PROCEEDINGS & RECOMMENDATIONS OF THE

XX MEETING OF ICAR REGIONAL COMMITTEE NO. IV (7--9 OCTOBER, 2010) BIRSA AGRICULTURAL UNIVERSITY, RANCHI

(Attendance: as per the list attached)

The XX Meeting of ICAR Regional Committee No IV comprising the states of Uttar Pradesh, Bihar & Jharkahnd was held at Birsa Agricultural University, Ranchi during 7-9 October, 2010. His Excellency Sh M O H Farook, Hon'ble Governor of Jharkahnd, inaugurated the meeting. The Hon'ble Governor in his address spoke on the role of technologies, infrastructure and policies suitable and compatible to rainfed agriculture as the agriculture in this part of the country is dependent on rains. He stressed the need for diversification in agriculture with emphasis on livestock, poultry, fisheries and horticulture. He cautioned that the seed replacement rate specially the hybrid seeds in eastern region is very poor and needs to be increased through establishment of seed processing units, capacity enhancements both for seed production and seed storage, seed conditioning and development of rural entrepreneurship in seed sector. He also spoke about the role of extension services especially the KVKs in making agriculture more remunerative for the farmers. Sri A K Singh, Secretary, Agriculture, Govt. of Jharkhand also spoke on the needs of agriculture particularly in Jharkhand. His concerns were mainly the soil erosion, availability of quality seed on time and poor productivity in crops and livestock. He stressed that the resources need to be channalised in right direction so as to harness the full potential of agriculture sector in this region. Swami Shashankananda, Secretary, Sri Ramkrishna Mission Ashrama Divyayan Krishi Vigyan Kendra, Ranchi, also spoke on the occasion. He stressed on the training of youth on agriculture who for the want of jobs wander and waste their energies in unfruitful activities. Their energies need to be directed for the development of agriculture through proper training, for which KVKs are ideally suited. He revealed that the youth in the villages can be retained in agricultural field if their knowledge of agriculture is recognized as diploma or certificates as special course and their income through that particular self-reliant project fetches them a good income better than what they can get by wage employment anywhere else. Dr N N Singh, Vice Chancellor of the BAU welcomed the delegates and spoke on the challenges for the agriculture sector in these states. Dr S Ayyappan, Secretary DARE and Director General, ICAR chaired the meeting.

The Chairman welcomed the delegates from various organizations. In his opening remarks, he expressed his displeasure on the absence of the Vice-Chancellors of SAUs as only one Vice-Chancellor (Birsa Agricultural University) was present and rest were represented by the Directors of Extension/ Research etc. He emphasized that the ICAR Regional Committee Meeting concept envisages better coordination between ICAR and State Agricultural agencies especially the SAUs and the line departments. The Chairman also highlighted the need for sincere, timely and efficient reporting of the action taken reports on the recommendations of the regional committee meetings and other information for developing the appropriate agenda, technological packages in a timely manner. He highlighted, labour shortages can be met by developing suitable farm implements for small scale farmers. Also, good practices need multiplications as quickly as possible. The Dryland Agriculture should be on focus as also indicated by the Prime Minister. There is an urgent need to develop technologies for Dryland Agriculture and their demonstration to farmers. The ICAR institute and SAUs should attach great priority to technology development for the dryland situations and the line departments should make efforts to take these technologies to the farmers. The labour shortage is increasing day be day and therefore, there is need to develop farm implements which can reduce the dependence on the human labour especially in case of small farms.

The concern on the poor response from the states was also raised by Mr. L Rynjah, Senior consultant to Planning Commission and Shri Sudhir Bhargava, ICAR Governing Body Member. Dr. Arvind Kumar, Deputy Director General (Education) also raised concern about the lack of response from the SAUs especially on model Act and notification. The progress on these matters is highly unsatisfactory especially in case of Uttar Pradesh, The DDG remarked. The DG informed the house that from the council a letter would be sent to the Principal Secretary of each state regarding poor participation of states in ICAR regional committee meetings.

The deliberations during 7-8th October led to several action points which are presented as under:

Action Point-1: The state agencies should respond to action points emerged from the regional committee meetings on time and they should provide information on the agricultural development initiatives taken by them and constraints they face in transfer of technologies. The state agencies including the SAUs can act as the ideal source of farmer feed-back on the technologies. Their correct and timely reporting would help streamline the technology

development and transfer process. (Action: Directors of Agriculture, Line Departments, SAUs).

Action Point-2: Dryland Agriculture is an area of high priority. The technologies need to be developed and demonstrated to farmers. The farm implements suited to small farming operations are required to be developed to meet out the labour shortages which is on the increase. Each institute and SAU should develop inventory of technologies suitable for dryland conditions. (**ICAR Institutes, SAUs**).

Dr. M.C. Sharma, Member Secretary presented the Action Taken Report on the recommendations of the XIX Meeting of ICAR Regional Committee No IV held at IIVR, Varanasi during November 21-22, 2008.

Discussion: The non-availability of quality seed material was discussed in detail. The concern was raised about fodder seed production. Shri Sudhir Bhargava said India is importing Barseem Seed from Egypt, why we cannot produce seed ourselves? Dy. Director General (AS) said, seed from Egypt may be cheaper, just like wool from New Zealand. The Chairman remarked that AICRP (Forage crops), IGFRI & DDG (AS) should make need assessment of fodder seeds for livestock and also the quantity of seed needed. It was decided that DDG (AS) will make a presentation on this aspect and DSR and AICRP (Forage Crops) will have to come out with the modality of ensuring the seed of all the major crops, especially the fodder seed availability is a matter of serious concern. The DDG(Crops) and Shri Bhargava said that not only for fodder seed but also we should have assessment of seed requirement for all major crops so that the appropriate action plan is made.

Action Point-3: Need assessment of Fodder seed requirement and modality of its availability to farmers (Action: DDG (AS), ICAR, DSR, Mau, AICRP (Forage Crops) and IGFRI, Jhansi).

Discussion: The Chairman remarked that efforts should be made to consolidate resources rather than having so many centres even within a state (for instance, Centre of Excellence on Biotechnology). It is needed that the centers are well equipped with facilities. Namesake institutions are counterproductive. Also, he emphasized that the agenda notes should not be taken to make a case for seeking for funding that Regional Committee discussed the matter so funds may be given. Each state or even inter-state collaboration is needed in setting up the research facilities of some standards rather than having a large number of centers without facilities. Duplication of research is not required. When we recommend things, we have to be specific, not in general. Recommendation No. 3 which says basic research in biotech,

physiology, and biochemistry may be done is very general in nature. In XII Plan, we are not giving sanction for new Centers but would prefer streamlining of existing centers. It was stressed that while submitting proposal for new institutions/centres, it must be seen that already such facilities are not there in the concerned states, as it duplicates the efforts, costing more, and also precious resources are wasted. It was reported that Bihar is facing problem in getting the license from DBT for Biotechnology work. DDG(CS) informed that there would not be any problem, if required information is submitted as per the DBT format given in the DBT website. It was advised that the prescribed guidelines may be followed, to get the license.

Action Point 4: Makhana harvesting is a complicated procedure requiring lot of efforts and time. So, a machine should be developed for Makhana harvesting in three months time. (Action: R C Makhana, ICAR-RCER, Patna and CIPHET, Ludhiana).

Action Point 5: Seed processing labs to be created and strengthened at DSR, CIPHET. (Action: DSR, CIPHET, DDG (Engg.)

Discussion: Discussion on upgrading of BSL-3 to BSL-4 lab at IVRI, Bhopal took place. Director IVRI asked for the establishment of facility at Izatnagar Campus, but DG as well as DDG(AS) agreed for sanction of Rs. 15 Crore at Bhopal Centre of IVRI. Shri Sudhir Bhargava pointed out that why this work got delayed this much?

