चन्द्रशेखर आजाद कृषि एवं प्रौद्योगिक विश्वविद्यालय, कानपुर 208002
Chandra Shekhar Azad University of Agriculture &Technology, Kanpur 08002
Directorate of Research शोध निदेशालय

193

NO.....32...../DR/ 2016
Dated: 22/04/016

Circular

Departmental Research Advisory Committee and Zonal Research Extension Advisory Committee meetings will be held as per schedule given below to discuss and finalize research programmes of *Kharif*, 2016. The schedule of dates should be adhered to.

S.N	Faculty/Discipline	Date & Time
A.	**Faculty of Agriculture**	
1	Crop Physiology	10-05-2016 at 10:30 AM
2	Horticulture	11-05-2016 at 10:30 AM
3	Animal Husbandry and Dairying	13-05-2016 at 10:30 AM
4	Entomology	16-05-2016 at 10:30 AM
5	Pathology	17-05-2016 at 10:30 AM
6	**ZREAC Central Plain Zone Daleepnagar**	18-05-2016 at 10.30 AM
7	Agronomy	19-05-2016 at 10:30 AM
8	**ZREAC of Bundelkhand Zone, Bharari Jhansi**	23-05-2016 at 10:30 AM
9	Agril. Economics	25-05-2016 at 10.30 AM
10	Agril. Biochemistry	27-05-2016 at 10.30 AM
11	Agriculture Extension	28-05-2016 at 10:30 AM
12	**ZREAC South Western Semi Arid Zone, Kalai Aligarh**	30-05-2016 at 10:30 AM
13	Soil Conservation & Water management and Forestry	02-06-2016 at 10.30 AM
14	Soil Science and Agril. Chemistry, Micro Biology	04-06-2016 at 10.30 AM
15	Seed Science & Technology	06-06-2016 at 10:30 AM
16	Vegetable Science	08-06-2016 at 10.30 AM
17	Genetics and Plant Breeding, bio-Technology	09-06-2016 at 10.30 AM
B.	**Faculty of Home Science**	
1	Food Science & Nutrition	11-06-2016 at 10.30 AM
2	Family Resource Management	
3	Extension Communication & Management	
4	Human Development	
5	Textile & Clothing	
C.	**Faculty of Agril. Engineering**	14-06-2016 at 10.30 AM

18/4/2016

(H.G. Prakash)
Director Research

Copy forwarded to following for information and necessary action.

1. HOD(s)/Incharge of all Departments with request to please inform all the scientists working on subject concern along with KVK scientists.
2. Incharges Rabi cereals, Oilseeds, Pulses and Vegetable Section
3. Officer Incharge of all NARP Research Stations
4. Incharge Cotton, Rice, Tobacco, Maize, Groundnut and Sesame
5. Director Seed & Farms
6. Director Extension with request to please inform to Programme Coordinator of all KVKs of the Zone to ensure the participation in ZREAC meetings.
7. Dean, Faculty of Agriculture
8. Dean, Faculty of Home Science
9. Dean, Faculty of Engineering
10. T S to V C for kind information of Hon'ble Vice Chancellor.
11. Guard file Directorate of Research

18/4/2016

(H.G. Prakash)
Director Research

Department of Agricultural Biochemistry

C.S. Azad University of Agriculture and Technology, Kanpur

PROCEEDINGS OF RAC-KHARIF 2016-17

No. ABC- 150 **/2016** **Dated:** 12/7/16

The RAC-*Kharif* 2016-17 of agricultural Biochemistry was held on 11/07/2016 in the department under the Chairmanship of Director Research .The following scientists participated in the meeting:

Directorate of Agricultural Experiment Station
Diary No. 971./DRI../16...
Date..12/07/2016.
C.S. Azad University of Agriculture and Technology, Kanpur

1. Dr. Har Gyan Prakash,Director Research
2. Dr.Madhu Vajpeyi,HOD ,ABC
3. Dr.D.R. Singh,Prof. Entomology
4. Dr.P.N.Yadav,Prof.SCWM
5. Dr.C.L.Maurya,HOD,Seed Technology
6. Dr.Ramchandra,HOD,Agrl. Economics & Statistics
7. Dr. R.K.Pandey,Asst.Prof. Directorate of Research
8. Dr. S.B. Pandey,Asst. Chemist,Soil Science & Agrl. Chemistry
9. Dr. Lallu Singh, Prof. Agrl. Biochemistry
10. Dr. Rakesh Babu, Asst. Prof. /Asst. Chemist-Legumes
11. Dr. Nand Kumar, Asst. Prof. /Rice Biochemist
12. Dr. S.P. Kushwaha, Asst. PErof.,Crop Physiology

There were three programmes. The following decisions were taken regarding the execution of experiments:

- Experiment No. 1 was was approved with the remark that instead of early and late varieties ,it should be designated as short duration and long duration maturing varieties.The scientist was advised to contact persons at IIPR regarding maschine for dahl recovery for submitting a demand for its purchase to DIR.
- Experiment No. 2 was was approved with the remark that number of samples for branded and unbranded samples should be same and should be of same variety e.g. Basmati branded and basmati unbranded.Insted of test weight it should be 1000 kernel weight
- Experiment No. 3 was was approved as such.Iwas suggested that infuture varieties from other universities and hybrid varieties should also be tested.

The meeting ended with a vote of thanks .

VDR 13/7/16 Dr. R.K. Pandey N.A. 15/7/16

(Madhu Vajpeyi)

HOD

No & dated as above

C.C.to

Sri Manoj Mishra 12/7/16

1.Director Research, C S A U, Kanpur

2.Dean, College of Agriculture

Proceeding of Research Advisory Committee Meeting of Agronomy for *Kharif*-2016

The Research Advisory Committee meeting of the Dept of Agronomy was held on 26.05.2016 under the Chairmanship of Dr. Karam Husain, Head, Department of Agronomy for finalizing the research programme of ***Kharif*, 2016** in committee room of the department of Agronomy, C. S. Azad University of Agriculture & Technology, Kanpur.

The following officers/ scientists were present:

S.No.	Name	Designation
1.	Dr. Rajendra Prasad	Dean, College of Agriculture
2.	Dr. Karam Husain	Head, Dept of Agronomy and Chairman
3.	Dr. C.L.Maurya	Head, Dept of Seed Science & Technology
4.	Dr. D.D.Yadav	Professor, Dept of Agronomy
5.	Dr. Lallu	Head, Dept of Crop Physiology
6.	Ram Chandra Verma	Head Dept of Agril-Economics & Statitics
7.	Dr. Sanjeev Kumar	Professor, Dept of Agronomy
8.	Dr. Ram Pyare	-do-
9.	Dr. Ram Ashish Yadav	Professor, Agronomy (EBR Section)
10.	Dr. A. K. Srivastava	Associate Professor, Dept of Agronomy
11.	Dr. M. Z. Siddiqui	-do-
12.	Dr. Naushad Khan	-do-
13.	Dr. S.K.Srivastava	Associate Professor, Agronomy (Castor Scheme)
14.	Dr. Jagdish Kumar	Associate Professor, Agronomy (Cotton Scheme)
15.	Dr. S.K.Uttam	Associate Professor, (Soil Cons. & Water Mgt.)
16.	Dr. Y.K. Singh	Assistant Professor, (Integrated Farming System)
17.	Dr. Rajveer Singh	Assistant Professor, EBR Section
18.	Dr. Mohd. Aslam	Assistant Professor, Crop Physiology
19.	Dr. A.P. Dubey	Assistant Professor (Agro-meteorology)
20.	Dr. Uma Shankar Tiwari	Assistant Professor, (Integrated Farming System)
21.	Dr. A. K. Tripathi	Assistant Professor, Dept of Agronomy
22.	Sri Vishram Singh	Assistant Professor, Dept of Agronomy
23.	Shri Raj Veer Singh	Assistant Professor DST
24.	Dr. Rajiv	Jr. Agronomist, Vegtable Section
25.	Dr. S.P. Kushwaha	Assistant Professor, Crop Physiology
26.	Dr. R.K. Pandey	Assistant Professor, Directorate of Research
27.	Dr. Moh. Shamim	Assistant Professor, Directorate of Research
28.	Dr. S.B. Pandey	Assistant Chemist, Soil Sc. & Agric. Chemistry
29.	Mr. Akhilesh Chandra Yadav	Ph.D. Student, Agronomy
30.	Mr. Girish Goyal	Ph.D. Student, Agronomy
31.	Mr. Gautam Veer Chauhan	Ph.D. Student, Agronomy

Meeting started with the welcome address of the Chairman, Dr Karam Husain. Dr. Husain welcomed all the participants of different departments of the university as well as

special guest Dr. V. Singh Ex Head, Dept of Agronomy. In his welcome address Dr Husain emphasized to take up the need based research keeping in mind the challenges to provide food and fibre to the growing population of the country along with nutritional security. He also pointed out that emerging challenges includes climate change, availability of quality seed, water availability, energy needs etc. which must be considered effectively for sustainable production. He exhorted the agronomist to formulate their research programmes on the basis of farmers' feedback and keeping in view the regional priorities.

Dr. Singh, Ex Head also emphasized need based research as well as the need of integration of scientists of different disciplines to carry out result oriented research. He suggested the scientists to reorient their research so as to increase the production of pulses which is the main source of protein in vegetarian diet and its price is increasing day by day due to its poor production. He emphasized the need to develop variety which survives under aberrant weather condition without impairing yield and quality of the produce. He also gave emphasis that research should be farmers need based rather than traditional one. The research should be based on farming system research.

Dean, College of Agriculture also stressed upon need based research and corroborated the suggestion of Dr V. Singh. He emphasized the role of agronomist in present context of climate change and need of climate resilient farming to cope up the requirements of increasing population without deteriorating the natural habitat.

At the end chairman advised the scientists to pool their wisdom in depth with enthusiasm and do in-depth discussion to formulate the strategies for elevating sustainable agriculture production. He felt confidence on scientists of varied back grounds, experience and knowledge to address the matters that is lying before the nation.

Review of previous meeting

The proceeding of previous RAC meeting held on 16th June, 2015 and circulated to members vide letter no. AGR/EN-305B dated 9st July, 2015 was reviewed. Since, there was no communication received from any members hence the proceeding is confirmed.

Chairman reviewed the progress of decisions of previous meeting one by one and discussed about the reason of shortfall in few cases. He gave appropriate suggestions and advised to prepare compliance report timely.

Discussion on Research Programme

All the research programmes were presented on power point. All the scientists/in-charge of the projects/schemes presented their programme one by one, which were discussed at length. The decision taken is here as under:

AICRP on Agro-meteorology

Dr. A.P. Dubey, Agro-meteorologist presented the research findings of *Kharif* 2015 and technical programme for *Kharif* 2016. Weekly initial probability of 20 mm or more wet [P(w)] followed by wet week [P(w/w)] and dry week [(P(w/d)] using 45 years' rainfall data This indicate that a short duration *Kharif* crop can be grown during 25 to 37 meteorological weeks being higher chances of getting adequate amount of moisture at critical stage of rain fed crops. Thus, crop sown during 25 to 27th Standard Meteorological Weeks (SMW) would not suffer from moisture stress during crop period, if crop duration is 80- 95 days. As short duration pulses are very sensitive to rainfall particularly at flowering stage, therefore experiments should be planned to decide the optimum sowing period for Urd and Mung during *Kharif* season,

Crop weather calendar of medium duration rice crop for Kanpur showed that mean temperature 28-30°C, RH 80-90% and cloudiness conditions or > 30 mm rainfall at tillering stage are favourable conditions for infestation of Bacterial Blight, while 32-35°C maximum and 22-25°C minimum atmospheric temperature with 75-80% RH at panicle initiation stage are congenial weather conditions for the infestation of Gandhi Bug.

Exp. No. 1: Studies on paddy- wheat cropping system in relation to weather.

The results were discussed and experiment will be continued.

Action: Agro-meteorologist

Agromet Advisory Services (AAS) under GMS:

Sri Rajveer Singh presented the economic impact of agro-advisory service during *Kharif* season of 2014-15. Further he stated about the results and achievement of Forecasting of Agricultural output using Space Agro-meteorology and Land based observation (FASAL).

Exp. No. 1: Starting of Experimental Agro-meteorological Advisory Services.

Shri Raj Veer Singh presented the result and experiment will be continued.

Action: Technical Officer, DST

AICRP on Cotton

Technical programme of cotton was presented by Dr. Jagdish Kumar, Agronomist Cotton Scheme (ICAR). He presented the results of two experiments and introduced one new experiment.

Exp. No. 1: Deweloping suitable Agronomy for *hirsutum* variety of the region.

Results of the experiment was presented and discussed. Experiment will be continued.

Action: Cotton Agronomist

Exp. No. 2: Technology for organic cotton (arboretum) production.

Results of the experiment was presented and discussed. Experiment will be continued.

Action: Cotton Agronomist

Exp. No.3: Studies on agronomic performance of *arboretum* and *hirsutum* cotton under HDPS (New Experiment).

Experiments was discussed and approved as such.

Action: Cotton Agronomist

AICRP on Castor

Technical programme of castor was presented by Dr. S. K. Srivastava, Castor Agronomist. He presented results of two experiments and introduced one new experiment.

Exp. No. 1: Integrated weed management in Castor.

Results of the experiment was presented and discussed. Experiment will be continued.

Action: Castor Agronomist

Exp. No. 2: Comparative efficacy of PSB and bio-phos on the performance of Castor.

Results of the experiments was presented and discussed. Experiment will be continued.

Action: Castor Agronomist

Exp. No. 3: Effect of nitrogen splitting on the performance of Castor in relation to plant geometry (New Experiment).

The experiment was discussed and approved.

Action: Castor Agronomist

He also conducted three IVH and AVHT trials and reported data.

AICRP on Pigeon pea

Technical programme of pigeon-pea could not be presented because Dr Akhilesh Mishra, Agronomist, Pigeon-pea was out of station to attend the Annual Group Meeting of *Kharif* pulses. It was decided that he will present the programme later on.

Now the technical programme for Kharif-2016 has been received from Dr. Akhilesh Mishra, Scientist (Agronomy) and Legume section. This programme has already been approved in group meeting. Therefore, it has also been included in the research programme.

AICRP on Rice

Technical programme of rice was not presented by concerned scientist.

Now the technical programme for Kharif-2016 has been received. This programme has already been approved in group meeting. Therefore, it has also been included in the research programme.

Rice (Non- Plan)

Dr. G. S. Parihar did not present experiments due to sickness. It was decided that he will present the programme later on.

Now the technical programme for Kharif-2016 has been received from Dr G S Parihar, Scientist (Agronomy), Rice Section. The same has been assessed at appropriate level and included in the research programme.

AICRP on IFS

Technical programme of Integrated Farming Systems was presented by Dr. Y.K. Singh. He presented results of experiments along with IFS Model of on station trials as well as three experiments of On Farm Research programme.

On station

- Maize - garlic-greengram (grain+residue) was found biologically efficient and most productive over rice as well as other maize based cropping systems by giving higher rice equivalent yield (24.39 t/ha), net return of Rs. 2,41,640 /ha and B:C ratio (3.61) followed by maize + green gram- potato wheat (18.75 t/ha).
- Rice – wheat cropping system out yielded (7974 kg/ha) when fertilized @ 50 % RDF and 50 % N through FYM to rice and 100 % NPK to wheat which was 236 kg/ha higher than 100 % application of NPK to both the crops. On the basis of long term study for 32 years (1983-2015), mean yield of rice (4425 kg/ha) was recorded the highest when 100% RDF was applied to both the crops but mean yield of wheat (4451 kg/ha) was the highest with 50% RDF + 50% N through green leaf manure (GML) in rice and 100 % RDF to wheat. The mean system productivity (8683 kg/ha) was also recorded the highest with 100% NPK through fertilizer to both the crops but 50 % RDF + 50% N through GLM in rice and only 100 % chemical fertilizer in wheat was almost equal (8538 kg/ha).
- Three components i.e. crop production, dairy and horticulture units in one ha area allotted for IFS model from 2011-12, a total net income of Rs. 1, 48,022 was recorded with net income of Rs. 75,633 from crop production, Rs. 60,150 from dairy and Rs. 12,239 from horticulture unit.

On Farm Research

- Application of fertilizer in rice-wheat system @ recommended NPK & Zn (150:60:40:25 kg/ha) in rice and NPK in wheat (120:60:40 kg /ha) recorded the highest rice equivalent yield (10570 kg/ha), net return (Rs. 61758), nutrient response (13.86 kg grain /kg nutrients) and Rs/Re-investment (1.95) on cropping system basis. Concentration of nutrients i.e. NPK & Zn was also recorded the highest in the grain and straw of rice and wheat both when the system was nourished @ recommended NPK & Zn (150:60:40:25 kg/ha) in rice and NPK in wheat (120:60:40 kg /ha) thereby resulting in to the sufficiency of these nutrients concentration in the grain and straw of both the crops which could be beneficial for human and livestock health.
- Out of four existing farming systems prevailed in 24 household, the highest net Income was registered under crop + Dairy farming + Goat system occupied 0.7 ha average land holding followed by crop + Dairy practiced in 0.8 ha. The capacity building module brought an increase in knowledge of households up to 67 % in field crops alone, 53 % in crop + goat , 67 % in crop + dairy and 69 % in crop + dairy + goat as compared to 40 % in pre training.
- The average household income of Rs. 102665 and Rs. 106411 was obtained during first year and second year after intervention as compared to bench mark of Rs 73256 which is 44 % higher than bench mark and 3 % higher than first year during second year with

average land holding of 1.05 ha. On farm IFS intervention registered improvement in the natural resource i.e. organic carbon, available P and K in the soil of the households over bench mark and first year.

Exp. No.1: Identification of biologically efficient and profitable cropping systems in Central Plain Zone of U. P.

Result of experiment was discussed and experiment will be continued.

Action: Scientist- farming system

Exp. No. 2: Permanent trial on integrated nutrient supply in rice- wheat system.

Result of the experiment was discussed and experiment will be continued.

Action: Scientist- farming system

Exp. No. 3: Development of farming system modules for central plain zone of U. P.

Result of the experiment was discussed and experiment will be continued.

Action: Scientist- farming system

OFR results

Exp. No. 1: On farm crop response to plant nutrients in predominant cropping system and their impact on crop-live stock-human continuum.

Experimental results were discussed and experiment will be continued.

Action: OFR Agronomist

Exp. No.2: Diversification of existing farming systems under marginal households' conditions.

Experimental results were discussed and experiment will be continued.

Action: OFR Agronomist

Exp. No.3: On farm evaluation of farming system modules for improving the profitability of small and marginal households.

Result of experiment was discussed and will be continued.

Action: OFR Agronomist

Vegetable Science

Technical programme of vegetable science was presented by Dr. Rajeev. He presented result of one experiment.

Exp. No, 1: Weed management in Okra.

Results of the experiment were discussed and experiment will be continued.

Action: Dr. Rajeev

AICRP on Maize

Programme of Maize could not be presented as the concerned scientist was on pre-scheduled examination duty.

Action: Dr. Keshav Arya

Now thc technical programme for Kharif-2016 has been received. This programme has already been approved in group meeting. Therefore, it has also been included in the research programme.

Teaching Non-Plan

Exp. No 1: Integration of aromatic plants in the existing cropping system to mitigate the effect of climatic change.

Experiment was discussed and approved.

Action: Dr. A. K. Srivastava

Exp. No 2: Assessment of Sesame varieties and nutritional level at different dates of sowing.

Experiment was discussed and approved.

Action: Dr. Mohd. Aslam

Note: The other research programmes related to teaching will be finalized by Head, Dept of Agronomy after the consultation with concerned faculty.

Suggestions by the Chairman

- All scientists should be present during meeting that will help in learning of new innovative ideas. **(Action: All scientists)**
- Compliance of the decision regarding experiments should reach one month before next meeting. **(Action: All scientists)**
- The chairman advised the scientists to visit their experiments frequently for ensuring proper monitoring. **(Action: All scientists)**

Meeting ended with vote of thanks proposed by the convener of the meeting to the Dean, Agriculture, Chairman, special guest Dr V. Singh, Heads of various disciplines and all committee members for actively participating in the fruitful discussion and suggestions during meeting.

(Karam Husain)
Head, Dept of Agronomy

No. AGR/EN- 279 /2016 Dated: 3/8/16

Copy forwarded to the following for information and necessary action.

1. Director, AES
2. Dean, College of Agriculture
3. Director, Extension
4. Concerned scientists/Agronomists
5. Technical secretary to V.C. for kind information of Hon'able Vice-Chancellor

(Karam Husain)
Head, Dept of Agronomy

Proceeding of Research Advisory Committee meeting of Kharif,2016 of the Department of Crop Physiology held on June 21,,2016 at 3:00 P.M. in committee room.

Participants.

1. Dr.Rajendra Prasad, Dean. College of Agriculture
2. Dr. H.G.Prakash, Director, A.E.S.
3. Dr. Lallu. Professor & Head,Crop Physiology
4. Dr. C.L. Maurya. Professor & Head, Seed Science & Technology
5. Dr. S.K.Gupta,. Professor & Head, Genetics & Plant Breeding
6. Dr. Mahak Singh. Professor, Genetics & Plant Breeding
7. Dr. R.K.Pandey,Asstt. Professor, A.E.S.
8. Dr. Manoj Mishra, Asstt. Professor, A.E.S
9. Dr. Sarvesh Kumar,,Assoc.. Professor,S.C.W.M.
10. Dr. S.N. Singh, Asstt. Professor, Crop Physiology.
11. Dr. C.B. Verma, Asstt. Professor, Crop Physiology
12. Dr. S.P. Kushwaha, Asstt. Professor, Crop Physiology
13. Dr. M.A. Khan, Asstt. Professor, Crop Physiology
14. Dr. D.K. Tripathi, Asstt. Professor, Crop Physiology
15. Dr. A. K.Singh, Asstt. Professor, Crop Physiology
16. Dr. O.P. Singh, Asstt. Professor, Crop Physiology
17. Dr. Mohd. Aslam,Asstt. Professor, Crop Physiology
18. Dr. (Mrs.) Meera Srivastava,, Asstt. Professor, E.B.R.
19. Dr. S.B.Pandey, Asstt. Professor, Soil Science
20. Dr. I.N. Shukla, Asstt.Professor, Vegetable Science.
21. Dr. R.K.Sachan, Asstt. Professor, Horiculture.
22. Dr. Rakesh Babu, , Asstt. Professor,Agril. Biochemistry.

The Director (AES) C.S. Azad University of Agril. & Tech. Kanpur
D. No. 128 12/7/16
Directorate of Agricultural Experiment Station C.S. Azad University of Agriculture and Technology, Kanpur
Diary No. 998 /DR/16
Date 13/07/2016
Dir. AES
Vice Chancellor C.S. Azad University of Agriculture & Technology KANPUR

..2

At the outset Dr. Lallu, Professor & Head, Department of Crop Physiology gave a warm welcome to Dr. H. G. Prakash, Director, A.E.S., Dr. Rajendra Prasad, Dean, College of Agriculture and all participants scientist and then urged concern scientist to present their respective programme in light of the priority area of research.

Dr. H.G. Prakash, while going through the action taken report enquired with each scientist about the follow-up action taken by the concern as mentioned in action taken report.

During technical meeting programme presented by different scientist were discussed in length and following decision as approved by the committee was taken.

1.1 Concluded.

1.2 Experiment on production physiology presented by Dr. O.P.Singh, which was approved as such.

2.1 Experiment on crop nutrition presented by Dr. C.B.Verma, which was approved and it was suggested that data should be check and recalculated.

2.2 Concluded with advisory committee decision that experiment to be conducted under field condition for its verification regarding of yield response.

3.1 Experiment on stress physiology, presented by Dr. S.N.Singh, which was approved.

3.2 Experiment presented by Dr. M.A. Khan, approved as such.

3.3 Experiment presented by Dr. A.K.Singh, approved as such.

4.1 Experiment on bio-regulators presented by Dr S.P. Kushwaha approved as such.

4.2 Concluded.

4.3 Experiment presented by Dr. D.K. Tripathi approved as such.

5.1 Experiment on Agronomy presented by Dr. Aslam, approved and committee suggested that title of the traial should be change and nutrient uptake data should be taken.

In the end of meeting Dr. Lallu, Professor & Head expressed vote of thanks to all participants for attending the RAC meeting.

(Lallu)
Professor & Head

No. C.P. 340 / Dated: 06-07-2016

Copy to:-

1. Director, A.E.S.
2. Dean, College of Agriculture.
3. Technical secretary to Hon'ble Vice-Chancellor for information to Hon'ble Vice-Chancellor .
4. All concerned HOD.

(Lallu)
Professor & Head

Directorate of Agricultural Experiment Station
Diary No. 580 /DR/16
Date 06/06/2016
C.S. Azad University of Agriculture and Technology, Kanpur

Department of Entomology
C.S. Azad University of Agriculture & Technology, Kanpur-2

No.ENT- 83 /2016 Dated: 06-06-2016

Proceeding of Research Advisory Committee meeting held on 20.05.2016 for Kharif 2016

The RAC meeting of Kharif 2016 was held on 20th May, 2016 in the Chamber of Prof. & Head, Department of Entomology, C.S. Azad University of Agriculture & Technology, Kanpur.

The following officers/ Scientists were present in the meeting.

S. No.	Name	Designation	Department
1.	Dr. Neerja Agrawal	Prof. & Head	Entomology
2.	Dr. R.S. Singh	Professor	--do--
3.	Dr. R.K. Pandey	Asstt. Prof.	Directorate of Research
4.	Dr. Mohd. Shamim	Asstt. Director	--do--
5.	Dr. Manoj Mishra	Asstt. Director	--do--
6.	Dr. R.K. Dwivedi	Asstt. Prof.	Entomology
7.	Dr. A.S. Srivastava	Asstt. Prof.	--do--
8.	Dr. Ram Singh	Asstt. Prof.	--do--
9.	Dr. Fazal Ahmad	Asstt. Prof.	--do--
10.	Dr. Kusum Dwivedi	Asstt. Prof	--do--
11.	Dr. Ved Ratan	Prof. & Head	Plant Pathology
12.	Dr. D.K. Singh	Asstt. Prof.	Oilseed

Dr. Neerja Agrawal, Professor & Head Department of Entomology, welcomed the representatives of Directorate of Experiment Station and all the members present in the RAC Meeting First of all. she presented the work done in Kharif 2015 and its salient achievements, which were as follows:

Achievements of Kharif 2015

A total of 15 experiments were conducted during Kharif 2015 in the Department of Entomology.

Sri Manoj Mishra 8/6

1. Pigeonpea Pest complex on Bahar variety of pigeonpea attracted pod fly *Catochrysops straboi* and gram pod borer *Helicoverpa armigera* in Feb-March. Predator Lady bird beetle was recorded during Feb.- March.

2. Okra- Experiment on effect of novel insecticides against fruit borer *Erias vitella* was *concluded* after 3 years. It was shown that spraying with imidacloprid 17.8 SL @ 1 ML/ lit (0.0177% was most effective followed by indoxacarb & fipronil (concluded).

3. Among redents 7 species were reared and maintained in the laboratory.

4. Population density of 5 species of rats were recorded in NDF, Nawabganj farm and Oilseed Farm, during 2011-12, 2012-13 and 2013-14.

5. In paddy, chlorpyriphos 20 EC was better for the control of Green Leaf hopper, white jassid and stem borer.

6. In AICRP (Nematode) 3 experiments were concluded – Demonstration of root knot nematode in groundnut, Management of *Hetrodera Cajani* on sesamum through bioagent and management of root knot nematode in okra, in which the following results were obtained:
   (1) Seed treatment with *Paecilonyces lilacinus* @ 10g/ Kg seed of groundnut was effective against *M javanica.*
   (2) Seed treatment with *Pseudomonas fluorescens* @20g/kg seed on seasamum was effective against *H.cajani.*
   (3) Seed treatment with *P.lilacinus* @ 20g/kg seed of okra, alongwith its soil application @ 2.5 kg/ha+FYM was effective for control of root knot nematode.

There after proposed research programme for Kharif 2016 was presented by individual scientists and discussed in the house for approval. RAC has approved the following research programmes with following suggested.

Project No 1. Stage of crop and pest and predator should also be include with metrological data.

Project No 2. It was suggested by the representative of Director Research that, cost benefit ratio should also be calculated.

Project No 3. Dr. Pandey, representative of Director Research has suggested that sun flower acreage is reducing so honey bee Boxes may in kept near field experimental for pollination.

Project No 4 – 6. It is suggested by members that last year's achievement should also be mentioned and in project No. 6 year of Commencement should be mentioned.

Project No 7 – 9. Approved as such.

Project No 10. It was suggested by house that CD should be calculated of last year's experiment and it was also suggested by house that one more project on screening of breeding germplasm on Paddy for recording pest should also be added.

Project No 11 – 20. Approved as such.

Dr. Pandey representative of Director Research said that of any technology of this center has been accepted in AICRP, the report should be sent to his office for further necessary action.

Meeting was ended with appreciation remarks of representative of Director Research and vote of thanks given by Dr. R.S. Singh.

