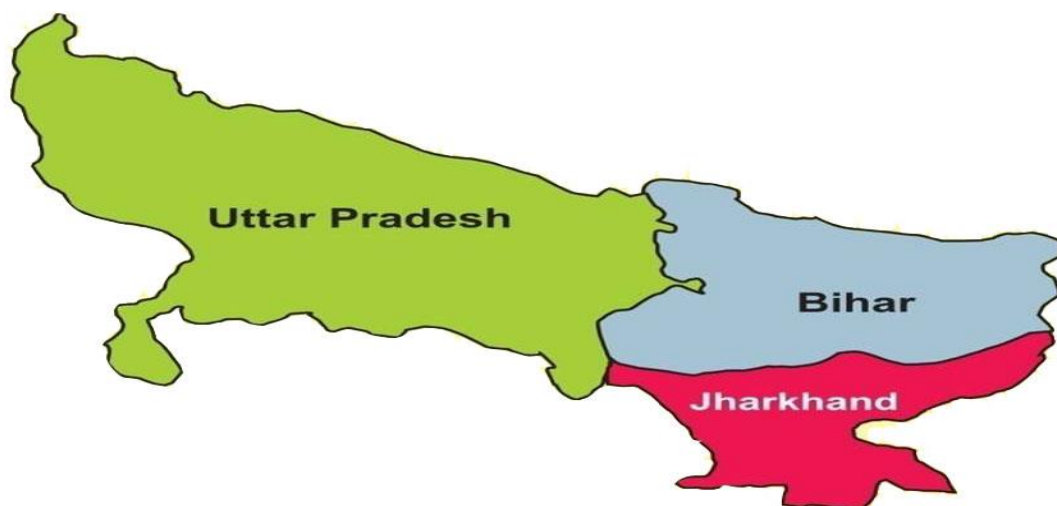


# **ICAR Regional Committee No-IV**

## **(Bihar, Jharkhand & Uttar Pradesh)**



## **Proceedings of the XXII Meeting**

**Held at**  
**ICAR-Indian Institute of Sugarcane Research, Lucknow**

**5-6 September, 2014**



**Indian Council of Agricultural Research**  
**New Delhi**

**PROCEEDINGS OF THE XXII MEETING  
ICAR REGIONAL COMMITTEE NO-IV**

**(BIHAR, JHARKHAND & UTTAR PRADESH)**

**5-6 September, 2014**

**held at**



**ICAR-Indian Institute of Sugarcane Research  
Lucknow**

**Organized by:**



**ICAR-Indian Veterinary Research Institute  
Izatnagar**



**Indian Council of Agricultural Research  
New Delhi**

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## **Proceedings of XXII Meeting of ICAR Regional Committee No. IV Indian Institute of Sugarcane Research, Lucknow on 5-6 September, 2014**

The Indian Council of Agricultural Research (ICAR) set up eight Regional Committees during 1975 for each of the eight agro-climatic regions of India. The Committees are serviced by the Member Secretary, who is normally one of the Directors of the Indian Council of Agricultural Research Institutes, located in the region. The Regional Committee meets once in two years to discuss and review the current status of agricultural research, education and extension education to take decisions on the various problems faced by the region either in the execution of the approved programmes or in tackling the emergent problems and identify gaps for research by Agricultural University or in transfer of known technology by extension agencies. The functions of the Regional Committee are:

- To review the status of agricultural research and education in the region, and
- To analyze, discuss in depth and make recommendations on the location-specific problems of agriculture, animal husbandry, fisheries and forestry peculiar to the region.

The Regional Committee provides a good forum for a meaningful dialogue amongst research and development agencies in the fields of agriculture, animal husbandry, fisheries and agro-forestry. They help in forging an effective liaison and Coordination amongst ICAR Institutes, Agricultural Universities and State Departments of Agriculture, Animal Husbandry and Fisheries; Ministers of Agriculture, Animal Husbandry and Fisheries of State Governments; and Vice-Chancellors and Scientists of Agricultural Universities. Directors of ICAR Institutes/Stations located in the region, Directors of Agriculture, Animal Husbandry and Fisheries of the State Governments, Members of the ICAR Society and a few Progressive Farmers are invited to these meetings. The meetings help in discussion of constraints in implementation of various programmes related to research, education and development of agriculture in the region and in finding practicable solutions in overcoming the constraints through joint efforts. Important recommendations arising out of the deliberations at the meetings are communicated for action to the concerned State/Central Agricultural Universities/ Agencies.

The XXII Meeting of ICAR Regional Committee No IV comprising the states of Bihar, Jharkhand and Uttar Pradesh was held on 05-06 September, 2014 at Indian Institute of Sugarcane Research, Lucknow.

### **Inaugural Session**

Shri Narendra Singh, Minister of Agriculture, Government of Bihar inaugurated the 22<sup>nd</sup> Meeting of ICAR Regional Committee, Zone-IV at IISR, Lucknow. Speaking as Chief Guest, he highlighted the progress made by Bihar State and called upon the stakeholders to increase the investment in agricultural research and extension to strengthen the network of related institutions. He exhorted the scientists and educationists to be vigilant and realistic in development of plans for the welfare of small farmers.

Shri P.K. Sahi, Minister of Environment and Forests, Planning and Development and Shri Vaidyanath Sahni, Minister of Animal and Fish Resources, Government of Bihar was the Guests of Honour on this occasion. Shri Sahi highlighted the roadmap developed for Bihar and the progress made by the State in increasing rice productivity. He further emphasized on the quality fodder production and management of animal health. Shri Sahni appreciated the role of

ICAR for providing a platform where the problems of the states could be discussed for finding out feasible solutions.

In his Presidential address, Dr S. Ayyappan, Secretary, DARE and Director General, ICAR said that region offers tremendous scope and opportunities for multifaceted growth in agriculture sector, including animal husbandry, fisheries, horticulture, sericulture and others. He highlighted that impetus is being given for fruits and vegetables, fodder seed production and in developing farm implements for the region. He also highlighted the need for trained manpower and skill development and efforts being made by the ICAR and SAUs including KVKs towards enhancing the skills of the farmers, youth and rural women.

Shri V.N. Garg, IAS, Agriculture Production Commissioner, Government of Uttar Pradesh emphasized on developing infrastructure in terms of market & agri-business in PPP mode, early warning systems, weather prediction systems and drought management systems. He thanked ICAR for its role in developing drought contingent plan and helping U.P. State in its implementation.

Dr S.K. Datta, Deputy Director General (Crop Science), ICAR and Nodal Officer, Regional Committee Zone-IV welcomed the dignitaries and participants and highlighted the role of biotechnological interventions in crops and livestock for enhancing productivity in the region. He stressed that there is a lot of scope for science-based development to enhance the productivity potential of food crops. He cited the example of Chinese farmers who have improved the rice yield significantly.