Action Point 6: The ICAR will sanction Rs 15 Crore for upgradation of BSL-3 lab to BSL-4 at Bhopal Centre of IVRI. The work in this direction needed to be carried out on priority. (**Action: IVRI, DDG (AS)**)

Action Point 7: Dr. D. Swarup, Director (CIRG) will visit Bihar and see the status of animal disease diagnostic labs (110 established as reported by the Joint Director, AH, Bihar) in terms of facilities / infrastructure / staff. Can these diagnostic labs cater the needs of Bihar state? (Director, CIRG, Director (AH), Bihar).

Discussion: The Chairman observed that some states/SAUs have reported about the breeds which are not concerned with the respective states. Only relevant action point should be reported. Action Points should be properly responded, not casually.

While responding to the presentation of SAUs who were making case for more funds flow from centre, the Chairman as well as DDG (AS) questioned the viability of new colleges especially the veterinary college in UP when the existing colleges are starving of funds and staff. Moreover, there is a Veterinary University in U.P. It was suggested that

rather than opening new colleges, the existing colleges should be strengthened with facilities and staff. Some of the departments in SAUs are running without or a single faculty, which is detrimental to objective of good quality education in agriculture sector.

Discussion: In mineral mapping work, Jharkhand & Bihar are not responding. Vice-Chancellor, Birsa Agricultural University said lack of staff is the major constraint in attending to this work. PD Cattle was advised that it should not work on this aspect as it is not its mandate. DDG(AS) should streamline this work in consultation with other relevant departments and institutes. The Director, IVRI said that despite the concept of Area Specific Mineral Mixture (ASMM), farmers are feeding general mineral mixture, the state agencies need to be sensitized on this issue. Responding to action point (C-5) in the previous proceedings, it was decided that there is no need to work on *Azolla*, especially in those aspects of Azolla where already lot of information is available.

Action Point 8: Utility of Linseed cake for milch cattle should be evaluated and work should be completed in 6 months. A consolidated report should be prepared to conclusively explain the utility of linseed cake for milch cattle.(**Action:PD Cattle, IVRI**).

Discussion: The Chairman remarked in general that while submitting proposals to funding agencies, it should not be written that Director General said this in the meeting so we are submitting the project, as we are getting the feeling regarding response from Director (Research) of SVPUA&T, Meerut. It is a matter of concern that most of the posts of Director Extension, Director Research in SAUs are not filled up by regular appointees. Some of them are working on acting basis, even for over 5 years. The SAUs should take this matter seriously, as it is not in the interest of the development in the long run. It was felt that the Trainees' feedback is important to improve the effectiveness of training programmes. An efficient mechanism need to be worked out to ensure the feedback from trainees. All the training organizing institutions be it SAUs, ICAR institutes or line departments should endeavour to take feedback from the trainees so that efficacy of these training could be increased subsequently.

The states should focus on only the breed suitable to the respecticve states as recommended by the concerned development department as per the State breeding policy. So, Frieswal, Sahiwal, Tharparkar are suitable for UP but not Haryana breed which is already on the decline. Director (IVRI) said that Tharparkar and Vrindavani are good breeds for UP and IVRI can provide help on this Matter.

Action Point 9: The Director, IVRI & PDC, Meerut and Director (AH), UP may call a meeting to discuss the matter concerning the appropriate cattle breeds and prepare the action plan for UP. (Action: IVRI, PDC, ADG (Animal Breeding) & Director (AH), UP).

Action Point 10: The manpower requirement for Veterinary services in each State is required to be assessed. The state Directors of Animal Husbandry should make assessment of manpower in the respective states and also suggest the modality to meet this requirement through various mechanisms like Public-Private partnership, contracting services to private sector etc. (Action: Director (AH) of UP, Bihar, Jharkhand).

AGRICULTURAL EDUCATION: 1. Dr Arvind Kumar, DDG (Education), ICAR expressed serious concern about the status of agricultural education in SAUs of the member states of the region. He was of the view that SAUs do not provide information in timely manner. He pointed out the SAUs in UP are particularly negligent on this aspect.

- 2. AMU requested permission for intake in UG (Agriculture), as it already has PG programme in agriculture and it is quite old and a Central University like BHU, where UG programme in agriculture is already in vogue.
- 3. DDG (Education) appreciated the document prepared by BHU and included in the Agenda Notes which provides objective information about staff, funds and infrastructure. Other Universities should also come up with the similar documents so that proper picture emerges. These universities should submit their proposals with full details in objective manner duly cleared and approved by the concerned bodies of these universities, so that ICAR can take appropriate action regarding the approval from ICAR, if required.
- 4. The DDG (Edu) also said that the ICAR is ready to discuss the matters concerning agricultural education with UP authorities, let it be on any date as the lack of co-ordination is a matter of serious concern especially in UP. Also, U.P. has lot of affiliated colleges imparting Agricultural education, which are highly deficient in facilities required. This state need to discuss the matter at state level and formulate the action plan and submit to ICAR. Dr O P Singh, Director (Extension) informed the house that Principal Secretary Agriculture, UP has already called a meeting next month to decide on these issues.

Action Point 11: ZPD, Kolkata reported that the RAU has not constructed the Farmers' Hostel despite sanction of funds. RAU responded that they would start the work in one week. (**Action VC, RAU**)

Dr. A.K. Singh, ZPD, Kolkata reported that Problem of unspent budget in RAU is a serious problem and Soil testing labs are not established despite sanction of funds. The university responded by saying that the funds are only for establishing the labs not for the posts of Lab technicians. It was suggested that the university can make internal arrangement like redeployment of staff which can be trained in soil testing.

On the request of SAMETI and A. H. Department in Bihar, it was suggested that if required, SAMETI & A H Departments can appoint 'Kisan Mitra' (3000) in 38 districts which may be supported by ICAR in a phased manner.

Action Point 12: CARI should also work on bird species like ostrich and Emu in XII Plan (Action: Director, CARI).

Goat Cheese (Mozzarella) was projected as a very good option to promote goat milk products during ht epresentation of CIRG, Makhdoom.

Action Point 13: The CIRG should augment its activities to promote goat milk products including cheese (**Action : Director, CIRG**).

Action Point 14: CIRG should identify 50 potential KVKs and help them in setting up goat units as demonstration centers for goat farming. (**Action: Director, CIRG**)

Discussion: The Chairman said KVKs are face of ICAR but many KVKs are not clear about the mandate. This issue would be discussed during KVK Meet later this year at Udaipur.

DDG (AS) said that BAU has done well on piggery but no satisfactory response on other projects on species like poultry and goats. He remarked that nothing is reported on these species, no one attend meeting, no report submitted except piggery. VC agreed for the lapse and assured things will improve.

Action Point 15: Birsa Agricultural University, besides pigs, will pay attention to other livestock species like goat, poultry, Murrah Buffalo and it will be reflected in their reporting and participation in activities concerning these livestock species hitherto neglected by the university. (**Action : V. C., BAU**)

Fisheries in Jharkhand: An impressive scenario of fisheries potential and development work was presented by Director, Fisheries, Jharkhand. Considering the scope of fisheries in Jharkhand, it was requested that-

1. Establishment of fisheries college in BAU

- 2. A Fisheries Centre of ICAR should be opened in Jharkhand
- 3. More budget for fisheries extension activities

The Chairman appreciated the presentation.

The Chairman as well as Sri Bhargava emphasized that ICAR institutes when presenting their report should speak on issues and constraints concerning the member states rather than speaking in general about the work being carried out by them. It is observed that these institutes tend to present the Annual Report of their organization, rather than being focused on the problems, issues and possibilities concerning the member states vis a vis the respective institutions. For instance, any institute might b engaged in lot many activities but here it is important what this institute has done or can do for the development in the member states.