(Neerja Agrawal)
Prof. & Head

Department of Genetics and Plant Breeding

Research Advisory Committee Meeting *Kharif* 2016-17
28-29 June, 2016 & 4 July 2016

At the outset Dr. Sarvendra Kumar, Professor & Head welcomed all faculty members. The meeting was chaired by Dr. H.G. Prakash (Director Research) in the morning session. Dr. Rajendra Prasad (Dean, College of Agriculture), Dr. Dhoom Singh (Director Extension), Dr. Karam Hussain (Director, Seed & Farms), Dr. Lallu (Professor & Head, Dept. of Crop Physiology), Dr. P.N. Katiyar (Professor& Head, Dept. of Horticulture), Dr. C.L. Maurya (Professor & Head, Seed Science & Technology) and Dr. C.P Sachan (Seed Production Officer) were also present in the meeting. Chairman informed the house that recently **six varieties of different field crops (Barley-1, Mungbean-1, Lentil-2 & Linseed-2)** released from our university. It proves that still our university is performing excellent research work in the field of crop improvement.

Rice: Research programme was presented by **Dr. V. K. Yadav**

Part A- AICRP trials

Project 1 and 2: Approved.

Project 3: Approved with suggestion to correct Table 3.

Project 4 to 7: Approved.

Part B- International co-ordinated trials

Project 8 to10: Approved.

Part C- Station Trials

Project 11 to 12: Approved.

2. **Tobacco**:- Research Programme was presented by **Dr. A.K. Srivastava**

Project 1 (A and B): Approved.

Project 2 (A and B): Approved.

Excellent Research programme was presented by Dr.Srivastava.

3. **Mung bean**: Research programme was presented by **Dr. Manoj Katiyar.**

Expt. No. 1: Approved.

Expt. No. 2: Approved with suggestion to include one scientist from the Deptt. of Plant Pathology for recording disease data.

Expt. No. 3 to 6: Approved.

AICRP:

Expt. No.1: Approved.

It was informed by E.B. (Legume) that the varietal release proposals were submitted by Dr. Manoj Katiyar direct to Co-ordinator (research) for release by SVRC without signature of E.B. (Legume). All House criticized this issue and it was decided by house that Dr. Katiyar will hand over varietal proposals to E.B. (Legume).

4. **Urdbean**: Research programme was presented by **Dr. Geeta Rai**. It was suggested by house to mention yield data with other yield contributing characters in tabular farm alongwith CV & CD different trials, with will be conducted during Kharif 2016.

Expt. No.1 Approved.
Expt. No.2 Approved.
Expt. No.3 to 6: Not approved.
Expt. No. 7: Approved.

AICRIP:

Expt. No.1: Approved.

It was suggested by house that in future there is no need to include those entries in sectional trials whose pedigree is not known. it was also suggested by house to repeat the Experiment Nos. 3, 4, 5 and 6 and one check should be included.

5. **Pigeon pea**: Research programme was presented by **Dr. K.P. Singh**.

Expt. No. 1 to 4: Not approved. It was suggested by house to repeat these trials.

6. **Castor**: Research programme was presented by **Dr. S. K. Srivastava**.

Expt. No. 1 to 5 Approved.

Expt. No. 6: It was suggested by house to show pedigree of different crosses. **Dr. Arvind Srivastava** gave his consent in the house to perform all the activities related with castor breeding.

Expt. No.7: Approved.

7. **Sesame (Kanpur Center)**: Research programme was presented by **Dr. S.K. Srivastava**.

Expt. 1 to 5: Approved.

Dr. P.K. Gupta gave his consent to Dr. Srivastava for providing help in breeding activities of sesame, (Kanpur Center).

Dr. Mahak Singh (Professor &Mustered Breeder) was opined that it is necessary to give the charge of Castor & Sesame (Kanpur Center) to some senior breeder, otherwise it is very difficult to conduct research on breeding aspects of Castor & Sesame.

8. **Sesame (Mauranipur Center)**: Research programme was presented on July 4, 2016 by **Dr. V.P. Nagaich**. All experiments were approved by house.

Dr. Nagaich is doing excellent research work.

Groundnut: Research programme was presented by **Dr. M.C. Verma**.

Expt. No. 1 to 11: Approved.

Cotton: Research programme was presented by **Dr. Narendra Yadav**.

Expt. No. 1 Approved with suggestion to modify Table 1.

Expt. No. 2 to 7 Approved.

Expt. No. 8 and 9: Approved with suggestion to modify table.

Expt. No. 10: Approved with suggestion to modify title of Project.

Maize: Research Programme was presented by **Dr. H.C. Singh**.

Project 1: Approved.

Project 2: Approved with suggestion to mention year of selection.

Project 3: Approved.

Project 4: Approved with suggestion to include **Dr. D.K. Singh** as Entomologist for recording insect infestation.

Project 5 and 6: Not approved and it was suggested to repeat these trials.

Project 7 and 8: Approved.

It was decided by house that in future experiments will be rejected without mentioning CD &CV in results of experiment.

Vote of thanks given by Head of Department.

Prepared by

(S.K. Singh)

(R.P. Vyas)

Approved

(Sarvendra Kumar)

RAC Meeting
Kharif 2016
List of participants

S.No.	Name and Designation	Deptt./Section
1.	Dr. H.G. Prakash, Director Research	Directorate of Research
2.	Dr. R. Prasad, Dean	College of Agriculture
3.	Dr. Dhoom Singh, Director Extension	Directorate of Extension
4.	Dr. Karam Husain, Professor and Head/ Director, Seed and Farms	Agronomy/ Directorate of Seed & Farm
5.	Dr. Sarvendra Kumar, Professor and Head	Genetics and Plant Breeding
6.	Dr. Lallu, Professor & Head	Crop Physiology
7.	Dr. P.N. Katiyar, Professor and Head	Deptt. of Horticulture
8.	Dr. C.L. Maurya, Professor and Head	Seed Technology
9.	Dr. R.K. Yadav, Professor	Genetics and Plant Breeding
10.	Dr. Mahak Singh, Breeder (R&M)	Oilseed Section
11.	Dr. C.P. Sachan, Professor/SPO	Director, Seed and Farms
12.	Dr. Sanjeev Yadav, Professor	Department of Agronomy
13.	Dr. V.K. Yadav, Professor/ Rice Breeder	AICRIP Rice
14.	Dr. S.K. Srivastava, Assoc. Professor	Oilseeds Section
15.	Dr. Lokedra Singh, Assoc. Professor	Genetics and Plant Breeding
16.	Dr. S.K. Uttam, Assoc. Professor	Soil Science and Water Management
17.	Dr. R.K. Pandey, Asstt. Diector	Directorate of Research
18.	Dr. V.P. Nagaich, Asstt. Prof./Sesame Breeder	CRC, Mauranipur
19.	Dr. H.C. Singh, Asstt. Professor/Maize Breeder	AICRP Maize
20.	Dr. M.C. Verma, Asstt. Professor /Groundnut Breeder	CRC, Mauranipur
21.	Dr. Kamlesh Singh, Asstt. Professor	Oilseeds
22.	Dr. S.B. Pandey, Asstt. Chemist	Soil Science
23.	Dr. A.K. Srivastava, Incharge/Tobacco Breeder	CRC, Araul
24.	Dr. Manoj Katiyar, Asstt. Prof./Mung & Lentil Breeder	Legume Section
25.	Dr. (Mrs.) Geeta Rai, Asstt. Professor/Fieldpea & Urd Breeder	Legume Section
26.	Dr. K.P. Singh, Asstt. Professor/Pigeon pea Breeder	Legume Section
27.	Dr. D.K. Singh, Asstt. Professor/Entomologist	Rapeseed & Mustard
28.	Dr. A.K. Sachan, Asstt. Director, Seed & Farms	Seed and Farms
29.	Dr. R.P. Vyas, Asstt. Prof.	Genetics and Plant Breeding
30.	Dr. S.K. Singh, Asstt. Prof.	Genetics and Plant Breeding
31.	Dr. (Mrs.) Shweta, Asstt. Professor	Genetics and Plant Breeding

Proceeding of Research Advisory Committee Meeting of Department of Plant Pathology for *Kharif* - 2016

No.: २७७/PP/2016 Dated: १५.07.2016

Date: July 4, 2016

Presence:

1. Dr. Rajendra Prasad, Professor, Rapeseed & Mustard
2. Dr. D.R. Singh, Professor, Entomology
3. Dr. S.K. Gupta, Professor & Head, Genetics & Plant Breeding
4. Dr. Md. Shamim, DES
5. Dr. D.D. Yadav, Professor, Agronomy
6. Dr. Ved Ratan, Professor & Head, Plant Pathology
7. Dr. S. K. Biswas, Associate Professor, Plant Pathology
8. Dr. M. R. Dabbas, Assistant Professor, Vegetable Science
9. Dr. R. K. Pandey, Assistant Professor, Directorate of Research
10. Dr. Ramesh Singh, Assistant Professor, Plant Pathology
11. Dr. R.K. Sachan, Assistant Professor, Horticulture
12. Dr. Javed Bahar, Khan, Assistant Professor, Plant Pathology, EB *Rabi Cereal*
13. Dr. J. Rai, Assistant Professor, Agriculture Economics

The meeting was started with the warm welcome of the chairperson Dr. Rajendra Prasad, Dean College of Agriculture, scientists from different departments and the faculty members of Plant Pathology by Head, Plant Pathology. Chairman of the RAC highlighted the importance of such types of meetings.

Head, Plant Pathology briefly highlighted the significant achievements of the last year's *kharif* Programme. He also informed to the house that total 14 research proposals have been submitted by the faculty members to discuss in the meeting.

Each of these Projects was discussed thoroughly and decision/ suggestions were noted and are given below:

Projects from Department of Plant Pathology

1. Project no 1 Approved with the suggestion that data in Bt cotton experiments will also be recorded with the help of I/c Cotton Project.
2. Project no.2 Approved with the suggestion that yield data should also be given converted in q/ha. along with name of the variety and full name of pathogen.
3. Project no 3 Approved with one suggestion that the name of Dr. Mahak Singh will be replaced by Dr. S.K. Srivastava.
4. Project no 4 Approved with the suggestions that (i) title of the Project should be objective wise. (ii) Objectives should be year wise and (iii) Objective no. 3 to be conducted during Kharif 2016-17.

Projects of Pulses (MuLARP, AICRP project)

5. Two Project (5 & 6) were presented by Dr. S.K. Gupta, Head, Genetics & Plant Breeding and discussed and approved.

Projects of Vegetables

6. Total 8 projects of AICRP were presented by Dr. M.R. Dabbas. Only in project no. 7 it was suggested that disease severity should be correlate with weather data, variety and data to be recorded from same field of farmer.

The meeting was ended with vote of thanks by Dr. Ved Ratan, HOD, Plant Pathology.

(Ved Ratan)
Professor & Head, Plant Pathology

(Rajendra Prasad)
Dean, College of Agriculture

Proceedings of R.A.C. meeting of Department of Seed Science & Technology, C.S.Azad University of Agriculture and Technology, Kanpur-2 for Kharif -2016 held on 18.06.2016 at 11.00 a.m. in the Committee Room of the Department.

Directorate of Agricultural Experiment Station
Diary No. 801 /DR/16
Date 24/06/2016
C.S. Azad University of Agriculture and Technology, Kanpur

The following were present in the meeting.

Sl.No.	Name	Designation	Department
1.	Dr. Rajendra Prasad	Dean, College of Agriculture	College of Agriculture
2	Dr. Hargyan Prakash	Director, Research	Directorate of Research
3	Dr. Karam Husain	Director, Seed & Farm/HOD,	Agronomy/Directorate of Seeds
4	Dr. C.L.Maurya	Head of Department	Seed Science & Technology
5	Dr. S.K. Gupta	Head of Department	Genetics & Plant Breeding
6	Dr. R.C.Verma	Head of Department	Agril. Economics & Statistics
7	Dr. V.K.Singh	Head of Department	Agricultural Extension
8	Dr. P.N.Katiyar	Head of Department	Horticulture
9	Dr. C.P.Sachan	Professor/SPO(Breeder)	Directorate of Seeds
10	Dr. Asharfi Lal Jatav	Professor	Seed Science & Technology
11	Dr. Ram Ashish Yadav	Professor	E.B.R.
12	Dr. D.R.Singh	Professor	Entomology
13	Dr. S.K.Uttam	Assoc.Professor	SCWM
14	Dr. Akhilesh Mishra,	Pulse Agronomist	Legume Section
15	Dr. P.K.Gupta	Barley Breeder	EBR
16	Dr. C.B.Singh	Asstt. Professor	Seed Science & Technology
17	Dr. V.P.Bajpai	Asstt. Professor	Seed Science & Technology
18	Dr. C.P.Verma	Asstt. Professor	Crop Physiology
19	Dr. R.K.Pandey	Asstt. Prof.	Directorate of Research
20	Dr. S.B.Pandey	Asstt. Chemist	Soil Science & Agri.Chem.
21	Dr. P.N.Nigam	SPO	Directorate of Seeds
22	Dr. S.V.Singh	Wheat Breeder	EBR
23	Dr. Jitendra Kumar	Asstt. Professor	EBR
24	Sri R.A.Katiyar	Asstt.Professor	Seed Science & Technology
25	Dr. P.K.Katiyar	T.A.	Seed Science & Technology
26	Sri R.K.Swarnkar	T. A.	Seed Science & Technology
27	Dr. S.K.Swarnkar	Field Man	Seed Science & Technology
28	Dr. U.S. Chaudhary	S.R.F.	DUS Project
29	Sri Sagar Kumar Sharma	Ph.D. Scholar	Seed Science & Technology

The meeting was commenced with warm welcome of the Chairperson Dr. Rajendra Prasad, Dean, College of Agriculture, Dr. Hargyan Prakash, Director of Research, Scientists participated from different departments/sections and members of Seed Science & Technology along with research scholars by Dr. C.L. Maurya, Head of Department, Seed Science & Technology. Later on with due permission of Chairperson, Head of Deptt. highlighted the importance of seed in agriculture, significant achievements and action taken report Kharif 2015. Besides, the priority areas of research concerned with Seed Science & Technology were also focused before the house.

Head of Department also informed the house that total 15 research proposals of different disciplines have been submitted by the scientists. Out of these, 6 experiments belong to seed production, 05 on seed physiology, storage & testing, two on seed pathology, one each on seed entomology and seed processing.

P.T.O.

Sri Manoj Mishra
24/6/2016

The concerned scientists presented their experiments, which were discussed thoroughly in the house. Decisions/suggestions emerged out during deliberations are given as below:

Sl.No.	Experiment No.	Decisions/Suggestions
1.	1.1	Approved. Breeder & Nucleus seed of variety T-78 will be supplied by SPO.
2.	1.2	Since breeder seed of Rice is not being produced by University at present hence house suggested to drop the proposal.
3.	1.3	Approved. Breeder and Nucleus seed of Urd Azad-3 will be supplied by SPO.
4.	1.4	Approved. House suggested that the name of Dr. A.L.Jatav should be added in the list of research worker instead of collaborator.
5.	1.5	Approved as proposed.
6.	1.6	Approved. Dean College of Agriculture has suggested that Guide should present experiments.
7.	2.1	Approved. House was in opinion that name of genotypes to be tested should be disclosed.
8.	2.2	Approved as proposed.
9.	2.3	Approved as proposed.
10.	2.4	Approved. Director, Seed & Farm suggested that R.H. & Temperature may be recorded while reporting the gain or loss of moisture.
11.	2.5	Approved. House suggested that genotypes representing Bold, medium and fine grain should be included in experimentation.
12.	3.1	(i) House suggested to repeat the experiment for one year more. (ii) The name of Dr. C.B.Verma, Physiologist & Dr. S.B.Pandey, Soil Scientist should be added as Collaborator. (iii) Dr. S.K.Biswas may be replaced by Dr. S.K. Swarnkar.
13.	3.2	Approved. House suggested that susceptible and resistance check should be included.
14.	4.1	Approved as proposed.
15.	5.1	Approved & concluded.

The meeting was ended with vote of thanks, proposed by Dr. C.P.Sachan, Professor and Seed Production Officer (Breeder Seed).

(C. L. Maurya)
Head of Department

No. DST 516-17 **/2016** **Dated:** 23-6-**2016**

Copy forwarded for information and necessary action:

1. Dean, College of Agriculture.
2. Director, Agriculture Experiment Station.
3. Director, Seed & Farm.
4. All Head of Deptt. /AICRP Incharges/Sectional Incharges.
5. Concerned Scientists of the Deptt. of Seed Science & Technology.
6. Technical Secretary to V.C. for kind information to Hon'ble Vice Chancellor.

(C. L. Maurya)
Head of Department

Directorate of Agricultural Experiment Station
Diary No. 760 /DRI/16
Date 22/06/16
C.S. Azad University of Agriculture and Technology, Kanpur

Proceedings of RAC meeting held on 10.06.2016 for Kharif 2016-17 in the Department of Soil Conservation and Water Management

A meeting was held on 10-06-2016 to finalize the research programme of *kharif* 2016-17. Following scientists/teachers were present:

S.No.	Name	Designation
1.	Dr. Hargyan Prakash	Director Research
2.	Dr. Rajendra Prasad	HOD, SCWM and Dean Agriculture
3.	Dr. P.N. Yadav	Professor, SCWM
4.	Dr. Munish Kumar	Professor, SCWM
5.	Dr R.P. Singh	Professor, SCWM
6.	Dr. G.R. Gupta	Associate Professor, SCWM
7.	Dr S.K. Uttam	Associate Professor, SCWM
8.	Dr. Sarvesh Kumar	Associate Professor, SCWM
9.	Dr. U.D. Awasthi	Assistant Professor, SCWM
10.	Dr. A.K. Katiyar	Assistant Professor, SCWM
11.	Dr. D.K. Tripathi	Assistant Professor, Crop Physiology
12.	Dr. R.K. Pathak	Asstt. Professor, Soil Sci. & Agril. Chemistry
13.	Dr. Anjani Kumar Singh	Asstt. Professor, Agril. Economics & Statistics

After warm welcome by Professor & Head of the department to all participants in the meeting, the achievements and compliance report was presented for various research programmes. During meeting, projects were presented one by one by relevant teachers given as under:

Project No.-1: The experiment was conducted by Dr. S.K. Uttam related to M.Sc. (Ag) trial. The project was approved and allowed to continue in *kharif* 2016 for confirmation of the findings.

Project No.-2: A new experiment was presented by Dr. S.K. Uttam related to P.G. trial. The project was approved with the remark to delete a treatment of FYM doses i.e. 30 t/ha and add control treatment(without FYM). Further the committee suggested that half chemical fertilizer dose of sorghum and greengram should be applied instead of full chemical fertilizer dose in both the crops.

Project No.-3: Two years trial was conducted by Dr. P.N. Yadav related to Ph.D. programme. It was suggested that the data should be procured (Kharif, 2015) from the student and should be presented in the next year meeting.

Sri Manoj Mishra
Proceedings RAC
22/6

Project No.-4: M.Sc.(Ag.) trial was presented by Dr. P. N. Yadav. It was suggested that the data should be procured and should be presented in the next year meeting. The project was approved by the committee and allowed to continue in Kharif 2016-17 for confirmation of the findings through Sri Ranjeet Kumar student and guided by Dr. U.D. Awasthi.

Project No.-5: Last year Ph.D. trial was presented by Dr. U.D. Awasthi. It was suggested that the data should be procured from the student and should be presented in the next year meeting. The project was approved by the committee and allowed to continue in *kharif* 2016-17 for confirmation of the findings.

Project No.-6: A new experiment was presented by Dr. U.D. Awasthi related to Ph.D. trial and was discussed in detail with logistics. The project was approved with the remark that the pigeonpea variety of UPAS-120 may be replaced by any suitable long duration variety of pigeonpea.

Project No.-7: A new experiment was presented by Dr. Munish Kumar related to P.G. trial. The project was approved with the suggestion that the quality word should be corrected as soil loss from the title of the project.

Project No.-8 & 9: M.Sc.(Ag) trials were presented by Dr. A.K. Katiyar. It was suggested that the data should be procured from the students and should be presented in the next year meeting. The projects were approved by the committee and allowed to continue in *kharif*, 2016 for confirmation of the findings.

Project No.-10: The experiment was conducted by Dr. U.D. Awasthi related to P.G. trial. The project was approved as such and allowed to continue in *kharif* 2016-17 for confirmation of the findings as departmental trial.

Project No.-11: It was conducted by Dr. Kaushal Kumar related to M.Sc.(Ag) trial. The experiment was presented by Dr. Munish Kumar. The project was approved by the committee and allowed to continue in Zaid 2016-17 for confirmation of the findings with remark that check the oil yield (kg/ha) in Japanese mint which is very higher side.

Project No.-12: The experiment was conducted by Dr. Kaushal Kumar related to Ph.D. trial. The trial was presented by Dr. Munish Kumar.The project was approved and allowed to continue in next year for confirmation of the findings.

Project No.-13: Last year M.Sc.(Ag.) trial was presented by Dr. Sarvesh Kumar. The trial was approved by the committee and allowed to continue in *kharif* 2016-17 for confirmation of the findings.

Project No.-14: A new experiment of P.G student was presented by Dr. R.P. Singh. The project was approved by the members of RAC, as such.

Project No.-15: This field trial was conducted during *kharif* 2014 by M.Sc.(Ag.) student under supervision of Dr. G.R. Gupta. It was decided by members that the trial will be again conducted during *kharif*, 2016 by P.G. student of Dr. R.P Singh and last year data should compiled and presented in next year meeting.

In the last, it was decided that the experiments conducted at SIF under the Agronomy Department will be looked after by the FS of the SIF with regards to laid out of the experiments, labours and other input materials. If any charge, will be framed by the FS that charges will be incurred from the department.

The meeting was ended with vote of thanks and concluding remarks by Professor and Head of this department.

20.6.16

(Rajendra Prasad)
Professor & Head

Department of Soil Conservation & Water Management
C.S. Azad University of Agriculture & Technology, Kanpur-2

No. 168 /SCWM/2016 Dated: June 21 ,2016

Copy forwarded for information and necessary action to:

1. Dean, College of Agriculture, C.S Azad Univ. of Agric. & Tech., Kanpur-2
2. Director, Agricultural Experiment Station(AES), C.S Azad Univ. of Agric. & Tech., Kanpur-2
3. Professor & Head(s) of the Department– Agronomy, Soil Science & Agril. Chemistry, Plant Pathology, Entomology, Crop Physiology and Agriculture Economics & Statistics.
4. All teachers/scientists of the Department.
5. T.S. to V.C. for kind information to Hon'ble Vice-Chancellor.

20.6.16

(Rajendra Prasad)
Professor & Head

Proceedings of Research Advisory Committee Meeting for Kharif 2016 held on 04.06.2016 at Department of Soil Science & Agricultural Chemistry, C.S.A.University of Agriculture & Technology, Kanpur

---

Research Advisory Committee Meeting of the Department of Soil Science & Agricultural Chemistry held on 4-6-2016 in the Chamber of Head of Department to discuss for the programme of Kharif 2016 and the achievements of Kharif 2015 in the Chairmanship of Head of Deptt. The following faculty members were present to discuss the programme:

1	Dr. R.C. Nigam	Head of Department	Soil Sci. & Agril.Chem.
2	Dr. D.D. Tiwari	Professor	-dc-
3	Dr. Ravindra Kumar	Professor	Soil Salinity Scheme
4	Dr. A.K.Dubey	Incharge	Deptt. of Horticulture
5	Dr. R.K. Pandey	Asstt. Prof.	Office of Agri. Expt. Station
6	Dr. R.B. Singh	Incharge	Deptt. of Extension
7	Dr. Lallu Singh	Professor	Biochemistry
8	Dr.D.R. Singh	Profesor	Entomology
9	Dr. R.A. Yadav	Professor	Agronomy EBR section
10	Dr. Lallu	Head	Crop Physiology
11	Dr. V.K. Yadav	Incharge	Rice Chemistry
12	Dr.Anil Kumar	Assoc. Prof.	Soil Science & Agril.Chmistry
13	Dr. S.K. Uttam	Assoc. Prof.	Soil Conservation
14	Dr. S.K.Srivastava	Assoc. Prof.	AICRP castor
15	Dr. M.Z. Siddiqui	Assoc. Prof.	Agronomy
16	Dr. R.K. Pathak	Asstt. Prof.	Soil Sci. & Agril. Chemistry
17	Dr.R.N.Dixit	Asstt.Prof.	Soil Sci. & Agril. Chemistry
18	Dr. S,K.Mishra	Asstt. Prof.	Soil Sci. & Agril. Chemistry
19	Dr. R.K.Pandey	Asstt. Residue Analyst	Soil Sci. & Agril. Chemistry
20	Dr. Devendra Singh	Asstt.Professor	Soil Salinity Scheme
21	Dr. Sushil Dimree	Asstt.prof.	Soil Sci. & Agrl. Chem.
22	Sri K.N.Singh	Asstt.Prof.	Soil Science & Agril. Chem.
23	Sri Vinod Kumar	Asstt.Prof.	Soil Salinity Scheme
24	Dr. S.B.Pandey	Asstt. Prof.	Soil Science Agril.Chem.
25	Dr. R.K. Sachan	Asstt. Prof.	Horticulture

At the out set of the Research Advisory Committee Meeting Dr. R.C. Nigam, Head of Department welcomes all the members presented in the meeting. He emphasized about the need of Soil Science and its future prospects in arena of modern agriculture. Dr. R.K. Pandey, Asstt. Residue Analyst explained about the salient research achievements for Kharif, 2015 of the department.

Soil Testing Scheme

Sri K.N. Singh presented project no. 1 to 4. Dr. Jaffar Siddiqui suggested to the house during discussion of project no. 2 that name of the mustard variety should be mentioned . In the same project he also suggested that CV (%) should also be calculated along with SE (+_) and CD (5%) . House also suggested that N estimation should also be a carried out though leaf colour chart. All project No. 1 to 4 approved with minor suggestions.

All India Net work Profject on Pesticide Residues.

ICAR programme was presented by Dr. R.K. Pandey, Asstt. Residue Analyst. There were four trials which were sown in March 2016. The sample analysis will be done and results obtained will be channelized to P.C. on Pesticide Residues .

Soil Fertility Scheme

Tow experiments were presented by Dr. Ram Naresh Dixit while discussing to Project No.1 Dr. V.K. Yadav asked about the physical properties of soil Dr. Dixit told to house that physical properties of soil is to evaluated on every five years. Project No.2 was also discussed. House were agreed to approved both the projects.

Soil Survey and Research work

Dr. Sushil Kumar Mishra presented soil survey project House were agreed on the yield report but quality and physico chemical properties were not reported . Dr. Mishra assured to house for the compliance.

Quality testing of Pesticides, Fertilizers, Manures and Allied products

Dr. D.D. Tiwari, Professor presented the routine work of the project . Dr. Tiwari told to the house that about of total samples received 9.5 percent samples were found sub standard. Both project were approved unanimously.

Adhoc Project

A- **Professor IFFCO Programm:** Dr. R. Dixit presented all three projects. All projects were approved as such by the house.
B- **ICAR Adhoc Project:** Approved as such by the house.

Microbiology

Dr. R.N.Dixit presented Project. He explained to the house about isolation and maintenance of Rhizobium culture and Azotobactoer strain and remuneration retained by the University . Both project were approved as such.

AICRP on Management of salt affected soil

Dr. Ravindra Kumar, Officer Incharge presented all the projects. Since, it is ICAR Originated work, therefore, all the projects were approved by the house unanimously .

At last meeting ended with vote of the thanks given by Head of Department to all the participants.

(R.C. Nigam)
Head of Department

Deptt. of Soil Science & Agricultural Chemistry
C.S.A.University of Agriculture & Technology,Kanpur

No.585/2016 Dated:21.10.2016

Copy forwarded for information and necessary action:

1. Technical Secretary to V.C. for kind information of the Hon'ble Vice Chancellor.
2. Dean, Faculty of Agriculture.
3. Director, Agriculture Experiment Station.
4. All Professor and Head of the Department.
5. Concerned Scientist of the Department.

(R.C. Nigam)
Head of Department

No. 203 dt. 24.6.16

Proceedings of ZREAC meeting for Kharif 2016 for Bundelkhand Zone held on 20-06-2016

The ZREAC meeting for Kharif-2016 for Bundelkhand Zone held under Chairmanship of Prof. H.G. Prakash, Director Research on 20.06.2016 at 2:30 PM. List of scientists participated in the meeting is annexed.

At the outset, Director Research welcomed the participated scientists and briefed about the purpose of the meeting. The technical programme of Kharif-2016 were presented by Incharges/Scientist, discussions held and centre wise research programmes for Kharif-2016 approved were as under :

RRS , Bharari Jhansi

Project-1 "Economics of Crops in Village Rampura" Block Badagaon District Jhansi of Bundelkhand. The Study was conducted by Dr. Dharm Dev Singh O/I RRS, Bharari, Jhansi during Kharif-2015. The findings of the Study were presented. The same study will be conducted for Kharif-2016.

CRS, Mauranipur, Jhansi

Plant Breeding

The Significant finding of experiments conducted during Kharif-2015 in AICRP Sesame and technical programmes of Kharif-2016 was presented by Dr. V.P. Nagaich, Incharge, AICRP Sesame. Dr. Nagaich told that based on 3 years research findings a new variety MT-13-07 has been developed and submitted the proposal for release by State Variety Release Committee.

