

Proceedings

National Youth Convention



Attracting and Retaining Youth in Agriculture (ARYA)

27th January 2016, New Delhi



Organized by

**Indian Council of Agricultural Research
and**

All India Agricultural Student's Association



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©All India Agricultural Students Association (AIASA)

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Foreword

Indian agriculture continues to contribute enormously towards food and nutritional security and providing employment to a large section of rural society. Of late the rural youth migration to urban bases has been rampant and sustaining interest of rural youth in agriculture is a challenging task. The agriculture sector has to create opportunities for entrepreneurship development among youth through skill development and science & technology led growth. In this context “National Youth Convention on Attracting and Retaining Youth in Agriculture (ARYA)” was jointly organized by the Indian Council of Agricultural Research (ICAR) and All India Agricultural Student’s Association (AIASA) on 27th January, 2016 at NASC Complex, New Delhi.

There were four technical sessions viz., I: ICAR and DAC Initiatives for Youth in Agriculture; II: Agripreneurship Development through Institutional Linkages; III: Techno-Administrative reforms in Agriculture; IV: Innovations in Agricultural Research and Education for Agripreneurship Development; Felicitation & Award ceremony and Oath taking ceremony of office bearers was presided over by Hon’ble Union Minister of Agriculture and Farmers Welfare Shri Radha Mohan Singh.

The deliberation immensely emphasized on techno-administrative reforms in agriculture including creation of Indian Agriculture Service, granting professional status to agriculture education, separate budget for agriculture, entrepreneurship development through involvement of youth; collaborative work to continue to develop ideas to improve the systems for the overall agricultural development.

The proceedings are based on the interactions of experts, lead speakers, scientists, farm youth, farmers and entrepreneurs who took part in deliberations. I take this opportunity to thank all the participants, organizers, press & media and sponsors of the convention for their contributions and support in organizing the convention. I would specially mention AIASA and its members for their involvement and commitment in organizing the convention.

10th June, 2016
New Delhi

(A.K. Singh)

Chairman Organizing Committee





From the President's Desk...



The “National Youth Convention on Attracting and Retaining Youth in Agriculture (ARYA)-2016” was jointly organized by the Indian Council of Agricultural Research (ICAR) and All India Agricultural Students Association (AIASA). This convention was financially supported by Indian Council of Agricultural Research (ICAR); RR Institute of Modern Technology (RRIMT); Monsanto India Ltd., Morna Biotech Ltd. and Karnataka Cashew Development Corporation. A souvenir was published containing articles full length papers, lead lectures and abstracts of national importance with respect to: ICAR and DAC initiatives for youth in agriculture; Agripreneurship Development through Institutional & Industrial Linkages; Techno-Administrative Reforms in Agriculture (Indian Agriculture Service) and Innovations in Agricultural Research and Education for Agripreneurship Development. The ICAR is the apex body at national level for development of agriculture in terms of research, education and dissemination of technologies at farm level. The AIASA is a professional organization of present and former students in the field of Agriculture, Veterinary, Dairy, Horticulture, Fisheries, Forestry, Home science, Sericulture, ABM and other allied sciences, registered under Societies Registration act 1860. AIASA advocates for resolving the long pending issues of creation of the All India Cadre of “Indian Agriculture Service” for appointment of “Right person at the Right place” and grant of professional status to agriculture sector at par with other professions for better job opportunities and career advancement of the personnel serving the primary sector and delivery of quality inputs by involving farm youth. The main mission is to empower youth in agriculture for development of agriculture and the nation. It is essential to foster the bond between agricultural students & professionals and to raise the voice for techno-administrative agricultural reforms and advancement in agriculture by involvement of agriculturists in policy formulation and implementation.

India, to provide food security, employment and livelihood support in 21st century would require a very significant contribution of Techno-Administrative Agricultural support mechanism. In the present system there are crucial deficiencies with respect to the poor delivery of inputs and services for agricultural production system, e.g. defects in the framework of policy formulation, weaknesses in organization and institutional structures, procedural ineffectiveness, lack of coordination between different agencies and implementation of agricultural development programme by general bureaucrats.

In the backdrop of the addressing the above issues, AIASA has timely organized this convention jointly with ICAR. The deliberations at the convention have generated crucial policy directions



which are expected to help restructuring process for Techno-Administrative Agricultural Service mechanism.

The proceeding of the convention has been made possible by the cooperation and support of the participants who readily agreed to prepare the valuable articles and took part in the deliberations. We also take this opportunity to thank all the participants, organizers, and sponsors of the convention for their advices, physical and financial support in organization of the convention.

8th June, 2016
New Delhi

A handwritten signature in blue ink, which appears to read 'Sudhir', is positioned above the printed name.

(Sudhir Kumar)

National President, AIASA
Co-Chairman Organizing Committee



Acknowledgement

I on the behalf of organizing committee express my thanks and gratitude to Hon'ble Union Minister of Agriculture and Farmers Welfare Shri Radha Mohan Singh ji, for graciously accepting our invitation as the chief guest of the National Youth Convention with the theme of Attracting and Retaining Youth in Agriculture. I express thanks and gratitude to Secretary, DARE & DG-ICAR, Dr. S. Ayyappan; Director General of ICFRE, Dr. Ashwani Kumar for their participation and valued contribution for successfully organizing the National Youth Convention on Attracting and Retaining Youth in Agriculture jointly by ICAR and AIASA on 27th January, 2016 at NASC Complex, New Delhi. I would like to explicitly acknowledge the wonderful support and enthusiastic cooperation which was received from our co-organizer: Indian Council of Agricultural Research; specially from Agricultural Extension Division. A very special thanks to Dr. A.K. Singh, DDG Agricultural Extension; Dr. P. Adhiguru, Principal Scientist, Agricultural Extension; Director, Deputy Secretary, Under Secretary of Division of Agricultural Extension of ICAR for their continuous guidance and support extended during the convention.

The financial support provided by ICAR as co-organizer and for sponsoring the event for printings of souvenir, proceedings, conference materials and other items are duly acknowledged. The financial support provided by Monsanto India Ltd., RR Institute of Modern Technology, Karnataka Cashew Development Corporation (KCDC) and Morna Biotech Ltd are duly acknowledged.

I express my deep sense of gratitude to all the Chairs, Co-chairs, and Panellists, convenors, rapporteurs of different technical sessions for sharing their great knowledge and experience with the students and farmers. I would like to give thanks to Hon'ble Vice-chancellors, Directors, Deans, Professors, and Scientists of different Agricultural universities and research institutes for being a part of this convention. AIASA also bows his head to the lotus feet of our patrons Dr. M.S. Swaminathan, Sh. Jagdambika Pal, Member of Parliament; Lt. Gen (Dr.) N. Mohanty, Ex. President, VCI, and Dr. R.P. Singh, Executive Secretary, IAUA for their blessings and continuous guidance. I express my gratitude and thanks to Dr. Gurbachan Singh, Honorary Chairman, Advisory Board, AIASA for his participation and for providing continuous guidance and support to AIASA. I personally express my gratitude to Dr. Sahadeva Singh, Chief Policy Advisor, AIASA for his untiring efforts and guidance for the grand success of event. Thanks to Dr. Mahesh Chandra Yadav, Professor (Dr.) Vijay Kumar Yadav, Dr. Kundan Singh, Dr. Ranvijay Pratap Singh for their valuable guidance and support provided for successful organizing the event. Thank to Dr. M.K. Verma, Principal Scientist, Division of FHT- IARI, for his great talent in putting scientific and socialistic things in an artistic way during the preparation of souvenir and cabinet book.

Finally, I express my greetings to all the students and youth farmers who contributed papers/ abstracts for publication in the Souvenir and which has given an extra important to the souvenir.



I would like to express a heartily appreciation of all the students and farmers, representatives of Industry, media personnel from different parts of the country who participated in the programme and made it successful. On the behalf organizing committee I express warm greetings to all the volunteers who worked intensively for successfully organizing the event.

8th June, 2016
New Delhi

(Kuleshwar Prasad Sahu)
Chief Coordinator AIASA &
Organizing Secretary NYC-ARYA



Contents

<i>Foreword</i>	<i>iii</i>
<i>From the President's Desk...</i>	<i>v</i>
<i>Acknowledgement</i>	<i>vii</i>
1. Executive Summary	1
2. Inaugural Session	3
3. Technical Session-I: ICAR and DAC Initiatives for Youth in Agriculture	6
4. Technical Session-II: Agripreneurship Development through Institutional Linkages	9
5. Felicitation, Awards and Oath taking Ceremony	12
6. Technical Session-III: Techno-Administrative Reforms in Agriculture	22
7. Technical Session-IV: Innovations in Agricultural Research and Education for Agripreneurship Development	26
8. Valedictory Session	29
Annexure-I: Address of Hon'ble Union Minister of Agriculture & Farmers Welfare	31
Annexure-II: Programme	34
Annexure-III: List of Participants	37
Annexure-IV: Sponsors	45
Photo Gallery	46





Executive Summary

Agriculture continues to remain a major sector of the Indian economy. It contributes 13.8 per cent of GDP, provides more than 50 per cent of employment and continues to be the primary source of living for 58 per cent of the population. Technological progress in agriculture is, therefore, crucial for the overall economic development of the country. Involvement of youth in agriculture sector is need of the hour to make agriculture a profitable venture by initiating major reforms in techno-administrative support system for agriculture by involving youth in policy formulation, implementation of agriculture development programmes. With the aim, National Youth Convention on "Attracting and Retaining Youth in Agriculture" was organised by All India Agricultural Student's Association (AIASA) and Indian Council of Agricultural Research (ICAR) on 27th January 2016 at National Agriculture Science Centre, New Delhi.

There were four technical sessions viz., I: ICAR and DAC Initiatives for Youth in Agriculture; Session-II: Agripreneurship Development through Institutional Linkages; Session-III: Techno-Administrative reforms in Agriculture; Session-IV: Innovations in Agricultural Research and Education for Agripreneurship Development. Besides, the Felicitation and Awards & Oath taking ceremony session was presided over by Hon'ble Union Minister of Agriculture and Farmer's Welfare Shri Radha Mohan Singh.

The experiences were exchanged between policy makers, bureaucrats, technocrats, academicians, industrialists, youths and farmers on crucial issues highlighted under each session. Around 400 delegates participated in the convention representing all the stake holders.