The Chairman remarked about the productivity of sugarcane, which is very low in UP, Bihar & Jharkhand compared to Tamil Nadu. Director, IISR said work is being done in this direction by pre-poning the date of planting and developing suitable varieties for these states. Sri Bhargva pointed out that export of mango pulp is better option than export of fresh fruits, work should be done on this aspect.

Discussion: On behalf of Director, IGFRI, Dr Farooqui presented the report. The scarcity of fodder in the country was considered an area requiring suitable interventions. It was pointed out during the discussion to delineate the area and economics of forage production in UP, Bihar & Jharkhand. A list of remunerative varieties of fodder may be prepared according to the agro-climatic zones. It was also advised to select hundred KVKs for FLD under forage production, wherein, farmers may be demonstrated the use of wasteland for forage production. The report of above work may be submitted within a month and it should be presented in the meeting on 15th November, 2010.

Action Point 16: Delineate the area and economics of forage production. A list of remunerative varieties of fodder may be Prepared according to the agro-climatic zones. Select hundred KVKs for FLD under forage production, wherein, farmers may be demonstrated the use of wasteland for forage production. The report of above work may be submitted within a month and it should be presented in the meeting on 15th Nov., 2010. (**Action : Director IGFRI and PC Forage Crops**)

Action Point 17: Proactive collaborations and linkages of IIPR with the institutions like ICRISAT are needed for enhancing the pulse productivity in the country. An exhaustive

status report on the demonstrations laid by the IIPR in the farmers' field must be prepared and submitted to the council at the earliest. (Action: Director IIPR, Kanpur).

Action Point 18: Dr O.P. Singh, Director, Extension, SVPUA&T, Meerut suggested that good quality seeds of various varieties of pulses may be distributed in the form of mini packets (1-2 Kg.) to each KVK as per the agro-climatic zone for its demonstration at KVK farms for wider adoption, which was accepted by the chairmen and members. (**Action: Director IIPR**)

Discussion: Director DIPA emphasized on the publication of the articles/folders/leaflets on control of problems of pod borer in pulses for wider publicity to make aware the farming community.

IIPR informed the house that they have developed a variety of *mungbean* which is early maturing (44 days), yielding 8-10 q /ha, but it will take time due to procedural requirements of the variety release. To this, DDG (Education) remarked that if the variety is so good, a mechanism need to be developed to go straight for recommending the new variety of mungbean or other such varieties for wider adoption in view of profitability. However, the availability of seeds must be ensured.

Action Point 19: The IIPR should multiply and make available the seeds of early maturing variety of Mungbean (44 days) developed by them. ((**Action: Director IIPR**).

The Chairman emphasized on inclusion of pulse production as one of the major priority areas in the next perspective plan of ICAR and allocation of more inputs and funds under it.

Detailed discussion was held on vegetable price rise, post harvest losses, increased use of pesticide in vegetables and its residual effects on human health. It was pointed out to develop the human resources, infrastructure, etc for quality monitoring and use of biopesticides.

Action Point 20: Regarding the issue of increased use of injecting chemicals in vegetables and fruits and their impact on human health, the chairman desired to have collaborations with ICMR. (**Action: Director, IIVR**)

Director Extension, SVPUA&T revealed the constraints of non availability of the vegetable seeds in the KVKs.

Action Point 20: The Chairman asked the Director, IIVR to distribute the seeds of newly released varieties to each KVK to develop the vegetable cafeteria at their demonstration

farms since availability of seeds of the new varieties is a major problem for popularizing the new varieties in their respective agro climatic zones. (Action: Director IIVR)

The Chairman also emphasized on enhancing the area of vegetable production and its productivity in the country. Vegetable production as one of the priority areas need more fund allocation for research on vegetables to develop new varieties.

Action Point 21: Package of practices of vegetable cultivation should be developed through forging linkages and collaborations between the state departments, universities and ICAR institutions. (Action: IIVR, SAU and State Department of Agriculture/Horticulture)

On the presentation of ICAR Research Complex for Eastern Region, Patna, major discussion was held about managing the problem of acidic and sodic soil in the region. It was decided to prepare the districtwise maps depicting the geographical area of the ICAR-RCER, Patna along with package of practices in varied climatic conditions which may be presented during the meeting to be held on 15.12.2010. National Director, NAIP also emphasized on development of package of practices to be followed by the farming community during sudden / drastic change in climate conditions

Action Point 22: A meeting may be arranged with stakeholders of the region at Patna, followed by another meeting exclusively with the representatives of Jharkhand and SAUs to deal with the problems of acidic soil, soil erosion and soil conservation. Strategies for Water management must also be worked out on priority. (**Action: Director, RCER. Patna**)

Action Point 23: DDG (AS) emphasized to initiate the livestock development activities for this region at the RCER, Patna in collaboration with IVRI and other animal science institutions and state departments of animal husbandry, since the livestock component is poorly attended at this centre.

 $(Action:\ Director\mbox{-}ICAR\mbox{-}\ RCER,\ Patna,\ \ IVRI,\ Izatnagar,\ CSWRI,\ CIRG\ and line\ departments\).$

Action Point 24: On the presentation of IINR & G, Ranchi, the Chairman desired to have data on tribals engaged in Lac cultivation and their dependence on Lac for livelihood. Also, institute should try to explore the possibilities of linkages and collaboration internationally and with Ministry of Environment and Forest for Lac production. Chairman also desired to plan and hold a National level meeting of Entomologists to deal with the

problems of insects in Lac production and intimate accordingly. (Action: Director -IINR & G)

Action Point 25: The Chairman emphasized that the NRC on Litchi, Muzaffarpur should put more efforts on post harvest technology and also development of a practical protocol for preparation wine from Litchi. The concerns were raised to deal with the major problems of insects and borer in litchi production. This Centre should also focus research on increasing the keeping quality of litchi using sulpher and other methods. In response to quarry of Dr. Bhargava for increasing the area under litchi production in different geographical region, the DDG (Horticulture) replied that the work in this area has already been initiated in different climatic Zones. In these areas, extra efforts are required for its production using micro-irrigation, drip-irrigation and shade netting practices etc for increase in weight and reducing the percentage of damage in the fruit. The Chairman remarked to workout the regionwise area under litchi production in India. (Action: Director, NRC Litchi)

Action Point 26: The Chairman stressed to develop an evaluation approach of agroforestry system for reclamation of wasteland in the three states. Demonstrate the technologies for increasing per unit fodder production through region specific technologies on oil borne trees. Two to there scientists from the centre may be engaged exclusively to work on identification of trees having more oil content. For this, collaborations and linkages may be established with forest department for wider coverage. (Action: Director, NRC Agroforestry and forest department)

Action Point 27: During the presentation of Project Directorate for Farming System Research, Modipuram, the Chairman desired to develop and implement a Farming system based model for Jharkhand region at the earliest. The economic feasibility and sustainability of the model may be worked out and feedback must be submitted within two years time. Also, site specific nutrients and water requirement should be addressed. (Action: Director, PDFSR and VC BAU)

Action Point 28: The matter concerning number of varieties in each crop was discussed in detail during the presentation of DSR, Mau. DDG (Crop Science) remarked to reduce /minimize the number of varieties. Old and obsolete varieties may be denotfied. Try to delineate regionwise ten to fifteen varieties only for each crop and also some of the

varieties of local importance which are showing good yield, impact and performance under farmers' field for recommendation to increase crop productivity and sustainability. DDG also asked the Director, DSR that a copy of such varieties must be circulated to state department of agriculture, etc. House was also of the opinion to assess and prepare a database on cropwise seed requirement of the country. (Action: Director, DSR, Mau)

Report of Project Directorate on Cattle, Meerut was presented by the Director PDC, Meerut. In the beginning, the Chairman asked the status of crystoscope under field situation developed by IVRI. On this, Director IVRI told that it is being used well by the state departments of animal husbandry of UP, Uttarakhand and Gujarat. **Action Point 29:** The Chairman desired that crystoscope may be popularized in Bihar and Jharkhand through KVKs and paravets. He also stressed to upgrade the *Chota Nagpuri* cattle breed by crossing programme with sahiwal and popularization of buffalo especially Murrah breed in Jharkhand.