Dr. H.G. Prakash, Director Research advised to Dr. Nagaich to test the performance of this variety at 2 or 3 locations on farmers fields and data may also be sent to Director Agriculture U.P. Lucknow for its superiority. The other performing entries MT-14-04, MT -10-23-3, MT- 10-8-1 are retained for testing in State Multilocation trial for Kharif-2016. Likewise, MT- 2013-10-13 and MT- 2013-3-22 of sesame are also included in State varietal trial for Kharif-2016.

The following breeding programme approved for Khari-2016 were as under:

Project-1 Germ plasm maintenance and evaluation.
Regular Feature

Project-2 Development of high yielding (>700kg/ha), white bold seeded varieties having high oil content (>50%) coupled with resistance against major diseases and pest. Identification of parents for better heterotic response to develop hybrid.
New Experiment

Project-3 Preliminary Varietal Tiral.
Regular Feature

Project-4 Initial Varietal Trial.
Regular Feature

Project-5 Advance Varietal Trial.
Regular Feature

Project-6 Initial Hybrid Trial.
New Experiment.

Agronomy:

Dr. Pramod Kumar, Agronomist AICRP Sesame CRS, Mauranipur presented the technical programme of Agronomy for Kharif-2016.

Project-1 Integrated Crop Management (ICM) for yield maximization in sesame.
Regular Feature

Project-2 Optimization of nutrient requirement for AVT.
Regular Feature

Project-3 Influence of Terminal nipping and growth regulators on yields maximization of sesame.
New Experiment

Director Research suggested to Dr. P.K. Soni, Agronomist that in the experiment the availability of Zink and Iron may also be studied in the seed.

Project- Studies on productivity of sesame intercropping system.
New Experiment .

The meeting ended with vote of thank to the chair.

Approved
24/6/2016

(H.G. Prakash)
Director Research

RKPandey

(R.K. Pandey)
Assistant Professor

(Manoj Mishra)
Asstt. Director

List of scientists

Sl. No.	Name of Scientist	Designation
1.	Dr. H.G. Prakash	Director of Research
2.	Dr. Kunwar Arjun Singh Parihar	Associate Professor, NARP Hazaratpur
3.	Dr. V.P. Nagaich	Incharge, Mauranipur
4.	Dr. Anil Kumar	Incharge, NARP Daleepnagar
5.	Dr. P.K. Soni	Jr. Agronomist , Mauranipur
6.	Sri Manoj Mishra	Assistant Director
7.	Dr. R.K. Pal	Assistant Professor, C.R.F. Mauranipur
8.	Dr. B.P. Singh	Assistant Professor, NARP Daleepnagar
9.	Dr. R.K. Pandey	Assistant Professor, Directorate of Research
10.	Sri Dharm Dev Singh	Incharge, R.R.S. Bharari Jhansi

No. 204/RR dtt. 24.6.16

Proceedings of ZREAC meeting for Kharif 2016 for Central Plain Zone held on 20-06-2016

The ZREAC meeting for Kharif-2016 for Central Plain Zone held under Chairmanship of Prof. H.G. Prakash, Director Research on 20.06.2016 at 11:30 AM. List of scientists participated in the meeting is annexed.

At the outset, Director Research welcomed the participated scientists and highlighted importance of the meeting. Dr. Anil Singh, Incharge, RRS, Dileepnagar presented the technical programme of Kharif-2016, discussions held and experiments approved for Kharif, 2016 were as under:

Project-1 Evaluation of Rice hybrids under Central plain Zone condition of U.P. (New Experiment). The trial has been given by U.P. Council of Agricultural Research Lucknow will be conducted during Kharif-2016 at oilseed farm Kalyanpur, Kanpur.

Project-2 Effect of organic manures in Aonla based Okra Vegetable cultivar ongoing.

Project-3 On farm demonstration of paddy Variety N.D.R. 359.
New Experiment

Project-4 Off farm demonstration of Til variety Shakhar.
New Experiment

Project-5 Cost and Return analysis of main crops in Central Plain Zone of U.P.
Regular Feature

The meeting ended with vote of thank to the chair.

Approved

20/6/2016

(H.G. Prakash)
Director Research

R K Pandey

(R.K. Pandey)
Assistant Professor

(Manoj Mishra)
Asstt. Director

List of scientists

Sl. No.	Name of Scientist	Designation
1.	Dr. H.G. Prakash	Director of Research
2.	Dr. Kunwar Arjun Singh Parihar	Associate Professor, NARP Hazaratpur
3.	Dr. V.P. Nagaich	Incharge, Mauranipur
4.	Dr. Anil Kumar	Incharge, NARP Daleepnagar
5.	Dr. P.K. Soni	Jr. Agronomist , Mauranipur
6.	Sri Manoj Mishra	Assistant Director
7.	Dr. R.K. Pal	Assistant Professor, C.R.F. Mauranipur
8.	Dr. B.P. Singh	Assistant Professor, NARP Daleepnagar
9.	Dr. R.K. Pandey	Assistant Professor, Directorate of Research
10.	Sri Dharm Dev Singh	Incharge, R.R.S. Bharari Jhansi

Q10

Directorate of Research

C. S. Azad University of Agriculture & Technology, Kanpur-208002

Ref. 83-A/DR/2017
Dated: 09.05.2017

Circular

Departmental Research Advisory Committee and Zonal Research Extension Advisory Committee meetings will be held as per schedule given below to discuss and finalize research programmes for ***Kharif* 2017**. Technical programme will be presented in PPT mode on the prescribed format which is overleaf. The schedule of dates should be adhered to.

S.N	Faculty/Discipline	Date & Time
A.	**Faculty of Agriculture**	
1	Vegetable Science	15.05.2017 at 10:30 AM
2	Horticulture	16.05.2017 at 10:30 AM
3	Genetics & Plant Breeding	17.05.2017 at 10:30 AM
4	Agronomy	18.05.2017 at 10:30 AM
5	Entomology	19.05.2017 at 10:30 AM
6	Crop Physiology	20.05.2017 at 10:30 AM
7	Seed Science & Technology	22.05.2017 at 10:30 AM
8	Soil Science Agril. & Chemistry	23.05.2017 at 10:30 AM
9	Plant Pathology	24.05.2017 at 10:30 AM
10	Soil Conservation & Water management and Forestry	25.05.2017 at 10:30 AM
11	Agril. Biochemistry	26.05.2017 at 10:30 AM
12	**ZREAC South Western Semi Arid Zone, Kalai Aligarh**	27.05.2017 at 10:30 AM
13	Agril. Economics & Statistics	29.05.2017 at 10:30 AM
14	Agriculture Extension	30.05.2017 at 10:30 AM
15	Animal Husbandry & Dairying	31.05.2017 at 10:30 AM
16	**ZREAC Central Plain Zone, Dileepnagar**	01.06.2017 at 10:30 AM
B.	**Faculty of Home Science**	
1	Food Science & Nutrition	03.06.2017 at 10:30 AM
2	Family Resource Management	
3	Extension Communication & Management	
4	Human Development	
5	Textile & Clothing	
C.	**Faculty of Agril. Engineering & Technology**	05.06.2017 at 10:30 AM

Encl. Overleaf.

9/5/2017

(H.G. Prakash)
Director Research

Copy forwarded to following for information and necessary action.

1. HoD(s)/Incharges of all Departments with request to please inform all the scientists working on subject concern along with scientists of the KVKs.
2. Incharges Rabi Cereal, Oilseed, Legume and Vegetable Sections
3. Officer Incharge of all NARP Research Stations
4. Unit Incharge Sorghume, Cotton, Tobacco and Paddy
5. Deputy Director Seed & Farms
6. Director Extension with request to please inform to Programme Coordinator of all KVKs of the Zone to ensure their participation in ZREAC meetings.
7. Dean, Faculty of Agriculture
8. Dean, Faculty of Home Science
9. Dean, Faculty of Agril. Engineering & Technology Etawah
10. T S to V C for kind information of Hon'ble Vice Chancellor.
11. Gaurd file Directorate of Research

(H.G. Prakash)
Director Research

Department of Agricultural Biochemistry

C.S. Azad University of Agriculture and Technology, Kanpur

PROCEEDINGS OF RAC-KHARIF 2017-18

No. ABC- 276 **/2017** **Dated:27/07/2017**

The RAC-*Kharif* 2017-18 of Agricultural Biochemistry was held on 30/06/2017 in the department under the Chairmanship of Assistant Director Research .The following scientists participated in the meeting:

1. Dr.Manoj Mishra, Assistant Director Research
2. Dr. Dr. R.K.Pandey,Asst.Prof. Directorate of Research
3. Dr.Madhu Vajpeyi,HOD ,ABC
4. Dr.Ved Ratan,HOD, Plant Pathology
5. Dr.C.L.Maurya,HOD,Seed Technology
6. Dr. S.B. Pandey,Asst. Chemist,Soil Science & Agrl. Chemistry
7. Dr. Lallu Singh, Prof. Agrl. Biochemistry
8. Dr. Rakesh Babu, Asst. Prof. /Asst. Chemist-Legumes
9. Dr. Nand Kumar, Asst. Prof. /Rice Biochemist
10. Dr. S.P. Kushwaha, Asst. Prof.,Crop Physiology
11. Dr. S.P. Singh Tyagi,HOD,AHD
12. Dr. S. K.Gupta,HOD,GPB
13. Dr. Rakesh Kumar Singh,Asst.Prof.,AES
14. Dr.Sarvesh Kumar,Assoc. Prof.,SCWM
15. Dr.S.M. Tripathi,Asst. Prof. Horticulture

Directorate of Agricultural Experiment Station
Diary No. 1430/DR/17
Date 28/07/17
C.S. Azad University of Agriculture and Technology, Kanpur

There were five programmes, out of which three programmes were new and two programmes were concluded . The following decisions were taken regarding the execution of experiments:

- All the experiments were approved with some minor corrections .
- For experiment No. 4, seeds of three varieties will be provided by DDSF.

The meeting ended with a vote of thanks .

(Madhu Vajpeyi)

HOD

No & dated as above

C.C.to

1.Director Research, C S A U, Kanpur

2.Dean, College of Agriculture

3.HODs of various departments Viz; Crop Physiology, GPB, Horticulture,Agronomy,Seed Science& Technology,Pathology,Entomology,Soil Sci.& Agri. Chemistry,Animal Husbandry & Dairying,Economics & Statistics,Soil& Water Conservation,Agri Extention

4. Oilseed ,Legume and Rabi Cereal Sections

5.Technical Secretary to the Vice Chancellor for kind information of Hon'ble Vice Chancellor

Sri Manoj Mishra 27/7

(Madhu Vajpeyi)
HOD

Proceeding of Research Advisory Committee Meeting of Agronomy for *Kharif*-2017

The Research Advisory Committee meeting of the Dept of Agronomy was held on 21.06.2017 under the Chairmanship of Dr. Karam Husain, Head, Department of Agronomy for finalizing the research programme of ***Kharif*, 2017** in committee room of the department of Agronomy, C. S. Azad University of Agriculture & Technology, Kanpur.

The following officers/ scientists were present:

S.No.	Name	Designation
1.	Prof. H.G. Prakash	Director Research
2.	Prof. Karam Husain	Head, Dept of Agronomy and Chairman
3.	Prof. Lallu	Head, Dept of Crop Physiology
4.	Prof. D. D. Yadav	Professor, Dept of Agronomy
5.	Prof. Sanjeev Kumar	Professor, Dept of Agronomy
6.	Prof. Ram Ashish Yadav	Professor, Agronomy (EBR Section)
7.	Prof. Ram Pyare	Professor, Dept of Agronomy
8.	Dr. A.K. Dubey	Head, Vegetable Science
9.	Dr. A.K. Srivastava	Associate Professor, Dept of Agronomy
10.	Dr. V.K. Verma	-do-
11.	Dr. G.S. Parihar	-do-
12.	Dr. M.Z. Siddiqui	-do-
13.	Dr. Naushad Khan	-do-
14.	Dr. S.K. Srivastava	Associate Professor, Agronomy (Castor Scheme)
15.	Dr. Keshav Arya	Incharge, AICRP, Maize
16.	Dr. Jagdish Kumar	Associate Professor, Agronomy (Cotton Scheme)
17.	Dr. S.K. Uttam	Associate Professor, (Soil Cons. & Water Mgt.)
18.	Dr. A.K. Sachan	Assistant Director, Seed & Farm
19.	Dr. Y.K. Singh	Assistant Professor, (Integrated Farming System)
20.	Dr. Jitendra Singh	OFR, Agronomist AICRP IFSR
21.	Dr. Mohd. Aslam	Assistant Professor, Crop Physiology
22.	Dr. Uma Shankar Tiwari	Assistant Professor, (Integrated Farming System)
23.	Dr. J. Rai	Assistant Professor, Dept. of Agril. Economics
24.	Er. Lal Mani	Assistant Professor, Dept of Agronomy
25.	Dr. A.K. Tripathi	Assistant Professor, Dept of Agronomy
26.	Shri Raj Veer Singh	Assistant Professor DST
27.	Dr. Rajiv	Jr. Agronomist, Vegtable Section
28.	Dr. S.K.Singh	Assistant Professor, GPB
29.	Dr. S.P. Kushwaha	Assistant Professor, Crop Physiology
30.	Dr. R.K. Pandey	Assistant Professor, Directorate of Research
31.	Dr. S.M. Tripathi	Assistant Professor Dept. of Horticulture
32.	Dr. Manoj Mishra	Assistant Professor, Directorate of Research
33.	Dr. S.B. Pandey	Assistant Chemist, Soil Sc. & Agric. Chemistry
34.	Dr. V.B. Jaiswal	Jr. Agronomist AINRP(T)
35.	Dr. C.B. Singh	Field Assistant, Dept of Agronomy

Meeting started with the welcome address of the Chairman, Prof. Karam Husain. Prof. Husain welcomed all the participants of different departments of the university. In his welcome address Prof. Husain emphasized to take up the need based research keeping in mind the challenges to provide food and fibre to the growing population of the country along with nutritional security. He also pointed out that emerging challenges includes climate change, availability of quality seed, water availability, energy needs etc. which must be considered effectively for sustainable production. He exhorted the agronomist to formulate their research programmes on the basis of farmers' feedback and keeping in view the regional priorities.

Prof. H.G. Prakash, Director Research in his address also emphasized need based research as well as the need of integration of scientists of different disciplines to carry out result oriented research. He suggested the scientists to reorient their research so as to increase the production of pulses which is the main source of protein in vegetarian diet and its price is increasing day by day due to its poor production. He emphasized the need to develop variety which survives under aberrant weather condition without impairing yield and quality of the produce. He also gave emphasis that research should be farmers need based rather than traditional one. The research should be based on farming system research. He also emphasized the role of agronomist in present context of climate change and need of climate resilient farming to cope up the requirements of increasing population without deteriorating the natural habitat.

At the end chairman advised the scientists to pool their wisdom in depth with enthusiasm and do in-depth discussion to formulate the strategies for elevating sustainable agriculture production. He felt confidence on scientists of varied back grounds, experience and knowledge to address the matters that is lying before the nation.

Review of previous meeting

The proceeding of previous RAC meeting held on 26th May, 2016 and circulated to members vide letter no. AGR/EN-279 dated 3rd August, 2016 was reviewed. Since, there was no communication received from any members hence the proceeding is confirmed.

Chairman reviewed the progress of decisions of previous meeting one by one and discussed about the reason of shortfall in few cases. He gave appropriate suggestions and advised to prepare compliance report timely.

Discussion on Research Programme

All the research programmes were presented on power point. All the scientists/in-charge of the projects/schemes presented their programme one by one, which were discussed at length. The decision taken is here as under:

AICRP on Agro-meteorology

Dr C.B. Singh, Field Asstt. on behalf of Dr. A.P. Dubey, presented the research findings of *Kharif* 2016 and technical programme for *Kharif* 2017. Weekly initial probability of 20 mm or more wet [P(w)] followed by wet week [P(w/w)] and dry week [(P(w/d)] using 45 years' rainfall data This indicate that a short duration *Kharif* crop can be grown during 25 to 37 meteorological weeks being higher chances of getting adequate amount of moisture at critical stage of rain fed crops. Thus, crop sown during 25 to 27th Standard Meteorological Weeks (SMW) would not suffer from moisture stress during crop period, if crop duration is 80- 95 days. As short duration pulses are very sensitive to rainfall particularly at flowering stage, therefore experiments should be planned to decide the optimum sowing period for Urd and Mung during *Kharif* season,

Crop weather calendar of medium duration rice crop for Kanpur showed that mean temperature 28-30°C, RH 80-90% and cloudiness conditions or > 30 mm rainfall at tillering stage are favourable conditions for infestation of Bacterial Blight, while 32-35°C maximum and 22-25°C minimum atmospheric temperature with 75-80% RH at panicle initiation stage are congenial weather conditions for the infestation of Gandhi Bug.

Exp. No. 1: Studies on paddy- wheat cropping system in relation to weather.

The results were discussed and experiment will be continued.

Action: Agro-meteorologist

Exp. No. 2: Influence of weather parameters on growth and yield of maize varieties growing under different environment. (New Experiment)

The experiment discussed and approved.

Action: Agro-meteorologist

Agromet Advisory Services (AAS) under GMS:

Sri Rajveer Singh presented the economic impact of agro-advisory service during *Kharif* season of 2015-16. Further he stated about the results and achievement of Forecasting of Agricultural output using Space Agro-meteorology and Land based observation (FASAL).

Exp. No. 1: Starting of Experimental Agro-meteorological Advisory Services.

Shri Raj Veer Singh presented the result and experiment will be continued.

Action: Technical Officer, DST

AICRP on Cotton

Technical programme of cotton was presented by Dr. Jagdish Kumar, Agronomist Cotton Scheme (ICAR). He presented the results of two experiments and introduced one new experiment.

Exp. No. 1: Developing suitable Agronomy for *Bt hybrid* variety of the region.

Results of the experiment was presented and discussed. Experiment will be continued.

Action: Cotton Agronomist

Exp. No. 2: Technology for organic cotton production.

Results of the experiment was presented and discussed. Experiment will be continued.

Action: Cotton Agronomist

Exp. No. 3: Enhancing Nitrogen use efficiency in Bt cotton. (New Experiment)

The experiment discussed and approved.

Action: Cotton Agronomist

Exp. No. 4: Labour saving techniques in cotton cultivation. (New Experiment)

The experiment discussed and approved.

Action: Cotton Agronomist

Exp. No. 5: Performance of *hirsutum* cotton under HDPS.

Results of the experiment was presented and discussed. Experiment will be continued

Action: Cotton Agronomist

Exp. No. 6: Efficacy testing on Bt cotton.

Results of the experiment was presented and discussed. Experiment will be continued

Action: Cotton Agronomist

AICRP on Castor

Technical programme of castor was presented by Dr. S. K. Srivastava, Castor Agronomist. He presented results of two experiments and introduced one new experiment.

Exp. No. 1: Integrated weed management in Castor.

Results of the experiment was presented and discussed. Experiment will be continued.

Action: Castor Agronomist

Exp. No. 2: Comparative efficacy of PSB and bio-phos on the performance of Castor.

Results of the experiments was presented and discussed. Experiment will be continued.

Action: Castor Agronomist

Exp. No. 3: Agronomic requirements of castor hybrids in AHT-II

Results of the experiments was presented and discussed. Experiment will be continued.

Action: Castor Agronomist

He also conducted three IVH and AVHT trials and reported data.

AICRP on Pigeon pea

Technical programme of pigeon-pea presented by Dr Akhilesh Mishra, Agronomist, He presented results of three trials.

Exp. No. 1: Nutrient and Pest management in Pigeon pea.

Results of the experiment was presented and discussed. Experiment will be continued.

Action: Pigeon pea Agronomist

Exp. No. 2: Compatibility studies of insecticides and growth regulators on growth and yield of Pigeon pea.

Results of the experiment was presented and discussed. Experiment will be continued.

Action: Pigeon pea Agronomist

Exp. No. 3: Standardization of crop geometry and nutrient management in *rabi* Pigeon pea.

Results of the experiment was presented and discussed. Experiment will be continued.

Action: Pigeon pea Agronomist

AICRP on Rice

Technical programme of rice was presented by Shri Hari Ram, Agronomist, AICRP, Rice.

Expt.No. 1: Nitrogen response trials on selected AVT-2 AL & ISTVT rice cultures under high and low input management.

Results of the experiment discussed and will be continued.

Action: Paddy Agronomist- soil scientist

Expt. No.2: Climate resilient management practices in rice and rice based cropping systems.

Results of the experiment discussed and will be continued.

Action: Paddy Agronomist

Expt.No. 3: Yield maximization through different source of nutrient.

Results of the experiment discussed and will be continued.

Action: Paddy Agronomist- soil scientist

Expt.No. 4: Yield maximization of rice through site specific nutrient management.

Results of the experiment discussed and will be continued.

Action: Paddy Agronomist- soil scientist

Expt.No. 5: Efficiency of Neem coated urea (NCU) in irrigated rice ecosystem.

Results of the experiment discussed and will be continued.

Action: Paddy Agronomist- soil scientist

He also conducted integrated management trials for recent release varieties for yield maximization. Experiments discussed and will be continue as per AICRP Rice guideline.

Rice (Non- Plan)

Dr. G. S. Parihar presented results of one experiment.

Expt. No. 1: Response of INM (Integrated Nutrient management) to rice varieties.

Experimental results discussed and will be continued. HoD suggested that yield attributes should be presented in the result. **Action: Dr. G. S. Parihar**

AICRP on IFS

On Station, technical programme of Integrated Farming Systems was presented by Dr. Y.K. Singh. He presented results of experiments along with IFS Model of on station trials as well as three experiments of On Farm Research programme.

Exp. No.1: Identification of biologically efficient and profitable cropping systems in Central Plain Zone of U. P.

Result of experiment was discussed and experiment will be continued.

Action: Scientist- farming system

Exp. No. 2: Permanent trial on integrated nutrient supply in rice- wheat system.

Result of the experiment was discussed and experiment will be continued.

Action: Scientist- farming system

Exp. No. 3: Development of farming system modules for central plain zone of U. P.

Result of the experiment was discussed and experiment will be continued.

Action: Scientist- farming system

On Farm Research Programme presented by Dr Jitendra Singh.

OFR results

Exp. No. 1: On farm crop response to plant nutrients in predominant cropping system and their impact on crop-live stock-human continuum.

Experimental results were discussed and experiment will be continued.

Action: OFR Agronomist

Exp. No.2: Diversification of existing farming systems under marginal households' conditions.

Experimental results were discussed and experiment will be continued.

Action: OFR Agronomist

Exp. No.3: On farm evaluation of farming system modules for improving the profitability of small and marginal households.

Result of experiment was discussed and will be continued.

Action: OFR Agronomist

Vegetable Science

Technical programme of vegetable science was presented by Dr. Rajeev. He presented result of one experiment.

Exp. No. 1: Weed management in Okra.

Results of the experiment were discussed and experiment will be continued.

Action: Dr. Rajeev

AICRP on Maize

Programme of Maize could not be presented as experiments were not finalized by Project directorate of Maize. He will present programme latter with the committee formed under HoD Agronomy.

Action: Dr. Keshav Arya

Teaching Non-Plan

Exp. No 1: Integration of aromatic plants in the existing cropping system to mitigate the effect of climatic change.

Results of the experiment discussed and will be continued

Action: Dr. A. K. Srivastava

Exp. No 2: Assessment of Sesame varieties and nutritional levels in changing climatic conditions.

Results of the experiment discussed and will be continued.

Action: Dr. Mohd. Aslam

Note: The other research programmes related to teaching will be finalized by Head, Dept of Agronomy after the consultation with concerned faculty.

Suggestions by the Chairman

- All scientists should be present during meeting that will help in learning of new innovative ideas. **(Action: All scientists)**

- Compliance of the decision regarding experiments should reach one month before next meeting. **(Action: All scientists)**

- The chairman advised the scientists to visit their experiments frequently for ensuring proper monitoring. **(Action: All scientists)**

Meeting ended with vote of thanks proposed by the convener of the meeting to the Director Research, Chairman, Heads of various disciplines and all committee members for actively participating in the fruitful discussion and suggestions during meeting.

(**Karam Husain**)
Head, Dept of Agronomy

No. AGR/EN- 397 /17 Dated: 31.08.2017

Copy forwarded to the following for information and necessary action.

1. Director, AES
2. Dean, College of Agriculture
3. Director, Extension
4. Concerned scientists/Agronomists
5. Technical secretary to V.C. for kind information of Hon'able Vice-Chancellor

(**Karam Husain**)
Head, Dept of Agronomy

Proceeding of Research Advisory Committee Meeting of Kharif,2017 of the Department of Crop Physiology held on July 5,2017 at 2:30 P.M. in committee room.

Participants.

1. Dr. Lallu. Professor & Head,Crop Physiology
2. Dr. R.K.Pandey, Director of Research
3. Dr. Manoj Mishra, Asstt. Director of Research
4. Dr. S.K.Gupta,. Professor & Head, Genetics & Plant Breeding
5. Dr. Karam Husain, Professor & Head, Agronomy
6. Dr. Ved Ratan, Professor & Head, Plant Pathology
7. Dr. Lokendra Singh,Incharge,Lecgume
8. Dr. Sarvesh Kumar,Associate Professor,Soil Conservation
9. Dr. S.N. Singh, Asstt. Professor, Crop Physiology.
10. Dr. C.B. Verma, Asstt. Professor, Crop Physiology
11. Dr. S.P. Kushwaha, Asstt. Professor, Crop Physiology
12. Dr. M.A. Khan, Asstt. Professor, Crop Physiology
13. Dr. D.K. Tripathi, Asstt. Professor, Crop Physiology
14. Dr. A. K.Singh, Asstt. Professor, Crop Physiology
15. Dr. O.P. Singh, Asstt. Professor, Crop Physiology
16. Dr. Mohd. Aslam,Asstt. Professor, Crop Physiology
17. Dr. Rakesh Babu, , Asstt. Professor, Agril. Biochemistry
18. Dr. S.B.Pandey, Asstt. Professor, Soil Science & Agri. Chemistry
19. Dr. R.A. Katiyar, Asstt. Professor, Seed Science & Technology
20. Sri Arun Srivastava,Computer,Crop Physiology

At the outset Dr. Lallu, Professor & Head, Department of Crop Physiology gave a warm welcome to all participants scientist and then urged concern scientist to present their respective programme in light of the priority area of research. Dr. Manoj Mishra,, while going through the action taken report enquired with each scientist about the follow-up action taken by the concern as mentioned in action taken report.

Technical programme presented by each scientist were discussed in length and following decision were taken.

1.1 Experiment on Production Physiology presented by Dr. O.P.Singh, was approved as such..

2.1 Concluded

2.2 Experiment on crop nutrition presented by Dr. C.B.Verma, which was approved with committee decision that only Pragati variety should be taken and S.A. to be spray at on 20,40 and 60 DAS. Protein data should also be taken.

3.1 Experiment on stress physiology, presented by Dr. S.N.Singh, which was approved as such.

3.2 Concluded

3.3 Experiment was presented by Dr. A.K.Singh, which was approved as such.

3.4 Experiment on stress physiology, presented by Dr. M.A.Khan, which was approved with committee decision that Urd variety Azad-2 should be taken.

4.1 Concluded.

4.2 Experiment on bio-regulators presented by Dr S.P. Kushwaha which was approved with committee decision that 20 days silicon spray to be deleted.

4.3 Experiment presented by Dr. D.K. Tripathi, which was approved as such.

5.1 Approved

In the end of meeting Dr. Lallu, Professor & Head expressed vote of thanks to all participants for attending the RAC meeting.

(Lallu)
Professor & Head

No. C.P. 532 / Dated: Aug. 17 .2017

Copy to:-

1. Director, A.E.S.
2. Dean, College of Agriculture.
3. Technical secretary to Hon'ble Vice-Chancellor for information to Hon'ble Vice-Chancellor
4. All concerned HOD.

(Lallu)
Professor & Head

Directorate of Agricultural Experiment Station
Diary No. 1758/DR/17
Date 23/08/17
C.S. Azad University of Agriculture and Technology, Kanpur

Department of Entomology

C.S. Azad University of Agriculture & Technology, Kanpur-2

No.ENT- 283 /2017 Dated: 22.08.2017

Proceeding of Research Advisory Committee meeting held on 05.07.2017 for Kharif 2017.

The Research Advisory Committee meeting was held on 05.07.2017 in the Department of Entomology. This meeting was chaired by Director, AES Dr. H.G. Prakash and other technical staff of Directorate of Research were also present.