Dignitaries released five publications of ICAR institutions and 17 innovative and progressive farmers of the region were felicitated with Recognition Award.

The functionaries of various organizations including Assistant Directors General of ICAR, Vice Chancellors of the State Agricultural Universities, State Veterinary Universities, Central Agricultural University, Directors of ICAR research institutes, Deans of SAUs, senior officials of state line departments and progressive farmers from Bihar, Jharkhand and Uttar Pradesh attended the meeting and discussed the agenda of agricultural development in the region.

Dr R.K. Singh, Director, Indian Veterinary Research Institute (IVRI), Izatnagar and Member Secretary of ICAR Regional Committee No IV proposed the vote of thanks.

## Technical Sessions

Dr S. Ayyappan, Secretary DARE and Director General, ICAR chaired all the sessions and welcomed the delegates for 22<sup>nd</sup> Regional Committee meeting. This was followed by a brief introduction by all the participants.

The discussions started with the presentation of Action taken report of 21<sup>st</sup> Regional Committee meeting held at ICAR-RCER, Patna on September 21 and 22, 2012 by Dr R.K. Singh, Director, IVRI, Izatnagar and Member Secretary, Regional Committee-IV. After presentation of ATR, discussions on agenda items were taken up state-wise. The presentation led to discussion on several issues requiring attention for the agricultural development in the region. The major issues came up for discussion during the technical sessions were:

### Issues

1. The need for resilient dry-land farming for drought affected areas may be stressed upon.
2. Seed banks of contingent crop varieties need to be developed.
3. Suitable varieties of pulses need to be developed to tackle the problems related to flowering and seed setting.
4. System of Root Intensification (SRI) in wheat including mechanization need to be scientifically validated.
5. There is a need to tackle the problem of setting of fruits inspite of flowering in Lentil grown after harvesting paddy. Also, there is a need to develop early maturing lentil varieties in the region.
6. The agricultural sector in the region must emphasize on GM crops for improved production and productivity.
7. There is a need to improve long-term seed production and strengthen supply of quality seeds in the region.
8. The future research in the region must deal with co-cultivation (Mycorrhiza), green manuring, CO<sub>2</sub> sequestration and canopy along with stress management.
9. Although varieties recommended for central zone may fit well for *taal* area, a programme may be initiated exclusively for improving the scenario of *taal* area especially for rice and pulses.
10. There is a need to develop marker to assess quality of rice since this region has high potential for hybrid rice production.
11. The institutes and universities in the region must collaborate with industry for microbe characterization and develop policy for rice fallow produce.
12. A hybrid rice consortium may be established to improve and maintain good hybrid lines.
13. Low-cost storage facility for horticulture crops including vegetables in rural areas is essential to minimize post-harvest losses.
14. Turmeric / ginger research needs to be strengthened in Jharkhand.
15. Problem of low sugar recovery and post-harvest losses may be minimized by tie-up of IISR, Lucknow with leading sugar mills to develop a package of cut-to-crush and high sugar recovery practices.
16. Since the price of vegetables is increasing at faster rate, an economic analysis of vegetable crops at national level is essential.

17. The support price of *makhana* needs to be declared and *makhana* harvester may be developed at the earliest.
18. Cultivation of hybrid vegetables in the region must be emphasized.
19. Efforts are needed to improve the production level of different horticulture crops including onion, mango, mushroom and flowers. Further, perennial horticulture may be emphasized for Bundelkhand region.
20. Precise statistics on area and productivity of horticulture crops must be developed and improved in the region.
21. Ideal pilot chain of horticulture crops like cucumber and potato to be demonstrated for improved production.
22. Separate models for promotion and development of goats to be developed for farmers and entrepreneurs in the region.
23. The veterinary hospitals in the region must be equipped with all the facilities to deal with emergencies.
24. The farmers in the region need to be made more aware about scientific practices of rearing goats, insurance policies and bank loans.
25. Strengthening integrated animal husbandry production system and fodder research in the region is a must.
26. There is need for microchip registration of livestock and conservation of local breeds.
27. For development of feed and forage crops in the region, a program on data compilation and analysis of forage crops must be initiated and explored in collaboration with IGFRI, Jhansi and other institutes.
28. There is a need to study the heavy metal contents in the feed. Also, NIANP, Bangalore may be contacted for studying the digestibility of feed.
29. The applications of vaccines developed by IVRI, Izatnagar shall be evaluated at field conditions including the transfer of vaccine technology.
30. Apart from continued R&D on the improvement of vaccines; IVRI, Izatnagar has to prepare a list of vaccines required by the clients for the next ten years.
31. Animal science institutes of ICAR and SAUs shall address the issues related to livestock in the region and study the production and productivity of livestock sector.
32. The animal science institutes must take-up studies on care and management of livestock during and after the disasters in the region.
33. IVRI, Izatnagar and other animal science institutes must conduct extension activities related to feeding and management aspects including the production of silage in the region.
34. Alternative models may be developed for preparing livestock and fish feed at lower cost using local resources in the region.
35. The efforts to reduce the problem of livestock infertility in the region must be taken-up through nutritional and physiological approaches in collaboration with AICRP on "Nutritional and Physiological Approaches for Enhancing Reproductive Performance in Animals".
36. There is a need to assess the benefit-cost ratio of organic livestock products in the region.
37. SVBPUA&T, Meerut to collaborate with ICAR for effective and satisfactory functioning of Veterinary College.
38. A model / document on package of practices for goat rearing must be developed and submitted to NABARD and other agencies for programme implementation and funding.

39. Adequate facilities are required for supplying poultry birds including ducklings from CARI, Izatnagar to distant places. Further, the scope to establish satellite centre at Sabour, Bihar for chick production may be explored.
40. For effective transfer of technology, training centres for animal husbandry and dairying need to be increased in the region.
41. The problems associated with low success rate of Artificial Insemination like breakdown of cold chain, improper heat detection etc. need to be addressed.
42. The huge livestock resource of non-descript animals, buffalo and goat population may be tapped for higher productivity considering their health and management issues.
43. U.P state department of animal husbandry must utilize the full potential of Sahiwal breed available in the region.
44. Fast and reliable system for animal disease forecasting and diagnosis is required to minimize the economic losses in the region.
45. The fisheries sector is facing the problems of low fish production due to old fish culture system, lack of budget & infrastructure, and unavailability of quality seeds for different species including minor carps.
46. Portable hatcheries, cage culture demonstrations, brood bank, utilization of saline soil for fisheries to be emphasized in the region.
47. There is a need to focus on holistic development of fish through new tank construction, renovation of tanks, drenching of wet land, culture-based fishing, and training of farmers for enhancing awareness.
48. The integrated fisheries development efforts need to be improved in the region.
49. Preparation of low-cost fish feed needs to be developed using local resources.
50. The fisheries sector in the region needs major emphasis for improving the scenario. Special policy programme needs to be initiated for upliftment of small and marginal farmers.
51. Disease surveillance and awareness of farmers about fish culture may be emphasized.
52. There is a need to utilize the full potential of water resource in U.P since only about one-fifth of the total water area is used for fish production.
53. Fresh water prawn culture needs to be initiated as saline water is lacking in U.P.
54. Collaborative efforts are required to increase the total geographical area of forest cover including the rehabilitation of degraded forests in the region especially in Bihar with the effective implementation of different programmes.
55. There is a need to focus on tissue culture research of bamboo in the region.
56. As the cropping intensity is low due to larger fallow area after Kharif, it is essential to take up more crops in Rabi season in the region, especially in Jharkhd.
57. Due to undulating topography, water retention is a problem and, therefore, soil and water conservation methods should be researched for Jharkhand state.
58. Recommendations are needed for reclamation of acidic soil for the region.
59. A need-based strategy for waterlogged conditions in the region has to be in place.
60. There is a need to increase the registration of varieties on priority basis. An action plan for targets and efforts should be strengthened in this regard which may be monitored on quarterly basis.
61. The huge network of agricultural colleges under traditional universities may be brought under ICAR/NARES umbrella for improving the education system.