(Action: Director, PDC and VC BAU, VC of RAU, and State Department of AH in Bihar and Jharkhand).

Action Point 30: The House discussed at length on the status and use of Sperm sexing machine. The Chairman desired the feedback on this machine. On this, Director, PDC clarified that there is only one machine in West Bengal, only few animals come and they still were not able to detect the sex. The technology and methodology is available in this area but validation of this machine is still needed. The Chairman asked to explore the possibility of purchasing this machine on priority, use and asses the performance. DDG (Animal Science) assured the chairman that this machine will be purchased within this financial year and he is in touch with the manufacturers. At least five scientists from PDC and related institutes may be trained in this area on priority. (Action: Director PD Cattle and DDG (AS), ICAR)

Some of the action points also emerged during the presentations of the AICRPs and regional stations of ICAR, which are as follows:

- 1. The work on location specific inter- cropping of linseed with sugarcane may be initiated.(Action: AICRP on Linseed, Kanpur)
- 2. Not all varieties of Lathyrus but only those varieties of Lathyrus to cultivate and popularize exclusively which are approved and recommended by IIPR and SAUs to increase the area and production. (Action: AICRP MullaRP, Kanpur)

- 3. House felt to have more demonstrations through KVKs to popularize for wider adoption of varieties of Mango performing well at the centre especially *Totapari*, *Amrapali* and *Mallika*. (Action: AICRP and ZPD UP and Kolkata)
- 4. Chairman remarked on the performance of AICRP on sugarcane regarding varieties of Sugarcane developed by it. The AICRP (Sugarcane) is one of the oldest AICRPs yet its performance in terms of varieties developed by it is not satisfactory. He pointed out that the universities are not taking the varieties of sugarcane recommended by AICRP. The reasons should be identified. A meeting for this may be arranged by inviting all concerned and specific reasons must be delineated out why AICRP varieties are not coming up in terms of contribution and utilization. (Action: AICRP (Sugarcane), DDG (Crop Science) and SAUs).

The Station -in charge, CS&WCR&TI, Agra explained the constraints of the center and asked for funds to construct the boundary wall, it being a remote area full of dacoit infested ravines. The Chairman stressed that centre should work on reclamation of ravines through introduction of agro-forestry system in the regions as per its mandate. (Action: Station In-charge, CS& WCR& TI, Agra).

5. The Chairman showed his unhappiness about the progress of Central Inland Fisheries Research Institute, Regional Center, Allahabad. He directed the DDG (Fisheries) to visit and submit the status report.

(Action: Station Incharge CIFRI regional center and DDG (Fisheries), ICAR).

6. Location specific farming systems models should be developed and field-tested by SAUs and Directorate for Farming Systems Research. The efficiency of the already developed models may be evaluated through systematic studies, for which, the research component needs to be strengthened.

(Action: PDFSR, SAUs, ICAR Institutes).

The Chairman invited the DDGs, ADGs and other members for their remarks:

ADG (PIM) requested to all the Directors and VCs for timely submission of regionwise ZTM-BPD unit report and stressed for participation of these units in *Kisan Mela* etc to popularize the region specific technologies. He also asked the input for completion of annual reports individually and combined. However, the compilation must be lean and crisp. He appreciated the working and progress of ZTM/BPD of IVRI, BAU, Pantnagar, IARI etc.

Director DIPA informed the initiatives of the council with respect to upscaling of the services of ICT in Agriculture research and development. Council has started epublishing and Open access of two important journals of ICAR. Popular article may be submitted on- line and asked for contribution of scientists as author as well as reviewer for the publications of ICAR. He informed that the ICAR publication division has made whole process electronic, right from submission, dispatch, publication etc. Process of publicity of accomplishment of NARS institutions through mass media, electronic media, road show and circulation of ICAR newsletters etc has been started. Uniform email id of all scientists, technical officers, and administrative officers will be started very soon so he requested to submit the information of their respective institutions at the earliest. He also informed that Centralized secured data center has been started for bringing all the ICAR institutions and SAUs under one umbrella at IASRI. Very recently project on bioinformatics has been started at IASRI. Now ICAR programmes are also regularly available on Krishi Darshan and AIR. Director DIPA requested to the house to share knowledge and have more publicity of achievements through electronic media by submitting the information to the publication Division. The success story for entire segments must be submitted for wider publicity and follow-up.

The Chairman expressed his happiness on the achievements of DIPA and requested the institutions, to prepare and submit a film of their institutes of 8-10 minutes duration and submit to the council those not yet submitted. He also stressed to submit one page passport information of each scientist for permis net. Website of each Institute must be completed on priority.

• ADG, PIM informed the house regarding the status of AP cess fund projects sanctioned in UP and Bihar long back i.e. 87-88 and 89 and completed in 1991,92 and 94 for which project reports and AUC of projects report, amount unspent under the project etc are still pending with them inspite of the several reminders. He informed that universities and PIs of projects are not responding to the reminders through the postal letters, fax, phone, emails. He again requested to the SAUs to submit these documents to the council immediately. The Chairman also expressed his unhappiness regarding no response of the letters of the council by the universities and non submission of the reports and AUC and intimation of left over balance to the council. In case of non response, he cautioned that the council would be bound to deduct the sanctioned money of the project from the grant of concerned

institutions/SAU. The Chairman also requested to Education division of ICAR to deduct the pending money of all projects of other divisions.

- ADG (Coordination) requested to SAUs and Institutes to submit the applications for ICAR awards especially Sardar Vallabh Bhai Patel award for best institution to make it healthy competition.
- ADG (AS) Dr. S C Gupta expressed his concern regarding non institution of breeding policy and also characterization of the local breeds especially in UP in spite of sensitizing the state departments on this aspect. So he requested to representatives of the three states to develop and implement proper breeding policy giving due emphasis to indigenous breeds in the region.
- National Director, NAIP presented the status of NAIP projects in the region and showed his dissatisfaction regarding the number of projects in these three states from where not many competitive projects are being received. Even no single project proposal has been received from several institutions, thus, this is a matter of great concern he informed the house. Due to the fact that good work is going on in IVRI, BAU, IIT Kanpur and good technologies are emerging out of these projects, the scope is for more projects in these states. He showed his concern for non-submission of timely report, SOE and AUC of NAIP funded projects and cautioned that PIs would not be able to utilize the funds, even though they have, if reports are not submitted within the stipulated time. He informed the house that the circular has already been issued in this regard. Upgrading of the projects in November was the another issue stressed by National Director, NAIP to bring the projects in the satisfactory category for which submission of the project report in time is essential. Under component three, selection of interventions are not based on the scientific basis without any choice so interventions should be according to scientific analysis based on the district priority and agro climatic zones to make it more sustainable. He also pointed out that whatsoever manpower is trained in specific areas, should be utilized properly and must be informed to the council. The Chairman also emphasized to upgrade the project to bring it to the satisfactory level and also change to two to three specific need based rural livelihood interventions under component III. Introduce change, if needed now. He also informed that a number of oversees trainings are available wherein lot of manpower is to be trained apart from winter and summer schools by