The following member were present in the meeting:

Sl. No.	Name	Designation	Department
1.	Dr. H.G. Prakash	Director Research	Directorate of Research
2.	Dr. Manoj Mishra	Asstt. Director Research	Directorate of Research
3.	Dr. R.K. Pandey	Asstt. Prof.	Directorate of Research
4.	Dr. Neerja Agrawal	Prof. & Head	Entomology
5.	Dr. D.R. Singh	Professor	--do--
6.	Dr. Kripa Shanker	,,	--do--
7.	Dr. Y.P. Malik	,,	--do--
8.	Dr. Ram Singh Umrao	Asstt. Professor	--do--
9.	Dr. R.K. Dwivedi	,,	--do--
10.	Dr. A.S. Srivastava	,,	--do--
11.	Dr. Shriddha saxena	,,	--do--
12.	Dr. Fazal Ahmad	,,	--do--
13.	Dr. R.K.S. Gautam	,,	Horticulture
14.	Dr. M.Z. Siddiqui	,,	Agronomy
15.	Dr. S.K. Uttam	,,	Soil Cons. & Water Mngt.
16.	Dr. S.B. Pandey	Asstt. Chemist	Soil Sci. & Chemistry

First of all Dr. Neerja Agrawal, Professor & Head, Department of Entomology, welcomed the Chairman and all other participants. Then she presented the action taken report of Kharif 2016 as per decision taken in the previous meeting. She also presented the thrust area and research achievements for the year 2016.

1. An experiment had been concluded during Kharif 2016 for management of *Hetrodera cajani*. It was found that seed treatment with *Pseudomonas fluorescens* was proved most effective for decreasing the population of *H. cajani* with increasing yield in sesamum.
2. Rodent control measures had been applied and menace has been controlled in nearby farms of university and seed processing plant.

Various proposed project were presented by concerned research scientists. The decisions taken after discussion are mentioned as below.

Project No. 1- Approved with the suggestion that another variety ICP-212 should also be included

Project No. 2-Approved with the suggestion that data should be analyzed statistically and doses of insecticides should be mentioned in kg or liter per hectare.

Prof & Head

Project No. 3-Approved as such with a suggestion that the size of plot & the names of different pollinations should be mentioned.

Project No. 4-Approved as such with a suggestion that new molecules of rodenticides may also included if available.

Project No. 5 & 6- Approved as such.

Project No. 7- Approved with suggestion that the title of project should changed as the "studies on Natural prevalence of butterfly of C.S.A. University", and the names of species should also be mentioned.

Project No. 8- Approved as such with a suggestion that species name should also be mentioned.

Project No. 9-Approved as such with minor correction in the title as it was mentioned during Rabi in CSAU&T Campus which should be replaced with during Kharif in CSAU&T Campus.

Project No. 10-16 Approved as such

After presentation of all projects by concerned scientists, Director AES appreciated the preparation and interaction of the house for research work.

The meeting ended with vote of thanks by Dr. Kripa Shanker.

(Neerja Agrawal)
Professor & Head
Prof & Head
Deptt. of Entomology
C.S.A. Univ of Agri. & Tech
Kanpur

Department of Genetics and Plant Breeding

Research Advisory Committee Meeting *Kharif* 2017-18
23-24 June, 2017

At the outset Dr. Sarvendra Kumar, Professor & Head welcomed all participating scientists and teachers. Director Research chaired the meeting. In his address he pointed out that last year seven varieties of different crops were released by university. He also informed the house that two centers of excellence will be developed in university on wheat and vegetable respectively with the help of UPCAR. Following research programmes were presented by different crop breeders:

1. Rice: Research programme was presented by **Dr. V. K. Yadav**

Part A-

Project 1 to 7: Approved.

Part B-

Project 8 to 13: Approved.

2. Pigeon pea: Research programme was presented by **Dr. A.K. Srivastava**

Project/Experiment: 1-5 Approved.

3. Mung bean: Research programme was presented by **Dr. Manoj Katiyar**.

Expt. No. 1 to Expt. No. 3: Approved.

AICRP MULLaRP

Expt. No. 1: Approved.

4. **Urdbean**: Research programme was presented by **Dr. Geeta Rai.**

Expt. No.1 to Expt. No.4: Approved.

Expt. No.5: Approved with suggestion to mention CD and CV.

Expt. No.6 to Expt. No. 8: Approved.

AICRP MULLaRP

Expt. No. 1: Approved.

5. **Groundnut**:- Research Programme was presented by **Dr. M.C. Verma**

Expt. No.1: Approved with suggestion to evaluate genotypes on the basis of groups. This year evaluate genotypes of Virginia group only.

Expt. No. 2 to 3: Approved.

Expt. No. 4: Approved with suggestion to use tolerant word in place of resistant under name of project. It was further suggested by house to club the crosses having same parentage from F_3 and onward generations.

Expt. No. 5 to 7: Approved.

Expt. No. 8: Approved with suggestion to check duration of maturity.

Expt. No. 9 to 11: Approved.

6. **Sesame:** Research programme was presented by **Dr. S.K. Srivastava**.

Expt. No. 1 to Expt. No. 6: Approved.

7. **Castor**: Research programme was presented by **Dr. S.K. Srivastava**.

Expt. No. 1 to 4: Approved

Expt. No. 5: Approved with suggestion to test only superior entries.

Expt. No. 6 to 7: Approved.

Dr. S.K. Singh gave vote of thanks.

Prepared by

(S.K. Singh)

(R.P. Vyas)

Approved

(Sarvendra Kumar)
HoD, Genetics & Plant Breeding

(H.G. Prakash)
Director Research

RAC Meeting
Kharif 2017
List of participants

S.No.	Name and Designation	Deptt./Section
1.	Dr. H.G. Prakash, Director Research	Directorate of Research
2.	Dr. Mahak Singh, Breeder (R&M)	Oilseed Section
3.	Dr. R.K. Pandey, Asstt. Director	Directorate of Research
4.	Dr. A.K. Dubey, Officer Incharge	Vegetable Science
5.	Dr. V.K. Yadav, Officer Incharge	AICRP on Rice
6.	Dr. Nand Kumar, Asstt. Biochemist	Agril. Biochemistry
7.	Dr.R.P. Vyas, Asstt. Professor	Genetics and Plant Breeding
8.	Dr. A.K. Singh, Asstt. Professor	Genetics and Plant Breeding
9.	Dr. A.K. Srivastava, Incharge/Tobacco Breeder	CRF, Araul
10.	Dr. A.K. Dwivedi, Asstt. Professor	Horticulture
11.	Dr. Manoj Katiyar, Asstt. Prof./Mung & Lentil Breeder	Legume Section
12.	Dr. S.V. Singh, Wheat Breeder	Rabi Cereal Section
13.	Dr. K.P. Singh, Asstt. Professor/Pigeon pea Breeder	Legume Section
14.	Dr. Ved Ratan, Head of Department	Plant Pathology
15.	Dr. P.K.Gupta, Barley Breeder	Rabi Cereal Section
16.	Dr. Lokedra Singh, Assoc. Professor/I/c Legume Section	Genetics and Plant Breeding
17.	Dr. (Mrs.) Geeta Rai, Asstt. Professor/Fieldpea & Urd Breeder	Legume Section
18.	Dr. Manoj Mishra, Asstt. Director	Directorate of Research
19.	Dr. Keshav Arya, I/c Maize	Maize Scheme
20.	Dr. Jagdish Kumar, I/c Cotton	Cotton Section
21.	Dr. G.S. Parihar, Assoc. Professor	Paddy Project (Non Plan)
22.	Dr. R.K. Yadav, Professor	Genetics and Plant Breeding
23.	Dr. Sanjeev Kumar, Professor	Agronomy
24.	Dr. S.K. Singh, Asstt. Professor	Agronomy
25.	Dr. S.P. Singh, Tyagi, Professor and Head	Animal Husbandry Dairy
26.	Dr. C.B. Singh, Asstt. Professor	Seed Science & Technology
27.	Dr. M.C. Verma, Asstt. Professor /Groundnut Breeder	CRF, Manpuri
28.	Dr. V.P. Bajpai, Asstt. Professor	E.B. (Cotton)
29.	Dr. S.K. Gupta, Professor and Head	Genetics and Plant Breeding

Proceeding of Research Advisory Committee Meeting of Department of Plant Pathology for *Kharif* - 2017

No.: 159 /PP/2017 Dated: 14.07.2017

Date: June 23, 2017

Presence:

1. Dr. A.L. Jatav, Professor, Seed Technology
2. Dr. D.R. Singh, Professor, Entomology
3. Dr. S.K. Gupta, Professor & Head, Genetics & Plant Breeding
4. Dr. Md. Shamim, Assistant Director, DES
5. Dr. Manoj Mishra, Assistant Director, DES
6. Dr. Ved Ratan, Professor & Head, Plant Pathology
7. Dr. S. K. Biswas, Associate Professor, Plant Pathology
8. Dr. R. K. Pandey, Assistant Professor, Directorate of Research
9. Dr. Ramesh Singh, Assistant Professor, Plant Pathology
10. Dr. S.B. Pandey, Assistant Professor, Soil Science & Agril. Chemistry
11. Dr. Nand Kumar, Assistant Professor, Agril. Biochemistry
12. Dr. C.B. Verma, Assistant Professor, Crop Physiology
13. Dr. R.K.S. Gautam, Assistant Professor, Horticulture

The meeting was started with the warm welcome of the members of different departments and the faculty members of Plant Pathology by Head, Plant Pathology.

Head, Plant Pathology briefly highlighted the significant achievements of the last year's *Kharif* Programme 2016. He also informed to the house that total 10 research proposals have been submitted by the faculty members to discuss in the meeting.

Each of these Projects was discussed thoroughly and decision/ suggestions were noted and are given below:

A. Projects from Department of Plant Pathology

1. **Project no 1:** Screening of cotton varieties/ cultures against major diseases- **Approved**.
2. **Project no 2:** Management of Bacterial blight of sesame through bioagents and chemicals- **Approved**.
3. **Project no 3:** Screening of sesame varieties / germplasm of sesame against major diseases (bacterial leaf spot, Alternaria blight and Phytophthora blight)- **Approved**.
4. **Project no 4:** Efficacy of Calcium chloride as inducer in induced resistance in tomato against Fusarium wilt **Approved** with the suggestions that treatment detail will be given.

B. Technical Programme Of Vegetable Pathology For The Year 2017-18
AICRP Center Kalyanpur, Kanpur

5. **Programme No. 1:** Nursery disease management by using bio-agents and new fungicides (Chilli) **Approved**.
6. **Programme No. 2:** Integrated management of Vector born virus disease of Chilli- **Approved**.
7. **Programme No. 3:** IDM package for Tomato Diseases- **Approved**.
8. **Programme No. 4:** IDM package for cucurbit diseases (Bottle gourd)- **Approved**.
9. **Programme No. 5:** Monitoring of emerging diseases of vegetable crops- **Approved**.
10. **Programme No. 6:** Assessment in yield losses due to major diseases in tomato- **Approved**.

The meeting was ended with vote of thanks by Dr. Ramesh Singh, Assistant Professor, Plant Pathology.

Approved
14/7/2017

(Ved Ratan)
Head, Plant Pathology

(H.G. Prakash)
Director, AES

Agricultural Experiment Station
C.S. Azad Univ. of Agri. & Tech.
KANPUR

No. DST-533/2017
Dated:. 26-07-2017

Proceedings of R.A.C. meeting of Department of Seed Science & Technology, C.S.Azad University of Agriculture and Technology, Kanpur-2 for Kharif -17 held on 11.07.2017 at 3.00 p.m. in the Committee Room of the Department.

Director of Agricultural Experiment Station
Diary No. 1429 /DR/17
Date 28/07/17
C.S. Azad University of Agriculture and Technology, Kanpur

The following were present in the meeting.

Sl.No.	Name	Designation	Department
1.	Dr. (Mrs.) Poonam Singh	Dean, College of Agriculture	College of Agriculture
2.	Dr. C.L.Maurya	Head of Department	Seed Science & Technology
3.	Dr. D. P. Singh	Joint Director Research	Directorate of AES
4.	Dr. V.K.Singh	Head of Department	Agricultural Extension
5.	Dr. Lallu	Head of Department	Crop Physiology
6.	Dr. S.K. Gupta	Head of Department	Genetics & Plant Breeding
7.	Dr. A. K. Dubey	Head of Department	Vegetable Section
8.	Dr. S. K. Srivastava	Incharge,	Oilseed Section
9.	Dr. Asharfi Lal Jatav	Professor	Seed Science & Technology
10.	Dr. C.P.Sachan	Professor/SPO(Breeder)	Directorate of Seeds
11.	Dr. Ram Ashish Yadav	Professor	E.B.R.
12.	Dr. S. K. Biswas	Professor	Plant Pathology
13.	Dr. Lokendra Singh	Assoc. Professor	Legumes Section
14.	Dr. M. Z. Siddiqui	Assoc. Professor	Deptt. of Agronomy
15.	Dr. C. B. Singh Gangwar	Assistant Professor	Seed Sci. & Tech.
16.	Dr. P. K. Pandey	Assistant Professor	Directorate of AES
17.	Shri Manoj Misra	ADR	Directorate of AES
18.	Dr. P.K.Gupta	Barley Breeder	EBR
19.	Dr. S.V.Singh	Wheat Breeder	EBR
20.	Dr. Jitendra Kumar	Asstt. Professor	EBR
21.	Dr. C.B.Singh	Asstt. Professor	Seed Science & Technology
22.	Dr. P.N.Nigam	ASPO	Directorate of Seeds & Farms
23.	Dr. U.D. Awasthi	Asstt. Professor	Deptt. of SCWM
24.	Dr. P.K.Katiyar	T.A.	Seed Science & Technology
25.	Sri R.K.Swarnkar	T. A.	Seed Science & Technology
26.	Mr. Ameenudin Ansari	M. Sc. (Ag) student	Seed Science & Technology
27.	Mr. Sanjay Kumar	M. Sc. (Ag) student	Seed Science & Technology
28.	Mr. Sandeep Kumar	M. Sc. (Ag) student	Seed Science & Technology

The meeting was commenced with warm welcome of the Chairperson Dr. (Mrs.) Poonam Singh, Dean, College of Agriculture, Dr. D. P. Singh, Joint Director Research, HoDs, Scientists participated from different departments/sections and members of Seed Science & Technology along with research scholars by Dr. C.L. Maurya, Head of Department, Seed Science & Technology. Later on, with due permission of Chairperson, Head of Deptt. highlighted the significant achievements and action taken report Kharif 2016. Besides, the priority areas of research concerned with Seed Science & Technology were also focused before the house.

Head of Department also informed the house that total 15 research proposals of different disciplines have been submitted by the scientists. Out of these, 5 experiments belong to each from seed production and seed physiology, storage & testing; 4 on seed pathology and one on seed entomology and seed processing.

Sri Manoj Mishra

P.T.O.

The concerned scientists presented their experiments, which were discussed thoroughly in the house. Decisions/suggestions emerged out during deliberations are given as below:

Sl.No.	Expt. No.	Decisions/Suggestions	Action to be taken by
1.	1.1	Approved. Breeder & Nucleus seed of variety Pragati will be supplied by DSF/Incharge, oilseed. House suggested that name of collaborator Dr. P. K. Gupta should be included.	Sri P. K. Katiyar Dr. A. L. Jatav
2.	1.2	Approved. Breeder and Nucleus seed of Urd Azad-2 will be supplied by DSF.	Sri R. K. Swarnkar Dr. A. L. Jatav
3.	1.3	Experiment concluded with remark that completely analyzed data in all respect will be presented in *Kharif* 2018 with concrete conclusion.	Dr. C. B. Singh
4.	1.4	House suggested that since the chemical to be used for experimentation is very costly hence to economize the experimentation it may be conducted in pot culture. The financial support required for experimentation will be provided by Dean, College of Agriculture from development grant. Quantity of water to be used for simulation of rains may be quantified. Chemical will be sprayed in two stages (i) at the time of initial flowering (ii) 15 days after first spray	Dr. C. L. Maurya
5.	1.5	House observed that data presented is not correct which may mislead to the wrong conclusion therefore data validation is required.	Sagar Kumar Sharma
6.	2.1	House observed that results mentioned in the text is not supporting to the data presented in the table hence further data validation is required.	Dr. V. P. Bajpai
7.	2.2	Approved as proposed.	-
8.	2.3	Approved as proposed. In view of non availability of seed experiment may be started with fresh harvested seed and the same lot may be used as 'aged lot' when lot shows drastic deterioration in germination.	Shri R. A. Katiyar
9.	2.4	House opined that experiment may be continued and monthly observation may be recorded. Seeds should be stored in jute bag.	Dr. A. L. Jatav
10.	2.5	House suggested that experiment may be continued.	Dr. A. L. Jatav
11.	3.1	House pointed out that separate and afresh experiment should be proposed. House also suggested that Farm Superintendent may observe new disease incidence. The experimenter should be in regular contact of FS to collect the information regarding disease incidence.	Dr. A. L. Jatav
12.	3.2	Approved as proposed.	-
13.	3.3	Approved as proposed.	-
14.	3.4	Approved as proposed. Name of Dr. C. B. Singh may be included.	Dr. A. L. Jatav
15.	4.1	Approved as proposed.	

The meeting was ended with vote of thanks, proposed by Dr. C.P.Sachan, Professor and Seed Production Officer (Breeder Seed).

26.07.17

(C. L. Maurya)
Head of Department

26/7/17

(Har Gyan Prakash)
Director, AES

No. DST /2017 Dated: ,2017

Copy forwarded for information and necessary action:

1. Dean, College of Agriculture.
2. Director, Agriculture Experiment Station/Extension/Seed & Farms.
3. All Head of Deptt. /AICRP Incharges/Sectional Incharges.
4. Concerned Scientists of the Deptt. of Seed Science & Technology.
5. Technical Secretary to V.C. for kind information to Hon'ble Vice Chancellor.

26.07.17

(C. L. Maurya)
Head of Department

Directorate of Agricultural Experiment Station
Diary No. 1198 /DRI. 17
Date 13-7-17
University of Agriculture & Technology, Pantnagar

Proceedings of RAC meeting held on 11.07.2017 for Kharif, 2017-18 in the Department of Soil Conservation and Water Management

A meeting was held on 11.07.2017 to finalize the research programme of Kharif 2017-18. Following scientists/ teachers were present :

S.No.	Name	Designation
1.	Dr. R.K.Pandey	Assistant Professor, Directorate of Research
2.	Dr. R.P. Singh	Head of Department, SCWM
3.	Dr. Munish Kumar	Professor, SCWM
4.	Dr. S.C. Katiyar	Professor, SCWM
5.	Dr. Karam Husain	Professor/ HOD Agronomy
6.	Dr. S.K. Gupta	Professor/ HOD GPB
7.	Dr. S.K. Biswas	Professor, Plant Pathology
8.	Dr. G.S. Parihar	Associate Professor, Paddy Non Plan
9.	Dr. S.K. Uttam	Associate Professor, SCWM
10.	Dr. Kaushal Kumar	Associate Professor, SCWM
11.	Dr. Sarvesh Kumar	Associate Professor, SCWM
12.	Dr. U.D. Awasthi	Assistant Professor, SCWM
13.	Dr. A.K. Katiyar	Assistant Professor, SCWM
14.	Dr. Manoj Mishra	Assistant Director
15.	Dr. R.K. Dwivedi	Assistant Professor, Entomology
16.	Dr. S.B. Pandey	Assistant Chemist, SAC
17.	Dr. Anjani Kumar Singh	Assistant Professor, Agri. Eco. & Stat.

After warm welcome by Dr. R.P. Singh, Head of Department to all participants in the meeting, the achievements and compliance report was presented for various research programmes. During meeting, projects were presented one by one by relevant teachers given as under :

Project No.1: The M.Sc.(Ag.) experiment was conducted for two years. Dr. S.K. Uttam presented the data and project was allowed to conclude by the committee. The recommendations of the trial were as under:

(i) Maize + blackgram (1:1row ratio) gave significantly the highest maize equivalent grain yield and LER than other cropping systems during both the years. In addition, WUE and net return were also noticed more. Total water use was the highest under sole maize plot and the lowest under sole blackgram plot during both the years.

(ii) Ridging and furrowing with the help of *Deshi* plough at 25 DAS in between the crop rows brought out significant improvement in grain yield over other cultural operations during both the years. In addition, LER, WUE and net return were also noticed more. Total water use was the highest under one weeding and hoeing plot and the lowest under ridging and furrowing plot during both the years.

(iii) The interaction between treatment factors was not significant on maize equivalent grain yield and LER during both the years.

Project No.2: A new experiment was presented by Dr. S.K. Uttam related to M.Sc.(Ag.) trial. The theme and experimental planning was approved as such.

Project No.3: It was presented by Dr. U.D. Awasthi related to Ph.D. trial. The project was approved by the committee and allowed to continue in Kharif 2017- 18 for confirmation of the findings.

Project No.4: A new experiment was presented by Dr. Sarvesh Kumar related to P.G.trial. The project was approved with the suggestion that "limited water' word should be corrected as " water stress" from the title of the project and delete a treatment of " green manuring through Dhaincha" and add "sesame crop" from the Kharif crop treatments. Further the committee suggested that "two irrigation at 22 DAS and at milking stage in wheat" should be applied instead of "two irrigation at 22 DAS and at 42 DAS in irrigation treatment. It was also suggested to incorporate yield attributes of Kharif crops i.e. urdbean, maize and sesame.

Project No.5: A new experiment was proposed and presented by Dr. R.P. Singh of their M.Sc.(Ag.) student. The experiment was approved as such.

Project No.6: The experiment was presented by Dr. U.D. Awasthi related to P.G.. trial and allowed to conclude after two years of experimentation.

Project No. 7: Last years M.Sc.(Ag.) trial was presented by Dr. Munish Kumar. The project was approved by the committee and allowed to continue in Kharif 2017-18 for confirmation of the findings.

Project No. 8: A new experiment was presented by Dr. Kaushal Kumar related to M.Sc.(Ag.) trial. The theme and experimental planning was approved as such.

The meeting was ended with vote of thanks and concluding remarks by Dr. Munish Kumar, Professor of this department.

12/7/17

(R.P. Singh)
Head of Department

No. 213 /SCWM/2017 Dated: July 12 ,2017

Copy forwarded for information and necessary action to:

1. Dean, College of Agriculture, C.S. Azad University of Agriculture & Technology, Kanpur-2
2. Director, Agricultural Experiment Station (AES), C.S. Azad University of Agriculture & Technology, Kanpur-2
3. Professor & Head(s) of Department – Agronomy, Soil Science & Agril. Chemistry, Plant Pathology, Entomology, Crop Physiology, Agriculture Economics & Statistics and Genetics & Plant Breeding
4. All Teachers/Scientists of the Department
5. T.S. to V.C. for kind information to Hon'ble Vice-Chancellor

12/7/17

(R.P. Singh)
Head of Department

Proceedings of Research Advisory Committee Meeting for Kharif 2017 held on 28.06.2017

Research Advisory Committee Meeting of the Department of Soil Science & Agricultural Chemistry held on 28-6-2017 in the Chamber of Head of Department to discuss for theResearch programme of Kharif 2017 and the achievements of Kharif 2016 under the Chairmanship of Head of Deptt. The following faculty members were present to discuss the programme:

1	Dr. H.G. Prakash	Director Research	Directorate of Research
2	Dr. R.C. Nigam	Head of Department	Soil Sci. & Agril.Chem.
3	Dr. Ved Ratan	H.O.D.	Plant Pathology
4	Dr. S.K. Gupta	HOD	Genetics & Plant Breeding
5	Dr. Ravindra Kumar	Professor & Incharge	Soil Salinity Scheme
6	Dr. A.K. Sachan	Assoc. Prof.	Soil Science & Agril.Chem.
7	Dr. S.K. Uttam	Assoc. Prof.	Soil Conservation
8	Dr.R.N.Dixit	Asstt.Prof.	Soil Sci. & Agril. Chemistry
9	Sri K.N.Singh	Asstt.Prof.	Soil Science & Agril. Chem.
10	Dr. M.R. Pandey	Asstt. Prof.	Soil Science and Agril. Chem.
11	Dr. B. N. Tripathi	Asstt. Prof.	ACRIP Rice
12	Dr. Devendra Singh	Asstt.Professor	Soil Salinity Scheme
13	Dr. Sushil Dimree	Asstt.prof.	Soil Sci. & Agrl. Chem.
14	Dr. Rakesh Babu	Asstt. Prof.	Bio Chemistry
15	Dr. S.B.Pandey	Asstt. Prof.	Soil Science Agril.Chem.
16	Dr. R.S. Umrao	Asstt. Prof.	Entomology
17	Dr. Rakesh Kumar Singh	Asstt. Prof.	Agril.Economics & Statistics
18	Dr. Mohd. Shamim	Asstt. Prof.	Directorate of Research
19	Dr. R.K. Pandey	Asstt. Prof.	Directorate of Research
20	Dr. S.D. Dubey	Asstt. Prof.	Soil Sci. & Agril. Chem.
21	Dr. R.K. Pathak	Asstt. Prof.	Soil Sci. & Agril. Chem.
22	Dr. Ranvir singh	Project Associate`	Soil Science,MNS

At the outset Prof. R.C. Nigam HOD welcomed the Dr. H.G. Prakash, Director Research and other faculty members present in the meeting . Dr. Nigam also focused the departmental achievement before committee and emphasized the use of balanced application for higher yield and sustainable soil health. Dr. Nigam also emphasized the financial problem for running the non plan research of the department.

1- **Quality testing** of pesticides, Fertilizers, manures and allied project are discussed and approved as such.
2- **Soil Fertility:**

   Project No. 1 : After through discussion project approved as such and other Projects of soil fertility heads are approved as such after discussion..
3- **Soil Survey:** All projects are discussed and approved as such.

4- **Soil Testing Scheme:**

1- After the discussion of scientists in the project No.2, the rice variety Pant-12 should be replaced and other recent variety will be taken for experimentation.

2- Other projects of soil testing scheme should be approved as such.

5- **Microbiology:** All Projects are discussed and approved as such.

6- **Adhoc Project: Professor (IFFCO) Chair Programme.**

1- In this project the location of experiment and name of farmer should be mentioned.

2- In this project the table should be corrected and economics of the experiments should be calculated.

3- Project No.2 and Project No.3 are also discussed and approved as such.

7- **Adhoc Project No.2 : All India Coordinated Project of Micro and Secondary nutrients and pollutant elements in soil and plants .**

1- All the programme under this head are discussed and approved as such.

8- **ANIP on Pesticide Residues-ACRIP**

All experiments are discussed and approved as such.

9- One revolving found a/c should be opened for the smooth functioning of Soil Testing Scheme , quality testing of pesticides, fertilizers, manures and biofertilizer production. The H.O.D. of Soil Science and Agril. Chem., Director Research and V.C. will provides necessary help for generating of this A/C.

10- The earning through these three heads should be deposited in Univ. and a part of that amount should be used for chemicals glasswares and other expenditure.

The meeting was be ended with the Vote of thanks proposed by H.O.D. Soil Science and Agril. Chem. CSAU, Kanpur to all the members present in the meeting.

(R.C. Nigam)
Head of Department

Deptt. of Soil Science & Agricultural Chemistry
C.S.A.University of Agriculture & Technology,Kanpur
Dated: July,2017

Copy forwarded for information and necessary action:

1. Technical Secretary to V.C. for kind information of the Hon'ble Vice Chancellor.
2. Dean, Faculty of Agriculture.
3. Director, Agriculture Experiment Station.
4. All Professor and Head of the Department.
5. Concerned Scientist of the Department.

(R.C. Nigam)
Head of Department

Section of Vegetable Science, Kalyanpur, Kanpur

Diary No. 1315 /17
Date 20/07/17

No: VGS/ 240 /2017 Dated: July 17 , 2017

Proceedings of the RAC *kharif* meeting held on Monday, July 10th, 2017 under the chairmanship of Joint Director Research, CSAUA&T, Kanpur.

At the outset, Officer-in-charge, Vegetable Section welcomed the chairman JDR and Heads of other discipline and members of the RAC. Officer-in-charge presented salient research achievements for *kharif* 2016-17. The research programmes of different vegetable crops were presented by the respective crop scientists. The decision taken by RAC, reflected here as under-

- In project No.1 Collection, maintenance, evaluation and documentation of germplasm of Brinjal crop, Dr. U.K Tripathi, Professor Deptt. of Plant Pathology has suggested to include the fruit rot character in observation. In project No. 2 objective should be modified, the character calyx colour should also be included in observations. Project No. 3 SVT on Brinjal (Round), the senior member has suggested that one Entomologist should be collaborated for proper observation of insect pest pattern of the crop.

  (Action- Dr. P.K. Tiwari and HoD, Entomology)

- In Project No. 5 Chilli germplasm, committee has suggested for disease reaction and number of fruits/plant characters should also be included in observation. Project No. 6 on varietal trial of Chilli, committee has suggested that best selection should be placed in AICRP trial, formulate a new trial with susceptible and resistant national checks, whereas poor lines with desirable characters should be shifted in germplasm.

  (Action- Dr. Sanjiv Kumar Singh)

- In Project No.7 Collection, maintenance, evaluation and screening of germplasm of Tomato, committee has suggested to include the characters- disease reaction, yield per plant/ per plot and number of fruits/plant. Project No.8 for hybrid development, committees has suggested to include the recently released variety ***Arka Rakshak*** from IIHR in trial. Project No. 9 PVT of Tomato (Indeterminate group), committee has suggested that one selection to be send in AICRP programme for testing and disease reaction character should also be recorded. In project No.10 SVT of Tomato (Indeterminate group), committee has suggested that selection KS-254 should be included under AICRP programme with sufficient seedstock. Project No.11 on SVT of Tomato (Determinate group), it was decided that, trial should be conducted for one more year for appropriate observations.

  (Action- Sri Niranjan Singh)

- Project No.12 Collection, maintenance and evaluation of okra germplasm, the germplasm should also be enriched with the help of IIVR, Varanasi.

