

## PROCEEDINGS OF X<sup>th</sup> EXTENSION AND CONTINUING EDUCATION COUNCIL MEETING

The X<sup>th</sup> Extension and Continuing Education Council meeting was held on 5<sup>th</sup> March 2018; 11.00 am at University Headquarter, Nagpur under the chairmanship of Hon'ble Vice Chancellor, MAFSU, Nagpur.

Following members were present during the meeting.

1.	Prof. A. M. Paturkar, Hon'ble Vice Chancellor, MAFSU, Nagpur	Chairman
2.	Dr. A. S. Bannaliker, Director of Research & DI & Dean (Vet.), MAFSU, Nagpur	Ex-Officio Member
3.	Dr. P.T. Jadhao, Dean (Fisheries), MAFSU, Nagpur and Associate Dean, COFS, Nagpur	Ex-Officio Member
4.	Dr. S. P. Changade, Dean (Dairy Technology), MAFSU, Nagpur and Associate Dean, Dairy Technology College, Warud, Pusad, Yeotmal	Ex-Officio Member
5.	Dr. P. L. Dhande, Associate Dean, BVC, Mumbai	Ex-Officio Member
6.	Dr. A. S. Ranade, Associate Dean, KNP COVS, Shirwal	Ex-Officio Member
7.	Dr. R. R. Mugle, Associate Dean, COVAS, Udgir	Ex-Officio Member
8.	Dr. S.U. Digraskar, Associate Dean, COVAS, Parbhani	Ex-Officio Member
9.	Dr. H. S. Birade, Associate Dean, PGIVAS, Akola	Ex-Officio Member
10.	Dr. P. G. Wasnik, Associate Dean, CDT, Udgir	Ex-Officio Member
11.	Dr. B. S. Khillare, Associate Dean, COFS, Udgir	Ex-Officio Member
12.	Dr. Dinesh T. Bhosale, Ex- Chairman, CLFMA of India	Nominated Member
13.	Shri. C. Nandanpawar, Dy. Director (Prog.) Doordarshan Kendra, Mumbai	Nominated Member
14.	Dr. Ravindra Hari Patil, Entrepreneur in Poultry Breeding, Jalgaon	Nominated Member
15.	Dr. G. S. Rajorhia, Vice President IDA, Karnal	Nominated Member
16.	Dr. P. Sivaswaroop, Regional Director, IGNOU, Nagpur	Nominated Member
17.	Shri. Ashok Mankar, Nagpur, Progressive Dairy Farmer	Nominated Member
18.	Dr. N. V. Thakre, (Representative Commissioner ADF)	

19.	Dr. M. K. Rathod (Representative, DEE, Dr. PDKV, Akola)	
20.	Sau. Kiran Mahalle	Nominated Member
21	Shri. Nilkanth Kodhe	Nominated Member
22	Dr. A.P. Somkuwar, Director of Extension, MAFSU, Nagpur	Member Secretary

At the outset, Dr. A.P. Somkuwar, Director of Extension and Trainings welcomed all the members of the Extension and Continuing Education Council and felicitated Prof. A. M. Paturkar, Hon'ble Vice Chancellor, MAFSU and Chairman of the meeting by offering a book titled "Anandwan Prayogvan" by Dr. Vikas Amte.

Dr. Somkuwar informed that as the house is aware, the meeting of the extension council is undertaken annually, wherein review of the extension activities conducted by the university during last year is taken and accordingly as per the suggestions and recommendations of the house planning of extension activities for next year is finalized. He informed that with painstaking efforts of the staff members and students, the university is progressing ahead and added that during recent accreditation of all the agricultural and veterinary institutes conducted by the ICAR, MAFSU had achieved 3<sup>rd</sup> rank among Veterinary Universities and 16<sup>th</sup> rank among Agricultural Universities in India. He informed the house that MAFSU has applied for 5 KVK's, and out of these 2 KVKS's viz., one in Nagpur and another in Sangli district are approved by Indian Council of Agricultural Research (ICAR), New Delhi. He further informed the house that recently, a report on 'Development of fisheries and aquaculture in Vidarbha: Study and action plan', based on extensive research by the faculty of College of Fishery Sciences, Nagpur and Udgir was released by State Chief Secretary at a programme organized by Vidarbha Development Board at Nagpur. He assured the house that the university shall strive hard to further excel its performance in terms of extension activities under leadership of Hon'ble Vice Chancellor, MAFSU. The house applauded the University for its Success in the recent years.

Dr. Somkuwar then requested Hon'ble Vice Chancellor to offer introductory remarks. Hon'ble Vice Chancellor welcomed all the members on behalf of MAFSU. In his introductory remarks, Hon'ble Chairman expressed that while preparing roadmap for extension activities for next year, emphasis should be given on increasing the visibility of the University. He added that media viz., television, radio, newspapers, magazines, etc. can be

effectively used for this purpose. Further, participation in animal treatment camps, exhibitions, rallies, NSS activities should be strengthened to reach to the maximum number of farmers. The research conducted by the university in various fields viz., dairy, poultry, sheep & goat should be reached to the farmers. He opined that there is need to introspect on points like, how we can improve? what are our lacunae? and which new methods/ technologies needs to be adopted for excelling in extension activities and invited the inputs and ideas of the august gathering for improving the extension activities of the University.

After the formal welcome of members, Dr. Somkuwar, Director of Extension and Training, MAFSU, Nagpur gave a brief introduction of various extension activities carried out at MAFSU.