62. State level Agricultural Cabinet Committees may be formed for effective functioning and improving the agricultural sector in the region. Also, an independent teacher/scientist recruitment board must be set-up.
63. Bundelkhand region may be identified for dry land farming in association with CRIDA for exploring its full potential.
64. KVKs may function as nodal agencies in the region for effective transfer of technologies.
65. Specific plans to improve productivity under soil salinity, drought and reclamation of sodic soils must be framed.
66. A strong roadmap for generation and dissemination of agricultural technologies is essential to achieve the target growth rate of 4 % p.a. in the region.
67. Strengthening of human resource is very essential for performing teaching, research and extension activities of the SAUs/SVUs/CAU of the region.
68. The performance of the students may be assessed on the percentile system to benefit the students of smaller universities.
69. Guidelines may be framed and followed for the university employees in terms of service benefits, career advancements and other benefits like gratuity etc.
70. Establishment of community radio station at each KVK may be taken up on priority basis in RAU, Pusa and other universities.
71. ICAR Model Act may be implemented by SAUs to improve agricultural education and strengthen NARES.
72. Quality seed production of chewing tobacco is required for improved livelihood of farmers in the region especially in Bihar.
73. More human resource at NBPGR, Ranchi is essential for effective functioning of the centre.
74. Old soil testing equipments at different KVKs in the region may be replaced through revolving fund.
75. PG and PhD thesis research at ICAR institutes and universities must focus on field-based innovative studies. The ICAR institutes may include new guides from other campuses and the students may also be placed at different campuses for PhD and PG research programmes.
76. There is a need to take up fish disease surveillance programme besides work on exploration, cataloguing, stock characterization and several other areas of national importance.
77. The scientists in ICAR Research Complex for Eastern Region, Patna must work on field-based problems in collaborative/network mode with state agencies.
78. Improving resource generation, timely bank re-conciliation, settling AP Cess fund accounts, maintaining store and asset registers, refund of all unspent balance to ICAR must be taken up on priority basis.
79. There is a need to assess job analysis, training needs and capacity building of the staff in the institutes to be competent with top level research and management institutes of the country.
80. The funds provided under TSP and for NEH region must be effectively utilized and all the institutes and universities must be aware about procedure of cabinet notes.
81. The researchers in the region must contribute to the ICAR publications including research article to '*Krishika*' (Hindi).
82. A PME Cell in all institutes and SAUs/SVUs/CAU may be established on priority basis.
83. More agro-processing projects may be established apart from existing farm machineries at 24 institutes.

84. The duplication of research and Extension activities in the region must be minimized in agriculture and allied sectors for effective utilization of human resource and budget.
85. Package-of-Practice for safe and effective grain storage to be developed.
86. There is a need to develop farmer's friendly and cost-effective agricultural machineries and implements suitable for small and marginal farmers in field conditions.
87. Micro irrigation technology needs to be promoted and popularized in the region.
88. Low-cost soil testing technology and related equipments need to be developed.
89. Low-cost irrigation system for pasture development in the region needs to be emphasized. A specific plan encompassing all the agro-climatic zones may be initiated by ICAR in collaboration with other agencies for improving the status of agriculture in the region.
90. Communication mechanism between ICAR institutes, SAUs and KVKs to be strengthened.
91. Blue bulls (*Nilgai*) cause damage to the crops in large area in the region, there is a need to develop effective strategies to control the same.
92. Appropriate rehabilitation plan for flood prone areas is required in the region.

## **Action Points**

1. An action plan shall be framed to ensure increase in the registration of varieties. Awareness programmes and regular monitoring need to be taken up.  
(Action: All ICAR institutes, SAUs, ZPD, PPVFRA, ADG (IPTM))
2. Considering the issue of late monsoon, there is a need to develop suitable late sowing varieties of paddy for the region. Thermal heat tolerant Hybrid varieties of wheat, rice and maize suitable to water logging conditions also need to be developed.  
(Action: DDG (CS), ICAR-RCER, SAUs)
3. New initiatives to be encouraged on improving the productivity & nutritional values of pulses.  
(Action: DDG (CS), IIPR, SAUs)
4. Development of sugarcane varieties with high sugar content and package of practices to reduce postharvest losses.  
(Action: IISR, DDG (CS), SAUs)
5. Kinnow farming may be tested at field conditions and be taken up in Bundelkhand region if satisfactory results are found.  
(Action: MKJUA&T, Banda)
6. Economic analysis of vegetable crop production shall be carried out.  
(Action: IIVR, SAUs, DDG (Hort), ICAR-RCER)
7. Orchard rejuvenation needs to be carried out on priority as productivity of old orchards is declining.  
(Action: DDG (Hort), CISH, NRC Litchi, SAUs, State dept., ICAR-RCER)
8. A meeting of all animal science institutes shall be convened at IGFRI, Jhansi to discuss all the issues related to feed and fodder production in the region.  
(Action: IGFRI, IVRI, SAUs, SVUs, ICAR-RCER, SDAH)
9. Developing alternate models to reduce livestock, poultry and fish feed cost.  
(Action: IVRI, SVUs, CARI, CIFRI, SAUs, DDG (AS))
10. Developing technologies & creating awareness about monsoon surplus grasses and silage production.  
(Action: IVRI, IGFRI, SAUs, DDG (AS), ICAR-RCER)
11. An effective strategy need to be developed to minimize indiscriminate breeding of cattle and buffaloes.  
(Action: SDAH)
12. Development of improved breeds of duck.  
(Action: CARI, Izatnagar, DDG (AS))
13. Improving disease forecasting and diagnosis for livestock, fish and poultry.  
(Action: IVRI, CARI, NBFGR, CIFRI, DDG (AS) and DDG (Fy))