  (Action- Dr. Sanjiv Kumar Singh)

Sri Manoj Mishra
21/7/17

- Project No.13, 14, 15 and 16 on Collection, maintenance and evaluation of germplasm of Bottle gourd, Pumpkin, Ash gourd and Sponge gourd committee has suggested that, analysis of all the trials should be done in augmented design for proper documentation. Project No.17 for breeding trail in sponge gourd by Line x Tester method. The committee and Professor & Head, GPB have observed that single fruit selections (SFS's) firstly grown for character stability and then material should be forwarded for SVT and so on.

(Action- Dr. I. N. Shukla)

- It was unanimously decided in the meeting that, to promote the quality research and breeding programmes of vegetable crops at Vegetable Section, Kalyanpur, the courses load of Horticulture department should not be assigned to the Scientists of this Section.

(Action- HoD, Hort. & Veg. Sci.)

- The committee also observed that all the operations of field experiments should be done timely, adequately and with full responsibility.

(Action- Dr. V. K. Yadav, F.S. Veg. Farm)

The committee also taken notice that the all field activities should be timely monitored and visited by the team as framed by DAES. A new register should be opened for research work indent. This register should be placed on Officer-in-charge's desk for further action. All crop breeders/in charges should enrich their research material by adding some new germplasm from NBPGR, New Delhi or other appropriate Institutions.

(Action- All Scientist)

Approved

Director
Agricultural Experiment Station
Allahabad Univ. of Agri.
KANPUR

Remaining projects were discussed and approved without modification. The Vote of thanks was given by the Dr. Sanjive Kumar Singh, Assistant Professor, Vegetable Section.

Encl: List of Participants

15/7/17
(A.K. Dubey)
Officer-in charge

No: VGS/240 /2017 Dated: above

Copy to the following:-

1. Director, AES
2. Prof. & Head, Department Entomology
3. Technical Secretary to the Vice Chancellor for information of Hon'ble Vice Chancellor.

15/7/17
(A.K. Dubey)

Proceeding of ZREAC meeting for kharif 2017 for central plain zone of U.P. held on dated 30.06.2017

The ZREAC meeting for kharif 2017 for central plain zone of U.P. held under the Chairmanship of Sri R.K.Pandey Assistant Director Research, CSAUA & T Kanpur at 11.00 AM on dated 30.06.2017 in the Directorate of Research, list of Scientists participated in the meeting is annexed.

At the outset, Assistant Director Research, welcomed the Dr.A.K.Dubey,HoD, Vegetable Science and participated scientists and highlighted the Importance of meeting and some suggestions on kharif Onion and Reclamation of Sodic Land Experiment at Daleep Nagar Farm.Discipline wise research programme discussed in the meeting and decision /suggestions were as follows.

Research programme of R.R.S. Daleep Nagar, Kanpur

Agronomy Approved

Experiment-1

Horticulture Approved

Experiment 2 and 3

Agriculture Extension

Research Programme of RRS Saini Kaushambi

Experiment 4- Approved with some information should be collected Sri Ram Kumar Singh, Assistant Professor Agriculture Extension. The Experiment report will be present with photographs of paddy crop.

The meeting ended with vote of thanks to the chair and participating Scientist.

(Anil Kumar)

I/C NARP,Daleep Nagar

Kanpur

ZRBAC meeting for Kharif 2017 for ~~South~~ Western Central Plain Zone of U.P. held on 30.06.2017

S.No	Name & Designation	Deptt. / Scheme	Signature
	DR A.K. Pubey	Vice-Chancellor	
2.	Dr. R.K. Pandey Asstt. Prof.	Director (Res.)	RK Pandey
3.	Manoj Vishwa.	-do-	
4.	Dr. Anil Kumar	Incharge Daleep Nagar	
5-	B.P. Singh.	Asstt. Prof. NARP Daleepnagar	BP Singh.
6-	Ram Kumar Singh	Asstt. Prof. NARP Daleepnagar	RKS
7.	Dr. M.K. SINGH	Asstt Prof. NARP Daleep Nagar	M.K. Singh
8	Dr. ABHIMANYU.	Scientist (PP) KVK, Daleep Nagar	
9.	Dr. R.K. Pal	RRS, NARP Saini	
10.	Dr K.P. Singh	Asstt Prof. Legume Section	KP Singh
11.	Dr. Ram Prakash	Associate Prof. RRS & SAINI	Prakash
12.	Dr. Mohd. Shamim	Asstt. Professor, OFC	Shamim
13.	Dr. Arun Ur Singh	Scientist (H.A.) U.V.L. Etawah	Arun
14	Dr. Ashok Kumar	Head, KVK, Hardoi	
15.	Dr. Khalil Khan	Asst. Prof. NAARP Daleepnagar, KVK Etawah	Khan
16	" H Wasi		
17	~~Dr Kuldeep S. Bisht~~	~~Assoc. Prof.~~	

216

Directorate of Research

C. S. Azad University of Agriculture & Technology, Kanpur-208002

NO. 49 /DR/ 2018

Dated: 20/04/2018

Circular

Departmental Research Advisory Committee and Zonal Research Extension Advisory Committee meetings will be held as per schedule given below to discuss and finalize research programmes for ***Kharif*-2018**. The schedule of dates should be adhered to.

S.N	Faculty/Discipline	Date & Time
A.	**Faculty of Agriculture**	
1.	Genetics and Plant Breeding	15.05.2018 at 10:30 AM
2.	Agronomy	17.05.2018 at 10:30 AM
3.	Entomology	19.05.2018 at 10:30 AM
4.	Crop Physiology	21.05.2018 at 10:30 AM
5.	Seed Science & Technology	23.05.2018 at 10:30 AM
6.	Soil Science and Agril. Chemistry	24.05.2018 at 10:30 AM
7.	Plant Pathology	26.05.2018 at 10:30 AM
8.	Agril. Biochemistry	28.05.2018 at 10:30 AM
9.	Agril. Economics & Statistics	29.05.2018 at 10:30 AM
10.	Agriculture Extension	30.06.2018 at 10:30 AM
11.	Animal Husbandry and Dairying	31.05.2018 at 10:30 AM
12.	Soil Conservation & Water management and Forestry	02.06.2018 at 10:30 AM
B.	**Faculty of Horticulture**	
13.	Vegetable Science	04.06.2018 at 10:30 AM
14.	Horticulture	05.06.2018 at 10:30 AM
B.	**Faculty of Home Science**	
1.	Food Science & Nutrition	07.06.2018 at 10:30 AM
2.	Family Resource Management	
3.	Extension Communication & Management	
4.	Human Development	
5.	Textile & Clothing	
C.	**Faculty of Agril. Engineering & Technology**	08.06.2018 at 10:30 AM
D.	**ZREAC Central Plain Zone, Dileepnagar**	11.06.2018 at 10:30 AM
	ZREAC South Western Semi Arid Zone Kalai Aligarh	13.06.2018 at 10:30 AM

19/4/2018

(H.G. Prakash)
Director Research

Copy forwarded to following for information and necessary action.

1. HoD(s)/Incharges of all Departments with request to please inform all the scientists working on subject concern along with scientists of the KVKs.
2. Incharges Rabi Cereal, Oilseed, Legume and Vegetable Sections
3. Officer Incharge of all NARP Research Stations
4. Unit Incharge Sorghume, Cotton, Tobacco and Paddy
5. Deputy Director Seed & Farms
6. Director Extension with request to please inform to HoD of all KVKs of the Zone to ensure their participation in ZREAC meetings.
7. Dean, Faculty of Agriculture
8. Dean, Faculty of Home Science
9. Dean, Faculty of Agril. Engineering & Technology Etawah
10. T S to V C for kind information of Hon'ble Vice Chancellor.
11. Gaurd file Directorate of Research

19.4.18

19/4/2018

(H.G. Prakash)
Director Research

Department of Agricultural Biochemistry

C.S. Azad University of Agriculture and Technology, Kanpur

PROCEEDINGS OF RAC-KHARIF 2018-19

No. ABC-224 /2018 **Dated:28.06.2018**

The RAC-*Kharif* 2018-19 of Agricultural Biochemistry was held on 28/06/2018 in the department under the Chairmanship of Assistant Director Research .The following scientists participated in the meeting:

1. Dr.Manoj Mishra, Assistant Director Research
2. Dr. Dr. R.K.Pandey,Asst.Prof. Directorate of Research
3. Dr.Madhu Vajpeyi,HOD ,ABC
4. Dr.S.K. Biswas,Professor, Plant Pathology
5. Dr.Dr. Lokendra Singh,Assoc. prof ,GPB
6. Dr. S.B. Pandey,Asst. Chemist,Soil Science & Agrl. Chemistry
7. Dr. Rakesh Babu, Asst. Prof. /Asst. Chemist-Legumes
8. Dr. Nand Kumar, Asst. Prof. /Rice Biochemist
9. Dr.D.K.Tripathi, Asst. Prof.,Crop Physiology
10. Dr.R.A. Katiyar,,Asst. Prof. Dept of Seed Science & Technology

There were five programmes, out of which three programmes were new and two programmes were concluded . The following decisions were taken regarding the execution of experiments:

- All the experiments were approved with some minor corrections viz;
  - I. Project No. 1. **Quality evaluation of certain promising varieties of Pigeonpea (*Cajanus cajan* L.):** approved with the remark that instead of released varieties newly developed promising genotypes either from station trial or from co-ordinated trials should be taken .
  - II. Project No. 2 **Quality evaluation of certain promising varieties of Mung bean(*Vigna radiata* L.):**concluded.
  - III. Project No.3 **Evaluation of physico-chemical Characteristics of some rice varieties :**Concluded
  - IV. Project No.4 **Evaluation of physico-chemical Characteristics of some rice varieties**: Dr. Nand Kumar should ask for seed samples through the Director Research.
  - V. Project No.5 **Quality Characteristics of some branded and unbranded rice grains available in the market**: In Table 6 values for Kernal Elongation should be checked.

Directorate of Agricultural Experiment Station
Diary No. 255 /DR/18
Date 29/06/2018
C.S. Azad University of Agriculture and Technology, Kanpur

Dr Manoj Mishra

(MADHU VAJPEYI)
HOD

A-T-O

No & dated as above

C.C.to

1.Director Research, C S A U, Kanpur

2.Dean, College of Agriculture

3.HODs of various departments Viz; Crop Physiology, GPB, Horticulture,Agronomy,Seed Science& Technology,Pathology,Entomology,Soil Sci.& Agri. Chemistry,Animal Husbandry & Dairying,Economics & Statistics,Soil& Water Conservation,Agri Extention

4. Oilseed ,Legume and Rabi Cereal Sections

5.Technical Secretary to the Vice Chancellor for kind information of Hon'ble Vice Chancellor

(Madhu Vajpeyi)
HOD

Director Research

Proceeding of Research Advisory Committee Meeting of Agronomy for *Kharif*-2018

The Research Advisory Committee meeting of the Dept of Agronomy was held on 28.06.2018 under the Chairmanship of Dr. Karam Husain, Head, Department of Agronomy for finalizing the research programme of ***Kharif*, 2018** in committee room of the department of Agronomy, C. S. Azad University of Agriculture & Technology, Kanpur.

The following officers/ scientists were present:

S.No.	Name	Designation
1.	Prof. H.G. Prakash	Director Research
2.	Prof. Karam Husain	Head, Dept of Agronomy and Chairman
3.	Prof. Asharfi Lal	Professor, Dept of Seed Tech.
4.	Prof. D. D. Yadav	Professor, Dept of Agronomy
5.	Prof. Sanjeev Kumar	Professor, Dept of Agronomy
6.	Prof. Ram Ashish Yadav	Professor, Agronomy (EBR Section)
7.	Prof. Ram Pyare	Professor, Dept of Agronomy
8.	Prof. S. K. Gupta	Head, Dept of GPB
9.	Prof. U.K. Tripathi	Professor, Dept of Pl. Pathology
10.	Dr Mohd. Shamim	Asstt. Director, Directorate of AES
11.	Dr. G.S. Parihar	Associate Professor,
12.	Dr. M.Z. Siddiqui	Associate Professor, Dept of Agronomy
13.	Dr. Jagdish Kumar	Associate Professor, Agronomy (Cotton Scheme)
14.	Dr. S.K. Uttam	Associate Professor, (Soil Cons. & Water Mgt.)
15.	Dr. Uma Shankar Tiwari	Assistant Professor, (Integrated Farming System)
16.	Dr. Mohd. Aslam	Assistant Professor, Crop Physiology
17.	Dr. Y.K. Singh	Assistant Professor, Dept of Agronomy
18.	Shri Vishram Singh	-Do-
19.	Shri Raj Veer Singh	Assistant Professor, EBR Section
20.	Dr. Rajiv	Jr. Agronomist, Vegetable Section
21.	Dr. S.P. Kushwaha	Assistant Professor, Crop Physiology
22.	Dr A.P.Dubey	Assistant Professor, Dept of Agronomy
23.	Dr Fazal Ahmad	Assistant Professor, Dept of Entomology
24.	Dr. S.B. Pandey	Assistant Chemist, Soil Sc. & Agric. Chemistry
25.	Shri Hari Ram	Jr. Agronomist, AICRP Ricc
26.	Shri U.C. Mishra	Assistant Professor, Vegetable Section

Meeting started with the welcome address of the Chairman, Prof. Karam Husain. Prof. Husain welcomed all the participants from different departments of the university. In his welcome address Prof. Husain emphasized to take up the need based research keeping in mind the challenges to provide food and fibre to the growing population of the country along with nutritional security. He also pointed out that emerging challenges includes climate change, availability of quality seed, water availability, energy needs etc. which must be considered effectively for sustainable production. He exhorted the agronomist to formulate

their research programmes on the basis of farmers' feedback and keeping in view the regional priorities. He also suggested that all information regarding recommendation should be timely reported to HoD, Agronomy for inclusion of university recommendation in Saghan Paddati (सघन पद्धति), published by Govt. of Uttar Pradesh.

Prof. H.G. Prakash, Director Research in his address also emphasized need based research as well as the need of integration of scientists of different disciplines to carry out result oriented research. He suggested the scientists to reorient their research so as to increase the production of pulses which is the main source of protein in vegetarian diet and its price is increasing day by day due to its poor production. He emphasized the need to develop variety which survives under aberrant weather condition without impairing yield and quality of the produce. He also gave emphasis that research should be farmers' need based rather than traditional one. The research should be based on various farming system modules to enhance farmers' income. He also emphasized the role of agronomist in present context of climate change and need of climate resilient farming to cope up the requirements of increasing population without deteriorating the natural habitat.

At the end chairman advised the scientists to pool their wisdom in depth with enthusiasm and do in-depth discussion to formulate the strategies for elevating sustainable agriculture production. He felt confidence on scientists of varied back grounds, experience and knowledge to address the matters that is lying before the nation.

Review of previous meeting

The proceeding of previous RAC meeting held on 21st June, 2017 and circulated to members vide letter no. AGR/EN-397 dated 31.08.2017 was reviewed. Since, there was no communication received from any members hence the proceeding is confirmed.

Chairman reviewed the progress of decisions of previous meeting one by one and discussed about the reason of shortfall in few cases. He gave appropriate suggestions and advised to prepare compliance report timely.

Discussion on Research Programme

All the research programmes were presented on power point. All the scientists/in-charge of the projects/schemes presented their programme one by one, which were discussed at length. The decision taken is here as under:

AICRP on Agro-meteorology

Dr. A.P. Dubey, presented the research findings of *Kharif* 2017 and technical programme for *Kharif* 2018. Weekly initial probability of 20 mm or more wet [P(w)] followed by wet week [P(w/w)] and dry week [(P(w/d)] using 45 years' rainfall data This indicate that a short duration *Kharif* crop can be grown during 25 to 37 meteorological weeks being higher chances of getting adequate amount of moisture at critical stage of rain fed crops. Thus, crop sown during 25 to 27th

Standard Meteorological Weeks (SMW) would not suffer from moisture stress during crop period, if crop duration is 80- 95 days. As short duration pulses are very sensitive to rainfall particularly at flowering stage, therefore experiments should be planned to decide the optimum sowing period for Urd and Mung during *Kharif* season,

Crop weather calendar of medium duration rice crop for Kanpur showed that mean temperature 28-30°C, RH 80-90% and cloudiness conditions or > 30 mm rainfall at tillering stage are favourable conditions for infestation of Bacterial Blight, while 32-35°C maximum and 22-25°C minimum atmospheric temperature with 75-80% RH at panicle initiation stage are congenial weather conditions for the infestation of Gandhi Bug.

Exp. No. 1: Studies on paddy- wheat cropping system in relation to weather.

The results were discussed and experiment will be continued.

Action: Agro-metcorologist

Exp. No. 2: Influence of weather parameters on growth and yield of maize varieties growing under different environment. (New Experiment)

The experiment discussed and approved.

Action: Agro-meteorologist

Agromet Advisory Services (AAS) under GMS:

Dr Dubey also emphasized the economic impact of agro-advisory service during *Kharif* season of 2016-17. Further he stated about the results and achievement of Forecasting of Agricultural output using Space Agro-meteorology and Land based observation (FASAL).

Exp. No. 1: Starting of Experimental Agro-meteorological Advisory Services.

Dr Dubey presented the result and experiment will be continued.

Action: Technical Officer, DST

AICRP on Pigeon pea

Technical programme of pigeon-pea presented will be presented later by Dr Akhilesh Mishra, Agronomist, as he went to join workshop.

AICRP on Rice

Technical programme of rice was not presented due to unavailability of programme from Directorate of AICRP, Rice.

Rice (Non- Plan)

Dr. G. S. Parihar presented results of one experiment.

Expt. No. 1: Response of INM (Integrated Nutrient management) to rice varieties.

Experimental results discussed and will be continued. HoD suggested that yield attributes should be presented in the result. **Action: Dr. G. S. Parihar**

AICRP on IFS

On Station, technical programme of Integrated Farming Systems as well as On Farm Research Programme was presented by Dr. U.S.Tiwari. He presented results of experiments along with IFS Model of on station trials as well as three experiments of On Farm Research programme.

Exp. No.1: Identification of cropping systems module for different farming systems.

Result of experiment was discussed and experiment will be continued.

Action: Scientist- farming system

Exp. No. 2: Sustainable resource management for climate smart IFS.

Result of the experiment was discussed and experiment will be continued.

Action: Scientist- farming system

Exp. No. 3: Development of farming system modules for central plain zone of U. P.

Result of the experiment was discussed and experiment will be continued.

Action: Scientist- farming system

OFR results

Exp. No. 1: On farm crop response to plant nutrients in predominant cropping system and their impact on crop-live stock-human continuum.

Experimental results were discussed and experiment will be continued.

Action: OFR Agronomist

Exp. No.2: Diversification of existing farming systems under marginal households' conditions.

Experimental results were discussed and experiment will be continued.

Action: OFR Agronomist

Exp. No.3: On farm evaluation of farming system modules for improving the profitability of small and marginal households.

Result of experiment was discussed and will be continued.

Action: OFR Agronomist

Note: Final result system productivity of all experiments will be presented in RAC of *rabi* season for On station trial as well as OFR centre.

Vegetable Science

Technical programme of vegetable science was presented by Dr. Rajeev. He presented result of one experiment.

Exp. No. 1: Weed management in Okra.

Results of the experiment were discussed and experiment concluded.

Action: Dr. Rajeev

Water management Non-Plan

Dr Sanjeev Kumar presented result of one experiment.

Exp. No 1: Studies on *in-situ* moisture conservation practices in *Zea mays* L. for central plain zone of U.P.

Results of the experiment discussed and will be continued

Action: Dr. Sanjeev Kumar

Weed management Non-Plan

Dr Naushad Khan presented new experiment.

Exp. No 1: Studies on crop establishment methods and weed control practices on weed dynamics, growth and yield of hybrid rice in central plain zone of U.P.

The experiment discussed and approved

Action: Dr Naushad Khan

Teaching Non-Plan

Note: The research programmes related to teaching will be finalized by Head, Dept of Agronomy after the consultation with concerned faculty.

Suggestions by the Chairman

- All scientists should be present during meeting that will help in learning of new innovative ideas. **(Action: All scientists)**

- Compliance of the decision regarding experiments should reach one month before next meeting. **(Action: All scientists)**

- The chairman advised the scientists to visit their experiments frequently for ensuring proper monitoring. **(Action: All scientists)**

Meeting ended with vote of thanks proposed by the convener of the meeting to the Director Research, Chairman, Heads of various disciplines and all committee members for actively participating in the fruitful discussion and suggestions during meeting.

(Karam Husain)
Head, Dept of Agronomy

No. AGR/EN- 02 /2019 Dated: 27.6.2019

Copy forwarded to the following for information and necessary action.

1. Director, AES
2. Dean, College of Agriculture
3. Director, Extension
4. Concerned scientists/Agronomists
5. Technical secretary to V.C. for kind information of Hon'able Vice-Chancellor

(Karam Husain)
Head, Dept of Agronomy

Proceeding of Research Advisory Committee Meeting of Kharif,2018 of the Department of Crop Physiology held on July 26,2018 at 10:15 A.M. in committee room.

Participants.

1. Dr.D.P.Singh,J.D.R.
2. Dr. Lallu. Professor &Head,Crop Physiology
3. Dr. Manoj Mishra,Asstt. Director
4. Dr. S.K.Gupta,. Professor & Head, Genetics & Plant Breeding
5. Dr. Karam Husain, Professor & Head, Agronomy
6. Dr.G.S.Parihar, Associate Professor, Paddy Project
7. Dr. M.Z. Siddiqui, Associate Professor, Agronomy
8. Dr. S.N. Singh, Asstt. Professor, Crop Physiology.
9. Dr. C.B. Verma, Asstt. Professor, Crop Physiology
10. Dr. D.K.Tripathi, Asstt. Professor, Crop Physiology
11. Dr. M.A. Khan, Asstt. Professor, Crop Physiology
12. Dr. S.P.Kushwaha,Asstt. Professor ,Crop Physiology
13. Dr. Anil Kumar Singh, Asstt. Professor, Crop Physiology
14. Dr. O.P. Singh, Asstt. Professor, Crop Physiology
15. Dr.MeeraSrivastava,Asstt. Professor, Crop Physiology
16. Dr. R.,P. ,Vyas, Asstt. Professor, Genetics & Plant Breeding
17. Dr. S.K. Uttam,Associate Professor, Soil Conservation and Water Management
18. Dr. R.K.S. Gautam, Asstt. Professor. Horticuture
19. Dr. A.K.Singh, Asstt. Professor,Genetics & Plant Breeding
20. Dr. K.P.Singh,Asstt. Professor, Vegetable Science.
21. Dr. NandKumar,Asstt. Professor, Agril. Biochemistry
22. Dr. S.B.Pandey, Asstt. Professor, Soil Science & Agri. Chemistry

At the outset Dr. Lallu, Professor & Head, Department of Crop Physiology gave a warm welcome to Dr. D.P.Singh, Joint Director Research and all participants scientist and then urged concern scientist to present their respective programme in light of the priority area of research. Dr. D.P.Singh while going through the action taken report enquired about the follow-up action taken by the concern as mention in action taken report. Technical programme presented by each scientist were discussed in length and following decision were taken.

1.1 Concluded.

1.2 Experiment on Production Physiology presented by Dr. O.P.Singh, was approved as such.

2.1 Experiment on crop nutrition presented by Dr. C.B.Verma, which was approved with committee decision that the data of control should be place in column "B mean.

2.2 New experiment of crop nutrition presented by Dr. C.B.Verma was approved by the committee with the remark that mention unirrigated instead of rainfed condition and variety Bahar should be taken

3.1 Concluded

3.2 . Concluded

3.3 Experiment on stress physiol.ogy presented by Dr. M.A. Khan approved as such.

4.1 Approved.

4.2 Approved.

At the end of meeting Dr. S.N.Singh, expressed vote of thanks to all participants for attending the RAC meeting.

(Lallu)
Professor & Head

No. C.P./ 667 Dated: Aug. 21, .2018

Copy to:-

1. Director, A.E.S.

2. Dean, College of Agriculture.

3. Technical secretary to Hon'ble Vice-Chancellor for information to Hon'ble Vice-Chancellor

4. All concerned HOD.

(Lallu)
Professor & Head

Department of Entomology

C.S. Azad University of Agriculture & Technology, Kanpur-2

No.ENT- 333 /2018 Dated: 30/7/ 2018

Proceeding of Research Advisory Committee meeting of Kharif -2018 held on 26.6.2018 in the Department of Entomology

Research Advisory Committee meeting of Kharif -2018 was held on **26.6.2018** in the Department of Entomology under the chairmanship of Director, AES.

The following faculty members were present in the meeting:

Sl. No.	Name	Designation	Department
1.	Dr. H.G. Prakash	Director AES	Directorate of Research
2.	Dr. Manoj Mishra	Asstt. Director Research	Directorate of Research
3.	Dr. D.R. Singh	Prof. & Head	Entomology
4.	Dr. Kripa Shanker	Professor	--do--
5.	Dr. Y.P. Malik	Professor	Entomology
6.	Dr. R.K. Pandey	Asstt. Prof.	Directorate of Research
7.	Dr. Ram Singh Umrao	Asstt. Professor	Entomology
8.	Dr. M.Z. Siddiqui	,,	Agronomy
9.	Dr. Fazal Ahmad	,,	Entomology
10.	Dr. S.K. Uttam	,,	Soil Cons. & Water Mngt.
11.	Dr. S.B. Pandey	Asstt. Chemist	Soil Sci. & Chemistry
12.	Dr. R.K. Dwivedi	Asstt. Professor	Entomology
13.	Dr. D.K. Singh	Asstt. Professor	Entomology
14.	Dr. A.S. Srivastava	Asstt. Professor	Entomology
15.	Dr. S.N. Singh	Asstt. Professor	Entomology
16.	Dr. Jitendra Kumar	"	EBR

Directorate of Agricultural Experiment Station, Kanpur
C.S. Azad University of Agriculture & Technology
Diary No. 1530 /DR/18
Date 07-08-2018

In the begning Prof. & Head Dr. D.R. Singh welcomes the Director AES and all the faculty member/representative of different departments and elaborated the thrust area of entomological discipline. He also presented the significant achievement previous year 2017. The Proposed project were presented by concerned research scientist. The decision taken after discussion are mentioned as below.

Project No. 1- Concluded

Project No. 2-Approved as such .

Project No. 3-Approved as such .

Project No. 4-Approved as such .

Project No. 5-Approved as such.

Project No. 6-9- Concluded.

Prof. & Head
Deptt. of Entomology
C.S. Azad Univ. of Agri. & Tech.

Project No. 10- Approved as such with the suggestion that the name and number of pollinator should also be observed.

Project No. 11-Approved with the doses recommended as per package of practices i.e. Carbofuran @ 20-30 kg/ha

Project No. 12- Approved as such. (regular feature)

Project No. 13- Approved as such.

Project No. 14- Presented by Dr. A.S. Srivastava approved with remark that it will be asked from Dr. Shridha Saxena, to include the methodology for observation of macro fauna.

Project No. 15-Approved with the suggestion that it should be clubbed with project No. 14.

After presentation of all projects Dr. D.R. Singh, Prof. & Head mentioned that most of the faculty members are engaged in teaching but –they are sincerely perusing research work and extension activities of the University. They also participate in extension activities at blocks and district level.

After presentation of all the project by concerned scientist Director AES appreciated the preparation and interaction of house. Dr. H.G. Prakash Director AES emphasized in the meeting to prepare a project on Nematode managements because the infestation of Nematode is increasing day by day in so many crops. There is a need to find technology to overcome from Nematode problems.

The meeting ended with the vote of thanks by Dr. Anand Swaroop Srivastava.

Approved

28.12.2018

(D.R. Singh)
Professor & Head

No. GPB 794
Date 20/7/18

Department of Genetics and Plant Breeding

Proceeding of Research Advisory Committee Meeting of *Kharif* 2018 held on June 21, 2018

At the outset Head of Department welcomed Director Research, all participating HoD's, faculty members and crop breeders. At the beginning Director Research expressed his views regarding research achievements of the university and he told that **crop improvement research is the flagship research programme** of university and glory of our university is maintained due to plant breeding research. Varietal improvement programme of this university ranked first in the state. Following crop research programmes were discussed in the house.