Several conclusions were reached on techno administrative reforms in agriculture including creation of Indian Agriculture Service, granting professional status to agriculture, separate budget for agriculture, entrepreneurship development through involvement of youth and the collaborative work will now continue to develop these ideas in order to improve the systems for the overall development of agriculture. After detailed deliberations based on four thematic issues i.e., i) ICAR and DAC initiatives for Youth in Agriculture; ii) Agripreneurship Development through Institutional Linkages; iii) Techno-Administrative Reforms in Agriculture and iv) Innovations in Agricultural Research and Education for Agripreneurship Development, the major observations and recommendations were emerged as below:

1. The main emphasis was to the issues like youth empowerment through agriculture and the need for appropriate methodologies to be adopted. Involvement of AIASA in different decision making bodies of government and representation of farm youth in all policy making bodies was emphasized.
2. There is a need for creation of All India Agriculture Services with robust and transparent system. The agreement was reached that the youth can only be attracted if the agricultural services are made more lucrative and respectful. This is only possible through inclusion of agriculture in the

concurrent list of constitution, provision for separate budget for agriculture, entrepreneurship development and formulation of ways and means for creation of separate agricultural services. There was unanimity in the house for immediate creation of All India Cadre of Indian Agriculture Service.

3. There were common consensus that the entrepreneurship development programmes and trainings should be directly linked to the youth and human resource development institutes and involvement of youth associations associated with agriculture in implementation of schemes needs to be there.
4. Major thrust is required for public and private investments in the agriculture sector from production to consumption chain and the investment on agriculture and allied education in SAUs, CAUs, and DUs must be enhanced for maintaining quality education under National Agriculture Education System.
5. Training on skill development including marketing and value addition need special focus in government plan and budget allocation. Budgetary support may be given to SAUs, DUs, and CAUs for having strong human resource development unit in each campus.
6. There is need to establish the *Entrepreneurship Incubator Cells* at college and university level for guiding students towards entrepreneurship with the involvement of VC's, Directors and Deans and experts. It was recommended that entrepreneurship development programmes need to be implemented in mission mode approach.
7. It was desired by the speakers and the participants that the success stories from all the corners should be compiled and brought out in different state languages for the benefit of agriculture sector.
8. Central and State Agriculture Councils as regulatory body for giving accreditation to agriculture education throughout the country including private institutions and for granting license to Agriculture degree holders for agripreneurship development may be established.
9. Need innovations in agriculture research and education for Agripreneurship development.



Inaugural Session

- Chief Guest : Dr. S. Ayyappan, Secretary DARE & DG, ICAR
- Guest of Honour : Dr. Ashwani Kumar, DG, ICFRE
- Dignitaries on the dais : Dr. A.K. Singh, DDG (Agril. Extn.), ICAR
Mr. Sudhir Kumar, National President, AIASA
Dr. R.P. Singh, Patron, AIASA
Dr. Sahadeva Singh, Chief Policy Advisor, AIASA
Dr. P. Adhiguru, Principal Scientist, ICAR
Mr. Ranvijay Pratap Singh, AIASA
Mr. Kuleshwar Sahu, Chief Coordinator, AIASA
- Rapporteurs : Dr. M.K. Verma, Principal Scientist, IARI
Ms. Sapna Thakur, AIASA



The National Youth Convention on Attracting and Retaining Youth in Agriculture (ARYA) was organized by the Indian Council of Agricultural Research (ICAR) and All India Agricultural Student's Association (AIASA), at National Agricultural Science Complex (NASC), New Delhi, 110012, India on 27th January, 2016.

Dr. S. Ayyappan, Secretary, Department of Agriculture Research and Education, & Director General, Indian Council of Agricultural Research, New Delhi was the Chief Guest. Dr. Ashwani Kumar, Director General, Indian Council of Forestry Research and Education (ICFRE), New Delhi was the Guest of Honour and Dr. A.K. Singh, Deputy Director General (Agricultural Extension), Indian Council of Agricultural Research; Mr. Sudhir Kumar, National President, AIASA was also present. The inaugural session started with an invocation song sung by the students of Post Graduate, School, Indian Agricultural Research Institute (IARI), New Delhi. Dr. A.K. Singh welcomed the Chief Guest and Guest of Honour and other participants.

Dr. S. Ayyappan, Secretary, DARE and DG, ICAR inaugurated the convention. Dr. A.K. Singh, Deputy Director General (Agriculture Extension), ICAR welcomed the Chief Guest, Guest of Honour and other Guest attended the convention. In his welcome address, he briefly highlighted about the project launched by ICAR entitled "ARYA" for entrepreneurship development youth in agriculture. He emphasized the synergy between agriculture youth and farmers to work together hand in hand for bringing professionalism in the agriculturals sector. He also showed the concerns about the youth leaving agriculture.

Mr. Sudhir Kumar, National President, AIASA, expressed happiness for organizing a national youth convention by the ICAR and the AIASA (Youth representatives from all corners of country). Agricultural students are first time together along with ICAR and farmers for strengthening for the backbone of our country which is nothing but agriculture. There is a need to attract youth in agriculture. About 60 to 70% of the people are involved in agriculture in our country but still there is no provision for All India Agriculture Services. So there is a need for rethinking to bring it to reality.

Dr. Ashwani Kumar, said that the best profession is agriculture and India is nowadays moving towards developed countries so economists are focussing more in service sector, as compared to our primary sector i.e., agriculture. Large number of people in agriculture are poor. Major problem is that the due to globalization people are exposed to modern life styles, so even rural people are attracting towards urban facilities and therefore rural youth is leaving agriculture and shifting to cities. Therefore, there is need to provide urban facilities in rural areas. There is need to use most scientifically proven technology at farm level for improving farm income. The net area under agriculture is on declining side. The suitable policy is needed to make use of the land. Scientists need to decide the multiple land use & changes occurring in land use patterns across the country

Dr. S. Ayyappan, Secretary, DARE & DG-ICAR in the inaugural address thanked Dr. Ashwani Kumar of ICFRE for accepting the chair of Guest of Honour. He also thanked the All India Agricultural Students Association for taking the responsibility to collaborate with the Indian Council of Agricultural Research to organize the National Youth Convention on Attracting and Retaining Youth in Agriculture. Dr. Ayyappan observed that in view of the prevailing agricultural scenario, attracting youth is the major investment for a developing country like India. Because, agriculture provides the three time food every day to 125 crore Indian population directly or indirectly and our country is bestowel with the youngest population on the earth, therefore, there should be emphasis for agricultural development which is the key for every success in the country. It requires enthusiastic



science, good skill, good sense, women empowerment and good youth. He advocated the ratio of 50% is agriculture as livelihood, 50% involvement of youth in agriculture and 50% population in rural areas. Dr. Ayyappan emphasized to celebrate the agriculture. He also desired to collect the success stories on agriculture and their dissemination among the farmers of country. Dr. Ayyappan appreciated the efforts made by AIASA for initiation of transformation of agriculture information to farming communities and empowerment of youth in agriculture through skill development and he called upon the entire agriculture communities for joining membership of AIASA to strengthen this professional organization for betterment of agriculture sector. He urged the youth to have small gatherings for conducting meetings with KVK,, panchayats, etc in their respective areas and identify the problems, look for the solution to resolve issues related to agriculture. Dr. Ayyapan laid emphasis on need of professional degree for agriculture to be at par with other professions, "Declaration of agriculture degree as professional degree at par with other profession". In his speech, he also stressed upon the formation all India cadre of Indian Agriculture service and urged all the people from every corner of the country to support the movement

Mr. Ranvijay Pratap Singh, National Secretary, AIASA, offered a vote of thanks on behalf of the organizing committee.

Technical Session - I

ICAR and DAC Initiatives for Youth in Agriculture

Chairman	:	Dr. K. Narayana Gowda, Former VC-UAS, Bengaluru
Convener	:	Dr. P.S. Pandey, ADG (EP&HS), ICAR Dr. P. Adhiguru, Principal Scientist (Agril Extn), ICAR
Panelists	:	Dr. A.K. Singh, DDG (Agril. Extn.), ICAR Dr. Narendra Singh Rathore, DDG (Education), ICAR Dr. P. Chandrashekhara, Director (Agril Extn.), MANAGE Dr. Ajay Verma, Scientist, NAARM
Rapporteurs	:	Dr. M.K. Verma, Principal Scientist, IARI Ms. Sapna Thakur, AIASA



Chairman of the Session invited all the four panellists one by one for presentation and discussion was held after each presentation.

Dr. A.K. Singh, DDG (Agricultural Extension) gave brief outline of ARYA scheme and stated that the scheme is specially designed for rural youth those who are directly dependent on Agriculture.



He stated that present world population is 7.18 billion and it will likely to reach to 9.6 billion by 2050, to feed all of them the agriculture sector must have to come forward. He focused to strengthen the three major aspects that are water use efficiency, land use efficiency and post harvest management. He also discussed about the problems related to climate change and correlated the problem with adverse impact on total crop production. As the purchasing power will increase the demand of food will also increase and according to an estimate by 2050 the food demand will be two fold than the present level.

He explained the ICAR scheme 'Attracting and Retaining Youth in Agriculture' which aims to provide a sustainable income to the younger generation of the country. The provisions of the scheme including working with youth groups, forming their networks and skill development were elaborated. The scheme ARYA will be implemented through KVKs, at least one district from each state and 4-5 clusters of contiguous villages will be chosen. From the selected districts about 200-300 youth will be identified for the skill development for carrying out entrepreneurial activities and establishment of micro- enterprise units. The trained youth will mentor other youths and demonstrate the potentiality of agri-based enterprise. At KVKs one to two agri enterprise units will be established so that they serve as training unit for the farmers. He further explained that rural youth may also move towards establishing the food processing and post harvest units in cooperative mode. He cited an example of a farmer from Vijayawada (AP) that how he established the fish farming unit and setup an example for youth of the country.

Dr. Narendra Singh Rathore, DDG (Education) stated with a message for youth "don't think that you are everything and don't think that you are nothing, always think that you are something which can do everything". He stated that every year about 1,00,000 youth are coming which do not have job and only agricultural sector can provide them job. He further said that we don't have shortage of job in country, only problem is that we are working with poor skills. Agricultural sector have 105 identified sub sectors in which we can do skill development. ICAR has also designed students' ready programme to strengthen the Agricultural education system & develop skills among youth.

Dr. P. Chandrasekhar discussed about the agripreneur concept, agri-clinic and agribusiness development in the country. He stated that MANAGE is providing two month training programme to the youth for agriclinc and agribusiness establishment. Loan is also provided up to Rs. 20.00 lakhs.

The study conducted by professional institutions indicate that the retaining of agriculture graduates in villages may improve farm production by 72%, yield increase by 17.4%, income increase by 28.8%, and ultimately improve employment generation for youth in agriculture.

Dr. Ajay Verma, young scientist highlighted about the details of emerging agricultural scenario and challenges for agricultural research in India and emphasized for need based research and strengthening of techno administrative set up and called upon farm youth to take the benefits of various schemes including ARYA to equip themselves by acquiring knowledge and involving in developmental activities for food security and for over all development of agriculture sector.

Chairman Dr. Narayana Gowda in his concluding remarks stated that ICAR is really keen in implementing this ARYA scheme throughout the country and it is an opportunity for Agricultural

Graduates to take forward this scheme. He stated that agricultural education is now becoming preferable for Indian students and young generation is really coming forward for agricultural activities like medical and technical education.