14. Collaboration of ICAR institutes with U.P state department of animal husbandry to utilize the full potential of Sahiwal breeds and improve germplasm of other indigenous breeds.  
(Action: DDG (AS), CIRC, IVRI, SAUs, SVUs, SDAH, ICAR-RCER)
15. Effective utilization of conventional and non-conventional feed resources and evaluation of feed and fodder including the newly developed varieties.  
(Action: IVRI, NIANP, IGFRI, SAUs, SDAH, ICAR-RCER)
16. The vaccine development must simultaneously include filing of patents by the institutes and universities.  
(Action: IVRI, SAUs, DDG (A.S) ADG (IPTM))
17. Immediate attention must be paid to increase the population of goats in the region. All animal science institutes shall maintain the nucleus flocks of goats and develop a model/ document on package-of-practices for goat rearing.  
(Action: IVRI, SAUs, SVUs, CIRG, SDAH, DDG (AS), ICAR-RCER)
18. The work related to cage culture may be initiated on priority basis at fisheries institutes.  
(CIFRI, Allahabad)
19. Promotion of social fisheries and enhancement of fish population in the river.  
(Action: State dept., NBFGR, CIFRI, DDG (Fy))
20. Establishment of hatchery for *desi* mangur, ornamental fishes, brood & seed bank for round-the-year seed availability.  
(Action: NBFGR, CIFRI, SAU's/SVU's, State Deptt.)
21. Promotion of inland fisheries in rivers for improved production in the region.  
(Action: CIFRI, Allahabad, NBFGR, DDG (Fy))
22. Water resources in the region shall be utilized to the full potential for fish production.  
(Action: CIFRI, NBFGR, State Fisheries Dept. SAUs)
23. Total geographical area of forest cover including the rehabilitation of degraded forests in the region shall be increased through effective implementation of programmes.  
(Action: State dept., NRC Agroforestry, SAUs, DDG (NRM))
24. Development of appropriate agro-forestry and plantation models for different areas including water-logged areas.  
(Action: State dept., SAUs, NRC Agroforestry, DDG (NRM), ICAR-RCER)
25. There is a need to take-up Extension activities about planting, harvesting and marketing of the agro-forestry produce. Also some tree species model may be developed.  
(Action: NRC- Agro-forestry, ZPD, DDG(AE), DDG (NRM))
26. All SAUs should ensure a separate bank account for KVKs and funds raised by the KVKs. Revolving fund shall be used by KVKs only.  
(Action: SAUs, ZPDS, DDG (AE))

27. Emphasis should be given for conducting one-week/two-week programme rather than one or two day training programmes by the KVKs.  
(Action: DDG (AE), ZPD, ICAR-RCER)
28. Initiation of PG level education in fisheries in Bihar must be taken up on priority basis.  
(Action: VC of RAU & BAU, DDG (Edu), DDG (Fy))
29. Developing a database on PG and PhD thesis to avoid repetition of research works.  
(Action: IVRI, SAUs, SVUs, DDG (Edu))
30. Development of farmer-friendly and cost-effective agricultural machineries and implements for small and marginal farmers.  
(Action: DDG (Ag Engg), SAUs, CIAE)
31. ICAR guidelines must be followed for recruiting KVK posts since these institutions are solely funded by the ICAR.  
(Action: SAUs, DDG (AE), ZPD)
32. Guidelines should be followed strictly in utilization of KVK revolving fund.  
(Action: All ICAR institutes, SAUs, ZPDs, DDG (AE))
33. The training capacity of ICAR institutes and SAUs needs further strengthening.  
(Action: ICAR institutes, SAUs, ZPD, DDG (AE))
34. Emphasis on training to farmers about integrated farming, water conservation and soil health management.  
(Action: ZPDs, DDG (AE), DDG (NRM), ICAR-RCER, CSWCR&TI, CSSRI)
35. Transfer of Soil Testing Laboratory of KVK, Madhopur to KVK, Piparadih.  
(Action: KVK, Madhopur, KVK Piparadih, ZPD Zone II, RAU, Bihar)
36. Ensuring adequate availability of hybrid/quality seeds for crops and vegetables.  
(Action: CPRS, Modipuram, ICAR-RCER, SAUs, Agric Dept., IIVR, DDG (CS), DDG (Hort.))
37. Efforts to be made to tap the potential of linseed as a source of omega-3 fatty acid and its fibre utilization.  
(Action: AICRP, SAUs)
38. The functioning of KVKs in general & particularly those associated with CSAUA&T, Kanpur need substantial improvement in terms of human resources, infrastructure development and fund utilization.  
(Action: DDG (AE), ZPD's, VC's/Directors)
39. Ensure adequate production and supply of short-duration hybrid seeds especially for rice and maize in the region including low land ecology. Also, improve long-term seed production and strengthen supply of quality seeds in the region.  
(Action: All ICAR Institutes, SAUs, State Depts., DDG (CS))

40. Provide seed materials of newly released varieties for demonstration to farmers.  
(Action: All ICAR Institutes, SAUs, DDG (CS), DDG (AE))
41. Organize Fabricators Meet on standardization of fruit packaging including for litchi.  
(Action: ICAR-RCER, NRC, Litchi, CISH, SAUs, DDG (Hort))
42. High yielding fodder producing varieties should be introduced in the region for improving the feed and fodder scenario in the region. In this regard, transgenic lines of fodder varieties may also be introduced in the region.  
(Action: IGFRI, SDAH, DDG (AS))
43. Establishment of livestock farms at all the institutes and universities is essential for effective Teaching, Research and Extension.  
(Action: Animal Science Institutes, SAUs, SVUs, DDG (AS), DDG (Edu), DDG (DE))
44. Establishment of community radio station at each KVK may be taken-up on priority basis in RAU, Pusa and other universities.  
(Action: ICAR Institutes, ZPDs, SAUs, SVUs, DDG (AE))
45. The Director/VCs of institutes and State Universities operating NAIP projects must check for increased expenditure and expedite the expenditure, clear the outstanding balances on monthly or fortnightly basis, settle the audit para, implement MIS & FMS.  
(Action: ICAR Institutes, SAUs, SVUs, ADG (Finance), Director, NAIP)

The Chairman expressed satisfaction on deliberations and thanked the participants for their participation and views. He emphasized that the discussion held and issues highlighted may be taken note of by the concerned organizations. The action points emerged during the meeting may be acted upon on priority and addressed at appropriate forum. He also pointed out that Region-IV is a rich in resources which may be explored for higher production and productivity in the region. He thanked all for organizing and participating in the XXII Meeting of ICAR Regional Committee No. IV at IISR, Lucknow.

Dr. S P Kimothi, ADG (Coordination) proposed formal vote of thanks to all the participants of the Regional Committee-IV.