1. **Mungbean**: Presented by **Dr. Manoj Katiyar**

S.No.	Experiments/Project	Approved/Not Approved	Recommendation
1.	Experiment No. 1	Approved	
2.	Experiment No. 2	Approved	
3.	Experiment No. 3	Approved	
4.	Experiment No. 4	Approved	
5.	Experiment No. 5	Approved	
6.	Experiment No. 1(Co-ordinated)	Approved	Suggested by house to mention data recorded in trial

2. **Pigeon pea**: Presented by **Dr. A.K. Srivastava**

S.No.	Experiments/Project	Approved/Not Approved	Recommendation
1.	Project No. 1	Approved	
2.	Project No. 2 (i) Experiment No. 1	Approved	Again test entry No. KAE 2017 in current cropping season and record data on days to flowering and days to maturity
	(ii) Experiment No. 2	Approved	
	(iii) Experiment No. 3	Approved	
	(iv) Experiment No. 4	Approved	
	(v) Experiment No. 5	Approved	
	(vi) Experiment No. 6	Approved	

3. **Cotton:** Presented by **Dr. Jagdish Kumar**

S.No.	Experiments/Project	Approved/Not Approved	Recommendation
1.	Experiment No. 1	Approved	
2.	Experiment No. 2	Approved	
3.	Experiment No. 3	Approved	
4.	Experiment No. 4	Approved	
5.	Experiment No. 5	Approved	
6.	Experiment No. 6	Approved	

Directorate of Agricultural Experiment Station * Indore
Diary No. 1386/DR/18
Date 28/07/2018
Rajmata Vijayaraje Scindia Krishi Vishwa Vidyalaya, Gwalior (M.P.) Agriculture and Technology

So Manoj Mehra
20/7/18
20/7/18

4. (i) **Maize:** Presented by **Dr. H.C. Singh**

S.No.	Experiments/Project	Approved/Not Approved	Recommendation
1.	Project No. 1	Approved	
2.	Project No. 2	Approved	
3.	Project No. 3	Approved	
4.	Project No. 4	Approved	
5.	Project No. 5	Approved	

(ii) **Sorghum:**

S.No.	Experiments/Project	Approved/Not Approved	Recommendation
1.	Project No. 1	Approved	
2.	Project No. 2	Approved	

(iii) **Forage Cowpea:**

S.No.	Experiments/Project	Approved/Not Approved	Recommendation
1.	Project No. 1	Approved	

5. **Groundnut:** Presented by **Dr. M.C. Verma**

S.No.	Experiments/Project	Approved/Not Approved	Recommendation
1.	Experiment No. 1	Approved	
2.	Experiment No. 2	Approved	Suggested to use spanish group of varieties in crossing programme as parents for development of superior early varieties for summer groundnut cultivation
3.	Experiment No. 3	Approved	
4.	Experiment No. 4	Approved	Suggested to include Dr. U.K. Tripathi as collaborator for recording of disease data
5.	Experiment No. 5	Approved	
6.	Experiment No. 6	Approved	
7.	Experiment No. 7	Approved	
8.	Experiment No. 8	Approved	
9.	Experiment No. 9	Not Approved	Suggested to constitute a new trial by selection of few good performing genotypes
10.	Experiment No. 10	Approved	
11.	Experiment No. 11	Approved	
12.	Experiment No. 12	Approved	

6. **Urdbean:** Presented by **Dr. Geeta Rai**

S.No.	Experiments/Project	Approved/Not Approved	Recommendation
1.	Experiment No. 1	Approved	
2.	Experiment No. 2	Approved	
3.	Experiment No. 3	Approved	**It is suggested to change title of project as Preliminary Yield Trial and objective as screening. Mention Green (G) and Black (B) with genotype for clarification**
4.	Experiment No. 4	Approved	
5.	Experiment No. 5	Approved	
6.	Experiment No. 6	Approved	
7.	Experiment No. 7	Approved	

7. **Sesame:** Presented by **Dr. Achila Singh**

S.No.	Experiments/Project	Approved/Not Approved	Recommendation
1.	Experiment No. 1	Approved	
2.	Experiment No. 2	Approved	
3.	Experiment No. 3	Approved	

Power points presentation of Dr. Manoj Katiyar, was appreciated by house.

In last, Dr. S.K. Singh gave vote of thanks.

Prepared by

(S.K. Singh)

(R.P. Vyas)

Approved by

27/7/2018

(Sarvendra Kumar)
HoD, Genetics & Plant Breeding

(H.G. Prakash)
Director Research

Department of Genetics and Plant Breeding

List of participants of RAC Meeting *Kharif* 2018

S.No.	Name and Designation	Deptt./Section
1.	Dr. H.G. Prakash, Director Research	Directorate of Research
2.	Dr. S.K. Gupta, Professor and Head	Genetics and Plant Breeding
3.	Dr. S.P. Tyagi, Professor and Head	Animal Husbandry Dairy
4.	Dr. Karam Hussain, Professor and Head	HoD, Agronomy
5.	Dr. Lallu, Professor and Head	Deptt. of Crop Physiology
6.	Dr. Mahak Singh, Breeder (R&M)	Oilseed Section
7.	Dr. R.K. Yadav, Professor	Genetics and Plant Breeding
8.	Dr. G.S. Parihar, Assoc. Professor	Paddy Project (Non Plan)
9.	Dr. Lokendra Singh, Assoc. Professor	Genetics and Plant Breeding
10.	Dr. Mohd. Shamim, Asstt. Director	Directorate of Research
11.	Dr.Manoj Mishra, Asstt. Director	Directorate of Research
12.	Dr.R.P. Vyas, Asstt. Professor	Genetics and Plant Breeding
13.	Dr. A.K. Singh, Asstt. Professor	Genetics and Plant Breeding
14.	Dr. Jitendra Singh, Asstt. Professor	Extension
15.	Dr. Ram Asrey, Research Assistant	Cotton Section
16.	Dr. A.K. Srivastava, Incharge/Tobacco Breeder	CRF, Araul
17.	Dr. S.P. Kushwaha, Asstt. Professor	Deptt. of Physiology
18.	Dr. Manoj Katiyar, Asstt. Prof./Mung & Lentil Breeder	Legume Section
19.	Dr. Achila Singh, Asstt.Professor	Oil Seeds Section
20.	Dr. Nalini Tewari, Linseed Breeder	Linseed Unit
21.	Dr.Shweta, Asstt. Professor	Genetics and Plant Breeding
22.	Dr. H.C. Singh, Asstt. Professor	Maize /Sorghum Breeder
23.	Dr. (Mrs.) Geeta Rai,Asstt. Professor/Field pea & Urd Breeder	Legume Section
24.	Dr. Jagdish Kumar, I/c Cotton	Cotton Section
25.	Dr. S.K. Singh, Asstt. Professor	Genetics and Plant Breeding
26.	Dr. Rakesh Babu, Asstt. Professor	Agricultural Biochemistry
27.	Dr. Nand Kumar, Asstt. Professor	Agricultural Biochemistry
28.	Dr. M.C. Verma, Asstt. Professor/Groundnut Breeder	CRF, Manpuri

(Sarvendra Kumar)
Professor and Head

Proceeding of Research Advisory Committee Meeting of Department of Plant Pathology for *Kharif* - 2018

No.: २१०/PP/2018 Dated: 07.07.2018

Date: June 27, 2018

Presence:

1. Dr. H.G. Prakash, Director Research
2. Dr. A.L. Jatav, Professor, Seed Technology
3. Dr. S.K. Uttam, Associate Professor, Soil Conservation
4. Dr. S.K. Gupta, Professor & Head, Genetics & Plant Breeding
5. Dr. Md. Shamim, Assistant Director, Directorate of Research
6. Dr. Manoj Mishra, Assistant Director, Directorate of Research
7. Dr. Ved Ratan, Professor & Head, Plant Pathology
8. Dr. U.K. Tripathi, Professor, Plant Pathology
9. Dr. S. K. Biswas, Associate Professor, Plant Pathology
10. Dr. V.K. Singh, Professor & Head, Agril. Extension
11. Dr. R. K. Pandey, Assistant Professor, Directorate of Research
12. Dr. Ramesh Singh, Assistant Professor, Plant Pathology
13. Dr. S.D. Dubey, Assistant Professor, Soil Science & Agril. Chemistry
14. Dr. Nand Kumar, Assistant Professor, Agril. Biochemistry
15. Dr. Anjani Kumar Singh, Assistant Professor, Agril. Eco. & Stats
16. Dr. S.M. Tripathi, Assistant Professor, Horticulture
17. Dr. Brijendra Kumar, Assistant Professor, AES
18. Dr. Ram Singh Umrao, Assistant Professor, Entomology
19. Dr. M.R. Dabbas, Assistant Professor, Plant Pathology.
20. Dr. A.K. Singh, Assistant Professor, GPB

The meeting was started with the warm welcome of the chair person Dr. H.G. Prakash, members of different departments and the faculty members of Plant Pathology by Head, Plant Pathology.

Head, Plant Pathology briefly highlighted the significant achievements of the department of last year. He also informed to the house that total 12 research proposals have been submitted by the faculty members to discuss in the meeting.

Each of these Projects was discussed thoroughly and decision/ suggestions were noted and are given below:

A. **Projects from Department of Plant Pathology**

1. **Project no 1: Screening of cotton varieties/ cultures against major diseases**- Approved with the suggestion that photographs and disease rating scale to be given along with results.
2. **Project no 2: Management of Bacterial blight of sesame through bioagents and chemicals**- Concluded and the final conclusion will be submitted to Director Research by concern scientist.
3. **Project no 3: Effect of *Trichoderma* based Agro residues on Root rot of Mung/ Urd bean** - Approved.
4. **Project no 4: Management of seed-borne infection of anthracnose disease caused by *colletotrichun truncatum* of black gram** - Approved.
5. **Project no 5: Management of seed-borne infection of root rot disease of green gram (*Rhizoctonia* sp.) by seed treatment with newly chemical and biofungicide** - Approved with the correction that effective chemicals in place of newly chemicals.
6. **Project no 6: Efficacy of calcium chloride as inducer in induced resistance in tomato against fusarium wilt** -Approved with the suggestion that number and time of spraying will be included.

B. Technical Programme Of Vegetable Pathology For The Year 2018-19
AICRP Center Kalyanpur, Kanpur

7. **Programme No. 1: Nursery disease management by using bio-agents and new fungicides (Chilli)** Approved.
8. **Programme No. 2: Integrated management of Vector born virus disease of Chilli**- Approved.

9. **Programme No. 3: IDM package for Tomato Diseases**- Approved.
10. **Programme No. 4: IDM package for cucurbit diseases (Bottle gourd)**- Approved.
11. **Programme No. 5: Monitoring of emerging diseases of vegetable crops**- Approved.
12. **Programme No. 6: Assessment in yield losses due to major diseases in tomato**- Approved.

The meeting was ended with vote of thanks by Dr. Ramesh Singh, Assistant Professor, Plant Pathology.

(Ved Ratan)
Head, Plant Pathology

(H.G. Prakash)
Director, AES

Proceedings of RAC meeting held on 02.07.2018 for *Kharif* 2018-19 in the Department of Soil Conservation and Water Management

A meeting was held on 02.07.2018 to finalize the research programme of *kharif* 2018-19. Following scientists/teachers were present:

S.No.	Name	Designation
1.	Dr. D.P. Singh	JDR, Agril. Experimental Station
2.	Dr. Mohd. Shamim	Asstt. Director, AES
3.	Dr. Manoj Mishra	Asstt. Director, AES
4.	Dr. R.P. Singh	Head of Department, SCWM
5.	Dr. Munish Kumar	Professor/DAM, SCWM
6.	Dr. S.C. Katiyar	Professor, SCWM
7.	Dr. S.K. Uttam	Associate Professor, SCWM
8.	Dr. Kaushal Kumar	Associate Professor, SCWM
9.	Dr. U.D. Awasthi	Assistant Professor, SCWM
10.	Dr. A.K. Katiyar	Assistant Professor, SCWM
11.	Dr. O.P. Singh	Assistant Professor, Crop Physiology
12.	Dr. S.B. Pandey	Asstt. Chemist, SAC
13.	Dr. Anjani Kumar Singh	Asstt. Professor, Agril. Economics & Statistics
14.	Dr. R.K. Dwivedi	Assistant Professor, Entomology
15.	Dr. Vishram Singh	Assistant Professor, Agronomy

After warm welcome by Dr. R.P. Singh, Head of Department to all participants in the meeting, the achievements and compliance report was presented by Dr. S.K. Uttam for various research programmes. During meeting, projects were presented one by one by relevant teachers given as under:

Project No.-1: **"Sorghum based intercropping system as influenced by organic manuring under rainfed condition "**

Last year M.Sc.(Ag.) trial was presented by Dr. S.K. Uttam. The project was approved by the committee and allowed to continue in Kharif 2018-19 for confirmation of the findings.

Project No.-2: **"Pigeonpea (*Cajanus cajan* L.) based intercropping system under rainfed condition"**

The Ph.D. experiment was conducted for 2 years. Dr. U.D. Awasthi presented data and project was allowed to conclude by the committee. The recommendations of the trial were as under:

(i) The yield of sole and intercropped blackgram and sesame in terms of pigeonpea equivalent seed yield showed significant variation, whereas pigeonpea + blackgram (1+1) brought out significantly the highest production as compared to other cropping systems during both the

Directorate of Agricultural Experiment Station
Diary No. 1190 /DRI/18
Date 13/07/2018
C.S. Azad University of Agriculture and Technology, Kanpur

Dr Manoj Mishra

years. Moreover, the LER was also found to be significant highest during 2016-17 but during 2017-2018, pigeonpea + blackgram (1+1) additive sowing being at par with pigeonpea+ sesame (1+1) additive treatment. All group of intercropping systems produced more LER over sole cropping.

(ii) Deep ploughing at 20 days before sowing + ridging and furrowing in between the crop rows at 25 DAS+FYM @ 5t/ha at 30 days before sowing of the crop treatment brought out significant improvement in seed yield over other resource conservation techniques during both the years. It is apparent from the data that different resource conservation techniques had non-significant effect on LER during both the years.

(iii) Interaction effects were found non-significant during both the years.

Project No.-3: **"Effect of rain water conservation practices and mulching on yield of maize (*Zea mays* L.) under climate change condition"**

A new experiment was presented by Dr. R.P. Singh related to Ph.D. trial. The project was approved with the suggestion that add the green manuring through Sunhemp or Dhaincha in mulching treatment.

Project No.-4: **"Impact of moisture conservation practices and fertility management on maize in rainfed condition"**

Last year M.Sc.(Ag.) trial was presented by Dr. R.P. Singh. The project was approved by the committee and allowed to continue in Kharif ,2018-19 for confirmation of the findings.

Project No.-5: **"Effect of planting pattern and moisture conservation practices on performance of pearlmillet (*Pennisetum glaucum* L.) under rainfed condition"**

A new experiment was presented by Dr. R.P. Singh related to PG trial. The project was approved with the suggestion that "farmer practice" word should be corrected as "Traditional practice" from the planting pattern treatment.

Project No.-6: **"To study the effect of different intercropping patterns on yield and yield components on sorghum (*Sorghum bicolor* L.) and clusterbean (*Cyamopsis tetragonoloba*) under moisture stress condition"**

A new experiment was proposed and presented by Dr. Munish Kumar of their M.Sc.(Ag.) student. The experiment was approved as such.

Project No.-7: **"Studies on water saving techniques and nutrient management on hybrid maize production"**

A new experiment was presented by Dr. S.C. Katiyar related to P.G. trial. The project was approved with the suggestion that "water saving" and "farmer practice" words should be corrected as "moisture saving" and "traditional practice", respectively from the treatment factor A.

Project No.-8 : **"Study on residual effect of kharif crops and fertilizer on wheat production under limited water condition"**

This field trial was conducted during kharif 2017-18 by M.Sc.(Ag.) student under supervision of Dr. Sarvesh Kumar. It was decided by members that the trial will be again conducted during kharif 2018-19 by P.G. student of Dr. S.C. Katiyar and last year data should be compiled and present in next year meeting. Further the committee suggested that "two irrigation at 30 and 70 DAS in wheat" should be applied instead of "two irrigation at 22 and 42 DAS" in irrigation treatment.

Project No.-9: **"Efficacy of different soil conservation measures on soil properties and erodibility of Babina Watershed of district Jhansi in Bundelkhand"**

A new experiment was presented by Dr. Kaushal Kumar related to Ph.D. trial. The theme and experimental planning was approved as such.

Project No.-10: **"Study on intercropping systems and tillage practices on production of pigeonpea and maize under light textured soil".**

A new experiment was proposed by Dr. Sarvesh Kumar related to M.Sc.(Ag.) trial. The experiment was presented by Dr. Kaushal Kumar and dropped due to unavailability of guide (Dr. Sarvesh Kumar). Later on after discussion with chairman of RAC and departmental meeting and availability of Dr. Sarvesh Kumar, it was decided to continue in current season.

Project No.-11: **"Effect of plant geometry and fertility levels on growth and yield of Kalmegh (*Andrographis paniculate*)".**

Last year M.Sc.(Ag) trial was presented by Dr. Kaushal Kumar. The project was approved by the committee and allowed to continue in kharif 2018-19 for confirmation of the findings.

Project No.-12: **"Relative impact of moisture conservation practices and varieties on pearlmillet under rainfed condition".**

A new experiment was presented by Dr. A.K. Katiyar related to P.G. student & discussed in detail with logistics. The project was approved with the suggestion that to delete "relative" word from the title of the project. Further the committee suggested that life saving irrigation provide under moisture stress condition.

Project No.-13: **"Effect of moisture conservation practices on growth, yield and economics of sorghum varieties under rainfed condition"**

A new experiment was presented by Dr. A.K. Katiyar related to M.Sc.(Ag.) trial. The project was approved with the suggestion that delete "NJH-40 variety" from the sorghum varieties.

In the last, it was decided that the experiment conducted at SIF under the Agronomy Department will be looked after by the FS of the SIF with regards to laid out of the experiments, labours and other input materials. If any charge will be framed by the FS that charges will be incurred from the department.

The meeting was ended with vote of thanks and concluding remarks by Dr. Kaushal Kumar, Associate Professor of this department

12-7-18

(**R.P. Singh**)
Head of Deptt.

Department of Soil Conservation & Water Management
C.S. Azad University of Agriculture & Technology, Kanpur-2

No. -245- /SCWM/2018 Dated: July -12-,2018

Copy forwarded for information and necessary action to:

1. Dean, College of Agriculture, C.S Azad Univ. of Agric. & Tech., Kanpur-2
2. Director, Agricultural Experiment Station(AES), C.S Azad Univ. of Agric. & Tech., Kanpur-2
3. Professor & Head(s) of the Department– Agronomy, Soil Science & Agril. Chemistry, Plant Pathology, Entomology, Crop Physiology and Agriculture Economics & Statistics.
4. All teachers/scientists of the Department.
5. T.S. to V.C. for kind information to Hon'ble Vice-Chancellor.

12-7-18

(**R.P. Singh**)
Head of Deptt.

Proceedings of Research Advisory Committee Meeting for Kharif 2018 held on 27.06.2018

The session was started with welcome of galaxy of Scientist representing different department of the University as well as Dr. R.K. Pandey representative of Director Research by Head of Deptt. Prof. R.C. Nigam concluded research finding of previous year of experiments . In detail Dr. Rakesh Kumar Pandey presented the salient achievements of all experiments conducted by scientist of the department. After presenting the results of last year, the technical programme of Kharif-2018 was presented by respective scientist.

The following Scientist were presents:

1	Dr. R.K. Pandey	Director Research representative	Directorate of Research
2	Prof. R.C. Nigam	Head of Department	Soil Sci. & Agril.Chem.
3	Dr. Ravindra Kumar	Professor & Incharge	Soil Salinity Scheme
4	Dr. R.A. Yadav	Professor	EBR
5	Dr. A.L. Jatav	Professor	SST
6	Dr. A.K. Sachan	Assoc. Prof.	Soil Science & Agril.Chem.
7	Dr. S.B.Pandey	Asstt. Prof.	Soil Science Agril.Chem.
8	Dr. A.K. Dwivedi	Asstt. Prof.	Horticulure
9	Dr. R.K. Pandey	Asstt. Prof.	Soil Science & Agril.Chem.
10	Dr. S.D. Dubey	Asstt. Prof.	Soil Sci. & Agril. Chem.
11	Dr. R.K. Pathak	Asstt. Prof.	Soil Sci. & Agril. Chem.
12	Dr.R.N.Dixit	Asstt.Prof.	Soil Sci. & Agril. Chemistry
13	Sri K.N.Singh	Asstt.Prof.	Soil Science & Agril. Chem.
14	Dr. M.R. Pandey	Asstt. Prof.	Soil Science & Agril. Chem.
15	Dr. Mohd. Aslam	Asstt. Prof.	Crop physiology
16	Dr. Sanjeev Sharma	Asstt. Prof.	Soil Science
17	Dr. Rakesh Babu	Asstt. Prof.	Bio Chemistry
18	Dr. Devendra Singh	Asstt. Prof.	Soil Sci. & Agri. Chem.
19	Dr. Manoj Mishra	Asstt. Director	Directorate of Research
20	Dr. Rakesh Kumar Singh	Asstt. Prof.	Agril.Economics & Statistics

The following projects were discussed.

Quality testing of Pesticides Fertilizers Manure and allied products.

Project No.1 Quality testing of pesticides
Project No.2 Quality testing of fertilizers, Manures and allied products.
Dr. S.B. Pandey presented the objective and detail programme of both the experiments.
Both project approved for execution after discussion.

Soil Testing:

Project -1 Soil fertility evaluation for balanced fertilization on cultivator fields and project.

Project-2 Rationalize the Nitrogen doses for high yielding rice-wheat cropping sequence.
Project -3 Evaluation of soil fertility status of University farm in respect of macro as well as micronutrients .

All three above projects under soil testing scheme were presented by Dr. M.R. Pandey and focusing that soil testing laboratory must be renovate and equipped with modern instruments . All the three projects approved with discussion .

Soil Survey and Soil fertility:

Project:1 effect of primary, secondary micronutrients on Urd-Mustard cropping sequence.
Project:2 Long term fertility experiments on paddy wheat cropping sequence .

As we know that long term fertility experiments started first time at Kanpur in the country. Dr. R.N. Dixit presented the projects and approved by the house after detail discussion.

Microbiology:

The following projects under this scheme was formulated and presented by Dr. S.D. Dubey.
Project-1 Isolation and Maintenance of Rhizobium culture.
Project-2 Isolation and maintenance of Azotobactor strains.
Project-3 Maintenance and production of PSB culture .

All the projects discussed by the house and approved without any modification. Dr. Dubey also emphasized regarding renovation of the laboratory and need of modern instruments.

AINP on Pesticide Residues:

One important project quality assurance programme was presented by the Dr. R.K. Pandey and house approve the project after discussion.

Professor IFFCO Chair:
Project-1 Nutrient optimization through organic and inorganic resources in rice-wheat cropping system.

Dr. R.N. Dixit presented the detail program of the experiment. This experiment was finalized during IFFCO Chair Conference held at Gurgaon , Hariyana. Sagarika and consortia inputs were supplied by IFFCO. Project approved after thorough discussion.

AICRP on Micro, Secondary nutrients and pollutant elements in soils and plants.
Programme-1: Delineation and reassessment of micro and secondary nutrients deficient areas and updating soil fertility maps.
Programme-2: Refinement of critical values of micro and secondary nutrients in soil and standardization of soil test methods.
Programme-3: Assessing influence of P buildup on the availability of micronutrients and its nutrition.
Programme-4: Monitoring of heavy metal toxicity in relation to soil-plant human/animal.

Programme-5: Effect of phasing of Zn application of fate of Zn pools in different soils and cropping systems.

All above five project approved at the workshop of the project. The detail programme of each was presented by Dr. A.K. Sachan. Since project already discussed at national level, therefore, with few quarry all above projects approved by the house.

Meeting ended with vote of thanks proposed by Prof. R.C. Nigam, Head of the Department to all the members present in the research advisory committee meeting .

(R.C. Nigam)
Head of Department

Deptt. of Soil Science & Agricultural Chemistry
C.S.A.University of Agriculture & Technology,Kanpur

No.345/2018 Dated: 30.06.2018

Copy forwarded for information and necessary action:

1. Dean, Faculty of Agriculture.
2. Director, Agriculture Experiment Station.
3. All Professor and Head of the Department.
4. Technical Secretary to V.C. for kind information of the Hon'ble Vice Chancellor.
5. Concerned Scientist of the Department.

(R.C. Nigam)
Head of Department

Section of Vegetable Science
C.S. Azad Univ. of Agri. & Technology, Kanpur-208024

No.: VGS / 201 /2018-19 Dated: July 30, 2018

Proceedings of the RAC *Kharif* meeting held on Saturday, July 21st, 2018 under the chairmanship of Director,AES.

At the outset, Officer-in-charge, Vegetable Section welcomed to the chairman and Heads of other discipline and members of the RAC. Officer-in-charge presented action taken report and salient research achievements for *Kharif* 2017-18. The research programmes of different vegetable crops were presented by the respective crop scientists. The decision taken by RAC, reflected here as under –

- For Brinjal crop, the senior members has suggested that Entomologist should be collaborator for proper observation of insect pest pattern of the crop.
  (Action - Dr. K. P. Singh and HoD, Entomology)
- Screening of heat tolerant chilli germplasm for initial entry in AICRP(VC).
  (Action- Dr. Sanjiv Kr. Singh)
- DAES has strongly directed to produce hybrid seeds of tomato- KTH-1, KTH-2 and Azad Sankar Lauki in Bottle gourd during current season.
  (Action- Sri. Niranjan Singh and Dr I.N. Shukla)
- DAES has suggested to produce Brinjal seeds of Azad hybrid on contractual basis.
  (Action- Dr. D. P. Singh and Dr. K. P. Singh)
- Prof. & Head Department of GBP pointed out about uniformity on trials of each crops for germ plasm evaluation.
  (Action- All Scientists)
- In project No. 3 SVT on Brinjal (Round) promising entry KS-422 and KS-451 should be included in AICRP (VC) from next year. Similarly in case of long Brinjal entries KS-541 and KS-542 should also be included in AICRP (VC) during 2019.
  (Action- Dr. K. P. Singh)
- In project No. 6 on Chilli data on disease reaction should be explored.
  (Action- Dr. Sanjiv Kr. Singh)

Directorate of Agricultural Experiment Station
Diary No. 1910 /DRI/ 18
Date 31/07/2018
C.S. Azad University of Agriculture and Technology, Kanpur

Sri Manoj Mishra
31/7/18

- In Okra some new germplasm should be collected from IIVR and other Institutes to enhance breeding programme of Okra.

(Action- Dr. K. P. Singh)

- Key characters of single plant selection of Tomato should also be recorded.
- In project No. 12 SVT of Tomato (Determinate group) the entry KS-233 should be sent for inclusion in AICRP (VC) during 2019.

(Action - Sri. Niranjan Singh)

- It was decided to reduced research load of Dr. K.P. Singh of crop Brinjal, is being shifted to Dr. P.K. Tiwari during current season. All the action points of Brinjal crop will automatically shifted from Dr. K.P. Singh to Dr. P.K. Tiwari.

Remaining projects of all other crops were discussed and approved with desired modification. The vote of thanks was given by the Dr. D.P. Singh, SPO/JDR.

Encl: List of participants

(A.K. Dubey)
Officer In-charge

Letter No. & Dated: Above
Copy to the followings

1- Director,AES.
2- Prof. & Head Department of Entomology and GPB.
3- Technical Secretary to the Vice Chancellor for information to Hon'ble Vice Chancellor.

(A.K. Dubey)

List of participants of *Kharif* RAC meeting held at Section of Vegetable Science, CSAUA&T, Kalyanpur, Kanpur on Saturday, July 21, 2018.

S.N.	Participants	Designation	Department
1	Dr. H. G. Prakash	Director, AES	Directorate of Research
2	Dr. D.P. Singh	Joint Director Research	Directorate of Research
3	Dr. A.K. Dubey	Officer-in-charge	Vegetable Science
4	Dr. Karam Husain	Head of Department	Agronomy
5	Dr. A.L. Jatav	Professor	S.S. & Technology
6	Dr. S.K. Gupta	Prof.& Head	GPB
7	Dr. U.K. Tripathi	Professor	Plant Pathology
8	Dr. Ramesh Singh	Assistant Professor	Vegetable Science
9	Dr. Anil Kumar Singh	Assistant Professor	Crop Physiology
10	Dr. K.P. Singh	Assistant Professor	Vegetable Science
11	Sri. Niranjan Singh	Assistant Professor	Vegetable Science
12	Dr. I.N.Shukla	Assistant Professor	Vegetable Science
13	Dr.Rajiv	Jr. Agronomist	Vegetable Science
14	Dr. Fazal Ahmad	Assistant Professor	Entomology
15	Dr. Manoj Katiyar	Assistant Professor	EB (Legume)
16	Dr. P.K. Tiwari	Assistant Professor	Vegetable Science
17	Dr. M.R. Dabbas	Assistant Professor	Vegetable Science
18	Dr.Sanjive Kumar Singh	Assistant Professor	Vegetable Science
19	Dr. S.B. Pandey	Assistant Professor	Soil & Agril. Chemistry
20	Dr.V.K.Yadav	Farm Suptt.	Vegetable Science
21	Sri.S.D.Dutta	Statistical Assistant	Vegetable Science
22	Dr.A.K.Yadav	SRF	Vegetable Science
23	Sri. Hari Vijay Dubey	JRF	Vegetable Science

(A.K. Dubey)
Officer In-charge

Proceeding of Research Advisory Committee of Regional Research Station Daleepnagar for Kharif 2018

The RAC-Kharif 2018 of Regional Research Station Daleepnagar was held on 29/06/2018 in the committee hall,Directorate of Research under the chairmanship of Dr.sarvendra Kumar Gupta,HOD,Genetics and Plant Breeding.The following scientists participated in the meeting:

1.Dr.S.K.Gupta,HOD,Genetics and Plant Breeding.

2.Dr.D.D.Yadav Professor,Agronomy.

3.Dr.R.K.Pandey,ADR.