He elucidated that the University has always cared for the problems of farmers in the state and addressed them on top priority. The University is working in close coordination with Department of Animal Husbandry, Dairy development and Fisheries Development to identify the problems of the farmers. The extension and training programmes of the University are premeditated as per the need of the various stakeholder like farmers, women and entrepreneurs.

Further, all the constituent colleges of MAFSU have adopted villages in their respective jurisdictions and the faculty of the colleges is making regular visits to these villages to address the problems faced by farmers in that region. The University has also been actively participating in the Mera Gaon Mera Gaurav programme being implemented by ICAR, New Delhi. Besides this, all the constituent colleges are conducting regular extension activities like trainings, workshops, health camps, rallies, NSS camps, etc. throughout the year. Apart from the regular quarterly MAFSU VARTA newsletter, every year the University publishes a calendar with farmer's advisories to motivate farmers for adoption of improved technologies.

Hon'ble Chairman also announced that at the instance of Hon'ble Chancellor and Governor of Maharashtra, the University intends to start six months' certificate training course of 'Gau Sevak' for the benefit of rural youths. Finally, the Hon'ble Vice Chancellor requested all the members to give their valuable inputs in shaping the extension activities of MAFSU for the year 2018.

After this the regular agenda of the meeting was taken up.

**SUBJECT NO. 10/1: Confirmation of minutes of the IX meeting of Extension and Continuing Education Council held on 29<sup>th</sup> December, 2016.**

Dr. Somkuwar informed the house that the minutes of the IX meeting of Extension and Continuing Education Council were circulated to all the members and no suggestion and correction have been received from the members. The house then unanimously confirmed the minutes of the last Extension and Continuing Education Council Meeting and passed following resolution.

**RESOLUTION NO. 10/1: Extension and Continuing Education Council unanimously confirms the minutes of the IX meeting of the Extension and Continuing Education Council held on 29<sup>th</sup> December, 2016.**

**SUBJECT NO. 10/2: Compliance of the decisions taken in the IX meeting of Extension and Continuing Education Council held on 29<sup>th</sup> December, 2016**

**Sr. No. 1 Brief review of regular extension activities undertaken during the year 2017**

Dr. Somkuwar, Director of Extension and Training, MAFUS presented the review of extension activities of MAFSU and action taken report on the recommendations of the 9<sup>th</sup> Extension and Continuing Education Council meeting held on 29<sup>th</sup> December, 2016.

During the discussion Dr. R.H. Patil informed that the State Animal Husbandry Department is giving crossbred cows on subsidy basis to the farmers and opined that these farmers should be supported by giving, trainings on scientific management and demonstrations of improved animal husbandry activities including use of cow urine.

Upon this Hon'ble Vice Chancellor advised that concerned departments should undertake PG & Ph.D. research on efficacy of Panchgavya. Director of Extension informed that the research on Panchgavya is being carried out at some colleges and their results can be placed before the house after discussion in ensuing Research Council meeting.

Upon enquiry by Dr. Bhosle regarding the participation in exhibitions, Hon'ble Vice Chancellor informed that the colleges participate in regional exhibitions/ camps and it is one of the mandate and objective for region wise establishment of colleges. Apart from offering stalls, the faculty members also extend their technical services as Expert Speakers, judges etc.

Dr. Somkuwar, Director of Extension added that due to paucity of faculty members, sometimes it is not possible to participate in each and every exhibition however; utmost efforts are made to participate in maximum events across the state. Dr. Bhosale opined that

extension departments of the constituent colleges should be strengthened with sufficient human resource and infrastructure.

Dr. Bhosle opined that University should provide authentic information to the farmers. Hon'ble Vice Chancellor informed that in order to provide scientific information pertaining to animal husbandry, several important topics have been selected and booklets/ short films, video modules are being prepared at constituent colleges.

Dr. Somkuwar informed the house that Short film on Kadaknath poultry farming is prepared by NVC, Nagpur, a video module is prepared for Hygienic Poultry Slaughtering Unit by BVC, Mumbai, a short film on Hydroponics is prepared by KNPCVS, Shirwal, a short film on "Say no to Plastic" is prepared by PGIVAS, Akola and two Videos on scientific fish culture practices are also prepared by COFS, Nagpur

With respect to use of newer techniques for extension work Hon'ble Vice Chancellor informed that the creation of video conferencing facility at MAFSU and all the constituent colleges have already been initiated and very soon the installation will be completed.

Hon'ble Vice Chancellor directed the Associate Deans of constituent colleges to send month wise popular/ technical articles to the Directorate of Extension and asked the Director of Extension to compile month wise popular articles for uploading on the university website.

Upon suggestion regarding preparation of Facebook & Whatsapp groups by Dr. Bhosale, Director of Extension informed that whatsapp groups are being operated at some of the colleges, however considering drawbacks of whatsapp groups, they are being used on limited scale.

Dr. Rajorhia appreciated the presentation given by Dr. Somkuwar, Director of Extension. He expressed that any University must have a goal of improvement of the socioeconomic status of the farmers. He added that the research parameters like reduction in inter-calving period, age of first calving etc. related to increasing profitability of farmers should be emphasized for the research. He further added that knowledge gap exists among the farmers. Some of the important points related to animal husbandry practices viz., awareness about deworming, vaccination, ethnoveterinary practices, use of sexed semen etc. should be addressed on priority. He informed the house that Karnataka state has taken lead in this regard and has recently organized seminar of use of Sexed Semen for improving the productivity of milk in the state.