After detailed deliberations, the following observation and recommendations emerged are given as under:

1. There should be increased collaboration and cooperation between the ICAR and DAC for effective delivery of the services.
2. Network groups needs to be established and linkages between various groups are required i.e., 4 to 5 clusters at least in each district of a state. About 200 to 300 youth need to be identified in each district for skill trainings which may further reciprocate the same. Youth organizations could play a big role in identifying the potential youth for their involvement in skill development though networking and linkages.
3. Private investments in food processing or post harvesting practices are required.
4. Need for conservation of précised agriculture to secondary agriculture (in post-harvest technology).
5. In India, among 800 universities, only 73 are for agriculture & allied sciences. This results in yearly unemployment to the tune of 10 lakhs due to unskilled manpower. Therefore educational institutions which are skill based are required in agricultural sector.
6. As agriculture is the largest sector to provide employment to rural youth with its 105 subsectors, more investment in infrastructure development is required.
7. MANAGE trained about 4600 graduates for entrepreneurships, 2500 of them are actively engaged. More such institutions need to be developed for providing skill development training by associating AIASA
8. Agri-clinics and Agri-business centres are the outcome of Agricultural Institutes. More emphasis need to be given for establishing agri-clinics and agri-business centres by involving youth in agriculture for providing quality inputs to farmers and facilitating agriculture marketing and trade within and outside the states.
9. Agriculturists must be appointed in policy making body, agriculture development department, extension, agriculture marketing and trade at Central and State level for providing quality inputs for better policy formulation and development of agriculture.

Technical Session - II

Agripreneurship Development through Institutional Linkages

Chairman	:	Dr. S.A. Patil, Former Director, IARI & VC, UAS Dharwad
Co-Chair	:	Dr. Raja Ram Tripathi, Chairman, CHAMF
Convener	:	Dr. V.P. Chahal, ADG (Extn.), ICAR Dr. Rajbir Singh, Director, ATARI, Ludhiana
Panellists	:	Dr. J.P. Sharma, Joint Director (Extension), IARI Dr. B.B. Singh, Tata Chemicals Mr. Satendra Singh Arya, CEO ASCI Mr. Neeraj Kumar, BAU, Sabour
Rapporteurs	:	Dr. M.K. Verma, Principal Scientist, IARI Ms. Sapna Thakur, AIASA



The Chairman of the Session invited all the four panelists one by one for presentation and discussion was held after each presentation.

Mr. Satyendra Singh Arya, CEO, Agriculture Skill Council of India (ASCI) stated that there must be some entrepreneur incubator cell in Agricultural universities and institutes which can guide the Agricultural Graduates for becoming an entrepreneur to help them to open a small business. There are 427 job opportunities within agriculture which can be cultivated to create employment. He stated

that ASCI is also trying to make occupational standard within each job opportunity and also on the standardization of financial requirement.

Dr. J. P. Sharma stated that biggest problem of our country is unemployment, which is increasing in both rural and urban areas. It is not only economic problem but also a social issue and the farmer do not want their children to depend on agriculture. He further stated that rural youth do not want to remain in agriculture. There are several opportunities in field of agriculture which can be harnessed; one of them is value addition. Value addition is a big sector for employment generation. India is doing only 2-7% as compared to 50-70% value addition in western countries. It will increase farmer's income. We have trained the farmers how to produce but not trained about marketing.

Dr. B. B. Singh emphasized on entrepreneurship developments in agriculture, categorizing it into 3 sub sectors: first is business related to agricultural inputs, second related to agricultural outputs and third related to agricultural services. The agricultural service providing sector is least developed in India, so their organization designed a skill development programme by institutional linkages for the rural youth to provide agricultural services to the farmers. He also stated that all those youth participated in the training programme are successful entrepreneur and they are not job seeker now but providing job to others also.

Mr. Neeraj Kumar, Research Scholar said that investment should be more in technical and vocational education in agricultural sector. There is a need for initiating strong training and skill development programme and creating infrastructure for youth in agriculture for giving latest information and advance training to farm youth. It is also needed to safeguard our agri entrepreneur from unhealthy market competition. Developing and incorporating the IITK based tools for entrepreneurship development should be encouraged. There is also need to develop specific policy for trade and export of agricultural products

Dr. Raja Ram Tripathi, Co-Chairman in his remark stated that the problem what we are discussing about is serious more than what we assume. He stated that he preferred farming by leaving aside his job and comfortable life with the main aim to make his farming profitable. Most of the MNCs are coming in agriculture sector but they are only working for their own benefit and not for farmers. The small farmers are trapped in debt after purchasing tractor and other big implements. He suggested that low cost technologies and instruments need to be developed to support small and marginal farmers in the country.

Dr. S. A. Patil, Chairman in his concluding remarks stated that there are more than 100 institutes under ICAR and have very good technologies that can be brought in a single book in all Indian languages so that each farmer can have easy access to it. He also suggested to link these ICAR Institutes with other institutes which are working for some agricultural related sector like IIT Roorkee working on water management, TERI on solar energy: for development of technologies and its dissemination to the farmers. Institutional linkages within and outside the country will be highly helpful for technology adoption as well as its dissemination.

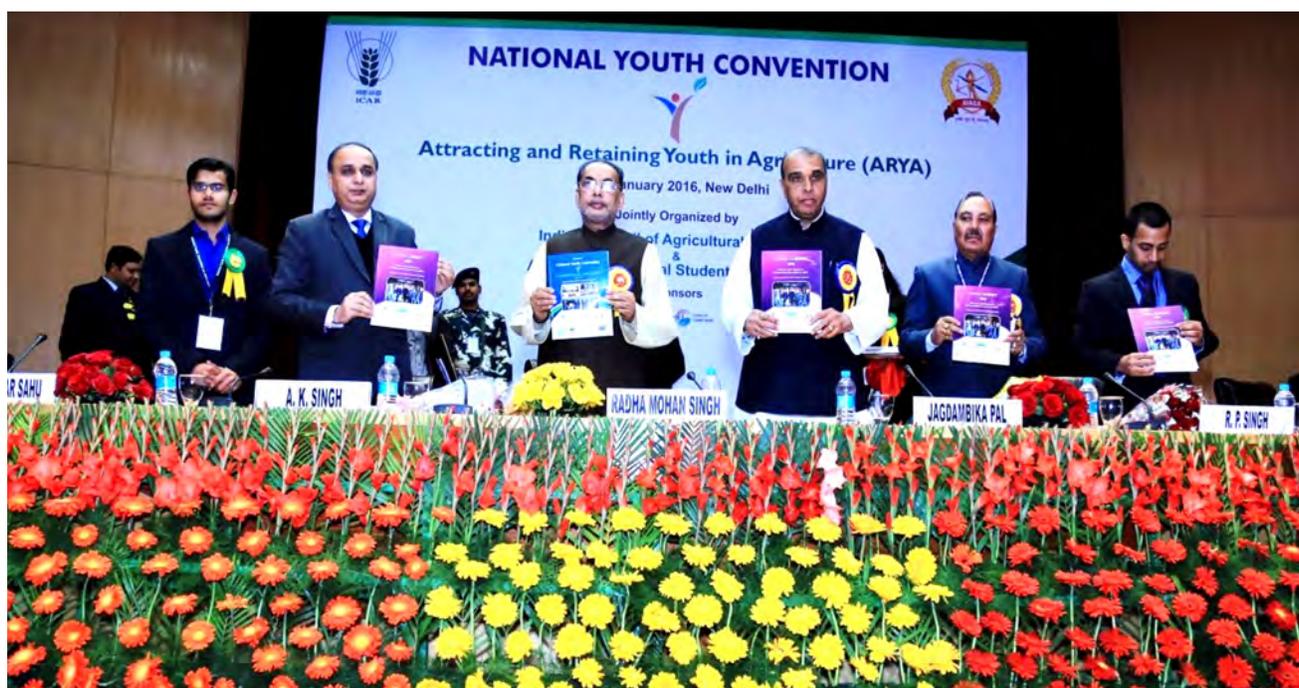
After detailed deliberations, the following observations and recommendations emerged are given as under:



1. AIASA and such organizations should be part of the various committees of governmental and non-governmental schemes as it has nation wise networking and linkages of youth in agriculture and allied fields.
2. There is need to establish the Entrepreneurship Incubator Cells at college and university level for guiding students towards entrepreneurship/agripreneurship with the involvement of VC's, Directors and Deans and invited experts and institutional linkages need to be established.
3. State Skill Missions needs to focus towards agriculture including marketing for improving rural livelihood.
4. Agriculture needs to be given professional status.
5. Need to convert liability (unemployment) in to asset (employment). Youth power needs to be modified towards job creator by utilizing govt programmes on start up and skill programme.
6. Agriculturist and policy makers need to think beyond agriculture production and emphasis need to be given on infrastructure development and professional man power strengthening in lab to land programme, input delivery system, agriculture marketing, trade, certification. Now a day's only input sectors like seeds, planting material, implements are encouraged. Therefore, other sectors also needs due attention.
7. All the technologies should be compiled in one book in all the languages.
8. Farmer's knowledge needs to be documented and published.
9. There is an urgent need of enhanced investment in the farm sector.

Felicitation, Awards and Oath taking Ceremony

Chief Guest	:	Sh. Radha Mohan Singh, Hon'ble Union Minister of Agriculture and Farmers Welfare
Guest of Honour	:	Sh. Jagdambika Pal, Hon'ble Member of Parliament
Dignitaries on dais	:	Dr. A.K. Singh, DDG (Agril. Extn.), ICAR Dr. R.P. Singh, Patron AIASA Mr. Sudhir Kumar, National President AIASA Mr. Kuleshwar Prasad Sahu, Chief Coordinator AIASA



The Felicitation and Awards & Oath Taking Ceremony Session was chaired by Shri. Radha Mohan Singh, Hon'ble Union Minister of Agriculture & Farmers Welfare and Other dignitaries present on the dais were Shri. Dagdambika Pal, Hon'ble MP and Patron, AIASA, Dr. R.P. Singh, Executive Secretary, IAUA & Patron AIASA, Dr. A.K. Singh, DDG (Agriculture Extension), ICAR, Mr. Sudhir Kumar, National President, AIASA and Mr. Kuleshwar Prasad Sahu, Chief Coordinator, AIASA.

Dr. A.K. Singh, DDG (Agriculture Extension) ICAR and Chairman, Organizing Committee delivered welcome address. He welcomed Hon'ble Union Minister of Agriculture & Farmers Welfare and other dignitaries on the dais and participants from various organizations, farmers, students,



representatives of industry and press & media. He briefly explained about the initiatives taken by ICAR for youth involvement in developmental activities through skill development. He stated that new Scheme on ARYA initiated by ICAR will be implemented through KVKs with the participation of farm youth.