- the end March 2011 so all Directors were asked to nominate the scientists as many as possible liberally, send the list without any biasness. This scheme is under NARS, so SAUs and ICAR institute both can avail the scheme for training of manpower.
- DDG (Education) expressed his concern about the lack of quality publication emerging from the thesis work of PG students, less number of applications being received for schemes under scientists emeritus and national fellow. He also spoke on inbreeding of students and inbreeding of faculty. They are not moving from one place to another. RAWE programme and Experiential learning are not showing good He emphasized that new proposal on experiential learning may be results. developed and submitted after visiting the other states /universities, which are performing well on these aspects. Universities should also give emphasis on skill development apart from the knowledge for quality and real education, for which experiential learning is best. Lack of faculty is another issue that may be taken up by including adjunct faculty, guest faculty and faculty induction program of retired members from the same or other institutions. He advised to develop a faculty bank by the universities and educational institutions, wherein, scientists from center/institutes of ICAR/SAUs may also be included. Many ICAR institutes have good number of well trained scientists which can also serve as faculty in SAUs, but are not considered by the SAUs despite they are having acute shortage of faculty. The SAUs may consider scientists of ICAR institutes for teaching, guide/ co guide etc to meet the requirement of the faculty. The Education division is having funds, so he urged the SAUs and ICAR institutes to send the applications for the quality projects, National Fellow, National Professor, Scientist Emeritus etc. Proposal must be explanatory and complete. Regarding RKVY, the amount of money received by these states must be furnished. HRD was especifically emphasized.
- The DDG (Education), also stressed that council must be informed regarding development of new centers, courses and curriculum by the universities in time. Applications may be submitted in niche area. Coordination mechanism among the various state agriculture universities need to be strengthened especially in UP. Encourage potential applicants for the international fellowship programme introduced by the ICAR. Also, create the infrastructure and international hostels in each universities. Take the special care of foreign students for their admission and monitor the progress and problems closely.
- DDG (Fisheries) appreciated the work of NBFGR Lucknow on fish diversity and genetic resources. Bihar and Jharkhand states may take the advantage of this. She

- emphasized to organize more training and awareness programs on fisheries and deployment of trained manpower to the KVK.
- DDG (Engg) informed about the availability of suitable designs/equipments/machine for small farms. However, sensitization, awareness and motivation is required by state department/KVK for development of the market. Also emphasized on proper utilization of draft animal and energy.
- DDG (Horticulture) stated that collaboration among the department of Horticulture in the universities is quite weak. It needs more attention on diversification. Farmers should be motivated in vegetable and fruit production due to smallholdings. He showed serious concern over the production and quality of fruits due to climate change and suggested for use of optional technologies like micro irrigation. Location specificity and need of the farmer should be kept in mind for horticultural interventions.
- DDG (NRM) showed his concern over acidic soil and water management /conservation, problem of arsenic and fluoride toxicity. He suggested continuing the work on tolerant materials and reclamation of soil through agro-forestry system. He informed about the agro-advisory services and GPS based macro and micronutrient based maps.
- DDG (CS) emphasized on implementation/translation of knowledge for increasing /up scaling the crop productivity. He was concerned over achieving the self-sufficiency in agricultural production particularly in pulse and oilseeds. He proposed the concept of modeling with a view to develop models for each crop in prevailing conditions of a particular area. Entire documentation is required and that can be utilized to understand which crop under what condition and situations is doing best so that it can be replicated in rest of the country. He also emphasized on development of a big project on forage crops. He informed about the reduction in the area of upland rice in country which is being replaced by horticulture and medicinal plants. He also emphasized on focused research on biotechnology and monitoring of insects and pests.
- Director IVRI, emphasized on inter- disciplinary approach on research.
- The chairman, in his concluding remarks emphasized on the soil reclamation, small farm mechanization, climate change and its effect on post harvest value addition and human resource development.
- The meeting ended with vote of thanks by Dr. Ravindra Kumar ADG (Coordination),
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XX MEETING OF ICAR REGIONAL COMMITTEE NO IV

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6	Dr Arvind Kumar	DDG (Edn)
7	Dr. K.D. Kokate	DDG (Ext)
8	Dr S.K. Datta	DDG (Crops)
9	Dr. V.V. Sadamate	Adviser, Planning Commission
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11	Dr. H.P. Singh	DDG Horticulture
12	Dr Gorakh Singh	Comm, Hort, GOI
13	Dr M. M. Pandey	DDG Eng, ICAR
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15	Dr. N.N. Singh	VC,BAU Ranchi
16	Dr. Bangali Baboo	Director, NAIP
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147 Dr. D.K.Singh KVK, Meerut 148 Dr. Laxmi Kant PC, KVK, Budhnagar 149 Dr. P.K.Singh PC, Saharanpur 150 Dr. D.P.Singh PC, KVK, Pilibhit 151 Dr. R.K.Singh PC, KVK, Rampur 152 Dr. Balraj Singh PC, KVK, Maradabad 153 Dr. K.V. Singh PC, KVK, Badaun 154 Dr. M.P.Singh PC, KVK, Mau 155 Dr. V. Dvivedi PC, KVK, Ghazipur 156 Dr. R.K.Singh PC, KVK, IISR, Lucknow	145	Dr. R.R. Singh	PC, KVK, Barabanki
148 Dr. Laxmi Kant PC, KVK, Budhnagar 149 Dr. P.K.Singh PC, Saharanpur 150 Dr. D.P.Singh PC, KVK, Pilibhit 151 Dr. R.K.Singh PC, KVK, Rampur 152 Dr. Balraj Singh PC, KVK, Maradabad 153 Dr. K.V. Singh PC, KVK, Badaun 154 Dr. M.P.Singh PC, KVK, Mau 155 Dr. V. Dvivedi PC, KVK, Ghazipur 156 Dr. R.K.Singh PC, KVK, IISR, Lucknow	146	Dr. Mukund Voriar	CRURRS-CRRI, Hazaribag
149 Dr. P.K.Singh PC, Saharanpur 150 Dr. D.P.Singh PC, KVK, Pilibhit 151 Dr. R.K.Singh PC, KVK, Rampur 152 Dr. Balraj Singh PC, KVK, Maradabad 153 Dr. K.V. Singh PC, KVK, Badaun 154 Dr. M.P.Singh PC, KVK, Mau 155 Dr. V. Dvivedi PC, KVK, Ghazipur 156 Dr. R.K.Singh PC, KVK, IISR, Lucknow	147	Dr. D.K.Singh	KVK, Meerut
150 Dr. D.P.Singh PC, KVK, Pilibhit 151 Dr. R.K.Singh PC, KVK, Rampur 152 Dr. Balraj Singh PC, KVK, Maradabad 153 Dr. K.V. Singh PC, KVK, Badaun 154 Dr. M.P.Singh PC, KVK, Mau 155 Dr. V. Dvivedi PC, KVK, Ghazipur 156 Dr. R.K.Singh PC, KVK, IISR, Lucknow	148	Dr. Laxmi Kant	PC, KVK, Budhnagar
151 Dr. R.K.Singh PC, KVK, Rampur 152 Dr. Balraj Singh PC, KVK, Maradabad 153 Dr. K.V. Singh PC, KVK, Badaun 154 Dr. M.P.Singh PC, KVK, Mau 155 Dr. V. Dvivedi PC, KVK, Ghazipur 156 Dr. R.K.Singh PC, KVK, IISR, Lucknow	149	Dr. P.K.Singh	PC, Saharanpur
152 Dr. Balraj Singh PC, KVK, Maradabad 153 Dr. K.V. Singh PC, KVK, Badaun 154 Dr. M.P.Singh PC, KVK, Mau 155 Dr. V. Dvivedi PC, KVK, Ghazipur 156 Dr. R.K.Singh PC, KVK, IISR, Lucknow	150	Dr. D.P.Singh	PC, KVK, Pilibhit
153 Dr. K.V. Singh PC, KVK, Badaun 154 Dr. M.P.Singh PC, KVK, Mau 155 Dr. V. Dvivedi PC, KVK, Ghazipur 156 Dr. R.K.Singh PC, KVK, IISR, Lucknow	151	Dr. R.K.Singh	PC, KVK, Rampur
154 Dr. M.P.Singh PC, KVK, Mau 155 Dr. V. Dvivedi PC, KVK, Ghazipur 156 Dr. R.K.Singh PC, KVK, IISR, Lucknow	152	Dr. Balraj Singh	PC, KVK, Maradabad
155 Dr. V. Dvivedi PC, KVK, Ghazipur 156 Dr. R.K.Singh PC, KVK, IISR, Lucknow	153	Dr. K.V. Singh	PC, KVK, Badaun
156 Dr. R.K.Singh PC, KVK, IISR, Lucknow	154	Dr. M.P.Singh	PC, KVK, Mau
	155	Dr. V. Dvivedi	PC, KVK, Ghazipur
157 Dr. Suresh Singh PC, Sitapur	156	Dr. R.K.Singh	PC, KVK, IISR, Lucknow
	157	Dr. Suresh Singh	PC, Sitapur