He further informed that in a state like Haryana, some of the farmers are rearing good quality animals and earning handsomely by annual sale of quality animals. There is urgent need to increase the number of high producing animals and farmers should be motivated to become breeders. The mechanism for sale of farm produce should also be strengthened.. The Directorate of extension should take a lead in the use of self help groups for strengthening such activities.

Shri. C. Nandanpawar, Dy. Director (Prog.) Doordarshan Kendra, Mumbai expressed that a collection of good quality visuals, short video films, recordings of TV talks, camps etc. should be prepared so that as and when required they can be used in further recordings. Hon'ble Vice Chancellor directed all the colleges to prepare such collection at college level and upload it on college websites.

Sau Kiran Mahalle eminent social worker expressed that women are playing a crucial role in various sectors of animal husbandry. With the help of self help groups in dairy and poultry sector, the women in villages are actively participating in marketing of farm produce. Dr. Digraskar, Associate Dean informed that COVAS, Parbhani is rendering training to pashusakhi's with the help of Mahila Arthik Vikas Mahamandal (MAVIM) and Agricultural Technology Management Agency (ATMA). Sau Mahalle opined that the feedback of the trainee participants in terms of impact of the training should be documented.

Sau. Mahalle informed that under Government scheme 'magel tyala shet tale' grants are provided to farmers for pond construction and large number of farmer have utilized this scheme. These farmers should be provided with training on the scientific fish rearing in ponds and in available reservoirs.

Dr. P. Sivaswaroop, Regional Director, IGNOU, Nagpur expressed that a series of phone-in programs/ radio talks can be prepared by collaboration between IGNOU and MAFSU, Nagpur. He informed that Massive Open Online Courses (MOOCs) are free online courses, which provide an affordable and flexible way to learn new skills and to advance the career options and few such courses can be initiated with MAFSU. Hon'ble vice Chancellor informed that earlier under COL program, distance education program was available, however it was discontinued later on. He directed to examine for starting distance education program under MAFSU. Dr. Rajorhia opined that the IGNOU should give support for start of such distance education program at MAFSU. Dr. P. Sivaswaroop further opined that extension programs should be undertaken in remote areas of Gadchiroli. The Director of

Extension informed that under Tribal Sub-Plan extension activities are being undertaken by constituent colleges in the same region.

**RESOLUTION NO. 10/2: The Extension and Continuing Education Council expressed satisfaction about the extension activities of MAFSU undertaken during the calendar year 2017**

**SUBJECT NO. 10/3: Regular extension activities to be undertaken during the calendar year 2018.**

Dr. Somkuwar, Director of Extension and Training presented the proposed extension activities of MAFSU to be under taken during the calendar year of 2018 for discussion (**Annexure – I**). The house approved the proposed extension activities of MAFSU to be undertaken during calendar year 2018.

**RESOLUTION NO. 10/3: The Extension and Continuing Education Council unanimously approves the proposed extension activities of MAFSU to be undertaken during the calendar year 2018 (Annexure – I).**

**SUBJECT NO. 10/4: Training programmes to be conducted for farmers and field veterinarians.**

Dr. Somkuwar, Director of Extension and Training presented the department wise details of the training programmes for farmers, field veterinarians, veterinary practitioners, fish farmers, women self-help groups, unemployed youths and entrepreneurs etc. that are to be conducted by all the constituent colleges of MAFSU (**Annexure – II**). After brief discussions, the house unanimously approved the training programmes that are to be conducted by all the constituent colleges of MAFSU during the calendar year 2018.

**RESOLUTION NO.10/4: The Extension and Continuing Education Council unanimously approves the training programmes to be conducted by constituent colleges of MAFSU during the calendar year 2018 (Annexure – II).**

## **SUBJECT NO. 10/5: Strengthening of extension education programmes**

Dr. Somkuwar, Director of Extension and Training presented the topic and the informed the house that the extension activities of the university are being continuously on increasing graph and with the proposed activities for the next year it is sure to create good image of the university among the various stakeholder especially the farming community.

Prof. A. M. Paturkar, Hon'ble Vice Chancellor, MAFSU assured to use new age technologies like video conferencing, social media like facebook and other media including print and television media.

**RESOLUTION NO. 10/5: The Extension and Continuing Education Council appreciates the efforts taken by MAFSU to improve the various extension programmes being undertaken by MAFSU in Maharashtra.**

## **SUBJECT NO. 10/6: Review of the extension activities conducted by the constituent colleges during the year 2017-18.**

Dr. Somkuwar requested the Associate Deans of the constituent colleges to present the report of extension activities undertaken by all the constituent colleges.

### **1. NAGPUR VETERINARY COLLEGE, NAGPUR**

The report of various extension activities under taken by Nagpur Veterinary College, Nagpur was presented by Dr. A.P. Somkuwar, Associate Dean of the college. After brief introduction of the college Dr. Somkuwar presented action taken report on the recommendations of the 9<sup>th</sup> Extension and Continuing Education Council meeting and the extension activities conducted by the college during the last year.

Shri. Kondhe expressed that issues related to farmers' welfare should be considered at centre stage while planning for extension activities for farmers. He further added that emphasis should be given on various farmers related issues viz., fodder production, veterinary aid, preparation of milk products, marketing of milk and milk products etc. and farmers should also be motivated to proactively undertake these activities. The farmers should get due rate for milk by considering their hard work and input cost required for dairy farming.