Mr. Sudhir Kumar, National President, AIASA in his speech said that this particular occasion is a historical moment, as it is the first time when ICAR and Agriculture Students (AIASA) are jointly organizing a convention at the national level and it is an indication that together we can work better for prosperity of farming community. Government and the agriculture ministry have done a lot and have taken many new initiatives (Mera Gaun Mera Gaurav, Pradhanmantri Sichain Yojna, Soil Health Card etc.) for the benefit of farmers and the agriculture. But, still a lot need to be done for up bringing the farmers from a situation of debt to credit. We need to impart more professionalism to agriculture to make it more attractive and lucrative so that the youths can be retained in the farming sector. He also advocated for the techno-administrative reforms in agriculture through proper policy formulation by establishing a separate cadre in the form of "Indian Agriculture Service" on the pattern of IAS, IPS, IFS etc. Since independence different committees have recommended to create Indian Agriculture Service and even it has been passed in Rajya Sabha twice with two third majority. Therefore, the formation of a separate cadre will help to appoint right person at the right place which will ultimately bring a smile on the face of poor farmers. He said that the current strength of registered members in AIASA is 40000, which will be raised to 2 lakhs within 2 years. He said that the AIASA has been working for the empowerment of youth in agriculture by organizing seminars at different agricultural universities and raising their issues which we would continue to do so even in the future.

Shri. Jagdambika Pal, Hon'ble MP stated that government has been very keen for the development of agriculture in the country and has taken many initiatives for the same. A growth of 7% in the last quarter is really appreciable and the credit goes to farmers, scientists and the government. India used to contribute one third of the total food production of the world before 1835. But, now we are not that efficient in total production, the reason for which need to be analyzed seriously. Today USA and many other countries are far ahead than India in many areas of agriculture, even though they are poor in natural resources availability. India is an agriculture based country and therefore the service for India is the service to the rural India. In India, the controlling forces in agriculture at the upper levels are non-agriculturists, which can never give a required professionalism to the farming sector and the needed service to the farmers. Therefore, on the pattern of United States Department of Agriculture USDA, there should be an independent cadre in agriculture in the form of "Indian Agriculture Service". The agriculture professionals are super-specialized in their field and it should not become a disqualification for them due to policy constraints on the part of government. He said that to have a proper implementation of all beneficial schemes and proper utilization of resources, first of all the agriculture subject must be kept in "Concurrent list" rather than state subject.

Dr. R.P. Singh, Patron AIASA administered oath of office to newly appointed AIASA Cabinet 2016 represented from all the SAUs, CAUs, and DUs.



Shri. Radha Mohan Singh, Hon'ble Minister and Chief Guest of the Convention presented 27 awards and released two publications. The details of the awards and publications are presented in following pages. After awards & oath taking ceremony, Hon'ble Minister addressed the gathering on the occasion. He stated that India is the youngest country and therefore there is a need to give a proper direction to youth by imparting skill development. To make our country prosperous, we need to strengthen research and education, which will make our farmers more capable to face the upcoming challenges. He emphasized upon extending Start Up India to farm sector by replicating the success stories of enterprises in honey production, fisheries, dairying etc. He also stressed upon promoting agri business to attract young farmers by promoting formation of farmer producer organizations, for which capacity building and financial assistance will be provided by the centre. Observing that the government is facing the challenge of two consecutive drought years after 50 years, the Minister said, "We can not stop natural calamities, we can only reduce its impact on agriculture. We have taken timely contingency measures and I am confident there will not be any major impact on our agricultural production this year." Sowing of rabi (winter) crops like wheat is down by 3 per cent so far. However, the clear picture would be known by end of this week, he added. Stating that retaining youth in agriculture has been a priority of the government, Minister said with the government focusing more on promoting new farm technologies, more educated youth are showing interest in taking up farming. "In Bihar, I met graduates from IIT Roorkee taking up 50 acres of land for farming. Unless new technologies and science is not percolated at ground level, no youth will be attracted to agriculture," he said. Asserting that the farm sector can grow only if youth are retained in agriculture, Minister said that the government therefore, is setting up more universities to promote farm education and research in the country. Also, the schemes are designed in such a way that it attracts youth in the agriculture sector. He said that the Centre has so far released around Rs 12,000 crore to eight states to tackle drought situation this year, which will reduce impact of poor rains on farm production. The country witnessed back-to-back droughts due to deficit rains for the second straight year. Total 10 states have been declared drought in half of the country. The Minister said "The previous government had released Rs 13,762 crore in four years (2010-14). Our government has allocated Rs 9,000 crore drought relief for the 2014-15 and about Rs 12,000 crore so far this year." Hon'ble Minister also emphasized on connecting the agricultural markets (mandis) online across the country, so that farmers can get genuine price of their products. He said that government has made B.Sc. agriculture a mandatory qualification for the sale of agricultural inputs, which will further enhance the job opportunities for agricultural graduates. Speaking upon the need of a separate cadre in the form of "Indian Agriculture Service" he said that the proposed service is required and he will take initiatives to convince the government for the same. He assured the students and the agricultural professionals that government will go to any extent for retaining youth in agriculture and for the upliftment of the farmers.

Mr. Kuleshwar Prasad Sahu, Chief Coordinator, AIASA & Secretary, Organizing Committee offered a vote of thanks on behalf of the organizing committee.

After detailed deliberations and discussions with the participants, the following observations and recommendations emerged:

1. There is need to do agriculture as a commercial venture, not as a source of livelihood only, in that way, youths can be attracted and retained in agriculture.



2. Urgent need to make agriculture more lucrative and attractive through commercialization of agriculture and as a business sector. This can be achieved through framing of new policies in respect to techno-administrative reforms.
3. Need a separate Agriculture Cadre as Indian Agricultural Services to appoint right person at right place. This will help to exploit the potential of agricultural experts for development of the agrarian country (India) and farmer's welfare.
4. None of the Committees or Commissions constituted by the Government of India ever objected about the formation of Indian Agricultural Services. However, at the same time, all the committees strongly recommended for a separate Indian Agricultural Services such as Nalagarh Committee(1958), National Agriculture Commission(1976), Sarkaria Commission on Centre and State Relations, Central 5th Pay Commission and even Rajya Sabha passed resolutions twice in 1965 and 1971 by two third majority for creation of all India Cadre of Indian Agriculture Service.
5. Agriculture should be included in the concurrent list of the Indian Constitution as per recommendation given by National Farmers Commission.
6. India is known as the Youths Country in the world. There is need to establish a separate entrepreneurship development facilities at each KVKs. Strong linkages between KVKs and AIASA need to be established for effective coordination and involvement of youth in agriculture development.
7. Needs to make farmer prosper and fruitful education through short term skill development training.
8. Agricultural economy is growing with a slow pace and farmers are getting low returns. So, there is need to bring necessary reforms in marketing sector through marketing reforms and eradication of middleman. *EMandi* is a one of prospective and visionary programme in this direction.

Sh. Radha Mohan Singh, Hon'ble Minister of Agriculture and Farmer Welfare conferred 27 National level Awards. The jury and the AIASA identified the eminent persons for various awards. These persons have played a pivotal role in the field of Indian agriculture and youth empowerment. The details are given as under:

I. Life Time Achievement Award 2015



Dr. S. Ayyappan, Secretary, DARE & DG, ICAR conferred Life Time Achievement Award 2015 which was received on behalf by Dr. A. K. Singh, DDG (Agril. Extension), ICAR

II. Harit Ratna Award 2015



Dr. Arvind Kumar, VC, RLBCAU, Jhansi



Dr. C.J. Dangaria, VC, NAU, Gujarat

Dr. K. M. Bujarbaruah, Hon'ble Vice Chancellor, Assam Agricultural University, Jorhat (Assam) was conferred Harit Ratna award 2015 in *absentia*.

III. Best Vice- Chancellor Award 2015



Prof. Vijay Singh Tomar, Vice Chancellor, JNKVV, Jabalpur

IV. Krishi Jeevan Jyoti Award 2015



Sudhir Kumar, National President, AIASA



Dr. Mahesh C. Yadav, Pr. Scientist, NBPGR, New Delhi



V. Student of the Year Award 2015



Bhairab Gogoi, AAU-Jorhat, Assam



Neeraj Kumar, BAU-Sabour, Bihar



R. Paramasivam, TNAU Coimbatore Tamil Nadu



Ajay Verma, Scientist, ICAR



Vagadia P.S., NAU- Navsari Gujrat

Mr. Asish Kumar Padhy, Scholar, Punjab Agricultural University, Ludhiana, Punjab received Student of the year award 2015 (In absentia). Mr. Prakash Kumar Jha, Ph.D. Scholar, Michigan State University, USA received Student of the year award 2015 (In absentia)

VI. AIASA Gold Medal 2015



Dr. Murari Lal Gaur, Dean, AAU, Anand



Dr. S.K. Singh, Dy. Director, UP



Dr. V.K. Kurnalliker, UAS- Raichur



Vicky Rathee, JNKVV-Jabalpur, MP



Sonica Priyadarshini, IASRI



Nishidha C.T., KAU-Trishur, Kerala



Sapna Thakur, Dr. YSPUHF, Solan, HP

VII. Pragati Puraskar 2015- Best Farmer Award



Manoj Kumar, Progressive farmer, Muzaffarnagar, UP

VIII. Harit Puraskar 2015



B.K. Yadav, MD-UPCSFFL-Lucknow



Kundan K. Singh, Dy. Chairman, ABM



Nikhil Kumar, BAU-Bhagalpur, Bihar

IX. Certificate of Excellence Award 2015



UAS, Raichur



Bioved Res. Inst for Agri & Tech-Allahabad



M.D.H.P. Ltd, Bastar



R.R. Institute, Lucknow



Dr. Punjabrao Deshmukh Agriculture University Competitive Forum

Two Publications were also released by Hon'ble Minister of Agriculture and Farmer Welfare -

1. **Souvenir of the National Youth Convention on ARYA.** 2016. (Eds. M.K. Verma,, M.C. Yadav, S. Kumar, S. Singh, P. Adhiguru, K.P. Sahu, Nishad Jyoti., S. Jha, O.W. Singh, L. Maitry, P. Singh, Himanshu). Published by ICAR and AIASA. Pages 1-127.
2. **AIASA Cabinet-2016.** (Eds. Sudhir Kumar, J. Nishad, M.C. Yadav, S. Singh, M.K. Verma, S. Priyadarshini, P.C. Pradhan, K.P. Sahu, P. Singh, P. Vagadia, R.P. Singh, U. Kumari, A.K. Gaurav, P. Singham, A.K. Mathur, K. Saha). Published by All India Agricultural Students Association. Pages 1-96.