158	Dr. Shiv Ram Singh	KVK, Barkachka, Mirzapur
159	Dr. L.B. Singh	PC, KVK, Shahzahanpur
160	Dr. S.K.Singh	PC, KVK, Unnao
161	Dr. A.K.Chauhan	PC, KVK, Lalitpur
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162	Dr. M.P.Singh	SMS, KVK Kaushanabi
163	Dr. Anant Kumar	SMS, KVK, Auraiya
164	Dr. A.K.Srivastava	PC, KVK, Pratapgarh
165	Dr. A.K. Dubey	PC, KVK, Kushinagar
166	Dr. A.K.Chaturvedi	PC, KVK, Kushinagar
167	Dr. A. Ranjan Kumar	PC, KVK, IIVR, Deoria
168	Dr. S.D. Pandey	Pr. Scientist, NRC, Litchi
169	Dr. R.K.Singh	I/c KVK, Fatehpur
170	Dr. R.P.Singh	I/c KVK Aligarh
171	Dr. Tej Prakash	PC. KVK, Firozabad
172	Dr. A. K. Singh	PC, KVK Mahamayanagar
173	Dr. V.K. Kanaujia	PC, KVK Kannoj
174	Mr. Mahesh Chandra Jerai	SMS, KVK Lalihan
175	Dr.Arvind Kr Singh	PC, KVK, Kanpur Dehat
176	Dr.V.K.Singh	PC, KVK, Koderna
177	Dr. Ravi Shankar	PC, KVK Godda
178	Mr. Manglanand Jha	SMS, Madhubani
179	Dr. P. Chatterjee	PC, KVK, Madhubani
180	Dr. Umesh Singh	PC, KVK, Patna
181	Dr. S.N. Rai	PC, KVK,Kaimour
182	Dr. R. N. Singh	PC, KVK, Jamui
183	Er. S.K. Mishra	PC. KVK, Nawada
184	Dr. (Mrs.) Sailabala	PC, KVK, Jehanabad
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Dr. Vinod Kumar PC, KVK, Nalanda RVK, Begusarai R	185	Dr. A.K.Sinha	SMS, Jehanabad
188 Dr. Jyoti Sinha PC, KVK, Gaya 189 Dr. Shobha Rani PC, KVK, Muzaffarpur 190 Dr. Devendra Kumar PC, KVK, E. Champaran 191 Dr. S.N. Singh PC, KVK, West Champaran 192 Dr. Paras Nath PC, KVK, Supaul 193 Dr. Sudhir Das PC, KVK, Samastipur 194 Dr. Sanjay Kumar PC, KVK, Darbhanga 195 Dr. Binod Kumar PC, KVK, Bhagalpur 196 Dr. K. M. Singh PC, KVK, Arwal 197 Dr. B. Shahi PC, KVK, Vaishali 198 Dr. Kinkar SMS, KVK, Sitamarhi 199 Dr. Anand Singh PC, KVK, Sitamarhi 190 Dr. Binod Kr. Singh SMS, KVK, Munger 201 Dr. Shambhu Roy PC, KVK, Lakhisarai 203 Dr. Reyaz Ahmed PC, KVK, Saharsa 204 Dr. C.N. Choudhary PC, KVK, Saharsa 205 Dr. V. K. Jaiswal PC, KVK, Purnia 206 Dr. V. K. Mishra PC, KVK, Sheohar 207 Dr. R.K. Mandal PC, KVK, Sheohar 208 Mr. Pankaj Kumar SMS, KVK Katihar 209 Dr. A.K. Sah PC, KVK, Gopalganj 211 Dr. Jitendra Singh I/C KVK, Banda	186	Dr. Vinod Kumar	PC, KVK, Nalanda
189 Dr. Shobha Rani PC, KVK, Muzaffarpur 190 Dr. Devendra Kumar PC, KVK, E. Champaran 191 Dr. S.N. Singh PC, KVK, West Champaran 192 Dr. Paras Nath PC, KVK, Supaul 193 Dr. Sanjay Kumar PC, KVK, Darbhanga 194 Dr. Sanjay Kumar PC, KVK, Darbhanga 195 Dr. Binod Kumar PC, KVK, Bhagalpur 196 Dr. K. M. Singh PC, KVK, Arwal 197 Dr. B. Shahi PC, KVK, Vaishali 198 Dr. Kinkar SMS, KVK, Sitamarhi 199 Dr. Anand Singh PC, KVK, Sitamarhi 190 Dr. Binod Kr. Singh SMS, KVK, Munger 200 Dr. Binod Kr. Singh SMS, KVK, Shaikhpur 201 Dr. Reyaz Ahmed PC, KVK, Shaikhpur 202 Dr. C.N. Choudhary PC, KVK, Saharsa 205 Dr. V. K. Jaiswal PC, KVK, Purnia 206 Dr. V. K. Mishra PC, KVK, Sheohar 207 Dr. R.K. Mandal PC, KVK, Sheohar 208 Mr. Pankaj Kumar SMS, KVK Katihar 209 Dr. A.K.Sah PC, KVK, Gopalganj 201 Dr. Jitendra Singh VC KVK, Banda	187	Dr. Ramnandan	KVK, Begusarai
190 Dr. Devendra Kumar PC, KVK, E. Champaran 191 Dr. S.N. Singh PC, KVK, West Champaran 192 Dr. Paras Nath PC, KVK, Supaul 193 Dr. Sudhir Das PC, KVK, Samastipur 194 Dr. Sanjay Kumar PC, KVK, Darbhanga 195 Dr. Binod Kumar PC, KVK, Bhagalpur 196 Dr. K. M. Singh PC, KVK, Arwal 197 Dr. B. Shahi PC, KVK, Vaishali 198 Dr. Kinkar SMS, KVK, Sitamarhi 199 Dr. Anand Singh PC, KVK, Sitamarhi 190 Dr. Binod Kr. Singh SMS, KVK, Munger 201 Dr. Binod Kr. Singh SMS, KVK, Shaikhpur 202 Dr. Reyaz Ahmed PC, KVK, Saharsa 203 Dr. Reyaz Ahmed PC, KVK, Saharsa 204 Dr. C.N. Choudhary PC, KVK, Saharsa 205 Dr. V. K. Jaiswal PC, KVK, Madhepura 206 Dr. V. K. Mishra PC, KVK, Sheohar 207 Dr. R.K. Mandal PC, KVK, Sheohar 208 Mr. Pankaj Kumar SMS, KVK Katihar 209 Dr. A.K.Sah PC, KVK, Gopalganj 201 Dr. Jitendra Singh VC KVK, Banda	188	Dr. Jyoti Sinha	PC, KVK, Gaya
191 Dr. S.N. Singh PC, KVK, West Champaran 192 Dr. Paras Nath PC, KVK, Supaul 193 Dr. Sudhir Das PC, KVK, Samastipur 194 Dr. Sanjay Kumar PC, KVK, Darbhanga 195 Dr. Binod Kumar PC, KVK, Bhagalpur 196 Dr. K. M. Singh PC, KVK, Arwal 197 Dr. B. Shahi PC, KVK, Vaishali 198 Dr. Kinkar SMS, KVK, Sitamarhi 199 Dr. Anand Singh PC, KVK, Sitamarhi 190 Dr. Binod Kr. Singh SMS, KVK, Munger 201 Dr. Shambhu Roy PC, KVK, Lakhisarai 203 Dr. Reyaz Ahmed PC, KVK, Shaikhpur 204 Dr. C.N. Choudhary PC, KVK, Shaikhpur 205 Dr. V. K. Jaiswal PC, KVK, Madhepura 206 Dr. V. K. Mishra PC, KVK, Purnia 207 Dr. R.K. Mandal PC, KVK, Sheohar 208 Mr. Pankaj Kumar SMS, KVK Katihar 209 Dr. A.K.Sah PC, KVK, Gopalganj 201 Dr. Bitendra Singh PC, KVK, Banda	189	Dr. Shobha Rani	PC, KVK, Muzaffarpur