Hon'ble Vice Chancellor informed that recently Mother Dairy has initiated its activities in Vidarbha and Marathwada region and it is giving good price for the milk. Hon'ble member Shri. Mankar agreed with the views of the Chairman and expressed that dairy farming profession has got sustainability due to dairy development initiative of mother dairy however, issues like milk quality are still a neglected area and the university should take activities to address this issue. He further added that there is need to provide scientific information on some vital issues related to dairy farming viz., identification of quality animals, nearby livestock sale/purchase markets, scientific animal husbandry practices etc.

Hon'ble Vice Chancellor directed Associate Deans of all constituent colleges to publish leaflets/booklets about various aspects on dairy, goat and poultry farming. He added that information pertaining to region wise peculiar breeds of various species viz., cattle, buffalo, sheep, goat, poultry should be made available in regional language.

Dr. Thakre, representative Commissioner, AHD informed that animal husbandry department routinely render technical expertise on all animal husbandry related aspects. He added that the Assistant Commissioner of Animal Husbandry is the competent authority for issuing certificate for livestock transport at taluka level. Further, livestock exhibitions and animal treatment camps are also regularly organized on taluka and district level. During these exhibitions scientific information about government schemes and scientific livestock farming is being provided to the farmers.

Shri. Mankar opined that the important contact numbers should be made available at Grampanchayat at village level for wide publicity. He further expressed that new villages should be adopted for improving the visibility of the university.

Hon'ble Vice Chancellor agreed to this and informed that there are some constraints viz., distance of villages from the college, response from the villagers etc. are few practical constraints in adopting far-off villages. He cited example of Mumbai and informed that villages which need animal husbandry guidance are about 200-300 Km away and frequent visits at such distant places are not practically possible. However, after review of existing adopted villages suitable change will be made in the next year.

**(Action: DET & All Associate Deans)**

## **2. COLLEGE OF VETERINARY AND ANIMAL SCIENCES, PARBHANI**

Dr. S. U. Digraskar, Associate Dean College of Veterinary and Animal Sciences, Parbhani presented the report of various extension activities undertaken by college during the year 2017 viz. trainings, on- farm demonstrations, animal health camps, celebration of different days, NSS activities, visits of dignitaries, publications, adopted village and Mera Gaon Mera Gaurav activities, success stories etc.

Regarding the success stories Dr. Bhosle informed that actual adoption of dairy, goat, poultry farming is many a times not satisfactory and suggested to undertake studies on this aspect. Dr. Birade, Associate Dean, Post Graduate Institute of Veterinary and Animal Sciences (PGIVAS) Akola informed that better success rate has been observed in terms of sustainable goat farming, when a unit of 40 (female) + 1 (Male) is provided to the farmers rather than providing small units. Dr. Bhosale appreciated this finding and opined that this finding if followed would be used for future schemes. Hon'ble Vice Chancellor directed all the Associate Deans to undertake studies to find out reasons for such success/failures in livestock farming so that effective corrective measure can be taken.

Dr. Rajorhia expressed that there could be many reasons for failure in goat farming however, lack of marketing facilities is one of the major reason. He cited example of Telangana and Andhra Pradesh and informed that producers' organizations of goat farmers are formed in this region and due care about all the related aspects viz., preparation of own feed, marketing, processing of mutton products are undertaken through these associations and such support is essential for sustainable development of livestock farming.

Dr. Ranade agreed to this and opined that non receipt of proper rate to farm produce from the traders is one of the major hurdle for growth in livestock farming. He added that for raising the farmers income in true spirit, both farming and marketing should go together.

Hon'ble Vice Chancellor directed to depute one faculty member having expertise in goat farming / fishery from all the constituent Veterinary & Fishery colleges to attend Conference/Expo at Telangana and Andhra Pradesh to get acquainted with Telangana model under the guidance of Director of Extension and Training, so that accordingly we can propose our model in future.

**(Action: Director of Extension)**

### **3. COLLEGE OF VETERINARY & ANIMAL SCIENCES, UDGIR**

Dr. R. R. Mugale, Associate Dean, COVAS, Udgir presented the review report of extension activities conducted by the college during the calendar year 2017 viz. farmer's training on management of livestock in drought, goat farming, Technical refresher courses for Livestock Development Officers and Asst. Commissioners of Animal Husbandry, animal health camps, organization and participation in exhibitions and livestock shows, demonstrations, celebration of events, farmer's visit and visit to animal shelters.

Dr. Bhosale appreciated the quantum of extension activities being undertaken by the college staff and expressed that the college will further strengthen the activities in the coming years.

**(Action: DET & All Associate Deans)**

### **4. BOMBAY VETERINARY COLLEGE, MUMBAI**

Dr. P.L. Dhande, Associate Dean, BVC, Mumbai presented the report of various extension activities of the college such as trainings, demonstrations, NSS camps, refresher courses, publication of popular articles etc.

Hon'ble Vice Chancellor expressed that various activities carried out under Tribal Sub-Plan projects need to be presented in the Extension Council meeting. Dr. P.L. Dhande informed the house that two Tribal Sub plan projects are on-going viz., in the Dept. of Poultry Science and Dept. of LPM. He added that the success stories are also submitted based on said work.