**List of Participants**  
(Not as per the seniority)

Sl.	Name	Designation/Address
1.	Sri P K Sahi, Guest of Honour	Hon'ble Minster of State (Independent Charge), Environment & Forest, Govt. of Bihar
2.	Sri Baidyanath Sahni, Guest of Honour	Hon'ble Minister of Animal & Fish Resources, Govt. of Bihar
3.	Sri Narendra Singh, Chief Guest	Hon'ble Minister of Agriculture, Govt. of Bihar
4.	Dr S. Ayyappan	Secretary, DARE & Director- General, ICAR, New Delhi
5.	Dr Sudhir Bhargava	Member, ICAR, GB
6.	Dr R.K. Singh	Member Secretary & Director, IVRI, Izatnagar
7.	Dr S. Data	DDG(CS), ICAR, New Delhi
8.	Dr Hanchinal	Chairperson, Protection of Plant Varieties and Farmers' Rights Authority (PPV&FRA)
9.	Dr Arvind Kumar	DDG (Education), ICAR, New Delhi
10.	Dr K.M.L. Pathak	DDG(AS), ICAR, New Delhi
11.	Dr (Mrs) Meenakumari B	DDG(FS), ICAR, New Delhi
12.	Dr N.K. Krishna Kumar	DDG (HS), ICAR, New Delhi
13.	Dr A.K. Sikka	DDG(NRM+AE), ICAR, New Delhi
14.	Dr Rejendra Kumar	DG, UPCAR, Lucknow
15.	Dr A.K. Singh	ZPD, Zone II, Kolkata
16.	Dr Atar Singh	ZPD, Zone IV, Kanpur
17.	Dr Kanchan K Singh	ADG(Engg.), ICAR, New Delhi
18.	Dr S. Mauria	ADG(IP&TM), ICAR, New Delhi
19.	Dr Rameshwar Singh	Director (DKMA), ICAR, New Delhi
20.	Dr A.K. Vasisht	ADG(PIM), ICAR, New Delhi
21.	Dr A.K. Vyas	ADG(HRM), ICAR, New Delhi
22.	Dr Devendra Kumar	Director (Fin.), ICAR, New Delhi
23.	Dr B.P. Bhatt	Director, ICAR-RCER, Patna
24.	Dr J.K. Jena	Director, NBFGR, Lucknow
25.	Dr Jagmohan Kataria	Director, CARI, Izatnagar
26.	Dr S.K. Dhyani	Director, NRC for Agroforestry, Jhansi
27.	Dr S. Rajendra Prasad	PD, Director of SEED Research Mau (UP)
28.	Dr R. Ezekiel	National Coordinator, NAIP, ICAR
29.	Dr Vishal Nath	Director, NRC Litchi, Muzaffapur
30.	Dr R. Ramani	Director, IINRG, Ranchi
31.	Dr S.K. Agarwal	Director, CIRG, Makhdoom, Mathura
32.	Dr N.P. Singh	Director, IIPR, Kanpur
33.	Dr A.K. Sharma	Director, NBAIM, Mau (UP)

34.	Dr B. Singh	Director, IIVR, Varanasi
35.	Dr P.K. Ghosh	Director, IGFRI, Jhansi
36.	Dr S Solomon	Director, IISR, Lucknow
37.	Dr O.K. Sinha	PC(Sugarcane), IISR, Lucknow
38.	Dr Munna Singh	VC, CSAUA&T, Kanpur
39.	Dr R.B. Lal	VC, SHIATS-DU, Allahabad
40.	Dr A.C. Varshney	VC, DUVASU, Mathura
41.	Dr Rudra Pratap	Director, Animal Husbandry, Lucknow
42.	Dr R.K. Mittal	VC, RAU, Pusa, Bihar
43.	Dr M.L. Choudhary	VC, BAU, Sabour, Bihar
44.	Dr Milkha Singh Aulakh	VC, MSKJUA&T, Banda
45.	Dr A.K. Bhutani	Joint Director (Marketing) Deptt. Of Agril., GOI & State Nodal Officer, Uttar Pradesh
46.	Dr Pinky Jewel	Director-cum-Special Secretary, Fisheries, Uttar Pradesh
47.	Dr A.S. Mishra	PS, Tech. Cord. ICAR H.Q, New Delhi
48.	Dr Shiv Prasad Kimothi	ADG (Coordination), ICAR, New Delhi
49.	Dr Manoj Kumar	Head & PS, CPRS, Patna
50.	Dr B. Gangwar	PD, PDFSR(ICAR) Modipuram
51.	Dr R.K. Sohane	Director, Extn. Education, BAU, Sabour, Bihar
52.	Dr K.P. Shrivastava	Dy. Secretary, Animal & Fish Resource Deptt. Bihar
53.	Mr Nishat Ahmed	Director, Fisheries, Bihar
54.	Dr Amar Kr.	CCF, Lucknow
55.	Dr R.P. Singh 'Ratan'	Director, Extn. Edu. BAU, Ranchi
56.	Mr. Jata Shankar Choudhary	Director Sameti Jharkhand
57.	Dr Mukund Variar	OIC, CRRI, Hazaribag
58.	Dr Naveen Patle	Dy. Commissioner (Hort.) DAC, MOA, New Delhi
59.	Dr Babu Ram	Prof. Horticulture, representing Director, Ext. Edu. SVPUA&T, Meerut
60.	Dr D.P. Tripathi	Joint Director, Agril Planning, Deptt of Agril., GOB, Patna
61.	Mr. A.C. Jain	Joint Director, Agril. (Ext.), Bihar
62.	Dr V.P. Singh	Joint Director (Academic), IVRI, Izatnagar
63.	Dr B.P. Mishra	Joint Director (Research), IVRI, Izatnagar
64.	Dr D.K. Singh Dron	Director (R), BAU, Ranchi
65.	Dr Z.A. Haider	Dean, BAU, Post Graduate Studies, Ranchi
66.	Dr M.H. Siddiqui	Dean, Faculty of Forestry, BAU, Ranchi
67.	Dr M.S. Yadava	Dean, Faculty of Agril. BAU, Ranchi
68.	Dr K.D. Joshi	Head, Regional Centre of CIFRI, Allahabad