Technical Session - III

Techno-Administrative Reforms in Agriculture

Chairman	:	Dr. R.B. Singh, Immediate Past President, NAAS
Co-Chair	:	Dr. P.K. Joshi, Director, IFPRI South Asia Office, New Delhi
Convener	:	Dr. U.S. Gautam, Director, ATARI, Kanpur Dr. Mahesh Yadav, Principal Scientist, ICAR-NBPGR
Speaker	:	Dr. Sahadeva Singh, Chief Policy Adviser, AIASA
Panelists	:	Dr. V.K. Bahuguna, Former DG-ICFRE Dr. J.C. Katyal, Former VC, HAU-Hisar Dr. S.K. Singh, Department of Agriculture, Uttar Pradesh Dr. Sandeep Kumar, Scientist & Founder President, AIASA Mr. Amol Bhalerao, Scientist, ICAR
Rapporteurs	:	Dr. M.K. Verma, Principal Scientist, IARI Ms. Sapna Thakur, AIASA





Chairman of the Session invited Dr. Sahadeva Singh for introduction of the topic and thereafter all the five panelists were invited one by one for presentation and discussion was held after each presentation.

Dr. Sahadeva Singh made brief presentation on the topic and stated that techno administrative reforms in agriculture was discussed and deliberated first time during All India Convention on Techno Administrative Reforms held on 10th May, 2011 at New Delhi and it was recommended in that convention for carrying out reforms in agricultural administrative set up by creation of All India Cadre of Indian Agriculture Service, granting professional status to agriculture at par with other professions, strengthening infrastructure in agricultural education set up, improvement in input delivery mechanism marketing and strengthening linkages. He stated that various Government appointed Committees and Commissions such Nalagarh Committee (1958), National Commission on Agriculture (1976), Sarkaria Commission on Centre State Relations (1988), Central 5th Pay Commission and 6th Pay Commission have given recommendation for creation of Indian Agriculture Service and Rajya Sabha also passed resolutions twice during 1965 and 1971 by two third majority for creation of All India Cadre of Indian Agriculture Service. He stated that agriculture is placed under general central services and about 75 percent personnel at top level in policy & planning and development in agriculture ministry/departments in centre and states are recruited from other cadre services on deputation/tenure basis among the central pool/state pool of officers. Dr. Singh proposed a cadre of Indian Agriculture Service by having specialized service personnel of 43000. The other issues highlighted by him was establishing Agriculture Council of India for giving license to agricultural graduates for entrepreneurship development.

Dr. S.K. Singh, Deputy Director, UP stressed the need for appointment of right person at right place and giving professional status to agriculture and creation of all India specialized Cadre of Indian Agriculture Service. He also emphasized for giving right education based on the skill development and as per requirement of farmers needs and youth must be directly connected with farmers to understand the issues and to resolve them in the interest of agriculture profession.

Dr. Sandeep Kumar, founder National President of AIASA assured the house that AIASA will continue to motivate youth and will build up strong networking of youth and farmers for resolving the issues faced by farming communities. He stated that professional status must be given to agriculture and Agriculture Council of India should be established to give license to agriculture graduates for entrepreneurship development. Dr. Sandeep Kumar stated that creation of all India Cadre of Indian Agriculture Service as a professional cadre service will be helpful for giving opportunity to youth to serve agriculture rather than going to other professions in India and abroad and the talents will be attracted towards agriculture. He also laid emphasis for skill development for youth including drop out students and introduction of agriculture course at higher secondary level in all the higher secondary boards to develop the interest in youth towards agriculture.

Dr. V.K. Bahuguna stated that technology and knowledge are not in the reach of farmers. There is lack of coordination between centre and states in implementation of development programmes. To bridge the knowledge gap and to keep the interest of farmers at central point, it may be necessary to establish dedicated cadre of Indian Agriculture Service.

Mr. Amol K. Bhalerao, called upon youth to work for knowledge transfer to farmers and advocated strong linkages between agriculture students, scientists and farmers for resolving the issues faced by farming communities. He stated that the creation of Indian Agriculture Service could restore the prestige and honour in farm youth and will be helpful for retaining talents in agriculture. He also emphasized that due importance and recognition must be given to meritorious students, scientists, teachers who are committed themselves for betterment of agriculture education and research & extension in the overall interest of agriculture.

Dr. P.K. Joshi, Co-Chairman of the session in his concluding remarks stated that students and scientists need to work for knowledge transfer to farming communities for food security in the country.

Dr. R.B. Singh, Chairman in his concluding remark which started with quote of the Secretary General of United Nations "youth deserve our full commitment, full access to education, adequate health care, important opportunities and full participation in public life, youth must have the leadership to navigate the nation, to navigate the humanity, to the help of the best known science for the next level of development." He stated that all youth, students, scientists must serve the farmers directly or indirectly. Youth is our highest capital and our nation has to harness this potential. He further stated that agriculture must be seen as comprehensive section of the society. Agriculture is known as agri food system throughout the world. He stated that he would like to give a new definition to agriculture, agriculture for human capital build up, for new economic growth, for human health, for trade economy make agriculture a comprehensive subject, so that we are not becoming so myopic in our approach, we are more open and inclusive in the process. Generate leadership in agriculture to navigate the changing order. India has the 1/3 youth of the world, which is directly connected to the agriculture, nowhere in the world. The techno administrative reforms in agriculture is a broader term which covers reforms in our education, administration, institutions and many other aspects but not restricted to creation of Indian Agriculture Service. The food security must be the central theme of techno administrative reforms.

After detailed deliberations, the following observations and recommendations emerged:

1. Techno Administrative reforms in agriculture in central and states are required.
2. There is strong need of specialized agriculture cadre services on All India basis covering all the specialized disciplines such as Veterinary Science, Agricultural Science, Fisheries, Agriculture Engineering, Horticulture, Sericulture etc.
3. Establishment of Regulatory Mechanism of Agriculture Research and Education in the country by covering all the institutions in the country including private Universities, colleges etc.
4. Implementation of agriculture development programmes by appointment of right person at right place.
5. Establishing Centre and State Agriculture Council as regulatory body for giving accreditation to agriculture education and for granting license to Agriculture degree holders by considering agriculture and allied degrees as professional degrees at par with graduate degree in Medical and Veterinary Science for empowering agriculture youth for their involvement in entrepreneurship development.



6. Effective regulatory mechanism for supply of quality agricultural inputs to farmers at a reasonable and affordable price with performance guarantee/warranty of inputs and promotion of organic inputs' production at farm/village/cluster level.
7. Separate budget for agriculture is required for comprehensive development and implementation.
8. Minimum support price for agriculture produce may be made Profitable Price.
9. Creation of Grievances Redress Mechanism for Agriculturists including farmers.
10. About 50 percent of teaching/research positions are vacant in SAUs/CAUs/DUs and in State/Central Departments of agriculture which need to be filled up urgently.
11. School/colleges drop out students need to be given vocational trainings by giving them diploma/certificates to enhance their skills, capacity and confidence to work in rural areas for various agricultural advisory jobs and also to take up post harvest technology and value addition as entrepreneur.
12. Farm Extension Services of relevant specialization be established as part of all India Cadre of Indian Agriculture Service.
13. Students from Rural areas from farming families need be given weightage of 10% for higher education in agriculture at college level/University level admission for obtaining quality education.
14. Agriculture should be included in the concurrent list of the Indian Constitution as recommended by National Farmers Commission.
15. Investment in youth development programmes is required by involving AIASA.
16. Media involvement in positive way to make agriculture more lucrative.
17. Agricultural food system should be developed in such a way that it builds human capital, new economic growth, human health and brings economy based agriculture.

Technical Session - IV

Innovations in Agricultural Research and Education for Agripreneurship Development

Chairman	:	Dr. Ashwani Kumar, DG, ICFRE
Co-Chair	:	Dr. A.S. Nanda, VC- GADVASU, Ludhiana
Convener	:	Dr. S. Maurya, Principal Scientist, IP&TM Unit, ICAR Dr. Premlata Singh, Head, Division of Agril. Extn., IARI
Panellists	:	Prof. Om Gupta, Dean, JNKVV, Jabalpur Dr. R. Vinoth, AIASA, TNAU
Rapporteurs	:	Dr. M.K. Verma, Principal Scientist, IARI Ms. Sapna Thakur, AIASA



After brief introductory remarks of the Chairman, the session started. Professor (Dr.) Om Gupta highlighted the role of sustainable agriculture in success story of agriculture to fulfill the needs of future. The production and protection technologies and government support are very important in increasing yield and productivity of crops. Sudden change in climate which is a major factor in failure of any crop can be taken care of by developing competence and skill. Also use of resistant varieties,



intercropping and relay cropping, organic farming can boost productivity in agriculture sector. Bio intensive nutrition based locationspecific IDM/IPM, module for crops to improve economic, social and health status of concerned farmers are required to maintain a balance in agriculture.

Dr. R. Vinoth, Research Scholar talked about development of Agri-entrepreneurship in India and importance of it in national economy. There are many challenges which have been faced by Agripreneurs viz. lack of funds, infrastructure, and risks associated with farming, marketing problem and competition. And these challenges are taking out the interest of youths from agribusiness. He stated that strong strategies must be developed to support farmers and make the situation favourable for Agri-entrepreneurship.

Dr. Nanda Co-Chairman of the Session discussed about innovations in agricultural research and education for Agripreneurship development. What should national agriculture research centres do to promote entrepreneurship? He focused on skill development, reorientation of research and education system, innovation in education system, facilitation between developed and developing entrepreneurs, promoting group entrepreneurship and post training support in order to improve business strategies in sector of agriculture. Also by starting mandatory short, medium and advance courses at graduation and post-graduation level can helps in attracting youth into agribusiness. NARS, CRPs, externally funded programme and policy research in favour of entrepreneurship could prove as useful tools to promote entrepreneurship in agriculture.

Chairman, Dr. Ashwani Kumar summarized the session by emphasizing need of innovation in agriculture research and agripreneurship. Problem faced by agriculture sector pertains to land degradation, climate change, spoilage of water bodies which are major concerns as it could lead to a severe gap between demand and supply of consumers in future. Therefore more alternatives should be explored. Biotechnology, information technology, remote sensing and nano technology are powerful novel sciences which can make quantum increase in the production and productivity and to bring revolution in short period of time. He quoted that "Technique should be converted to technology" and thereby we can together save our nation's identity. He stated that a balance must be kept between institutions and cadre services for better growth and development. He stated that forest department has Indian Forest Services but the institution of ICFRE does not have financial and administrative powers as ICAR. In reverse, ICAR has more autonomy in financial and administrative powers but agriculture ministry does not have cadre services for their personnel. Such balance needs to be maintained for transformation of knowledge to farmers.

After detailed deliberations, the following observations and recommendations emerged:

1. Farmers must be made aware about the enterprises available in the field of agriculture. Youth must be involved for providing awareness campaign among the farming communities.
2. This is need for research on entrepreneurship and its different facets.
3. Innovations are needed in agricultural research and education for agripreneurship development.
4. Reorientation of research and education programmes and agricultural Courses need to be made in corporation of agriculture as a course in the curriculum at higher secondary level by all the Central and State Boards may strengthen the agriculture sector.