Dr. Bhosale expressed that whatsapp group of extension personnel at constituent colleges need to be prepared and Extension Council Members may be added to it so that extension activities of all colleges will also be known to the members. He suggested the Directorate of Extension to take a lead in this regard. He further opined that at some places farmers producer companies are increasing day by day. He suggested that for sustainable livelihood of farmers, they should be motivated for forming such farm producer companies.

Dr. Rajorhia expressed that milk production is more in the peri-urban region of metro cities like Mumbai and this region fulfills the milk demand of such adjacent cities. He further stated that entrepreneurs should be developed also from such cities so that overall production of milk is increased. He suggested to prepare project proposals on these lines and opined that

various funding agencies provide grants for such work. He opined that constraint of raising fund for extension activities may be overcome by undertaking timely follow up. Hon'ble Vice Chancellor assured the house that efforts will be made for raising funds by submitting project proposals to various funding agencies.

Dr. Bhosale expressed that the eminent personality representing Dairy Industry Dr. Rajorhia is one of the Hon'ble member of the house and requested him to render support to organize one day workshop at all the constituent colleges of MAFSU to address various dairy farming related issues. Dr. Rajorhia agreed to this and assured the house for rendering support for such activities.

**(Action: DET & All Associate Deans)**

## **5. KNP COLLEGE OF VETERINARY SCIENCE, SHIRWAL**

Dr. A. S. Ranade, Associate Dean, Krantisinh Nana Patil (KNP) College of Veterinary Science, Shirwal presented the various extension activities of the college for the last one year. He especially informed the house about Krantivarta – Bhinttipatrika – monthly activities newsletter published by the college.

Hon'ble Vice Chancellor directed the Associate Deans of all constituent colleges to send the monthly activities to the university timely. He further directed to prepare comparative booklet/ pamphlets on farming of quail, duck, turkey, Guinea fowl in Marathi language.

Dr. Bhosale informed that efforts should be made for utilization of household waste and cited example of Dr. Deodhar's work in Sindhudurg district on biogas preparation by utilizing household waste. Hon'ble Vice Chancellor informed that compost can be prepared by degrading green wastes by adding fungal culture and suggested to undertake efforts/ studies on these lines.

**(Action: DET & All Associate Deans)**

## **6. POST GRADUATE INSTITUTE OF VETERINARY AND ANIMAL SCIENCES, AKOLA**

Dr. H.S. Birade, Associate Dean, PGIVAS, Akola presented the extension report of the institute before the house. He specifically informed the house about the organization of

Goat exhibition before Eid festival and plantation of new fodder variety Nutrifeed on the college farm.

Dr. Rajorhia expressed that being Postgraduate institute, should take lead in undertaking extension activities in adjoining district. He added that considering the higher share in input cost of feed in livestock rearing, efforts should be made to recommend feed formulations by using locally available feed ingredients. He further suggested that the faculty members should broaden the area of work and should serve at National and International level.

**(Action: DET & All Associate Deans)**

## **7. COLLEGE OF DAIRY TECHNOLOGY, WARUD**

Dr. S. P. Changade, Associate Dean, College of Dairy Technology (CDT), Warud presented the report of the extension activities of the college before the house.

Dr. Bhosale opined the need to increase the number of Dairy Technology colleges in the state. Dr. Wasnik, Associate Dean, Dairy Technology College (DTC), Udgir narrated the present status of dairy technology colleges and informed that the existing two Dairy Technology colleges are acutely facing constraint of manpower, hence rather than starting new dairy technology colleges, efforts should be made to fill the vacant posts on priority. Hon'ble Vice Chancellor intervened and assured that due care would be taken to strengthen the human resource in the university.

Dr. Rajorhia expressed that refresher course/ trainings on dairy plant operations should be organized. He added that the term 'clean milk production' is old terminology and now 'safe milk production' should be used.

**(Action: DET & Associate Dean, CDT, Warud)**

## **8. COLLEGE OF DAIRY TECHNOLOGY, UDGIR**

Dr. P.G. Wasnik, Associate Dean of CDT, Udgir presented the report of extension activities of the college such as on farm demonstrations, training programmes/workshops, animal health camps in collaboration with COVAS, Udgir, extension publications, TV radio

talks, organization and participation in exhibitions and livestock fairs, celebrations of various events etc.

Dr Wasnik informed that in order to reduce the input cost, efforts are being made for installation of solar steam generators for khoa making. This issue has also been discussed with Maharashtra Energy Development Agency, Pune (MEDA). If the technology is found suitable it may be adopted and propagated in khoa clusters in the state.

**(Action: DET & Associate Dean, CDT, Warud and Udgir)**

## **9. COLLEG OF FISHERY SCIENCES, NAGPUR**

Dr. P.T. Jadhav, Associate Dean of College of Fishery Science (COFS), Nagpur presented the report of various extension activities including on farm demonstrations, farmers training programs, extension publications, radio programs, rallies, workshop, exhibitions, audio visual display, fish farmer's visits to the college, visits to the adopted villages, extension project etc. he informed the house that the faculty members from the college have recently published an Action plan for development of fisheries in Vidarbha region.

Dr. Rajorhia opined that among fishery, dairy and goat farming, fish farming is more profitable. He cited example of West Bengal and informed that in this region every house hold has own ponds and fish farming is practiced on large scale. Dr. Jadhav informed that non-availability of perennial water supply and non conducive environment are the two major constraints in propagating fish farming, particularly in Vidarbha & Marathwada region. He added that Bhandara & Chandrapur Districts are known for more number of ponds and in these districts fish farming is practiced on large scale.