69.	Dr A.K. Roy	PC-ICAR-AICRP Forage Crops, IGFRI, Jhansi
70.	Prof. Iqbal Ahmad	Dept. Agril. Microbiology, AMU, Aligarh
71.	Dr Sanjeev Gupta	PC-ICAR-AICRP, MULLaRP, IIPR, Kanpur
72.	Dr I.P. Singh	PC-ICAR-AICRP, Pigeonpea, IIPR, Kanpur
73.	Dr P.K. Singh	PC-ICAR-AICRP, Linseed, IIPR, Kanpur
74.	Dr C.R. Mehta	PC, AICRP on FIM, CIAE, Bhopal
75.	Dr N. Ravisankar	PC, PDFSR, Modipuram, Meerut
76.	Dr Sujit Kumar	Scientific Officer (Plant Breeding), UPCAR, Lucknow
77.	Dr Hari Om Katiyar	Assistant Prof. SVPUA&T, Meerut
78.	Dr B.K. Pandey	PS, Hort. Sci. Div., ICAR, New Delhi
79.	Dr T.K. Srivastava	Head, Crop Production, IISR, Lucknow
80.	Dr S.K. Jha	Senior Scientist, CSSRI-RRS, Lucknow
81.	Dr Lakhan Singh	PS (Ag.Etn.) ZPD, Zone IV, Kanpur
82.	Dr H.K. De	PS (Ag Ent.) ZPD, Zone II, Kolkata
83.	Dr R.R. Singh	Directorate of Extn. NDUA&T, Faizabad
84.	Dr Sayapal Singh	Prog. Cord. KVK, NDUA&T, Faizabad
85.	Dr R.S. Rathi	OIC, NBPGR, Regional Station, Ranchi
86.	Dr Niranjana Prasad	IINRG, Ranchi
87.	Dr R.K. Rai	IISR, Lucknow
88.	Dr S.K. Shukla	PS, IISR Lucknow
89.	Dr A.D. Pathak	Head, Crop Imp. IISR, Lucknow
90.	Dr S.K. Kaushik	Joint Director, CPRI Campus, Modipuram, Meerut
91.	Dr S.K. Dubey	CRTI, Agra
92.	Dr R.P. Dubey	PS, DWSR, Jabalpur
93.	Dr V.K. Mishra	Head, CSSRI, Lucknow
94.	Dr I.S. Solanki	Head, IARI RS, Pusa, Bihar
95.	Dr Ashok Kumar Singh	Assoc. Director, Ext. Edu. Rajendra Agril Univ. Pusa Samastipur, Bihar
96.	Dr Mithilesh Kumar	Director (R), RAU, Samastipur, Bihar
97.	Dr S.P. Joshi	Director, Hort. & Food Processing, UP
98.	Dr I.P. Singh	Project Cord. Pigeonpea ICAR-AICRP Pigeonpea IIPR Kanpur
99.	Dr Sanjeev Gupta	PC-ICAR-AICRP on MULLaRP, IIPR, Kanpur
100.	Dr A.U. Qidwai	Joint Director Poultry, Directorate of Animal Husbandry, Lucknow
101.	Dr J.K. Pandey	Dy. Director, Animal Husbandry HQ. State Directorate of A.H. Lucknow
102.	Prof. Samir Pal	Director, Extn. CSA, University, Kanpur
103.	Dr Saruajeet Yadav	Director (Extn.) Vety. Univ. Mathura
104.	Dr Atul Saxena	Director (R), Vety. Univ. Mathura
105.	Dr V.B. Patel	Chairman (Hort.) BAU, Sabour
106.	Dr M.P. Singh	Additional Director, Agril. UP State Lucknow

107.	Dr Amaresh Chandra	PS &HOD, PPB Div. IISR, Lucknow
108.	Dr H. Ravishankar	Director, CISH, Lucknow
109.	Dr B. Prakash	Director, CIRC, Meerut
110.	Dr H.S. Gaur	VC, SVPUA&T Meerut
111.	Dr R.M. Khan	PS, CISH Lucknow
112.	Dr Mahesh Chander	Head, DEE, IVRI, Izatnagar
113.	Dr A K Verma	Head, AN Division, IVRI, Izatnagar
114.	Dr S K Mendiratta	Head, LPT, IVRI, Izatnagar
115.	Dr Putan Singh	PS, IVRI, Izatnagar
116.	Dr V B Chaturvedi	PS, IVRI, Izatnagar

## Farmer Participants

1.	Shri Dev Narayan Patel	Village-Bachan Khera, P.O. Adampurjanubi, Distt. Lucknow (U.P.)
2.	Shri Ram Sharan Verma	Village & P.O. Daulatpur (Jaitpur), Distt. Barabanki(U.P.)
3.	Shri Moinuddin	Vill. Dafedarpurva, PO-Dewa Sharif, Distt. Barabanki (U.P.)
4.	Shri Ram Prakash Singh	Vill. Pahur (Harsinghpur), Chaudagara, Distt. Fatehpur
5.	Shri Lallan Singh	Vill. Sariyaur, Akbarpur, Distt. Kanpur Dehat
6.	Shri Sher Singh Yadav	Vill. Kusraon, PO-Karahara, Sirsaganj, Distt. Firozabad. (U.P.)
7.	Shri Yad Ram Kushwaha	Vill. Manpur, PO- Manpur, Distt. Aligarh
8.	Shri Sudhir Agrawal	M/s Bhawani Seeds & Bio-Tech, (A Farmer's Seed Company of Bhureka), 70 Vikas Bazar, Distt. Mathura.(U.P)
9.	Shri Amar Singh	Distt. Bareilly
10.	Shri Satpal Saini	Village & Post – Raniyala, District – Saharanpur
11.	Shri Madan Singh	Village & Post – Punwarka, District – Saharanpur
12.	Shri Umeshwar Singh	Village PO Affaur Block Nagra Dist Saran, Bihar
13.	Shri Amitabh Anand	Vill- Mohanpur, Shahkund, Bhagalpur, Bihar
14.	Shri Ritesh Pandey	Vill-Bandu, PO- Dara Nagar, Nauhatta, Rohtas, Bihar
15.	Shri Raj Narayan Singh	At+PO- Keshawe, Block-Barauni, Distt.- Begusarai, Jharkhand
16.	Shri Minu Mahto	Vill. – Locher, P.O. – Hewai, Dist. – Hazaribag Jharkhand
17.	Smt. Basanti Panna	Vill. – Khuti Kewal Ashram, P.O. – Hunterganj Dist. – Chatra , Jharkhand

**कार्यक्रम**  
**PROGRAMME**

भारतीय कृषि अनुसंधान परिषद क्षेत्रीय समिति – 4 की बाइसवीं बैठक  
सितम्बर 5, 2014 (शुक्रवार)