5. National Agricultural Research System should work on important areas involving farmers and organizations.
6. Some pilot projects on frontier areas of agriculture research need to be conducted.
7. In service training/ refreshing courses must be conducted for teachers/lecturers for up gradation of skill.
8. Strong industry linkages for internship needs to be developed.
9. Shortage of technical human resource in live stock sector needs to be overcome.
10. Focus on new technologies in agriculture like biotechnology, bioinformatics, etc.
11. It was emphasized for creation of Indian Agriculture Service at par with Indian Forest Service and giving equal status to Indian Council of Forestry Research and Education ICFRE at par with ICAR for overall interest of agriculture and forestry.

Valedictory Session

Chairman : Dr. A.K. Singh, DDG (Agril. Extn.), ICAR
Guest of Honour : Dr. Raja Ram Tripathi, Chairman, CHAMF
Dignitaries on dais : Mr. Sudhir Kumar, National President, AIASA
Dr. R.P. Singh, Patron, AIASA
Dr. Sahadev Singh, Chief Policy Advisor, AIASA
Dr. P. Adhiguru, Principal Scientist, ICAR
Mr. Kuleshwar Prasad Sahu, Chief Coordinator, AIASA



Mr. Sudhir Kumar, National President, AIASA welcomed all the dignitaries on the dais. He stated that there is unanimity among the all stake holders in the convention for creation of Indian Agriculture Service and granting professional status to agriculture. Professor (Dr.) R.P. Singh advocated that National Agriculture Service must be created in the interest of agriculture communities and emphasis must be given for appointment of right person at right place. He also stated for reforms in techno administrative set up to fill up the gap of knowledge based technology to the farmers and emphasized that agriculture courses must be included at higher secondary in the curricula of courses

governed by all the state boards of higher secondary. Dr. Raja Ram Tripathi supported for creation of Indian Agriculture Service in the interest of agriculture communities. Dr. A.K. Singh, Chairman summarized the issues raised during the convention. The convention programme was based on four thematic issues i.e., i) ICAR and DAC initiatives for youth in agriculture; ii) Agripreneurship Development through Institutional Linkages; iii) Techno-Administrative Reforms in Agriculture and iv) Innovations in Agricultural Research and Education for Agripreneurship Development. There were eighteen technical papers of which three could not be presented due to absence of the panellists. During the whole day of deliberations, the main emphasis was on issues like youth empowerment in the country and the need for appropriate methodologies to be adopted. Involvement of AIASA and other such organization in implementation of government schemes/programmes and representation in all policy making body. Besides, the need for taking up steps for creation of All India Agriculture Services was discussed at length. It was repeatedly pointed out for creation of a separate cadre based All India Agriculture Services, with robust and transparent methodologies. Experts also felt that the youth can only be attracted if the agricultural services are more lucrative and respectful. This is only possible through inclusion of agriculture in the concurrent list of constitution, provision for separate budget for agriculture, entrepreneurship development and formulation of ways and means for creation of separate agricultural services. There was unanimity in the house for immediate creation of all India cadre of Indian Agriculture Service. At the end of the session, Mr Kuleshwar Sahu, Organizing Secretary gave vote of thanks to participants.



Annexure-I

Address of Hon'ble Union Minister of Agriculture & Farmers Welfare

Shri Jagdambika Pal, MP (Lok Sabha); Dr. A.K. Singh, DDG (Agril. Extn.), Dr. R.P. Singh, Patron AIASA; Mr. Sudhir Kumar, National President, AIASA and persons sitting on the dais and in the hall; representatives from different organizations including public, private and NGOs, ladies and gentlemen, representative of Press and Media.

At the outset I am overwhelmed to see the entire galaxy of stakeholders concerning the theme of the seminar, assembled here. I am particularly referring to the large number of youths of agriculture faculty representing different ICAR Institutes, Central and State Agriculture Universities participating in seminar.

Youth plays vital role in meaningfully transforming agriculture in India. According to national youth policy, youth in the age group of 15-35 are defined as young. The youth population is estimated to be 57 crores by 2016. At present, 35 % of the total population is in in the age group of 15-35 years, out of which 75 % live in rural areas.

Large numbers of people, mostly young are moving away from rural areas to urban centres because there are fewer employment opportunities back home. The migration of rural youth to cities is alarming, which has several implications for the future of Indian agriculture.

In order to create interest and confidence among rural youth in agriculture, there is a need to make agriculture more profitable. Retaining youth in agriculture and making agriculture more profitable are thus, big challenges.

Realizing the importance of rural youth in agricultural development especially from the point of view of food security of the country, a on "Attracting and Retaining Youth in Agriculture" has been initiated by ICAR.

The project shall be implemented in 25 districts (one district from each state) through the KVKs of those districts with technical partners from Institutes of the Indian Council of Agricultural Research (ICAR), the Agricultural Universities and others. Each KVK shall involve about 200 youths having less than 35 years of age.

Besides developing entrepreneurship capabilities, the youth shall be trained on the essential skills as per the requirement of selected enterprises and entrepreneurial units shall be established at their location within the selected district.

Government of India has made B.Sc. Agriculture as mandatory qualification requirement to get license for sale of agriculture inputs like seeds, fertilizers and pesticides. This will create several thousand jobs for agriculture graduates in the country.

The Ministry of Agriculture and Farmers Welfare, Government of India, in association with NABARD is implementing Agri-Clinics and Agri-Business Centres (ACABC) Scheme, a unique programme to take better methods of farming to each and every farmer across the country and create employment opportunity for agricultural graduates.

Skill development and entrepreneurship efforts across the country have been highly fragmented so far. As opposed to developed countries, where the percentage of skilled workforce is between 60% and 90% of the total workforce, India records a low 5% of workforce (20-24 years) with formal vocational skills.

Recognizing the need and urgency of coordinating the efforts of all concerned stakeholders in the field of Skill Development and Entrepreneurship, Skill India was launched by the Government. A new ministry (Ministry of Skill Development and Entrepreneurship) was formed for the first time and National Skill Development Corporation India (NSDC) was setup as a Public Private Partnership Company with the primary mandate of catalyzing the skills landscape in India.

Start-up India, Stand-up India initiative of the Government of India will boost entrepreneurship among the youth; create new job opportunities and help set up a network of start-ups in the country. About 35 new incubators in institutions will be initiated with a maximum of Rs. 10 crores financial support to be given by central government to new incubators. Atal Innovation Mission will be launched for entrepreneurship promotion.

Startup India has created impact in the non-farm sectors as many entrepreneurs started vibrant enterprise. There is success stories emerging in farm sector in enterprises like honey production, dairy and fisheries in states like Andhra Pradesh, Punjab and Haryana. However, these farmers are crorepatris involving in agri-businesses. We need to replicate the successful experiences in other states, for less endowed farmers and youths which needs considerable efforts for skilling and other entrepreneurial support.

To promote agri-business and attracting youth farmers therein, government of India is promoting formation of Farmers Producing Organizations (FPOs) and capacity building and financial assistance are provided.

Digital India is an initiative to integrate the government departments and connect the people of India directly with all the departments to address the issues in a better way. It aims at ensuring that the government services are made available to citizens electronically by reducing paperwork and a lot of time. We need to involve youth in digital India also so that they play the role of change agents by sharing agricultural knowledge and agripreneurial experience sharing among other farmers.

This will give the rural youth more opportunities to interact with people from different walks of life and evolve better as an individual. Digital India will empower youth to know the government and its various departments better and to analyze the loops and strength unguided by political issues.

Generally youth are willing to adopt new ideas and technologies and therefore agricultural extension need to focus on youth to transform agriculture. The youth could be the ideal catalyst to change the poor image of persons involved in agriculture, especially in the rural communities given their



greater possibility to adapt new ideas, concept and technology which are all important to changing the way agriculture is practiced and perceived. Improving their capacities and increasing their involvement will also help in changing the negative perception about farming.

On the event of crops losses due to natural calamities / disasters, climatic factors, abiotic and biotic stress, the farmers' interest has been protected by making drastic amendments in Crop Insurance Scheme by Government of India. The insurance cover has been extended for the losses from crop sowing to post-harvest, losses will be evaluated on the basis of photographs sent by farmer and remote sensing. Farmers are supported with affordable premium for subscribing to crop insurance.

The initiative taken by ICAR and AIASA in organizing this seminar today on "National Youth Convention on Attracting and Retaining Youths in Agriculture (ARYA)" is commendable. I am sure, that the intellectuals who are sitting here including learned youths and farmers who will be deliberating throughout the day will be useful for developing future strategy for rejuvenating agriculture in India through greater involvement and meaningful contribution of youth.

Jai Hind



Annexure-II

Programme
**National Youth Convention on Attracting
and Retaining Youth in Agriculture**

27th January, 2016 at National Agricultural Science Centre, NASC Complex, DPS Marg, New Delhi

Jointly organized by

Indian Council of Agricultural Research (ICAR) &
All India Agricultural Students Association (AIASA)

08:30-09:30 Registration

Inaugural Session: 09:30 to 11:10 Hrs

09:30-09:35	Welcome Address: Dr. A.K. Singh, DDG (Agril. Extn.)
09:35-09:45	Remarks: Mr. Sudhir Kumar, National President, AIASA
09:45-09:55	Guest of Honour Dr. Ashwani Kumar, DG, ICFRE
09:55-10:05	Address by Chief Guest: Address: Dr. S. Ayyappan, Secretary, DARE & DG-ICAR
10:05-10:10	Vote of Thanks: Mr. Ranvijay Pratap Singh, National Secretary, AIASA
10:10-10:40	Tea Break

Technical Session-I: 10:40 to 11:30 Hrs

Theme:	ICAR and DAC initiatives for youth in agriculture
Chair:	Dr. K. Narayna Gowda, Former Vice-Chancellor, UAS, Bengaluru
Convener:	Dr. P.S. Pandey, ADG (EP&HS), ICAR Dr. P. Adhiguru, Principal Scientist (Agril. Extn.), ICAR

Presentation by Lead Speakers

Dr. A.K. Singh, DDG (Agril. Extn.)
Dr. Narendra Singh Rathore, DDG (Edn.)
Dr. P. Chandrashekhara, Director (Agril. Extn.), MANAGE
Dr. Ajay Verma, Scientist, NAARM

Technical Session-II: 11:30 to 12:30 Hrs

Theme:	Agripreneurship Development through Institutional & Industrial Linkages
Chair:	Dr. S.A. Patil, Former Director, IARI & VC, UAS Dharwad



Co-Chairs: Dr. Raja Ram Tripathi, Chairman-Central Herbal Agro Marketing Federation of India (CHAMF)

Convener: Dr. V.P. Chahal, ADG (Agril. Extn.),
Dr. Rajbir Singh, Director, ATARI, Ludhiana

Presentation by Lead Speakers

Dr. J.P. Sharma, Joint Director (Extension), IARI
Dr. B.B. Singh, Tata Chemicals
Mr. Satendra Singh Arya, CEO ASCI
Mr. Neeraj Kumar, BAU, Sabour