Dr. Rajorhia expressed that there is lot of scope for in-land fisheries and suggested to undertake research based on in land fish farming with limited water supply. He added that the Hon'ble Prime Minister has also kept goal of doubling the farmers income and fish farming is one of the best option to achieve it.

**(Action: DET & Associate Dean, COFS, Nagpur and Udgir)**

## **10. COLLEGE OF FISHERY SCIENCES, UDGIR**

Dr. Khillare Associate Dean of the college presented the report of extension activities such as, on farm demonstrations, trainings on value addition of fish products, participation in

exhibitions, formation of Shetkari Shastradnay Manch, celebrations of various events, activities at adopted villages etc.

Dr. Rajorhia suggested to take inputs from Central Institute of Fisheries Education (CIFE), Mumbai for undertaking research and extension activities. Hon'ble Vice Chancellor informed that MAFSU, Nagpur had already signed MoU with CIFE Mumbai and their inputs are also taken as and when required. He added that the Faculty of Fishery Sciences face problem of man power, however assured to take appropriate action in future.

**RESOLUTION NO. 10/6: The Extension and Continuing Education Council expressed satisfaction about the extension activities being undertaken by the colleges in the year 2017**

## **CONCLUDING REMARKS**

Dr. Somkuwar, DET, MAFUS invited the concluding remarks from the members

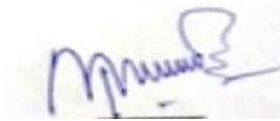
Dr. G. S. Rajorhia, Vice President Indian Dairy Association, Karnal suggested to avoid repetitions in presentation slides. He further opined that progress report of all the colleges may be circulated in advance and during next meeting focus should be made on roadmap ahead.

Dr. Bhosle expressed the need for development of leaflet on comparative performance of different avian species, disease diagnosis, safe milk production, purchase of good animals, information about instructions, rules & certificates for livestock transport.

Prof. A. M. Paturkar, Hon'ble Vice Chancellor thanked all Hon'ble members for their precise inputs and valuable suggestions. He instructed that the quality of photographs should be improved by using softwares like photoshop and other softwares. He suggested to find new avenues/ areas of extension in order to achieve the goal of doubling the farmers income with available limited resources. He also suggested purchasing of foldable trevis at all veterinary colleges so that the same can be used during the animal health camps during outdoor treatment camps to avoid injury to students and staff members. He further emphasized to have Collaborative activities undertaken with Department of Animal Husbandry, Dairy Development and Fisheries Development and also with national institutes like IVRI, NDRI, NDDDB, CIFE for improving the extension activities of the university. He suggested to have few good quality model units of animal husbandry & fishery aspects viz.,

azolla, hydroponics, loose housing system, biogas plant, fodder museum, sweet water prawn cultivation, etc. for the benefit of the visiting farmers.

The meeting ended by the vote of thanks proposed by Dr. Sariput Landge, Technical Officer, Directorate of Extension and Training, MAFSU, Nagpur.



**Director of Extension and Training  
MAFSU, Nagpur**



## ANNEXURE – I

### Regular extension activities to be undertaken during calendar year 2018

Sr. No.	Activity	Proposed activities in number
1.	On farm demonstrations	A minimum of 5 per college
2.	Faculty in the adopted village programme	A minimum of two visits per month
3.	Animal Health Camps to be organized	A minimum of 5 per college for all veterinary colleges including PGIVAS, Akola
4.	Extension publications	At least two per faculty members
5.	Participation in radio	As per allocation by All India Radio
6.	Participation in television programmes	As per allocation by Doordarshan
7.	Organization of exhibitions, fairs, melavas, rallies, livestock shows	A minimum of one activity by each college
8.	Development of audio-visual aids	A minimum of two by each college
9.	Exposure visits of farmers to the constituent colleges, research farms and modern establishments.	A minimum of two by each college
10.	Participation and organization of Scientists-Farmers Meet	A minimum of two by each college
11.	Taking various extension oriented field studies	A minimum of one by each college
12.	Organization of technical seminars for field veterinarians	A minimum of one by all veterinary colleges including PGIVAS, Akola
13.	Participation in exhibitions, fairs, melavas, rallies, livestock shows	As per the local requirements
14.	Promoting success stories	A minimum of two by each college
15.	Organization of farm visit for the faculty members	A minimum of two by each college
16.	Participation in programmes organized by various line departments	A minimum of two by each college
17.	Promotion of scientific aquaculture practices	A minimum of two by each college

18.	Answering farmer's queries through telephone and letters	As per the requirement
19.	Faculty at the Training programme/lectures delivered during farmers fairs, trainings and other scientist- farmers meet.	As per the requirement
20.	Training calendar for the year 2018	It is presented in separate annexure.
21.	Awareness programmes on the occasion of celebration of various events	