192 Dr. Paras Nath PC, KVK, Supaul 193 Dr. Sudhir Das PC, KVK, Samastipur 194 Dr. Sanjay Kumar PC, KVK, Darbhanga 195 Dr. Binod Kumar PC, KVK, Bhagalpur 196 Dr. K. M. Singh PC, KVK, Arwal 197 Dr. B. Shahi PC, KVK, Vaishali 198 Dr. Kinkar SMS, KVK, Sitamarhi 199 Dr. Anand Singh PC, KVK, Sitamarhi 199 Dr. Anand Singh PC, KVK, Sitamarhi 200 Dr. Binod Kr. Singh SMS, KVK, Munger 201 Dr. Shambhu Roy PC, KVK, Lakhisarai 203 Dr. Reyaz Ahmed PC, KVK, Shaikhpur 204 Dr. C.N. Choudhary PC, KVK, Saharsa 205 Dr. V.K. Jaiswal PC, KVK, Madhepura 206 Dr. V. K. Mishra PC, KVK, Purnia 207 Dr. R.K. Mandal PC, KVK, Sheohar 208 Mr. Pankaj Kumar SMS, KVK Katihar 209 Dr. A.K.Sah PC, KVK, Banda 210 Dr. Reyoz Ahmad PC, KVK, Banda	190	Dr. Devendra Kumar	PC, KVK, E. Champaran
193 Dr. Sudhir Das PC, KVK, Samastipur 194 Dr. Sanjay Kumar PC, KVK, Darbhanga 195 Dr. Binod Kumar PC, KVK, Bhagalpur 196 Dr. K. M. Singh PC, KVK, Arwal 197 Dr. B. Shahi PC, KVK, Vaishali 198 Dr. Kinkar SMS, KVK, Sitamarhi 199 Dr. Anand Singh PC, KVK, Sitamarhi 200 Dr. Binod Kr. Singh SMS, KVK, Munger 201 Dr. Shambhu Roy PC, KVK, Lakhisarai 203 Dr. Reyaz Ahmed PC, KVK, Shaikhpur 204 Dr. C.N. Choudhary PC, KVK, Saharsa 205 Dr. V. K. Jaiswal PC, KVK, Madhepura 206 Dr. V. K. Mishra PC, KVK, Purnia 207 Dr. R.K. Mandal PC, KVK, Sheohar 208 Mr. Pankaj Kumar SMS, KVK, Karia 209 Dr. A.K.Sah PC, KVK, Gopalganj 210 Dr. Reyoz Ahmad PC, KVK, Banda	191	Dr. S.N. Singh	PC, KVK, West Champaran
194 Dr. Sanjay Kumar PC, KVK, Darbhanga 195 Dr. Binod Kumar PC, KVK, Bhagalpur 196 Dr. K. M. Singh PC, KVK, Arwal 197 Dr. B. Shahi PC, KVK, Vaishali 198 Dr. Kinkar SMS, KVK, Sitamarhi 199 Dr. Anand Singh PC, KVK, Sitamarhi 200 Dr. Binod Kr. Singh SMS, KVK, Munger 201 Dr. Shambhu Roy PC, KVK, Lakhisarai 203 Dr. Reyaz Ahmed PC, KVK, Saharsa 204 Dr. C.N. Choudhary PC, KVK, Saharsa 205 Dr. V.K. Jaiswal PC, KVK, Madhepura 206 Dr. V. K. Mishra PC, KVK, Purnia 207 Dr. R.K. Mandal PC, KVK, Sheohar 208 Mr. Pankaj Kumar SMS, KVK, Katihar 209 Dr. A.K.Sah PC, KVK, Gopalganj 211 Dr. Jitendra Singh J/C KVK, Banda	192	Dr. Paras Nath	PC, KVK, Supaul
195 Dr. Binod Kumar PC, KVK, Bhagalpur 196 Dr. K. M. Singh PC, KVK, Arwal 197 Dr. B. Shahi PC, KVK, Vaishali 198 Dr. Kinkar SMS, KVK, Sitamarhi 199 Dr. Anand Singh PC, KVK, Sitamarhi 200 Dr. Binod Kr. Singh SMS, KVK, Munger 201 Dr. Shambhu Roy PC, KVK, Lakhisarai 203 Dr. Reyaz Ahmed PC, KVK, Shaikhpur 204 Dr. C.N. Choudhary PC, KVK, Saharsa 205 Dr. V.K. Jaiswal PC, KVK, Madhepura 206 Dr. V. K. Mishra PC, KVK, Purnia 207 Dr. R.K. Mandal PC, KVK, Sheohar 208 Mr. Pankaj Kumar SMS, KVK Katihar 209 Dr. A.K.Sah PC, KVK, Gopalganj 211 Dr. Jitendra Singh I/C KVK, Banda	193	Dr. Sudhir Das	PC, KVK, Samastipur
196 Dr. K. M. Singh PC, KVK, Arwal 197 Dr. B. Shahi PC, KVK, Vaishali 198 Dr. Kinkar SMS, KVK, Sitamarhi 199 Dr. Anand Singh PC, KVK, Sitamarhi 200 Dr. Binod Kr. Singh SMS, KVK, Munger 201 Dr. Shambhu Roy PC, KVK, Lakhisarai 203 Dr. Reyaz Ahmed PC, KVK, Shaikhpur 204 Dr. C.N. Choudhary PC, KVK, Saharsa 205 Dr. V.K.Jaiswal PC, KVK, Madhepura 206 Dr. V. K. Mishra PC, KVK, Purnia 207 Dr. R.K. Mandal PC, KVK, Sheohar 208 Mr. Pankaj Kumar SMS, KVK Katihar 209 Dr. A.K.Sah PC, KVK, Gopalganj 211 Dr. Jitendra Singh I/C KVK, Banda	194	Dr. Sanjay Kumar	PC, KVK, Darbhanga
197 Dr. B. Shahi PC, KVK, Vaishali 198 Dr. Kinkar SMS, KVK, Sitamarhi 199 Dr. Anand Singh PC, KVK, Sitamarhi 200 Dr. Binod Kr. Singh SMS, KVK, Munger 201 Dr. Shambhu Roy PC, KVK, Lakhisarai 203 Dr. Reyaz Ahmed PC, KVK, Shaikhpur 204 Dr. C.N. Choudhary PC, KVK, Saharsa 205 Dr. V.K. Jaiswal PC, KVK, Madhepura 206 Dr. V. K. Mishra PC, KVK, Purnia 207 Dr. R.K. Mandal PC, KVK, Sheohar 208 Mr. Pankaj Kumar SMS, KVK Katihar 209 Dr. A.K.Sah PC, KVK, Gopalganj 210 Dr. Reyoz Ahmad PC, KVK, Banda	195	Dr. Binod Kumar	PC, KVK, Bhagalpur