12:30 to 13:30 Hrs

Felicitation and awards & oath taking ceremony: Chaired by Hon'ble Union Minister of Agriculture & Famer Welfare, Government of India

Chief Guest : Sh. Radha Mohan Singh, Hon'ble Union Agriculture Minister
Guest of Honour : Sh. Jagdambika Pal, Hon'ble Member of Parliament
Dignitaries on dais : Dr. A.K. Singh, DDG (Agril. Extn.), ICAR
Dr. R.P. Singh, Patron AIASA
Mr. Sudhir Kumar, National President, AIASA
Mr. Kuleshwar Prasad Sahu, Chief Coordinator, AIASA

Oath Taking Ceremony of the AIASA Cabinet by Patron AIASA

Awards distribution by Hon'ble Union Agriculture Minister

Release of Souvenir and AIASA Cabinet 2016 by Hon'ble Union Minister of Agriculture & Farmers Welfare, Govt. of India

13:30-14.15 Lunch break

Technical Session-III: 14.15 to 15:15 Hrs

Theme: Techno-Administrative Reforms in Agriculture (Indian Agriculture Service)

Chair: Dr. R.B. Singh, Immediate Past President, NAAS

Co-Chairs: Dr. P.K. Joshi, Director, IFPRI South Asia Office

Convener: Dr. Mahesh Yadav, Principal Scientist, ICAR-NBPGR
Dr. U.S. Gautam, Director, ATARI, Kanpur

Introduction of the subject: Dr. Sahadeva Singh, Chief Policy Adviser, AIASA

Presentation by Lead Speakers

Dr. V.K. Bahuguna, Former DG, ICFRE
Dr. S.K. Singh, Deputy Director, Govt. of UP



Dr. J.C. Katyal, Former VC, HAU-Hisar
Dr. Sandeep Kumar, Founder President, AIASA
Mr. Amol Bhalerao, Scientist & Dr. Biswajit Mondal, Scientist, IIPR Kanpur

Technical Session-IV: 15:15 to 16:15 Hrs

Theme: Innovations in Agricultural Research and Education for Agripreneurship Development

Chair: Dr. Ashwani Kumar, DG, ICFRE

Co-Chairs: Dr. A.S. Nanda, VC, GADVASU, Ludhiana

Convener: Dr. S. Maurya, Principal Scientist, IP&TM Unit, ICAR
Dr. Premlata Singh, Head, Division of Agril. Extn., IARI

Panellist's: Prof. (Dr.) Om Gupta, Dean, JNKVV, Jabalpur
Dr. R. Vinoth, Research Scholar-TNAU

16:15-16:45 Tea Break

Valedictory Function: 16:45 to 17:45 Hrs

16:45- 16:50 Welcome Address: Mr. Sudhir Kumar, National President, AIASA

16:50-16:55 Address: Dr. R.P. Singh, Patron, AIASA

16:55-17:00 Address: Dr. Raja Ram Tripathi, Progressive Farmer

17:00-17:10 Address: Dr. A.K. Singh, DDG (Agril. Extn.), ICAR

17:10-17:25 Distribution of mementos

17:25-17:30 Vote of Thanks: Mr. Kuleshwar Prasad Sahu, Chief Coordinator, AIASA

17:30-17:45 Photo Session

17:45-18:45 AGM of AIASA



Annexure-III

List of Participants

List of the Dignitaries Attended

1. Shri Radha Mohan Singh, Hon'ble Union Minister of Agriculture and Farmers Welfare
2. Shri Jagdambika Pal, Hon'ble Member of Parliament
3. Dr. S. Ayyappan, Secretary DARE & DG, ICAR, New Delhi
4. Dr. Ashwani Kumar, DG, ICFRE & Patron, AIASA
5. Dr. Gurbachan Singh, Chairman, ASRB & Honorary Chairman, AIASA
6. Dr. V.K. Bahuguna, Former DG, ICFRE
7. Dr. R.B. Singh, Former President, NAAS
8. Dr. A.K. Singh, DDG (Agril. Extn.)
9. Dr. Narendra Singh Rathore, DDG (Edu.)
10. Dr. Arvind Kumar, Hon'ble VC, RLBCAU, Jhansi
11. Professor(Dr.) Vijay Singh Tomar, Hon'ble VC, JNKVV
12. Dr. C.J. Dangaria, Hon'ble VC, NAU
13. Dr. A.S. Nanda, VC-GADVSU, Ludhiana
14. Dr. K. Narayana Gowda, Former VC, UAS, Bengaluru
15. Dr. S.A. Patil, Former Director IARI & VC, UAS, Dharwad
16. Dr. J.C. Katyal, Former VC, HAU, Hisar
17. Dr. B.V. Patil, Former Vice-Chancellor, UAS, Raichur
18. Dr. P.K. Joshi, Director, IFPRI South Asia Office
19. Dr. R.P. Singh, Executive Secretary, IAUA & Patron, AIASA
20. Dr. K.C. Bansal, Director, NBPGR
21. Dr. J.P. Sharma, Jt. Director (Extn.), IARI
22. Dr. V.P. Chahal, ADG (Agril. Extn.), ICAR
23. Dr. P.S. Pandey, ADG (EP & HS), ICAR
24. Dr. Sahadev Singh, Chief Policy Advisor, AIASA
25. Dr. Raja Ram Tripathi, Chairman, CHAMF, Chattisgarh
26. Dr. Rajbir Singh, Director, ATARI, Ludhiana



27. Dr. B.K. Yadav, MD, U.P. Sugar Factories Cooperative Ltd., Lucknow
28. Dr. M.L. Gaur, Dean & Principal, CAE-Godara, Gujarat
29. Dr. U.S. Gautam, ATARI, Kanpur
30. Dr. P. Adhiguru, Pr. Scientist (Agril. Extn.), ICAR
31. Prof. Om Gupta, Dean, JNKVV, Jabalpur
32. Dr. Premlata Singh, Head, Division of (Agril. Extn.), IARI
33. Dr. B.B. Singh, Tata Chemicals
34. Satyendra Singh Arya, CEO, ASCI
35. Dr. Suraj Bhan, Chairman, AIFAA
36. Prof. Vijay K. Yadav, CSAUAT, Kanpur
37. Dr. S. Mourya, Pr. Scientist, IP & TM UNIT, ICAR
38. Neeraj Kumar, BAU, Bihar
39. Dr. J.P. Singh, Secretary General, AIFAA
40. Dr. Pankaj, Principal Scientist, IARI
41. Dr. Harendra Sharma, Principal Scientist, IARI
42. Dr. D.N. Singh, Former Additional Commissioner
43. Dr. M.K. Verma, Principal Scientist, FHT, IARI
44. Dr. Mahesh C. Yadav, Principal Scientist, NBPGR
45. Dr. S.K. Singh, Deputy Director, UP Govt., Dept. of Agriculture
46. Dr. P. Chandrashekhara, Director (Agril. Extn.), MANAGE
47. Dr. B.L. Jangira, Former Director(Fin.) ICAR
48. Dr. S.K. Singh, Department of Agriculture, UP
49. Dr. R. Vinoth, AIASA, TNAU
50. Dr. Umesh Deshmukh, Asst. Prof. COA-Korea, Chattisgarh
51. Dr. Vijay Kumar, Asst. Prof., UAS, Raichur
52. Mr. Amol K. Bhalerao, Scientist, ATARI, Meghalaya
53. Dr. Sandeep Kumar, Asst. Prof., AICRP- Betelvine, OUAT, Bhubaneswar
54. Dr. Vivek Kumar, Head of Dept. RRIMT, Lucknow
55. Dr. S.N. Jadhav, Scientist ATIC, UAS, Dharwad
56. Dr. P. Rajinikanth, Asst. Prof., PJTSAU, Rajendranagar, HYD
57. Dr. K. Chaitnya, Dept. of Horticulture, COA, PJTSAU, Rajendranagar, HYD
58. Dr. B. Naveen Kumar, Research Scholar, PJTSAU Rajendranagar, HYD
59. Ms. G. Priyadarshini, Research Scholar, PJTSAU Rajendranagar, HYD
60. Ms. Afifa Jahan, College of Home Science, PJTSAU, Rajendranagar, HYD



61. Shri Karam Vir, Vice Chairman, Farmer Organization
62. Mr. Manoj Kumar, Progressive Farmer, Sukhartal, Muzaffarnagar (U.P.)
63. Mr. Rajeev Tomar, Progressive Farmer, Kisanpur Biral, Baghpat
64. Shri Basavaraja Virupakshaiah Huchhainavar, Progressive farmers, Chikkamaligawad, Dharwad
65. Shri Siddalingeswar Veerappa Kaliwal, Progressive farmers, Ibrahimpur, Shiggaon

List of the Farmers Attended

S. No.	Name	S. No.	Name
1.	Manoj Kumar	29.	Surrender Kat
2.	Sandeep Kumar	30.	B. Sai Sachin
3.	Monu Kumar	31.	S. Muniswami
4.	Gauri Shankar	32.	S. Venkanna
5.	Durgesh	33.	Pardeep Pradhan
6.	Ram Kumar	34.	Sant Ram
7.	Raman Lal	35.	Sunil Kumar
8.	Devendra	36.	Ragnath
9.	Devendra Kumar	37.	Sultan
10.	Lakhan	38.	Pakhil Jain
11.	Sanjay Kumar	39.	Tushar Jain
12.	Raju	40.	Rajender
13.	Deepak	41.	Kunal
14.	Deepak Kumar	42.	Arvind Kumar
15.	Manoj	43.	Devraj Singh
16.	Vivek	44.	Narvis
17.	Rahul	45.	Bobindra
18.	Pawan	46.	Ram Kumar
19.	Narsi	47.	Ranjeet Singh
20.	Kuldeep	48.	Chandra Pal
21.	Monu	49.	Nitesh Kumar
22.	Sanwar Mal	50.	Tej Singh
23.	Bharat Singh	51.	Om Dutt
24.	Pankaj Kumar	52.	Nitin Kumar
25.	Raipal	53.	Uttam Singh
26.	Shashi Bhushan	54.	Raja
27.	T.P. Choubey	55.	Sanjay Kumar
28.	Mukesh Yawa	56.	Abhilash