4.Dr.Ram Prakash,Head,KVK,Hardoi.

5.Dr.Anil Kumar,I/C,NARP,Daleepnagar.

6.Manoj Mishra,ADR

7.Dr.Subhash Chandra,Asso.Director (D.E).

8.Dr.Keshav Arya,Assoc.Prof. NARP,Daleepnagar.

9.Dr.Khalil Khan Asst.Prof. NARP,Daleepnagar.

10.Bhanu Pratap Singh,Asst.Prof. NARP,Daleepnagar.

11.Ram Kumar Singh Asst.Prof. NARP,Daleepnagar.

12.Vinod Kumar Sachan,NFSM Disst.Advisor,Kanpur Nagar.

\13.Santosh Sachan,Tech.Asst.Regional soil lab. Kanpur Region.

14.Jahir Khan,STA,Deptt.of Agril. Kanpur.

15.Dr.Vishram Singh Asst.Prof. Agronomy.

16.Dr.Rajeev Kumar Pal,Asst.Prof.NARP Saini

17.Dr.S.K.Srivastava,Assoc.Prof. NARP,Daleepnagar.

18.Dr.Arun Kumar Singh,Hort.Scientist,KVK,Etawah

19.Dr.M.K.Singh,Asst.Prof. NARP,Daleepnagar.

20.Dr.V.B.Jaiswal,Asst.Prof.,AICRP,Aroul.

21.Dr.S.L.Verma,Scientist,KVK,Daleepnagar.

There were twelve programmes,out of which four programmes were old and eight programmes were new.The following dicisions were takaen regarding the execution of experiments.

- All the experiments were approved with some minor correction *Viz:*

1. With the permission of chairman the meeting was started with welcome address to chairman and participates by Dr.Khalil Khan,Asst.Professor,Soil Science,R.R.S.,Daleep Nagar and initiated the discussion with programme co-ordinators and their representative of different Deptt. And scientist problem and suggestion. The line Deptt. Officers also give the valuable suggestion.
2. Dr.S.K.Gupta, Chairman of the committee along with house suggested that no. of leaves /plant should be replaced with no. branches/plant in experiment no.1 (parameter-3).
3. House suggested that floralbiology observation should be deleted in experiment no.2 (parameter 2).
4. Chairman of committee along with house suggested that experiment no.3 should be conducted minimum in five villages and ten farmers must be each village.
5. The house approved experiment no.4, and 5 as such for conducting in Kharif 2018.
6. Experiment no. 6 was approved by house as such for conducting in kharif 2018.
7. Experiment no.7 (hybrid maize) & experiment.no. 8 (hybrid paddy) were already approved by UPCAR,Lucknow.
8. Experiment no.09 was approved as such for conducting in kharif 2018.
9. Experiment no.10 – 12 were already approved by different seed companies(Rashi,Byer and Pionear PVT.LTD.).

The meeting was ended with the vote of thanks given by Dr.R.K.Pandey,ADR.

(ANIL KUMAR)
Officer Incharge
Regional Research Station
Daleep Nagar
C.S.A.U.A. & T. Kanpur

223

Directorate of Research

C. S. Azad University of Agriculture & Technology, Kanpur-208002

NO.....61...../DR/ 2019

Dated: 18/04/2019

Circular

Departmental Research Advisory Committee and Zonal Research Extension Advisory Committee meetings will be held as per schedule given below to discuss and finalize research programmes for ***Kharif*-2019**. The schedule of dates should be adhered to.

S.N	Faculty/Discipline	Date & Time
A.	**Faculty of Agriculture**	
1.	Agronomy	15.05.2019 at 10:30 AM
2.	Genetics and Plant Breeding	17.05.2019 at 10:30 AM
3.	Agril. Biochemistry	16.05.2019 at 11:30 AM
4.	Plant Pathology	20.05.2019 at 11:30 AM
5.	Crop Physiology	21.05.2019 at 11:30 AM
6.	Entomology	22.05.2019 at 11:30 AM
7.	Soil Conservation & Water management and Forestry	24.05.2019 at 11:30 AM
8.	Seed Science & Technology	25.05.2019 at 11:30 AM
9.	Soil Science and Agril. Chemistry	27.05.2019 at 11:30 AM
10.	Agril. Economics & Statistics	29.05.2019 at 11:30 AM
11.	Agriculture Extension	30.05.2019 at 11:30 AM
12.	Animal Husbandry and Dairying	31.05.2019 at 11:30 AM
B.	**Faculty of Horticulture**	
13.	Horticulture	03.06.2019 at 11:30 AM
14.	Vegetable Science	04.06.2019 at 11:30 AM
C.	**Faculty of Home Science**	
1.	Food Science & Nutrition	07.06.2019 at 10:30 AM
2.	Family Resource Management	
3.	Extension Communication & Management	
4.	Human Development	
5.	Textile & Clothing	
D.	**Faculty of Agril. Engineering & Technology**	10.06.2019 at 11:30 AM
E.	**ZREAC Central Plain Zone, Dileepnagar**	12.06.2019 at 11:30 AM
	ZREAC South Western Semi Arid Zone Kalai Aligarh	15.06.2019 at 11:30 AM

(H.G. Prakash)
Director Research

Copy forwarded to following for information and necessary action.

1. HoD(s)/Incharges of all Departments with request to please inform all the scientists working on subject concern along with scientists of the KVKs.
2. Incharges Rabi Cereal, Oilseed, Legume and Vegetable Sections
3. Officer Incharge of all NARP Research Stations
4. Unit Incharge Sorghume, Cotton, Tobacco and Paddy
5. Director Seed & Farms
6. Director Extension with request to please inform to HoD of all KVKs of the Zone to ensure their participation in ZREAC meetings.
7. Dean, Faculty of Agriculture
8. Dean, Faculty of Home Science
9. Dean, Faculty of Agril. Engineering & Technology Etawah
10. T S to V C for kind information of Hon'ble Vice Chancellor.
11. Guard file Directorate of Research

18/4/19

(H.G. Prakash)
Director Research

Proceeding of Research Advisory Committee Meeting of Agronomy for *Kharif*-2019

The Research Advisory Committee meeting of the Dept of Agronomy was held on 01.07.2019 under the Chairmanship of Dr. Sanjeev Kumar, Professor & Head, Department of Agronomy for finalizing the research programme of ***Kharif*, 2019** in committee room of the department of Agronomy, C. S. Azad University of Agriculture & Technology, Kanpur.

The following officers/ scientists were present:

S. No.	Name	Designation
1.	Prof. H.G. Prakash	Director Research
2.	Dr. Ved Ratan	Professor, Plant Pathology/Dean College of Home Sc.
3.	Dr. Sanjeev Kumar	Professor and Head, Dept of Agronomy
4.	Dr. Karam Husain	Professor/Chief Agronomist, Dept of Agronomy
5.	Dr. D. D. Yadav	Professor, Dept of Agronomy
6.	Dr. Ram Pyare	Profcssor, Dcpt of Agronomy
7.	Dr. Dhananjai Singh	Associate Professor, Dept of Agronomy
8.	Dr. V. K.Verma	-do-
9.	Dr. M.Z. Siddiqui	-do-
10.	Dr. Naushad Khan	-do-
11.	Dr. Sarvesh Kumar	Associate Professor, Dept of SCWM
12.	Dr. Uma Shankar Tiwari	Assistant Professor, (Integrated Farming System)
13.	Dr. Y.K. Singh	Assistant Professor, Dept of Agronomy
14.	Shri Vishram Singh	-do-
15.	Shri Lal Mani	-do-
16.	Shri Raj Veer Singh	Assistant Professor, Oil Seed Section
17.	Dr. Rajiv	Jr. Agronomist, Vegetable Section
18.	Dr. Jitendra Singh	Assistant Professor, Directorate of Extension
19.	Dr. V. B. Jaiswal	Jr. Agronomist, AICRIP Potato
20.	Dr. S.B. Pandey	Assistant Chemist, Soil Sc. & Agric. Chemistry
21.	Dr. C. B. Singh	F.S. on AICRP Agro meteorology

Meeting started with the welcome address of the Prof. Sanjeev Kumar, Chairman, welcome all the participants from different departments of the university. In his welcome address Prof. Sanjeev Kumar emphasized to take up the need based research keeping in mind the priority areas of research i.e. Judicious use of major nutrients along with use of secondary elements (s) and Micronutrients (Zn) depending upon soil test value, Integrated nutrient management for growth land development as well as sustainability of the system. Efficient use of water under limited irrigated condition to improve WUE and selection of crops based on availability of irrigation water, proper management practices and cropping sequence to

suppress the menace of weeds in field condition. Study of weather parameters on growth and development of different crops grown during *kharif, rabi* as well as in *zaid* season.

To provide food and fibre to the growing population of the country along with nutritional security, he also pointed out that emerging challenges includes climate change, availability of quality seed, water availability, energy needs etc. which must be considered effectively for sustainable production. He exhorted the agronomist to formulate their research programmes on the basis of farmers' feedback and keeping in view the regional priorities. He also suggested that all information regarding recommendation should be timely reported to HoD, Agronomy for inclusion of university recommendation in Saghan Paddati (सघन पद्धति), published by Govt. of Uttar Pradesh.

Prof. H.G. Prakash, Director Research in his address also emphasized need based research as well as the need of integration of scientists of different disciplines to carry out result oriented research. He has given emphasis on zero budgeting module as well as carbon sequestration for different crop production. He also emphasizes students' research (M.Sc./ Ph.D.) should be planned according zero budgeting based on farmers' need rather than traditional one. He also emphasized the role of agronomist in present context of climate change, need of climate resilient farming and research should be based on various farming system modules to enhance organic matter status of soil to cope up the requirements of increasing population without deteriorating the natural habitat as well as improve farmers' income.

At the end he suggested two to three days brain storming session on zero budgeting and organic farming should be organised by the department of Agronomy with budget assistance from Directorate of Research, C.S.A. University of Agriculture and technology, Kanpur.

At the end chairman advised the scientists to pool their wisdom in depth with enthusiasm and do in-depth discussion to formulate the strategies for elevating sustainable agriculture production. He felt confidence on scientists of varied back grounds, experience and knowledge to address the matters that is lying before the nation.

Review of previous meeting

The proceeding of previous RAC meeting held on 28th June, 2018 and circulated to members vide letter no. AGR/EN-82/2019 dated 27.04.2019 was reviewed. Since, there was no communication received from any members hence the proceeding is confirmed.

Chairman reviewed the progress of decisions of previous meeting one by one and discussed about the reason of shortfall in few cases. He gave appropriate suggestions and advised to prepare compliance report timely.

Discussion on Research Programme

All the research programmes were presented on power point. All the scientists/in-charge of the projects/schemes presented their programme one by one, which were discussed at length. The decision taken is here as under:

AICRP on Agro-meteorology

Dr. Naushad Khan, emphasized climatic characterization region wise, presented the research findings of *Kharif* 2018 and technical programme for *Kharif* 2019. Weekly initial probability of 20 mm or more wet [P(w)] followed by wet week [P(w/w)] and dry week [(P(w/d)] using 45 years' rainfall data. This indicate that a short duration *Kharif* crop can be grown during 25 to 37 meteorological weeks being higher chances of getting adequate amount of moisture at critical stage of rain fed crops. Thus, crop sown during 25 to 27th Standard Meteorological Weeks (SMW) would not suffer from moisture stress during crop period, if crop duration is 80- 95 days. He emphasizes region wise rainfall of S-W monsoon, extreme rainfall during season (wet season). He also discusses rainfall during 2018 as well as decadal rainfalls show from 1971-2018.

Chairman suggested that Entomologist and Pathologist should cooperate with the project to study the constraints related with the incident of insects, pests and diseases. He also emphasizes the need of meeting with experts from different departments for future planning and forecasting of advisory to the farmers.

Dr Khan presented research programme on maize with emphasis on GDD, HUE and other climatic constraints.

Exp. No. 1: Studies on Maize- wheat cropping system in relation to weather.

The results were discussed and experiment will be continued.

Action: Agro-meteorologist

Exp. No. 2: Influence of weather parameters on growth and yield of maize varieties growing under different environment.

The results were discussed and experiment will be continued.

Action: Agro-meteorologist

Agromet Advisory Services (AAS) under GMS:

Dr Khan also emphasized the economic impact of agro-advisory service during *Kharif* season of 2017-18. Further he stated about the results and achievement of Forecasting of Agricultural output using Space Agro-meteorology and Land based observation (FASAL).

Exp. No. 1: Starting of Experimental Agro-meteorological Advisory Services.

Dr Khan presented the result and experiment will be continued.

Action: Technical Officer, DST

AICRP on IFS

Technical programme of Integrated Farming Systems Research was presented by Dr. U. S. Tiwari. He presented results of on Station as well as on Farm experiments along with IFS Model.

On Station results

Exp. No.1: Identification of cropping systems module for different farming systems.

Result of experiment was discussed and experiment will be continued.

Action: Scientist- farming system

Exp. No. 2: Sustainable resource management for climate smart IFS.

Result of the experiment was discussed and experiment will be continued.

Action: Scientist- farming system

OFR results

Exp. No. 1: On farm crop response to plant nutrients in predominant cropping system and their impact on crop-live stock-human continuum.

Experimental results were discussed and experiment will be continued.

Action: OFR Agronomist

Exp. No.2: Diversification of existing farming systems under marginal households' conditions.

Experimental results were discussed and experiment will be continued.

Action: OFR Agronomist

Exp. No.3: On farm evaluation of farming system modules for improving the profitability of small and marginal households.

Result of experiment was discussed and will be continued.

Action: OFR Agronomist

Note: Final result system productivity of all experiments will be presented in RAC of *rabi* season for On station trial as well as OFR centre.

Vegetable Science

Technical programme of vegetable science was presented by Dr. Rajeev. He presented result of one experiment.

Exp. No. 1: Weed control in cowpea during *kharif* season.

Results of the experiment were discussed and experiment will be continued.

Action: Dr. Rajeev

Exp. No. 2: Response of bitter gourd to foliar application of micronutrients.

Results of the experiment were discussed and experiment will be continued.

Action: Dr. Rajeev

AICRP on Pigeon pea

Technical programme of pigeon-pea was not presented due to absence of Dr Akhilesh Mishra, Agronomist, Chairman show unhappiness over his absence without any intimation.

AICRP on Sesame

Technical programme of Sesame was not presented due to absence Sesame Agronomist, Chairman show unhappiness over his absence without any intimation.

AICRP on Rice

Technical programme of rice was not presented due to unavailability of programme from Directorate of Rice.

Rice (Non- Plan)

Dr. G. S. Parihar was unable to attend meeting due sickness of her wife, he will present results latter to the committee formed by HoD Agronomy.

Water management Non-Plan

Dr Sanjeev Kumar presented results of one experiment.

Exp. No 1: Studies on *in-situ* moisture conservation practices in *Zea mays* L. for Central Plain Zone of U.P.

Results of the experiment discussed and concluded.

Action: Dr. Sanjeev Kumar

Weed management Non-Plan

Dr Dhanajai Singh will plan new experiment and present programme latter to the committee formed by HoD Agronomy.

Teaching Non-Plan

Shri Sayaveer Singh under the guidance of Dr. M. Z. Siddiqui presented Ph.D. research programme.

Exp. No 1: Effect of land configuration and weed management on hybrid maize (*Zea mays* L.) during *kharif* season.

Experiment discussed and will be continued

Action: Ph.D. Student

Shri Ram Naresh under the guidance of Dr. Sanjeev Kumar presented Ph.D. research programme.

Exp. No 2: Study on effect of irrigation, nutrients levels and weed management practices on aromatic rice (*Oryza sativa* L.).

Experiment discussed and will be continued

Action: Ph.D. Student

Suggestions by the Chairman

- All scientists should be present during meeting that will help in learning of new innovative ideas. **(Action: All scientists)**

- Compliance of the decision regarding experiments should reach one month before next meeting. **(Action: All scientists)**

- The chairman advised the scientists to visit their experiments frequently for ensuring proper monitoring. **(Action: All scientists)**

Meeting ended with vote of thanks proposed by the convener of the meeting to the Director Research, Chairman, Heads of various disciplines and all committee members for actively participating in the fruitful discussion and suggestions during meeting.

(Sanjeev Kumar)
Head, Dept of Agronomy

No. AGR/EN- 341 /2019 Dated: 9.8.2019

Copy forwarded to the following for information and necessary action.

1. Director, AES
2. Dean, College of Agriculture
3. Director, Extension
4. Concerned scientists/Agronomists
5. Technical secretary to V.C. for kind information of Hon'able Vice-Chancellor

(Sanjeev Kumar)
Head, Dept of Agronomy

Proceeding of Research Advisory Committee Meeting of Kharif,2019 of the Department of Crop Physiology held on July 26,2019 at 11:00 A.M. in committee room.

Participants.

1. Dr. Poonam Singh. Dean, College of Agriculture,& Professor & Head, Deptt. of Crop Physiology
2. Sri Manoj Mishra, Asstt. Director, A.E.S.
3. Dr. Mohd. Sameem, Asstt. Director, A.E.S.
4. Dr. S.K.Gupta, Professor, Genetics & Plant Breeding
5. Dr. R.B.Singh, Directorate of Extension
6. Dr. U.D. Awasthi,Asstt. Professor, Soil Conservation
7. Dr.S.N.Singh, Asstt. Professor, Deptt. of Crop Physiology
8. Dr. C.B.Verma, Asstt.Professor, Deptt. of Crop Physiology
9. Dr. S.P.Kushwaha, Asstt.Professor, Deptt. of Crop Physiology
10. Dr. M. A. Khan, Asstt. Professor, Deptt. of Crop Physiology
11. Dr. A.K.Singh Asstt .Professor, Deptt. of Crop Physiology
12. Dr. O. P.Singh, Asstt. Professor, Deptt. of Crop Physiology
13. Dr. D. K.Tripathi, Asstt. Professor, Deptt. of Crop Physiology
14. Dr. Manoj Katiyar, Asstt. Professor, Legume Section
15. Dr. S.M. Tripathi, Asstt. Professor, Horticulture
16. Dr. Anjani Kumar Singh, Asstt. Professor, Agri. Economics & Statistics.
17. Sri Arun Srivastava, Deptt. of Crop physiology

At the outset Dr. Poonam Singh, Professor & Head, warm welcomed to Dr. Samim, Asstt. Director Research and presented significant achievement and priority area of research of the department of Crop Physiology. Dr. Md. Samim going through the action taken report enquired with each scientist about the follow-up action taken by the concern as mention in action taken report. Technical programme was presented by each scientist and were discussed in length and following decision were taken.

1.1 Experiment on Production Physiology presented by Dr. O.P.Singh, which was approved.

2.1 Concluded

2.2 Approved

2.3 Approved

3.1 Approved

4.1 Concluded

4.2 Concluded

4.3 Approved

4.4 Approved with remark of the house that treatment of $G.A._3$ instead of CCC.

At the end of meeting Dr. Poonam Singh, expressed vote of thanks to all participants for attending the RAC meeting.

Professor & Head
Deptt. of Crop Physiology

No. C.P. 391 Dated: July. 31 .2019

Copy to:-

1. Director, A.E.S.
2. Dean, College of Agriculture.
3. Technical secretary to Hon'ble Vice-Chancellor for information to Hon'ble Vice-Chancellor
4. All concerned HOD.

Professor & Head
Deptt. of Crop Physiology

Department of Entomology

Chandra Shekhar Azad University of Agriculture & Technology,
Kanpur- 208002

No. ENT- 241 /2019 Dated: 9.7. 2019

Proceeding of Research Advisory Committee of Kharif-2019 held on 03.07.2019 in the Department of Entomology under the chairmanship of Director, AES:

Directorate of Agricultural Experiment Station
Diary No. 1146 /DRI 19
Date 12/07/19
Chandra Shekhar Azad University of Agriculture and Technology, Kanpur

The following faculty members were present in the meeting:

S.No.	Name	Designation	Department
1	Dr. H.G. Prakash	Director, AES	Directorate of Research
2	Dr. Mohd. Shamim	Asstt. Director Research	Directorate of Research
3	Dr. D.R. Singh	Professor & Head	Entomology
4	Dr. Y.P. Malik	Professor	-do-
5	Dr. Ram Singh	Asstt. Professor	-do-
6	Dr. R.K. Dwivedi	-do-	-do-
7	Dr. A.S. Srivastava	-do-	-do-
8	Dr. Fazal Ahmad	-do-	-do-
9	Dr. Shridha Saxena	-do-	-do-
10	Dr. D.K. Singh	-do-	Oil Seed Section
11	Dr. Jitendra Kumar	-do-	EBR
12	Dr. S.B. Pandey	-do-	Soil Science & Agric. Chemistry
13	Dr. S.M. Tripathi	-do-	Horticulture
14	Dr. U.K. Tripathi	Professor & Head	Plant Pathology

In the begning Professor & Head, Dr. D.R. Singh welcome the Director, AES and all the faculty members, representative of different departments. He elaborated the challenges faced by the farmers in present environmental conditions and also discussed thrust area of entomological discipline. He also presented the significant achievements of previous Kharif year 2018. The proposed Research Programme were presented by concerned research scientists. The decisions were taken after through discussion are mentioned as below:

Sri Manoj Mishra

Project No.1 : Approved as such presented by Dr. D.R. Singh with the suggestion that white fly population as vector of mosaic will be confirmed with the help of plant pathology Department of this University

Project No.2 : Approved as such presented by Dr. Y.P. Malik

Project No.3 : Approved as such presented by Dr. R.K. Dwivedi

Project No.4 : Approved as such presented by Dr. R.K. Dwivedi

Project No.5 : Approved as such presented by Dr. Ram Singh with the suggestion that 100 seed weight should be observed properly in protected and unprotected sunflower crop

Project No.6 : Approved as such presented by Dr. Fazal Ahmad with the suggestion that recommendation should be improved as yield data in all the treatments are on par statistically.

Project No.7 : Approved as such presented by Dr. A.S. Srivastava

Project No.8 : Approved as such presented by Dr. A.S. Srivastava

Project No.9 : Approved as such presented by Dr. Shridha Saxena with the suggestion that common and Scientific names of recorded 26 species of birds should be mentioned

Project No.10 : Approved as such presented by Dr. Shridha Saxena

After presentation of all research programme Dr. D.R. Singh, Professor & Head mentioned that most of the faculty members are engaged in teaching, and they are sincerely persuing research work and extension activities of the University. They are also participating in extension activities at University, district, blocks and as well as village level.

After presentation of all the project by concerned scientist, Director, AES appreciated the preparation and interaction on the research project. Dr. H.G Prakash, Director, AES emphasized in the meeting that Plant Protection is more important for sustainability of agriculture in the context of climate change, identification of new emerging pests along with their extent of losses, and he suggested that all the scientists are required to submit small fund projects from different funding agencies. He also suggested that students of M.Sc. (Ag.) and Ph.D. can apply for advance training on different research aspect in National and International Institute and for this purpose the Budget will be provided from CAAST-NC Project running in the University.

The meeting ended with the vote of thanks by Dr. R.K. Dwivedi, Asstt. Professor of the Department of Entomology.

Approved

9/12/12

Director
Agricultural Experiment Station
C.S. Azad Univ. of Agri & Tech.
Kanpur

(D.R. Singh)
Professor & Head

Department of Genetics and Plant Breeding,
C.S.Azad University of Agriculture and Technology, Kanpur-208 002

No.: GPB- 510 /2019 Dated: July 15, 2019

1. **Dean, Faculty of Agriculture**
2. **Director, Agriculture Experiment Station.**
3. **Director, Extension**
4. **All the Heads/Incharges of Departments**

Sir/Madam,

Kindly find enclosed herewith the proceedings of Research Advisory Committee Meeting of *Kharif* 2019 held on June 25 and 26, 2019 for your information and further necessary action.

15/07/2019

(Mahak Singh)
Professor and Head

15/07/19

No.: GPB- /2019 dated as above.

Copy to:

1. TS to VC for kind information of Hon'ble Vice Chancellor

15/07/2019

(Mahak Singh)
Professor and Head

15/7/19

Proceeding of Research Advisory Committee Meeting *Kharif* 2019-20

June 25 and 26, 2019

The meeting was chaired by Hon'ble Director Research. Head of Department welcomed all concerned crop breeders and other participating members. The research programme of following, crops were discussed and suggestions were given by members.

1. **Pigeonpea:** Research programme was presented by **Dr. A. K. Srivastava**

Project 1 to 2: Approved.

2. **Rice:** Research programme was presented by **Dr. P.K. Singh**

Experiment No.1: Approved.

Experiment No. 2: Approved.

Experiment No. 3: Approved.

3. **Groundnut (Mauranipur)** : Research programme was presented by **Dr. M.C. Verma**

Expt. No. 1 to Expt. No. 12: Approved.

Suggestions: 1. Include Utkarsh variety as check in late sown experiments.

2. Make two crosses for each objective.

4. **Sesame:** Research programme was presented by **Dr. Mahak Singh.**

Experiment No.1IVT (AICRP): Approved.

Experiment No.1AVT (AICRP): Approved.

Experiment No.3 Station Trial (AICRP): Approved.

5. **Mungbean:-** Research Programme was presented by **Dr. Manoj Katiyar**

Expt. No. 1 to Expt. No.6: Approved.

Expt. No. 1 (AICRP): Approved.

6. **Urdbean:** Research programme was presented by **Dr. (Mrs.) Geeta Rai.**

Expt. No. 1 to Expt. No. 7: Approved.

Expt. No. 1 (AICRP): Approved.

7. **Cotton:** All projects were approved.

8. **Jowar, Forage and Maize:** Research programme was prepared by **Dr. H.C. Singh.**

Jowar: Expt. No. 1 to Expt. 3: Approved.

Maize: Expt. No. 1 to Expt. No. 2: Approved

Forage cowpea: Project approved

Dr. S.K. Singh gave vote of thanks.

Prepared by

(S.K. Singh)

(R.P. Vyas)

15/07/2014

(Mahak Singh)
HoD, Genetics & Plant Breeding

Approved

(H.G. Prakash)
Director Research

Proceeding of Research Advisory Committee Meeting of Department of Plant Pathology for *Kharif* - 2019

No.: 209/PP/2019 Dated: 09.08.2019

Date: July 02, 2019

Presence:

1. Dr. H.G. Prakash, Director Research
2. Dr. R.B. Singh, Joint Director, Extension
3. Dr. A.L. Jatav, Professor, Seed Technology
4. Dr. Ved Ratan, Professor & Head, Plant Pathology
5. Dr. U.K. Tripathi, Professor, Plant Pathology
6. Dr. S. K. Biswas, Associate Professor, Plant Pathology
7. Dr. J.B. Khan, Assistant Professor, Plant Pathology
8. Dr. A.K. Dubey, Officer in Charge, Vegetable
9. Dr. B.K. Singh, Assistant Professor, Plant Pathology
10. Dr. V.K. Tripathi, Incharge, Horticulture
11. Dr. S.B. Pandey, Assistant Professor, Soil Science & Agril. Chemistry
12. Dr. Nand Kumar, Assistant Professor, Agril. Biochemistry
13. Dr. Anjani Kumar Singh, Assistant Professor, Agril. Eco. & Stats
14. Dr. Y.P. Malik, Professor, Entomology
15. Dr. M.R. Dabbas, Assistant Professor, Plant Pathology
16. Dr. A.K. Katiyar, Assistant Professor, Soil Conservation & Management

The meeting was started with the warm welcome of the chair person Dr. H.G. Prakash, members of different departments and the faculty members of Plant Pathology by Head, Plant Pathology.

Head, Plant Pathology briefly highlighted the significant achievements of the department of last year. He also informed to the house that total 12 research proposals have been submitted by the faculty members to discuss in the meeting.

Each of these Projects was discussed thoroughly and decision/ suggestions were noted and are given below:

A. Projects from Department of Plant Pathology

1. **Project no 1: Screening of cotton varieties/ cultures against major diseases**- Approved
2. **Project no 2: Management of Bacterial blight of sesame through bioagents and chemicals**- Concluded
3. **Project no 3: Effect of *Trichoderma* based Agro residues on Root rot of Mung/ Urd bean** - Approved.
4. **Project no 4: Management of seed-borne infection of anthracnose disease caused by *colletotrichun truncatum* of black gram** - Approved.
5. **Project no 5: Management of seed-borne infection of root rot disease of green gram (*Rhizoctonia* sp.) by seed treatment with newly chemical and biofungicide** - Approved
6. **Project no 6: Efficacy of calcium chloride as inducer in induced resistance in tomato against fusarium wilt** -Approved

B. Technical Programme Of Vegetable Pathology For The Year 2019-20
AICRP Center Kalyanpur, Kanpur

7. **Programme No. 1: Nursery disease management by using bio-agents and new fungicides (Chilli)** Approved.