198 Dr. Kinkar SMS, KVK, Sitamarhi 199 Dr. Anand Singh PC, KVK, Sitamarhi 200 Dr. Binod Kr. Singh SMS, KVK, Munger 201 Dr. Shambhu Roy PC, KVK, Lakhisarai 203 Dr. Reyaz Ahmed PC, KVK, Shaikhpur 204 Dr. C.N. Choudhary PC, KVK, Saharsa 205 Dr. V.K.Jaiswal PC, KVK, Madhepura 206 Dr. V. K. Mishra PC, KVK, Purnia 207 Dr. R.K. Mandal PC, KVK, Sheohar 208 Mr. Pankaj Kumar SMS, KVK Katihar 209 Dr. A.K.Sah PC, KVK, Araria 210 Dr. Reyoz Ahmad PC, KVK, Banda 211 Dr. Jitendra Singh I/C KVK, Banda	196	Dr. K. M .Singh	PC, KVK, Arwal
199 Dr. Anand Singh PC, KVK, Sitamarhi 200 Dr. Binod Kr. Singh SMS, KVK, Munger 201 Dr. Shambhu Roy PC, KVK, Lakhisarai 203 Dr. Reyaz Ahmed PC, KVK, Shaikhpur 204 Dr. C.N. Choudhary PC, KVK, Saharsa 205 Dr. V.K.Jaiswal PC, KVK, Madhepura 206 Dr. V. K. Mishra PC, KVK, Purnia 207 Dr. R.K. Mandal PC, KVK, Sheohar 208 Mr. Pankaj Kumar SMS, KVK Katihar 209 Dr. A.K.Sah PC, KVK, Gopalganj 210 Dr. Reyoz Ahmad PC, KVK, Banda	197	Dr. B. Shahi	PC, KVK, Vaishali
200 Dr. Binod Kr. Singh SMS, KVK, Munger 201 Dr. Shambhu Roy PC, KVK, Lakhisarai 203 Dr. Reyaz Ahmed PC, KVK, Shaikhpur 204 Dr. C.N. Choudhary PC, KVK, Saharsa 205 Dr. V.K. Jaiswal PC, KVK, Madhepura 206 Dr. V. K. Mishra PC, KVK, Purnia 207 Dr. R.K. Mandal PC, KVK, Sheohar 208 Mr. Pankaj Kumar SMS, KVK Katihar 209 Dr. A.K.Sah PC, KVK, Araria 210 Dr. Reyoz Ahmad PC, KVK, Banda 211 Dr. Jitendra Singh I/C KVK, Banda	198	Dr. Kinkar	SMS, KVK, Sitamarhi
201 Dr. Shambhu Roy PC, KVK, Lakhisarai 203 Dr. Reyaz Ahmed PC, KVK, Shaikhpur 204 Dr. C.N. Choudhary PC, KVK, Saharsa 205 Dr. V.K.Jaiswal PC, KVK, Madhepura 206 Dr. V. K. Mishra PC, KVK, Purnia 207 Dr. R.K. Mandal PC, KVK, Sheohar 208 Mr. Pankaj Kumar SMS, KVK Katihar 209 Dr. A.K.Sah PC, KVK, Araria 210 Dr. Reyoz Ahmad PC, KVK, Banda	199	Dr. Anand Singh	PC, KVK, Sitamarhi
203 Dr. Reyaz Ahmed PC, KVK, Shaikhpur 204 Dr. C.N. Choudhary PC, KVK, Saharsa 205 Dr. V.K.Jaiswal PC, KVK, Madhepura 206 Dr. V. K. Mishra PC, KVK, Purnia 207 Dr. R.K. Mandal PC, KVK, Sheohar 208 Mr. Pankaj Kumar SMS, KVK Katihar 209 Dr. A.K.Sah PC, KVK, Araria 210 Dr. Reyoz Ahmad PC, KVK, Banda 211 Dr. Jitendra Singh I/C KVK, Banda	200	Dr. Binod Kr. Singh	SMS, KVK, Munger
204 Dr. C.N. Choudhary PC, KVK, Saharsa 205 Dr. V.K.Jaiswal PC, KVK, Madhepura 206 Dr. V. K. Mishra PC, KVK, Purnia 207 Dr. R.K. Mandal PC, KVK, Sheohar 208 Mr. Pankaj Kumar SMS, KVK Katihar 209 Dr. A.K.Sah PC, KVK, Araria 210 Dr. Reyoz Ahmad PC, KVK, Gopalganj 211 Dr. Jitendra Singh I/C KVK, Banda	201	Dr. Shambhu Roy	PC, KVK, Lakhisarai
205 Dr. V.K.Jaiswal PC, KVK, Madhepura 206 Dr. V. K. Mishra PC, KVK, Purnia 207 Dr. R.K. Mandal PC, KVK, Sheohar 208 Mr. Pankaj Kumar SMS, KVK Katihar 209 Dr. A.K.Sah PC, KVK, Araria 210 Dr. Reyoz Ahmad PC, KVK, Gopalganj 211 Dr. Jitendra Singh I/C KVK, Banda	203	Dr. Reyaz Ahmed	PC, KVK, Shaikhpur
206 Dr. V. K. Mishra PC, KVK, Purnia 207 Dr. R.K. Mandal PC, KVK, Sheohar 208 Mr. Pankaj Kumar SMS, KVK Katihar 209 Dr. A.K.Sah PC, KVK, Araria 210 Dr. Reyoz Ahmad PC, KVK, Gopalganj 211 Dr. Jitendra Singh I/C KVK, Banda	204	Dr. C.N. Choudhary	PC, KVK, Saharsa
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208 Mr. Pankaj Kumar SMS, KVK Katihar 209 Dr. A.K.Sah PC, KVK, Araria 210 Dr. Reyoz Ahmad PC, KVK, Gopalganj 211 Dr. Jitendra Singh I/C KVK, Banda	206	Dr. V. K. Mishra	PC, KVK, Purnia
209 Dr. A.K.Sah PC, KVK, Araria 210 Dr. Reyoz Ahmad PC, KVK, Gopalganj 211 Dr. Jitendra Singh I/C KVK, Banda	207	Dr. R.K. Mandal	PC, KVK, Sheohar
210 Dr. Reyoz Ahmad PC, KVK, Gopalganj 211 Dr. Jitendra Singh I/C KVK, Banda	208	Mr. Pankaj Kumar	SMS, KVK Katihar
211 Dr. Jitendra Singh I/C KVK, Banda	209	Dr. A.K.Sah	PC, KVK, Araria
	210	Dr. Reyoz Ahmad	PC, KVK, Gopalganj
212 Dr. M.K.Singh I/c KVK Hamirpur	211	Dr. Jitendra Singh	I/C KVK, Banda
	212	Dr. M.K.Singh	I/c KVK Hamirpur

213	Dr. Ram Pakesh	PC, KVK Farrukabad
214	Dr. O.P. Verma	SMS, KVK, Rai bareili
215	Dr. V. K. Sharma	PC, KVK, Belatul Mahoba
216	Dr. S.K.Vishwakarma	PC, KVK Lakhimpur Kheri
217	Dr. Sushil Kumar	PC, KVK, Jalaun
218	Dr. Nishi Roy	PC, KVK, Jhansi
219	Dr. S.K. Mohan	Sr. Scientist, ZRS
220	Dr. Nitynand	I/C KVK Aurangabad
221	Dr. Manoj Kumar	SMS, KVK Banka
222	Dr. D. Kumar	I/C KVK, Buxar, ICAR-RCER
223	Dr. M.P.Singh	PC, KVK, Balia –U.P.
224	Dr. T.A. More	Director, IIVR, Vasranasi.