**XXII MEETING OF THE ICAR REGIONAL COMMITTEE NO. IV**  
**September 5, 2014 (Friday)**

उद्घाटन सत्र  
**INAUGURAL SESSION**

स्थान : सभागार (भा.ग.अनु.सं. लखनऊ)  
**VENUE: Auditorium, IISR, Lucknow**

समय TIME		विचारणीय मद <b>Agenda</b>	
1000 बजे 1000 hr	1 I	गीत भा.कृ.अनु.प. <b>ICAR Song</b>	
1010 बजे 1010hr	2 II	आदरणीय अतिथियों का स्वागत <b>Welcome of Hon'ble Guests</b> <ul style="list-style-type: none"> <li>• माननीय श्री नरेंद्र सिंह, कृषि मंत्री, बिहार सरकार <i>Sri Narendra Singh</i>, Hon'ble Minister of Agriculture, Govt. of Bihar</li> <li>• माननीय श्री पी. के. शाही, पर्यावरण एवं वन मंत्री, बिहार सरकार <i>Sri P K Sahi</i>, Hon'ble Minister of Environment &amp; Forest, Govt of Bihar</li> <li>• माननीय श्री वैद्यनाथ साहनी, पशु एवं मत्स्य संसाधन मंत्री, बिहार सरकार <i>Sri Baidyanath Sahni</i>, Hon'ble Minister of Animal &amp; Fish Resources, Govt. of Bihar</li> <li>• श्री वी एन गर्ग, कृषि उत्पादन आयुक्त, उत्तर प्रदेश सरकार <i>Sri V N Garg</i>, APC, Govt. of Uttar Pradesh</li> </ul>	
1000बजे 1000 hr	3 III	दीप प्रज्वलन <b>Lighting of Lamp</b>	
1005 बजे 1005 hr	4 IV	स्वागत उद्बोधन <b>Welcome Address</b>	डा.एस. अय्यप्पन, सचिव कृषि शोध एवं शिक्षा विभाग एवं महानिदेशक भा.कृ.अनु.प. <b>Dr S. Ayyappan</b> Secretary DARE & Director General, ICAR
1015 बजे 1015 hr	5 V	उत्तर प्रदेश के कृषि विकास की अभ्युक्ति <b>Remarks on Agricultural developments in UP</b>	श्री वी एन गर्ग, आई ए एस कृषि उत्पादन आयुक्त उत्तर प्रदेश सरकार <b>Sri V N Garg, IAS</b> APC, Govt. of Uttar Pradesh

1022 बजे 1022 hr	6 VI	प्रकाशन एवं उत्पाद को जारी करना क्षेत्र के विकासशील किसानों को सम्मानित करना <b>Release of publications/products</b> <b>Facilitation of Progressive farmers from the region</b>	
1035 बजे 1035 hr	7 VII	प्रगतिशील कृषकों के विचार Views of Progressive Farmers	
1055 बजे 1055 hr	8 VIII	विशिष्ट अतिथि का सम्बोधन <b>Address by Guest of Honour</b>	माननीय श्री वैद्यनाथ साहनी, पशु एवं मत्स्य संसाधन मंत्री, बिहार सरकार <b>Sri Baidyanath Sahni,</b> Hon'ble Minister of Animal & Fish Resources, Govt. of Bihar
1105 बजे 1105 hr	9 IX	विशिष्ट अतिथि का सम्बोधन <b>Address by Guest of Honour</b>	माननीय श्री पी. के. शाही, पर्यावरण एवं वन राज्य मंत्री, बिहार सरकार <b>Sri P K Sahi,</b> Hon'ble Minister of Environment & Forest, Govt. of Bihar
1115 बजे 1115 hr	10 X	मुख्य अतिथि का सम्बोधन <b>Address by Chief Guest</b>	माननीय श्री नरेंद्र सिंह, कृषि मंत्री बिहार सरकार <b>Sri Narendra Singh,</b> Hon'ble Minister of Agriculture, Govt. of Bihar
1130 बजे 1130 hr	11 XI	धन्यवाद ज्ञापन <b>Vote of Thanks</b>	डा. आर के सिंह, सदस्य सचिव एवं निदेशक भा.प.अ.सं. इज्जतनगर <b>Dr R K Singh,</b> Member Secretary & Director, IVRI, Izatnagar
राष्ट्र गान <b>National Anthem</b>			
सभागार के समक्ष समूह चित्रण सत्र <b>Group Photo session in front of Auditorium</b>			
जलपान <b>Hi-Tea</b>			
सितम्बर 5, 2014 ;शुक्रवार <b>September 5, 2014 (Friday)</b>			
तकनीकी सत्र <b>TECHNICAL SESSION</b> स्थान : समिति कक्ष <b>Venue: Committee Room</b>			
1130 बजे 1130 hr	9 IX	21वीं क्षेत्रीय समिति संख्या 4 की बैठक जो कि भा.कृ.अनु.प.-आर सी ई आर, पटना में 21-22 सितम्बर 2012 को आयोजित की गई थी, उसमें की गई संस्तुतियों की कार्यवाही रिपोर्ट की प्रस्तुति <b>Presentation of the Action Taken</b> <b>Report</b> on the recommendations of the XXI Meeting of ICAR Regional Committee No. IV held from 21-22 September, 2012, ICAR-RCER, Patna	डा. आर के सिंह, सदस्य सचिव <b>Dr R K Singh, Member Secretary</b>
1240 बजे 1240 hr	10 X	नवीन विचारणीय मद <b>Fresh Agenda Items</b>	डा. आर. के. सिंह, सदस्य सचिव <b>Dr R K Singh, Member Secretary</b>

1250 बजे 1250 hr	11 XI	उत्तर प्रदेश में कृषि विकास की स्थिति <b>Status of Agricultural development in Uttar Pradesh</b>	प्रो. राजेन्द्र कुमार, महानिदेशक, उत्तर प्रदेश कृषि शोध परिषद <b>Prof Rajendra Kumar,</b> Director General, UPCAR
1300 बजे 1300 hr	दोपहर का भोजन <b>LUNCH</b>		
	12 XII	राज्यवार समस्याएँ, शोध की आवश्यकता एवं विकास मद <b>State-wise problems and research needs/development issues</b>	
1400 बजे 1400 hr	अ-1 A-I	बिहार राज्य की विकास समस्याएँ एवं शोध आवश्यकता पर वक्तव्य <b>Statement on development issues/research needs of Bihar</b>	कृषि उत्पादन आयुक्त/सचिव (कृ./उद्घ/प.पा./मत्स्य) एवं निदेशक (कृ./उद्घ/प.पा./मत्स्य/मुख्य व.सं.) बिहार सरकार APC/ Secretaries (Agri./ Hort./ AH/ Fisheries) and Directors of (Agri./ Hort./ AH./ Fishery/ Chief Conservator of Forests, Govt. of Bihar
1430 बजे 1430 hr	बी-1 B-I	बिहार में कृषि विश्वविद्यालयों की स्थिति तथा उपर्युक्त के प्रति कृत कार्यवाही <b>Status of the Agricultural Universities in Bihar and response to the above</b>	कुलपति /संकाय अधिष्ठाता/निदेशक प्रसार शिक्षा निदेशक शोध, आर ए यू पूसा, समस्तीपुर एवं बी ए यू साबौर भागलपुर VCs/ Deans/ DEEs/ Director of Research, RAU, Pusa, Samastipur and BAU Sabour, Bhagalpur
1515 बजे 1515 hr	अ-2 A-2	झारखण्ड की विकास एवं शोध आवश्यकता के मद पर वक्तव्य <b>Statement on development issues/ research needs of Jharkhand</b>	कृषि उत्पादन आयुक्त/सचिव (कृ./उद्घ/प.पा./मत्स्य) एवं निदेशक (कृ./उद्घ/प.पा./मत्स्य/मुख्य व.सं.) झारखण्ड सरकार APC/ Secretaries (Agri./ Hort./ AH/ Fisheries) and Directors of (Agri./ Hort./ AH./ Fishery/ Chief Conservator of Forests, Govt. of Jharkhand
1515 cts 1545 hr	बी-2 B-2	झारखण्ड में कृषि विश्वविद्यालयों की स्थिति तथा उपर्युक्त के प्रति कृत कार्यवाही <b>Status of the Agricultural University in Jharkhand and response to the above</b>	कुलपति /संकाय अधिष्ठाता/निदेशक प्रसार शिक्षा निदेशक शोध, एवं बी ए यू रांची VCs/ Deans/ DEEs/ Director of Research, BAU, Ranchi
1400 बजे 1600 hr	जलपान <b>TEA BREAK</b>		
1415 बजे 1615 hr	अ-3 A-3	उत्तर प्रदेश की विकास एवं शोध आवश्यकताएँ पर वक्तव्य <b>Statement on development issues/ research needs of Uttar Pradesh</b>	कृषि उत्पादन आयुक्त/सचिव (कृ./उद्घ/प.पा./मत्स्य) एवं निदेशक (कृ./उद्घ/प.पा./मत्स्य/मुख्य व.सं.) उत्तर प्रदेश सरकार APC/ Secretaries (Agri./ Hort./ AH/ Fisheries) and Directors of (Agri./ Hort./ AH./ Fishery/ Chief Conservator of Forests, Govt. of U.P.