57.	L. Rosangluna	93.	Kurusar Timung
58.	Rajeev Tomar	94.	Myarthur Murry
59.	Rajeev Kumar	95.	Lungaingam
60.	Pramod Baliyan	96.	Balwan Singh
61.	Sanjeev	97.	Narendra
62.	Samrath Baliyan	98.	Devindra Kumar
63.	Mahesh Baliyan	99.	Pramod Kumar
64.	Vikash Kumar	100.	Ganesh Chandra
65.	Dharya	101.	Dharamlal
66.	Sonu Kumar	102.	A. Shah
67.	Vikash Kumar	103.	Baravarag
68.	Vodumon	104.	Siddharath Kaloval
69.	Devavrat Baliyan	105.	Kadeja
70.	Suchit Rathi	106.	Shambhu Singh
71.	Rahul Singh Chahal	107.	Marfwin
72.	Satyawan	108.	G. Ajay
73.	Sanjeet	109.	S. Saran
74.	Ramchandani	110.	Devanand Yadav
75.	S. Kuldeep	111.	Deepak Kumar
76.	Monu	112.	Hoshiyar Singh
77.	Ram Kumar	113.	Naresh Kumar
78.	Narsi Das	114.	Bablu Kumar
79.	Mr. Harish Kumar	115.	Mughera
80.	Manohara	116.	Vikash
81.	Mrs. Navaneethamma	117.	Angesh
82.	Arun Kumar	118.	Hari
83.	Bhupendra	119.	Parveen
84.	Dharmendra	120.	Rohit
85.	Hariom Singh	121.	Rishi Kumar
86.	Vijendra Singh	122.	Pushpendra Arya
87.	S. Kadam	123.	Mukesh
88.	Anil Kumar	124.	Surendra
89.	Hari Linde	125.	Rajpal
90.	Rajal S. Balwan	126.	Ram
91.	Jasvir	127.	Deepak
92.	Bachin Kumar		



List of the AIASA Cabinet/Students Delegates Attended

S. No.	Name	S. No.	Name
1.	Mr. Sudhir Kumar	38.	Savaria Anad M.
2.	Mr. Kuleshwar Prasad Sahu	39.	Aamir Khan
3.	Ms. Sonica Priyadarshini	40.	Akhilesh Jha
4.	Mr. Prem Prakash	41.	Dilip Kumar
5.	Mr. Rajveer Chaudhary	42.	Nitin Varshney
6.	Mr. Rameshwer Lal Mandeewal	43.	Himanshu Shekhar Chaurasia
7.	Kundan kumar Singh	44.	Nishidha C.T.
8.	Dr. Umesh B. Deshmukh	45.	Nitin Kumar Maurya
9.	Karale Gangadhar, UAS, Raichur	46.	Prabhat Mishra
10.	Kanak Saxena	47.	Sandeep Shukla
11.	Vicky Rathee	48.	Vinay B. Patil, UAS, Raichur
12.	Abhay Kumar Gaurav	49.	Sudeep Kumar E.
13.	Monika Wanan	50.	Mareppa N.B., UAS, Raichur
14.	Neelesh Sriwastava	51.	Poorva
15.	Vikash Rai	52.	Shiva Kumar E.G.
16.	Loknath Maitry	53.	Satyendra Kumar Singh
17.	Pankaj Gaykawad	54.	Shubham Singh
18.	Vinod Kumar Jakhar	55.	Gireesh S.
19.	Yashwant Kumar Yadav	56.	Sudhir Yadav, UAS, Dharwad
20.	Shailesh Tiwari	57.	Santosh Kumar Kulkarni
21.	Sunil Kumar	58.	Mr. Shivasharanappa S. Patil COA, UAS, Raichur
22.	Arjun Soyil	59.	Dharmaraj B.M.
23.	Vishal Gour	60.	Basavaraj Bendre, UAS, Dharwad
24.	Jasveer Singh	61.	Sunil Patil
25.	Mahendra Kumar Rojh	62.	Vivek Kumar Khare
26.	Amit Kumar	63.	Koushik Saha
27.	Satish Moond	64.	Yashwant Singh
28.	Banshi Lal Luna	65.	P. Gowtham
29.	Neeraj Tandi	66.	M. Jayaraj
30.	Akash Panigrahi, IGKV, Raipur	67.	A. Palani Samy
31.	Shriraj Panday, IGKV, Raipur	68.	B. Naveen Kumar
32.	Stanley Samuel, IGKV, Raipur	69.	P. Prakash
33.	Kapadiya Dhruv	70.	S. Thiru Kumar
34.	Joshi Champak Lal	71.	K.P. Jeevanand
35.	Zinzurodiya Hasmukh	72.	Ashok N. Chaudhary
36.	Vagadiya Piyush	73.	Jivraj H. Chaudhary
37.	Bhargav Anurag Mangalbhai	74.	Pravin K. Chaudhary

75.	Vikram Tomar	97.	Abhijit Mondal
76.	Ravindra Sharma	98.	Rajesh Kanwar, Dr. YSPUHF, Solan
77.	Radhe Lodhi	99.	Ankush Bhaik, Dr. YSPUHF, Solan
78.	Lokendra Birla	100.	Rajesh Bhagta
79.	Sahil Swangla	101.	Shubham Sharma, Dr. YSPUHF, Solan
80.	Sonita Rani Sethy	102.	Mr. Utpalendu, CSKHPKV, Palampur
81.	Wasifur Rahman, Ph.D AAU, Jorhat	103.	Mr. Ranvijay Pratap Singh, Ph.D, Horticulture JNKVV, Jabalpur
82.	Deepmohan Mochala	104.	Anil Patel, JNKVV, Jabalpur
83.	Mohit Yadav	105.	Mr. Anurag Basadiya, JNKVV, Jabalpur
84.	Tarun Kumar	106.	Mr. Rajendra Patel, JNKVV, Jabalpur
85.	Afifa Jalan	107.	Mr. Shristi Mehra
86.	G. Priyadarshini	108.	Ms. Princy Jain, JNKVV, Jabalpur
87.	Vaghela Kishan Singh	109.	Vinay Chourasia, B.Tech, (AE)
88.	Chaudhury Kulpesh L.	110.	Parminder Dutta
89.	Chuudhury Kundur P.A.	111.	Yashavanth S.
90.	R. Paramasivam	112.	Mr. Praveen Kumar
91.	Rajendra Yadav	113.	Mr. Chetan B. Patil
92.	Sanjoy Tamuly, AAU, Jorhat	114.	Mr. H.O. Kotresh, UAS, Raichur
93.	Bhoirab Gogoi, AAU, Jorhat	115.	Dharamraj B.M.
94.	Utpal Barman, AAU, Jorhat	116.	Yashwanth S.
95.	Neeraj Kumar	117.	Mr. Tapan Kumar Rout, B.Sc. (Ag), MSSSA, CUTM, PKD, Odisha
96.	Nikhil Kumar, BAU, Sabour	118.	Mr. Chinmaya Mandal, Gajapati





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Important Links

- AgriCat
- Agricultural Scientists Recruitment Board
- Agriinnovate India Limited
- ARS Scientists' Forum
- Consortium for e-Resources in Agriculture (CeRA)
- CSICAR
- Department of Agricultural Research and Education
- Department of Agriculture and Cooperation
- Design Resources Server
- ICAR Library
- ICAR Vichar Manch
- International Agricultural Organizations
- Knowledge Innovation Repository of Agriculture in the North East
- Microbial Genetic Resource Portal
- National Academy of Agricultural Sciences
- National Agricultural Innovation Project
- National Agricultural Science Fund (NASF)
- National Innovations on Climate Resilient Agriculture (NICRA)
- Parliament Questions
- PGR Portal
- Public Grievances
- Rice Knowledge management Portal
- Right to Information Act
- RTI applications, appeals and their replies
- Rohu Database
- Statistical Computing for NARS
- Telephone Directory
- The Agriculture Centre
- Women's Complaint Committee

Eco-friendly Management of Coconut Pests

Rhinoceros beetle (*Oryctes rhinoceros* Linn.), popularly known as black beetle, is a major pest of coconut in all coconut growing states. It affects seedlings, juveniles and adult bearing palms and leads to reduction in growth and yield by damaging unopened inflorescences in bearing palms. The adult beetle lays eggs in cow dung pits, vermicompost units, coir pith, degraded coconut logs etc. Treatment of such breeding sites with green muscardine fungus (GMF), *Metarhizium anisopliae*, developed by ICAR-Central Plantation Crops Research Institute, Regional Station, infest different stages of grubs within a week and thus, effectively brings down the population of the pest. Incorporation of *Clerodendron infortunatum*, a common weed seen in coconut gardens, in the breeding sites also inhibits the growth stages of the black beetle.



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Major Achievements of Ministry of Agriculture and Farmers Welfare - 2015

- DARE/ICAR Hindi English
- Department of Agriculture, Cooperation and Farmers Welfare Hindi English
- Department of Animal Husbandry Dairying & Fisheries

ICAR Invites Project Proposals under Farmer FIRST Programme.

Inviting Research project proposals by Agricultural Extension Division of ICAR: for funding under ICAR Extramural Research Projects—extended upto 15, February 2016.

News and Highlights

- Agriculture Education Day Celebrated at ICAR-NRRI, Cuttack
- 20th Foundation Day of NRC for Grapes
- Prime Minister Declares Sikkim as First Organic State of India
- Farmers-Scientists Interface at Kondagaon, Bastar
- Five agMOOCs starting on 11 January 2016

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Reports on Capacity Building

- Orientation Course on IPM in Important Crops
- Workshop on 'Use of automatic weather station to generate weather data for pest risk assessment'
- Workshop on "Role of Information Technology in Library Management in Digital Era"
- Awareness and Training Programme on Protection of Plant Varieties & Farmers Rights
- Seminar on Impact of Fertilizer Policy on Soil Health

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Success Stories

- Eco-friendly Management of Coconut Pests
- Narmadanidhi, a New Improved Variety of Chicken Released for Backyard Farming
- Agro-Processing Centre for Turning Farmers into Entrepreneurs
- Technology Enables Farmers to Secure Livelihood in Andaman Islands
- Bumper Crop of Vivek Maize Hybrid 45 in Uttarakhand**

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Upcoming ICAR Events

- NAARM Capacity Building Programmes 2015-16
- The forthcoming 54th Convocation of IARI, New Delhi.
- National Symposium on Vegetable Legumes For Soil And Human Health Feb 12-14, 2016 Venue: IIVR, Varanasi
- 6th International Conference on "Plant, Pathogens and People" with mission "Challenges in Plant Pathology to benefit humankind"
- National Conference on Fruit Breeding in Tropics and Subtropics: An Indian Perspective", from 13th-15th April, 2016, at IIHR
- 1st International Agrobiodiversity Congress (IAC 2016), November 6-9, 2016 in New Delhi, India.
- International Conference on "Pulses for Nutritional Security and Agricultural Sustainability" at New Delhi during 12-14 Nov 2016

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News

Extension of cut-off date for submission of documents for AO and F&AO Examination-2014

Launch of Low (<2%) Erucic Acid Indian Mustard Edible Oil

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All India Agricultural Students Association (AIASA), New Delhi, a welfare Society has been established on 8th January, 2011 to look after the welfare of Agriculture, Horticultural, Animal Husbandry,

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Vision & Mission

To foster the bond between 1 million agricultural students & professionals and to raise the voice for techno administrative agriculture reforms including creation of Indian Agricultural Services and advancement

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If You have any kind of query or suggestions, feel free to contact us at info@aiasa.org.in

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44



Annexure-IV

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