## ANNEXURE-II

### TRAINING PROGRAMMES FOR FARMERS TO BE CONDUCTED DURING 2018

Sr. No.	Name of Department	Title of Training	Eligibility candidate
<b>FACULTY OF VETERINARY SCIENCE</b>			
1	<b>Animal Nutrition</b>	1. Computerized balanced diet formulation for dairy animals.	Educated unemployed youth , Dairy entrepreneurs
		2. Fodder Management	Educated unemployed youth , Dairy entrepreneurs, Farmers
		3 Enrichment of fodder	LSS/ Educated unemployed youth , Dairy entrepreneurs, Farmers
		4. Green Fodder production for animals	Farmers
		5. Commercial Goat Farming	Farmers
2	<b>Department of Livestock production and Management</b>	1. Modern Dairy Farming	Farmers
		2. Intensive Dairy Farming	Farmers
		3. Modern Goat Farming	Farmers
		4. Intensive Goat Farming	Farmers
3	<b>Poultry Science</b>	1.Short Term Commercial Poultry Training Course	Any individual willing to undertake the course
4	<b>Department of Livestock Products Technology</b>	1.Milk processing and Value addition	No criteria for educational qualification
		2. Hygenic Meat production and processing	No criteria for educational qualification
		3. Utilization of slaughter house By-products	No criteria for educational qualification
5	<b>Veterinary and Animal Husbandry Extension and LPM Department</b>	1. Scientific Dairy Production	Farmers and unemployed youth
		2. Commercial Goat Production	Farmers and unemployed youth

		3.Challenges and interventions required for sustainable livestock Farming in Marathwada region	Graduate
6	<b>Veterinary Parasitology</b>	1.Control of parasitic infestations of farm /companion animals	Farmers/ Cattle owners/Pet owners
7	<b>Department of Veterinary Public Health and Epidemiology</b>	1. Occupational health hazards to Veterinarian, butchers and other workers.	Veterinarian and Butchers
		2. Hands on training on production of hygienic chicken meat on newly developed model retail outlet	Butcher or supervisors
		3.Standardization and calibration of laboratory equipments	Graduate in any science discipline with working experience in food / diagnostic laboratory
		4. Slaughter house by product utilization	Butchers and small entrepreneurs
		5. Food Safety Aspects of Animal Origin foods	Livestock Development Officers / Academicians / Industry personnel
8	<b>Veterinary Clinical Medicine, Ethics and Jurisprudence</b>	1.Health Management of Sheep and Goat	Farmers
		2.Health management of Dairy Animals	Farmers
		3.Dog training – a challenging entrepreneurship programme for the youth	S.S.C passed candidate
9	<b>Veterinary Epidemiology and Preventive Medicine</b>	1.Diseases of Livestock and their prophylaxis	Literate Livestock Owners/ Farmers
		2.Care and Management of dogs and cats	Pet owners
		3. Care and management of turtle, rabbits, ornamental fish and guinea pigs	Pet owners
		4. Basics of Herd health Management for dairy farmer.	Literate Livestock Owners/ Farmers

		5. Preventive health care of pet animals.	Pet owners
		6.Fresh cow management programme for high yielding dairy animals	Dairy entrepreneurs, livestock managers and livestock owners
FACULTY OF DAIRY TECHNOLOGY			
1	Department of Dairy Technology	1.Dairying for Upliftment of farmers	Farmers
		2.Essentials of starting a new Dairy Business	Farmers, SHGs, Extension Officers, unemployed youth
		3.Value added milk products	Farmers, SHGs, unemployed youth
		4.Quality production of Khoa	Anyone who are interested
FACULTY OF FISHERY SCIENCE			
1	Department of Fish Processing Technology and Microbiology	1.Value added fish products Development	Women Self Help Group members and other
2.	Department of Aquaculture	1.Fish Farming in Ponds and Tanks	Farmers , fishermen, Entrepreneurs, members of Self Help Group
		2.Ornamental Fish Seed Production and management	Unemployed youth, Women SHG
		3.Fresh water fish seed production	Anyone who are interested
3.	Department of Fisheries Resources, Economics, Statistics and Extension Education.	1.Culture Based Fisheries in Small Reservoirs	Farmers , fishermen, Fish farmers, Entrepreneurs, members of Self Help Group
4.	Department of Fisheries Hydrography	1.Management of Water Quality Parameters in Aquaculture	Farmers , fishermen, Entrepreneurs
5.	Fisheries Engineering	1. Design and construction of Fresh water Fish Farm	Farmers , fishermen, Entrepreneurs

## TRAINING PROGRAMMES FOR FIELD VETERINARIANS

Sr. No.	Name of Department	Title of Training	Eligibility candidate
<b>FACULTY OF VETERINARY SCIENCE</b>			
1	<b>Animal Genetics and Breeding</b>	1. Conservation of Indigenous Livestock Germplasm	L. D. O./ ACAH
		2. Animal Recording For Improved Breeding And Management Strategies	L. D. O./ ACAH
		3.Genetic Improvement in Bovines through Progeny Testing	L. D. O./ ACAH
		4. Formation ,Registration and Functions of Breed Society	ACAH/ L. D.O. /LSS/Paravets/ Livestock Keepers
		5. Basic Techniques in Animal Molecular Genetics	L. D. O./ ACAH/ Biol. Sc. Teachers & Students
		6.Field Performance Recording (Milk) for Genetic Improvement of Livestock	L.S.S./Para-Vets
		7. Field Livestock Data Collection for Breeding	L.S.S./Para-Vets
		8. Essentials of Livestock Census	L.S.S./Para-Vets
2	<b>Animal Nutrition</b>	1. Computerized balanced diet formulation for dairy animals.	LDO/LSS/
		2. Fodder Management	LDO/LSS
3	<b>Department of Veterinary Physiology</b>	1.Refresher course in basic laboratory diagnostic techniques & their application in veterinary practice	B. V. Sc & A. H.
		2. Refresher course in basic laboratory diagnostic techniques & their application in veterinary practice	LSS/ Diploma holders
		3. Short course in climate change and stress management in animals.	Master's degree in preferably Veterinary Science (preferably Physiology, Livestock Management)/ Life Sciences / Zoology / Dairy Science / Animal Husbandry / and allied science, working not below rank of Assistant Professor and
4	<b>Department of Veterinary Biochemistry</b>	1. Veterinary clinical Biochemistry Laboratory Diagnostic techniques	B. V. Sc & A.H /M.V.Sc/Diploma holder in animal husbandry