1400 बजे 1645 hr	बी-3 B-3	उत्तर प्रदेश के कृषि विश्वविद्यालयों की स्थिति तथा उपर्युक्त के प्रति कृत कार्यवाही <b>Status of the Agricultural Universities in <u>Uttar Pradesh</u> and response to the above</b>	कुलपति /संकाय अधिष्ठाता/निदेशक प्रसार शिक्षा निदेशक शोध, नरेंद्र देव कृषि विश्वविद्यालय फैजाबाद, चंद्र शेखर आजाद कृषि विश्वविद्यालय कानपुर, सरदार वल्लभ भाई पटेल कृषि विश्वविद्यालय मेरठ, बी एच यू वाराणसी, डी यू वी ए एस यू मथुरा, एम एस के जे यू ए एवं टी, बांदा, सी ए यू झांसी, ए एम यू अलीगढ़, एस एच आई ए टी, इलाहाबाद एवं डी जी उपकार VCs/ Deans/ DEEs/ Director of Research, NDU&T, Faizabad, CSAUA&T Kanpur, SVP Univ. Agri., Meerut, BHU, Varanasi, DUVASU, Mathura, MSKJUA &T, Banda, CAU, Jhansi AMU, Aligarh, SHIAT, Allahabad and DG, UPCAR
सितम्बर 6, 2014 (शनिवार) <b>September 6, 2014 (Saturday)</b>			
830.915 बजे 830 -915 hr	एन बी एफ जी आर के एक्वेरियम का भ्रमण	<b>Visit to Aquarium at NBFGR</b>	
तकनीकी सत्र <b>TECHNICAL SESSION</b>			
0930 बजे 0930hr	बी-4 B-4	निदेशक भा.कृ.अनु.प., विभागाध्यक्ष/प्रभारी शोध केन्द्र	<b>Directors of ICAR Institute, Head/IC of Research Centers</b>
1130 बजे 1130hr	जलपान <b>TEA BREAK</b>		
1200 बजे 1200hr	विशिष्ट आगन्तुक द्वारा प्रस्तुति <b>Presentation by Special Invitees</b>		
1230 बजे 1230hr	भा.कृ.अनु.प. के सामान्य सभा के सदस्य/संगति द्वारा टिप्पणी <b>Remarks by ICAR GB/Society Members</b>		
1300 बजे 1300hr	दोपहर का भोजन <b>LUNCH</b>		
1330 बजे 1330hr	13 XIII	भारत सरकार के प्रतिनिधियों की अनुक्रिया <b>Response by representatives, Govt. of India</b>	
		1. फसल विज्ञान 1. Crop Sciences	उपमहानिदेशक ; फसल विज्ञान Deputy Director General (CS)
		2. उद्यान विज्ञान 2. Horticulture	उपमहानिदेशक ; उद्यान विज्ञान Deputy Director General (Horti)
		3. प्राकृतिक संसाधन प्रबंधन 3. Natural Resources Management	उपमहानिदेशक ; प्राकृतिक संसाधन प्रबंधन Deputy Director General (NRM)
		4. कृषि अभियांत्रिकी 4. Agricultural Engineering	उपमहानिदेशक ; कृषि अभियांत्रिकी Deputy Director General (Engg)
		5. पशु विज्ञान 5. Animal Sciences	उपमहानिदेशक ; पशु विज्ञान Deputy Director General (AS)
		6. कृषि शिक्षा 6. Agricultural Education	उपमहानिदेशक ; कृषि शिक्षा Deputy Director General (Edn)

		7. मत्स विज्ञान 7. Fisheries Sciences	उपमहानिदेशक ;मत्स विज्ञान Deputy Director General (FS)
		8. कृषि प्रसार 8. Agricultural Extension	उपमहानिदेशक ;कृषि प्रसार Deputy Director General (AE)
		9.आई पी एवं टी एम 9. IP&TM	सहायक महानिदेशक ;आई पी एवं टी एम ADG(IP&TM)
		10. पी आई एम 10. PIM	सहायक महानिदेशक ;पी आई एम ADG (PIM)
		11. डी के यम ए 11. DKMA	निदेशक ;डी के यम ए Director (DKMA)
विस्तृत सत्र <b>Plenary Session</b>			
1630बजे 1630hr	14 XIV	समापन अभ्युक्ति एवं कार्यवाही बिन्दु <b>Concluding Remarks and Action Points</b>	सचिव कृषि शोध एवं शिक्षा विभाग एवं महानिदेशक भा.कृ.अनु.प. <b>Secretary, DARE &amp; Director General, ICAR</b>
1700 बजे 1700hr	15 XV	धन्यवाद प्रस्ताव <b>Vote of thanks</b>	डा. शिव प्रसाद किमोठी, सहायक महानिदेशक ;समन्वयकद्ध भा.कृ.अनु.प. <b>Dr Shiv Prasad Kimothi</b> ADG (Coordination), ICAR



## Glimpses of XXII Regional Committee-IV Meeting at IISR, Lucknow

