships and scholastic grants.
17	Creating facilities and tutorial support for Socially disadvantaged and Differently-abled students.
18	Initiatives will be taken for confidence building, self-defense training and grievance redressal system for women students.

19	Initiatives for incremental use of renewable energy in students hostel premises and the campus.
20	Establishment of solar power systems.
21	Involvement of students in green campus, recycling of organic wastes and other sustainability initiatives.
22	Improvement in student's facilities including hostel dining facilities & cafeteria.
23	Creation of student's wellness centre and up gradation of gymnasium & sports complex.
24	Procurement and installation of campus/classrooms surveillance systems through closed circuit cameras with enough digital storage of the content.
25	Leveraging State-of-the-Art Referral laboratory facility at the institute for the Dairy and Food industry at competitive commercial terms for revenue generation.
26	Entrepreneurship development, Skill development and Certificate Courses (Commercial Dairy Farming, Milk & Milk Product Processing, Food processing, Milk quality and safety assurance) for unemployed youth/rural youth/college dropouts.
27	Leveraging research facilities and business incubation set ups for improving entrepreneurship among students of other partner Dairy Science Colleges.

3. Component 1 a				
Support to Institutional Development Plan (IDP) of AUs				Component cost USD 69.4 Mn
S. No.	Particulars	April'18 to March'19		
		Plan	Achievement	Progress made during period
1.	Number of faculty exchange programmes (both national and international) initiated by AU	38	15	Eight faculty members of less than 40 age , four of 40 to 50 years age and three of >50 years age were send to reputed organizations for learning advanced teaching and research skills.
2.	Number of student exchange programmes (both national and international) initiated by AU	34	31	Third and fourth year B. Tech. (Dairy Technology) students were screened based on their academic performance. Further, 34 students were shortlisted on the basis of extracurricular activities, taxonomical evaluation and personal interview as per the IDP guidelines. 31 students went for overseas internship.
3.	Number of technologies transferred to industry / private sector / national / international organizations	15	14	
4.	Number of students selected in JRF / SRF / ARS	NA		
5.	Number of students who were admitted in foreign universities	-		
6.	Number of students received National Young Scientist Award	NA		
7.	Number of students received ICAR's Jawaharlal Nehru thesis Award	NA		
8.	Number of students awarded at Agri-unifest	NA		
9.	Number of students awarded at Agricultural University Sports Meet	NA		

10.	Number of industry- sponsored projects and positions in cutting-edge areas of agri-science	5	01	(Chem Process Pvt. Ltd. Sanand, Gujarat – Comparative evaluation of de-potash vinasses and cane sugar molasses as cattle feed pellet binder and its effect on performance on lactating cow, Rs. 11.91210/- lakhs)
11.	Number of competitive grants from a national/international funding agency	-		
12.	Number of technologies commercialized by AU	15	14	



Mr. Shubhajit Ghosh, Nestle, India taking a session on 'importance of people management'



Inaugural ceremony workshop



Dr. P. Ramasundaram, NC, IDP (NAHEP) addressing the stakeholders of NDRI



Dr. Avtar Singh, Alumni, of NDRI, taking a session on Disaster Management



Trainers imparting Yoga training to students during the foundation course



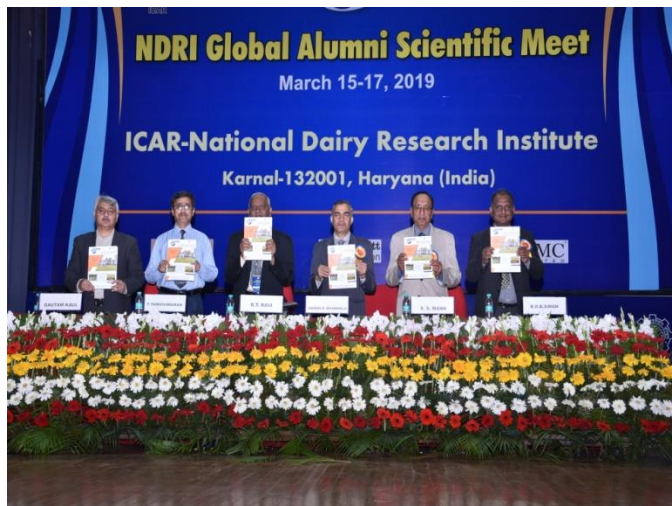
DG, ICAR Interacting with overseas internship students of NDRI



Practical session on heat detection



Practical sessions conducted during training



Dignitaries releasing Souvenir of NGASM



Mr. Sonam Wangchuk, Founder Director and Advisor, Students' Educational and Cultural Movement of Ladakh (SECMOL) delivering a motivational talk



Mr. Anil Bhasin (CEO, Havells, India) delivering a talk on Leadership and Entrepreneurship



Mr. Anand Kumar, Founder, Super 30, Ramanujan School of Mathematics delivering a success talk

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