		2. Urine Analysis as an aid in Field Diagnosis for LDOs	LDOs
		3. Maintenance of Laboratory and Instrumentation for LSS	LSS Diploma holder in animal Husbandry
		4. Advances in clinical Biochemistry	B. V. Sc. & A.H., M. V. Sc., M. Sc., DMLT or its
		5. Atomic Absorption Spectrophotometry for micronutrient	B. V. Sc & A. H/ M. V. Sc./M. Sc.
5	<b>Department of Veterinary Microbiology and Animal Biotechnology</b>	1.Refresher Course in Laboratory Diagnosis of Infectious Diseases	LDOs, Technocrats from Private/Public Institutions, students/staff from Life Science Colleges
		2.Techniques in Tissue Culture	LDOs, Technocrats from Private/Public Institutions, students/staff from Life Science Colleges
		3. Techniques in Molecular Biology	LDOs, Technocrats from Private/Public Institutions, students/staff from Life Science Colleges
		4. Hands on Training on Molecular Diagnosis of important infectious diseases	LDOs, Technocrats from Private/Public Institutions, students/staff from Life Science Colleges
		5. Techniques in investigations of Clinical Samples	LSS
6	<b>Veterinary Parasitology</b>	1. Control of economic losses to livestock sector through integrated Parasite Management Programme	LDO,SMS of KVK, Field vets
		2.Integrated Pest Management for optimum animal production	LDO, SMS of KVK, Field Vets, Scientists, Teachers, PG
7	<b>Department of Pathology</b>	1.Refresher training course on “Diagnostic Techniques in Veterinary Pathology”	B. V. Sc. & A.H. Graduates
8	<b>Department of Veterinary Public Health and Epidemiology</b>	1. General requirement for NABL accreditation of testing and calibration	Graduate in any science discipline with working
		2. Occupational health hazards to Veterinarian, butchers and other workers.	Veterinarian and Butchers
		3. Environmental Hygiene and Sanitation	Veterinarian, Scientist, Academician, Post Graduate students

		4. Standardization and calibration of laboratory equipments	Graduate in any science discipline with working experience in food / diagnostic
		5. Advances in quality control of meat and meat products	LDOs / Academicians Meat Industry personnel
		6. Hygienic Meat Production	Municipal Officers / Livestock Development Officers / Veterinarians
		7. Food Safety Aspects of Animal Origin foods	Livestock Development Officers / Academicians / Industry personnel
		8. Hands on training on diagnostic techniques with special reference to important / zoonotic diseases	Livestock Development Officers / LSS / Academicians / Scientist
9	<b>Veterinary Clinical Medicine, Ethics and Jurisprudence</b>	1. Critical care and emergencies in Veterinary Practice	ACAH / LDO/ Private practitioner
		2. Herd approach to diagnosis and treatment of Metabolic and Nutritional	Livestock Keepers and field officers
		3. Animal Health Management	Livestock Keepers and LSS
		4. Recent trends in diagnosis and therapeutic management of ruminant	ACAH and LDOs, of Govt of Maharashtra
		5. Therapeutic Management of Metabolic Diseases in animals	LDOs/Veterinary Graduates
		6. Wildlife Health Management	L. D. O./ ACAH Vet Graduates
		7. Haemodialysis Training	M.V.Sc. Medicine (with small animal focus)
		8. Radio Immune Assay (RIA) and Immuno Radiometric Assay (IRMA) in Veterinary Practice	B.V.Sc. & A.H.
10.	<b>Department of Gynaecology and Obstetrics</b>	1. Ultrasonography in large & small animals	B.V.Sc. & A.H./ M.V.Sc
		2. A.I./Pregnancy Diagnosis in ruminants	B.V.Sc. & A.H./M.V.Sc
		3. Fertility management in farm animals	B.V.Sc. & A.H./M.V.Sc
		4. Postpartum reproductive disorders in Farm animals.	B.V.Sc. & A.H./M.V.Sc
		5. Canine Reproduction	B.V.Sc. & A.H.
11	<b>Veterinary Surgery and</b>	1. Diagnostic Imaging Technique	LDOs, Technical staff of SAU, Veterinary practitioners



	<b>Radiology</b>	2. Canine Surgery	LDOs, Technical staff of SAU, Veterinary practioners
		3.Advancement in Large Animal Surgery	LDO, Technical Staff of SAU, Vet practioners, PG students
		4.Advanced Radiographic procedures in Veterinary Practice	LDO, Technical Staff of SAU, vet practioners, PG students
		5.Recent protocols in Equine Anaesthesia & Surgery	LDO, Technical Staff of SAU, Vet practioners, PG students
		6.Laparoscopy techniques in small animals	LDO, Technical Staff of SAU, Vet practioners, PG students
		7.Large Animal Anaesthesia	LDO, Technical Staff of SAU, Vet practioners, PG students
12	<b>Department of Veterinary Pharmacology and Toxicology</b>	1. Applied Clinical Pharmacology for field veterinarians	LDO
		2. Basics and Ethics of laboratory animal experimentation	Science degree holder