8. **Programme No. 2: Integrated management of Vector born virus disease of Chilli**- Approved.
9. **Programme No. 3: IDM package for Tomato Diseases**- Approved.
10. **Programme No. 4: IDM package for cucurbit diseases (Bottle gourd)**- Approved.
11. **Programme No. 5: Monitoring of emerging diseases of vegetable crops**- Approved.
12. **Programme No. 6: Assessment in yield losses due to major diseases in tomato**- Approved.
13. **Programme No. 7: Identification of causal involved in stem splitting and gummy stem blight in cucurbit crops.**- Approved.
14. **Programme No.8: Integrated management of bitter guard virus diseases.**- Approved

C. **Research Programme Of Non Plan For The Year 2019-20**

15. **Programme No. 1: Chemical management of Seoptoria leaf spot disease of tomato caused by *Septoria lycopersici*.**- Approved
16. **Programme No. 2: Chemical management of Phomopsis blight of brinjal caused by *Phomphosis vexans*.**- Approved

The meeting was ended with vote of thanks by Dr. S.K. Biswas, Professor, Plant Pathology.

(U.K. Tripathi)
Head, Plant Pathology

Head
Deptt. of Plant Pathology
C.S.U. & Tech. Kanpur

(H.G. Prakash)
Director, AES

Director
Agricultural Experiment Station
C.S. Azad Univ. of Agri & Tech.
Kanpur

Head
Deptt. of Plant Pathology
C S U & Tech. Kanpur

Proceedings of RAC meeting held on 08-07-2019 for Kharif 2019-20 in the Department of Soil Conservation and Water Management

A meeting was held on 08-07-2019 to finalize the research programme of Kharif 2019-20. Following scientists / teachers were present:

S.No.	Name	Designation
1.	Dr. Mohd. Shamim	Asstt. Director Research
2.	Dr. R.P.Singh	Head of Deptt. , SCWM
3.	Dr. Munish Kumar	Professor , SCWM
4.	Dr. Kaushal Kumar	Assoc. Professor, SCWM
5.	Dr. Sarvesh Kumar	Assoc. Professor, SCWM
8.	Dr. U.D. Awasthi	Assistant Professor, SCWM
9.	Dr. A.K. Katiyar	Assistant Professor, SCWM
10.	Dr. O.P. Singh	Asstt. Professor, Crop Physiology
11.	Dr. Anjani Kumar Singh	Assistant Professor, Agril. Econ. & Statistics
13.	Dr. Rakesh Kumar Singh	Assistant Professor, Agril. Econ. & Statistics
14.	Dr. S.B. Pandey	Asstt. Chemist (Pesticide) Deptt. of Soil & Agril. Chem.

After warm welcome by Dr. R.P. Singh, Head of Department to all participants in the meeting, the achievements and compliance report was presented by Dr. Sarvesh Kumar for various research programme. During meeting, projects were presented one by one by the relevant Scientist/Teachers given as under:

Project No. 1: "Effect of FYM doses on sorghum based intercropping systems under rainfed condition"

The M.Sc.(Ag.) experiment was conducted for 2 years. Dr. Munish Kumar presented data and project was allowed to concluded by the committee. The recommendations of concluded trials were as under:

(i) The yield of sole and intercropped green gram in terms of sorghum equivalent grain yield showed significant variation, whereas sorghum + greengram (2:1) brought out significantly the highest grain yield as compared to other cropping systems during both the years. Moreover, the LER, WUE and net return were also highest found to be the Remunerative during both the years.

(ii) Sorghum equivalent grain yield and LER increased remarkably with increase in level FYM and yield being maximized at 20 FYM/ha. However, variation in yield and being observed in between 10 and 20 t/ha could not touch the line of significant during both the years. Total water use and WUE also increased with increasing level of FYM and the highest values were recorded with application of 20 t FYM/ha. The highest return was calculated with 10 t FYM/ha followed by 20 t FYM/ha while the low recording under without FYM during both the years.

Project No. 2: "Enhancing crop water productivity of maize crop by fertility levels and moisture conservation practices in rainfed condition"

A new experiment was proposed by Dr. U.D. Awasthi related to M.Sc.(Ag.) trial. The project was approved by the committee with suggestion that design of experiment should be factorial RBD and ZN So_4 @ 25 kg/ha applied uniformly under fertility treatments.

Project No. 3 "Study the effect of different intercropping patterns on yield and yield components of sorghum (*Sorghum bicolor* L.) cluster been (*Cyamopsis teytragondeba*) under moisture stress condition.

Last year M.Sc.(Ag.) trial was presented by Dr. Munish Kumar. The project was approved by the committee with suggestions to continue in Kharif 2019-20 for confirmation of the findings.

Project No. 4: "Studies on nutrient management and moisture conservation practices on pearlmillet (*Pennisetum glycican* L.) production under light textured soil."

A new experiment was proposed and presented by Dr. Sarvesh Kumar for their Ph.D. student. The project was discussed in detail and approved by the committee with suggestions that treatment no. 4 should be as green manuring + FYM10 t/ha.

Project No. 5: "Performance of Maize based intercropping system under different INM protocol in Central Plain Zone of Uttar Pradesh."

A new experiment was proposed by Dr. Kaushal Kumar related to M.Sc.(Ag.) trial. The project was discussed in detail and approved for conducting in present *Kharif* season.

Project No. 6: "Study on intercropping systems and tillage practices on production of pigeonpea & maize." Last year M.Sc.(Ag.) trial was presented by Dr. Sarvesh Kumar. The project was approved by the committee for M.Sc.(Ag.) student with suggestions to continue in *Kharif* 2019-20 for confirmation of the findings of the experiment.

Project No. 7: "Effect of planting pattern and moisture conservation practices on performance of Pearlmillet (Penisetum glaucum L.) under rainfed condition."

Last year M.Sc.(Ag.) trial was presented by Dr. R.P. Singh. The project was approved with suggestions to continue in *Kharif* 2019-20 and present data in next year.

Project No. 8: "Impact of moisture conservation practices and varieties of pearlmillet under rainfed condition."

A M.Sc.(Ag.) trial was presented by Dr. A.K. Katiyar. The project was discussed in detail and committee suggest to continue in *Kharif* 2019-20 for confirmation of the findings.

Project No. 9: "Effect of plant geometry and fertility levels on growth and yield of Kalmegh (Andrographis paniculate)."

Last year M.Sc.(Ag.) trial presented by Dr. Kaushal Kumar and after discussion it is considered by the committee to concluded.

Project No. 10: "Effect of rain water conservation practices and mulching on yield of maize(Zea mays L.) under climate change conditions."

Last year Ph.D. trial presented by Dr. R.P. Singh. After discussion in detail and committee allowed to continue with suggestion that data present in next year meeting.

The meeting was ended with vote of thanks and concluding remarks by Dr. Sarvesh Kumar, Associate Professor of this department.

(**R.P. Singh**)
Professor & Head

Department of Soil Conservation and Water Management
C.S. Azad University of Agriculture & Technology, Kanpur-208002

No. 346 /SCWM/2019-20 Dated: 2-09- ,2019

Copy forwarded for information & necessary action to:

1. Dean, Faculty of Agriculture, CSAU, Kanpur
2. Director, Agricultural Experiment Station, CSAU, Kanpur
3. Professor & Heads(s)/In -charge (s) of the Department – Agronomy, Soil Sci. & Agril. Chemistry, Plant Pathology, Entomology, Crop Physiology and Agril. Economics & Statistics
4. All Teachers/Scientists of the Department
5. T.S. to V.C. for kind information of Hon'ble Vice-Chancellor.

(**R.P. Singh**)
Professor & Head

खरीफ-2019

Proceedings of Research Advisory Committee Meeting for Kharif 2019 held on 27.06.2019

Research Advisory Committee Meeting was held in the Chamber of Head of Department of Soil Science and Agricultural Chemistry on 27.06.2019 . At the outset of meeting Dr. Ravindra Kumar, Head of Deptt. warmly welcomed the galaxy of Scientist along with the representative to Director Research, Dr. Mohd Shameem. Head of Deptt. concluded about the research findings of the different experiments conducted during last year. The salient achievements of the departmental research work was presented by Dr. R.K. Pandey, Asstt. Professor/Asstt. Residue Analyst. The technical programme of Kharif -2019 was presented by the concerned respective scientist.

The following scientists were present during discussions:

1.Dr. Ravindra Kumar, Head of Deptt.
2.Dr. R.C. Nigam, Professor
3.Dr. Mahak Singh, Head, GPB
4.Dr. Mohd. Shamim, Asstt. Director /Representative of Director AES
5.Dr. Anil Kumar, Associate Professor
6.Dr. S.N. Pandey, Asstt. Professor
7.Dr. R.K. Pandey, Asstt. Professor
8. Dr. S.B. Pandey, Asstt. Professor
9. Dr. S.D. Dubey, Asstt. Professor
10. Dr. Sushil Dimree, Asstt.Professor
11. Dr. R.K. Pathak, Asstt. Professor
12. Dr. Devendra Singh, Asstt. Professor
13. Sri K.N. Singh, Asstt. Professor
14. Dr. R.N. Dixit, Asstt. Professor
15. Dr. S.K. Uttam, Assoc. Prof., Soil Conservation
16. Dr. Umashankar Tiwari, Asstt. Prof., Agronomy
17. Dr. Rakesh Kumar Singh, Asstt. Prof., Agril. Economics
18. Dr. Subhash Chandra, Associate Director,Directorate of Extension.
19. Dr. Rakesh Babu, Asstt. Prof., Bio Chemistry
20. Dr. Ram Singh Umrao, Asstt. Prof., Entomology

1- **Quality Testing of Pesticides, Fertilizer and Manures and Allied Products:**
Under quality testing scheme following projects were discussed:
Project No.1 : Quality testing of Pesticide.
Project No.2: Quality testing of fertilizer, Manure and allied products.
Project No.3: Effect of Sulphur, Potassium and PSB on yield and quality of ground nut.
Project No.4 Evaluation of polysulphate on yield attribute, yield and quality of groundnut/ seasame in alluvial soil of Central U.P..
Above four projects presented by Dr. S.B. Pandey before the house and approved after through discussion by the house.

2- **Soil Testing Scheme**

Project No.1- Soil fertility evaluation for balanced fertilization on cultivators fields and projects.

Project No.2: Evaluation of Soil fertility status of university farm in respect to macro and micrountrients.

Project No.3: Assessment of residual effect of N,P and K and FYM on wheat-greengram cropping system in Indo-Gangetic Planes of Uttar Pradesh.

The programme was presented by Sri K.N. Singh . He also emphasized about the laboratory condition. All the three projects were approved by house after rigorous discussions.

3- **Soil Survey and Soil Fertility:**

The programme of above scheme was presented by Dr. R.N. Dixit.

1- Project No.1: Effect of Primary, Secondary and Micronutrients on Urd-Mustard cropping sequence. After detail discussion this project was approved as such.

2- Project No.2: Longterm fertility experiment on Paddy-wheat cropping sequence. This project was started in 1954-55 at Uttari Pura farm in Field No.21 to know the longterm impact of organic and inorganic fertilizers in Paddy-wheat sequence.

3- Long term fertility experiment on Paddy-wheat cropping sequence.

The Project was started in 1971-72 at Uttari Pura both project-2 and 3 were presented by Dr. S.K. Mishra and data on both the experiments were well presented, discussed and approved by house.

4- **Microbiology:**

Project-1: Isolation and maintenance of Rhizobium culture .

Project-2: Isolation and maintenance of Azotobacters strains .

Project-3: Maintenance and production of PSB culture.

All above three project presented by Dr. S.D. Dubey and after discussion approved as such.

5- **AINP on Pesticide Residues-** All six experiments were presented by Dr. R.K. Pandey but details data has not be given. Dr. Pandey assured the house that the regarding data will be include in next RAC meeting, though ICAR directly approved all the projects of AINP on Pesticide Residues as such.

6- **Professor (IFFCO) Chair Programme:**

Project No.1 , Nutrient optimization through organic and inorganic resources in Rice-wheat cropping system.

Project No.2 Study on application of Bio Nano-phosphorus, potassium and zinc on different cropping system.

Dr. R.N. Dixit presented and discussed the projects before house. House was convinced with the discussions with Dr. Dixit and approved both programmes.

7- **AICRP on Micronutrients:** Project No. 1 to 5 were presented by the P.I. . All projects of Micronutrients scheme were discussed and approved by the house.

8- **AICRP on salt affected soil:** Following projects were discussed .

Project-1 Survey and characterization of under ground irrigation water of Auraiya distt. of Uttar Pradesh.

Project: 2 Conjunctive use of high RSC water in different cropping systems under sodic soil.

Project No.3 Screening of rice, wheat and mustard varieties/geno types in sodic soil
Project No.4 Effect of CSR-Bio on tomato and cabbage in sodic soil at farmers field.
Project No.5 Assessment of efficacy of organic amendments for sustainable crop production under rice wheat cropping system in sodic soil
Project-6 Assessment of tannery effluent composition for irrigation and its effect on soil properties and crop production.

All the above project of salt affected soils and crop production were discussed and house was satisfied by the justification of the projects given by concern scientist.

Meeting ended with vote of thanks proposed by Professor Ravindra Kumar, Head of Deptt. to all the members present in the meeting to discuss research programmes of the Deptt.

(Ravindra Kumar)
Head of Deptt.

Deptt. of Soil Science & Agricultural Chemistry
C.S.A.University of Agriculture & Technology,Kanpur

No. 386 /2019

Dated: 07.09.2019

Copy forwarded for information and necessary action:

1. Dean, Faculty of Agriculture.
2. Director, Agriculture Experiment Station.
3. All Professor and Head of the Department.
4. Technical Secretary to V.C. for kind information of the Hon'ble Vice Chancellor.
5. Concerned Scientist of the Department.

(Ravindra Kumar)
Head of Deptt.

Department of Vegetable Science
C.S. Azad Univ. of Agri. & Technology, Kanpur-208024

No.: VGS / 227 /2019-20 Dated: ~~June~~ July, 2019

Proceedings of the Research Advisory Committee Meeting (*Kharif*) held on Tuesday, June 4th, 2019 under the chairmanship of Director, AES.

At the outset, Officer-in-charge, Vegetable Section welcomed to the chairman, Heads of other discipline and members of the committee. Officer-in-charge also presented salient research achievements made during 2018. Dr. Sanjiv Kumar Singh, Assistant Professor presented Action Taken Report of last year's research programme. The research programmes of different vegetable crops for coming *Kharif* season were presented by the respective crop scientists. The decision taken by RAC are being reflected here as under –

Brinjal

- In project No. 1 fruit shape should be more descriptive.
- Director Research has advised to attach Dr. R.K. Pal, Asstt. Professor as a entomologist for recording the entomological data. He has also suggested that some skilled professionals may be provided by the PI of the Center of Excellence of vegetable crop for the development of hybrids in brinjal, tomato and bottle gourd. He has also suggested that Dr. M.R. Dabbas, Plant Pathologist (Department of Plant Pathology) will take all the pathological data of brinjal crop.

(Action - Dr. D. P. Singh, PI Center of Excellence, Dr P. K. Tiwari, Dr. M.R.Dabbas and Dr. R.K. Pal)

Tomato

- It was observed that entry KS-226 is being tested under AICRP trials, simultaneously this entry should also be tested on farmers field along with one national cheek on at least five locations.

(Action- Sri. Niranjan Singh)

- Dr. C.L. Maurya, Director Seed & Farms has explained that the maintenance of research trials is badly affected due to poor cultural operations hence some extra budgetary provisions should be made from contingency of Non-Plan budget.
- Director Research also pointed out that a new visitor's book should be kept in the department for valuable remarks of the visitors.

(Action – Dr. V.K. Yadav, Farm Superindent)

22/6/19

Remaining projects of all other crops were discussed and approved with certain modifications. The vote of thanks blowed by the Dr. I. N. Shukla, Assistant Professor of this department.

Encl: List of participants

22/6/19

(A.K. Dubey)
Officer In-charge

Letter No. & Dated: Above

Copy to the followings

1- Director, AES.
2- Dr. R.K. Pal through Director, AES.
3- Dr. M. R. Dabbas through HoD Plant Pathology.
4- Technical Secretary to the Vice Chancellor for information to Hon'ble Vice Chancellor.

22/6/19

(A.K. Dubey)

Directorate of Research

C. S. Azad University of Agriculture & Technology, Kanpur-208002

236

NO. 149 /DR/ 2020

Dated: 16, June, 2020

Circular

Departmental Research Advisory Committee and Zonal Research Extension Advisory Committee meetings will be held as per schedule given below to discuss and finalize research programmes for ***Kharif*-2020**. The schedule of dates should be adhered to.

S.N	Faculty/Discipline	Date & Time
A.	**Faculty of Agriculture**	
1.	Agronomy	16.06.2020 at 10:30 AM
2.	Agril. Biochemistry	17.06.2020 at 10:30 AM
3.	Plant Pathology	18.06.2020 at 10:30 AM
4.	Genetics and Plant Breeding	19.06.2020 at 10:30 AM
5.	Crop Physiology	23.06.2020 at 10:30 AM
6.	Entomology	24.06.2020 at 10:30 AM
7.	Soil Conservation & Water management and Forestry	25.06.2020 at 10:30 AM
8.	Seed Science & Technology	26.06.2020 at 10:30 AM
9.	Soil Science and Agril. Chemistry	27.06.2020 at 10:30 AM
10.	Animal Husbandry and Dairying	27.06.2020 at 03:00 PM
11.	Agril. Economics & Statistics	29.06.2020 at 10:30 AM
12.	Agriculture Extension	29.06.2020 at 03:00 PM
B.	**Faculty of Horticulture**	
13.	Vegetable Science	30.06.2020 at 10:30 AM
14.	Horticulture	30.06.2020 at 03:00 PM
C.	**Faculty of Home Science**	
1.	Food Science & Nutrition	01.07.2020 at 11:30 AM
2.	Family Resource Management	
3.	Extension Communication & Management	
4.	Human Development	
5.	Textile & Clothing	
D.	**Faculty of Agril. Engineering & Technology**	02.07.2020 at 11:30 AM
E.	**ZREAC South Western Semi Arid Zone Kalai Aligarh**	03.07.2020 at 11:30 AM
	ZREAC Central Plain Zone, Dileepnagar	04.07.2020 at 11:30 AM

16/6/20

(H.G. Prakash)
Director Research

Copy forwarded to following for information and necessary action.

1. HoD(s)/Incharges of all Departments with request to please inform all the scientists working on subject concern along with scientists of the KVKs.
2. Incharges Rabi Cereal, Oilseed, Legume and Vegetable Sections
3. Officer Incharge of all NARP Research Stations
4. Unit Incharge Sorghume, Cotton, Tobacco and Paddy
5. Director Seed & Farms
6. Director Extension with request to please inform to HoD of all KVKs of the Zone to ensure their participation in ZREAC meetings.
7. Dean, Faculty of Agriculture
8. Dean, Faculty of Home Science
9. Dean, Faculty of Agril. Engineering & Technology Etawah
10. T S to V C for kind information of Hon'ble Vice Chancellor.
11. Gaurd file Directorate of Research

16/6/20

(H.G. Prakash)
Director Research

Proceeding of Research Advisory Committee Meeting of Agronomy for *Kharif*-2020

The Research Advisory Committee meeting of the Dept of Agronomy was held on 22.06.2020 under the Chairmanship of Dr. Sanjeev Kumar, Professor & Head, Department of Agronomy for finalizing the research programme of ***Kharif*, 2020** in committee room of the department of Agronomy, C. S. Azad University of Agriculture & Technology, Kanpur.

The following officers/ scientists were present:

S. No.	Name	Designation
1.	Prof. H.G. Prakash	Director Research
2.	Dr. A.K.Dubey	Joint Director Research
3.	Dr. Karam Husain	Professor/Chief Agronomist, Head Dept. of Crop physiology
4.	Dr. Sanjeev Kumar	Professor and Head, Department of Agronomy
5.	Dr A. L. Jatav	Head, Seed Science and Technology.
6.	Dr. D. D. Yadav	Professor, Department of Agronomy
7.	Dr R. A. Yadav	Professor Agronomy EBR Section
8.	Dr. Ram Pyare	Professor, Department of Agronomy
9.	Dr. Dhananjai Singh	Associate Professor, Department of Agronomy
10.	Dr. V. K.Verma	-do-
11.	Dr. A. K. Srivastava	-do-
12.	Dr. M.Z. Siddiqui	-do-
13.	Dr. Naushad Khan	-do-
14.	Dr Jagdish Kumar	Associate Professor
15.	Dr. Rakesh kumar Singh	Assistant Professor, Department of AES
16.	Dr. Uma Shankar Tiwari	Assistant Professor, (Integrated Farming System)
17.	Dr. Y. K. Singh	Assistant Professor, Department of Agronomy
18.	Shri Vishram Singh	-do-
19.	Shri Lal Mani	-do-
20.	Shri Raj Veer Singh	Assistant Professor, Oil Seed Section
21.	Dr. Rajiv	Jr. Agronomist, Vegetable Section
22.	Shri. S.N. Pandey	Agro meteorologist
23.	Er. S. K. Sachan	Associate Professor, Department of Agronomy
24.	Dr. Ram Singh	Assistant Professor, Department of Entomology

Meeting started with the welcome address of the Prof. Sanjeev Kumar, Chairman, welcome all the participants from different departments of the university. In his welcome address Prof. Sanjeev Kumar emphasized to take up the need based research keeping in mind the priority areas of research *i.e.* Judicious use of major nutrients along with use of secondary elements (s) and Micronutrients (Zn) depending

upon soil test value, Integrated nutrient management for growth land development as well as sustainability of the system. Efficient use of rain water as well as crop management under limited irrigated condition to improve WUE and cropping intensity by proper selection of crops based on availability of water, efficient management practices and cropping sequence to improve production as well as suppress the menace of weeds in field condition. Study of weather parameters on growth and development of different crops as well as proper utilization of forecasting in performing agricultural operations during *kharif, rabi* as well as in *zaid* season.

To provide food and fibre to the growing population of the country along with nutritional security, he also pointed out that emerging challenges includes climate change, availability of quality seed, water availability, energy needs etc. which must be considered effectively for sustainable production. He exhorted the agronomist to formulate their research programmes on the basis of farmers' feedback and keeping in view the regional priorities. He also suggested that all information regarding recommendation should be timely reported to HoD, Agronomy for inclusion of university recommendation in Saghan Paddati (सघन पद्धति), published by Govt. of Uttar Pradesh. At last he requested Director Research for kind suggestion as well as guidance for execution of new experiments.

Prof. H.G. Prakash, Director Research in his address also emphasized need based research as well as the need of integration of scientists of different disciplines to carry out result oriented research. He has given emphasis on carbon sequestration its research, teaching and training for teachers and PhD students. He also emphasizes students' research (M.Sc./ Ph.D.) should be planned on priority areas and relevant to farmers rather than traditional one. He also emphasized the role of agronomist in present context of climate change, need of climate resilient farming and research should be based on various farming system modules to enhance organic matter status of soil to cope up the requirements of increasing population without deteriorating the natural habitat as well as improve farmers' income. He also discusses about plagiarism and advised the teachers/ scientists to aware M.Sc. /Ph.D. students while writing their dissertations.

At the end he suggested two to three days brain storming session on carbon sequestration and organic farming should be organised by the department of Agronomy with budget assistance from Directorate of Research, C.S.A. University of Agriculture and technology. Kanpur.

At the end chairman advised the scientists to pool their wisdom in depth with enthusiasm and do in-depth discussion to formulate the strategies for elevating sustainable agriculture production. He felt confidence on scientists of varied back grounds, experience and knowledge to address the matters that is lying before the nation.

Review of previous meeting

The proceeding of previous RAC meeting held on 1st July, 2019 and circulated to members vide letter no. AGR/EN-341/2019 dated 09.08.2019 was reviewed. Since, there was no communication received from any members hence the proceeding is confirmed.

Chairman reviewed the progress of decisions of previous meeting one by one and discussed about the reason of shortfall in few cases. He gave appropriate suggestions and advised to prepare compliance report timely.

Discussion on Research Programme

All the research programmes were presented on power point. All the scientists/in-charge of the projects/schemes presented their programme one by one, which were discussed at length. The decision taken is here as under:

AICRP on Agro-meteorology

Shri S. N. Pandey, emphasized climatic characterization region wise, presented the research findings of *kharif,* 2019 and technical programme for *kharif,* 2020. Weekly initial probability of 20 mm or more wet [P(w)] followed by wet week [P(w/w)] and dry week [(P(w/d)] using 45 years' rainfall data. This indicate that a short duration *kharif* crop can be grown during 25 to 37 meteorological weeks being higher chances of getting adequate amount of moisture at critical stage of rain fed crops. Thus, crop sown during 25 to 27th Standard Meteorological Weeks (SMW) would not suffer from moisture stress during crop period, if crop duration is 80- 95 days. He emphasizes region wise rainfall of S-W monsoon, extreme rainfall during season (wet season). He also discusses rainfall during 2019 as well as decadal rainfalls show from 1971-2019.

Chairman suggested that Entomologist and Pathologist should cooperate with the project to study the constraints related with the incident of insects, pests and diseases. He also emphasizes the need of meeting with experts from different departments for future planning and forecasting of advisory to the farmers.

Shri Pandey presented research programme on maize with emphasis on GDD, HUE and other climatic constraints.

Exp. No. 1: Studies on Maize- wheat cropping system in relation to weather.

The results were discussed and experiment will be continued.

Action: Agro-meteorologist

Exp. No. 2: Influence of weather parameters on growth and yield of maize varieties growing under different environment.

The results were discussed and experiment will be continued.

Action: Agro-meteorologist

Agromet Advisory Services (AAS) under GKMS:

Chairman also emphasized the economic impact of agro-advisory service during *kharif* season of 2018-19. Further he stated about the results and achievement of GKMS services provided to the farmers.

Exp. No. 1: Starting of Experimental Agro-meteorological Advisory Services.

Chairman presented the result and experiment will be continued.

Action: Technical Officer, DST

AICRP on IFS

Technical programme of Integrated Farming Systems Research was presented by Dr. U. S. Tiwari. He presented results of on Station as well as on Farm experiments along with IFS Model.

On Station results

Exp. No.1: Identification of cropping systems module for different farming systems.

Result of experiment was discussed and experiment will be continued.

Action: Scientist- farming system

Exp. No. 2: Sustainable resource management for climate smart IFS.

Result of the experiment was discussed and experiment will be continued.

Action: Scientist- farming system

OFR results

Exp. No. 1: On farm crop response to plant nutrients in predominant cropping system and their impact on crop-live stock-human continuum.

Experimental results were discussed and experiment will be continued.

Action: OFR Agronomist

Exp. No.2: Diversification of existing farming systems under marginal households' conditions.

Experimental results were discussed and experiment will be continued.

Action: OFR Agronomist

Exp. No.3: On farm evaluation of farming system modules for improving the profitability of small and marginal households.

Result of experiment was discussed and will be continued.

Action: OFR Agronomist

Dr A. K. Dubey, JDR raises question about crop and soil health, Dr Karam Husain explained about the impact of different cropping system on carbon

sequestration as well as soil health especially Organic carbon and NPK is calculated by the software provided by Directorate of IFS, Modipuram and data can be provided if needed by Directorate of research, C.S.A. University, Kanpur.

Note: Final result system productivity of all experiments will be presented in RAC of *rabi* season for On station trial as well as OFR centre.

Vegetable Science

Technical programme of vegetable science was presented by Dr. Rajeev. He presented result of two experiments.

Exp. No. 1: Weed control in cowpea during *kharif* season.

Results of the experiment were discussed and experiment will be continued.

Action: Dr. Rajeev

Exp. No. 2: Response of bitter gourd to foliar application of micronutrients.

Results of the experiment were discussed and experiment will be continued.

Action: Dr. Rajeev

AICRP on Pigeon pea

Technical programme of pigeon-pea was not presented due to absence of Dr Akhilesh Mishra, due covid-19, blockage in his area. He will present programme latter to the committee formed by HoD.

AICRP on Sesame

Technical programme of Sesame was not presented due to absence Sesame Agronomist, Chairman show unhappiness over his absence without any intimation.

AICRP on Rice

Technical programme of rice was not presented due to unavailability of programme from Directorate of Rice.

Rice (Non- Plan)

Dr. G. S. Parihar did not attended meeting since he is retiring in July, 2020.

Water management Non-Plan

Dr Sanjeev Kumar presented results of one experiment.

Exp. No 1: Studies on *in-situ* moisture conservation practices in maize (*Zea mays* L.) for Central Plain Zone of U.P.

Results of the experiment discussed and concluded.

Action: Dr. Sanjeev Kumar

Weed management Non-Plan

Dr Dhanajai Singh proposed one new experiment. House raises question about the use of banned herbicides and suggested to plan experiment afresh and present programme latter to the committee formed by HoD Agronomy.

Teaching Non-Plan

Dr. M. Z. Siddiqui presented Ph.D. research programme of Shri Sayaveer Singh.

Exp. No 1: Effect of land configuration and weed management on hybrid maize (*Zea mays* L.) during *kharif* season.

Result of the experiment discussed and will be continued.

Action: Ph.D. Student

Dr. Sanjeev Kumar presented Ph.D. research programme of Shri Ram Naresh.

Exp. No 2: Study on effect of irrigation, nutrients levels and weed management practices on aromatic rice (*Oryza sativa* L.).

Result of the experiment discussed and will be continued

Action: Ph.D. Student

Dr. Naushad Khan presented result of Ph.D. research programme of Shri Pramod Kumar.

Exp. No 3: Study on crop establishment methods and weed dynamics, growth and yield of hybrid rice(*Oryza sativa* L.).

Result of the experiment discussed and concluded.

Action: Ph.D. Student

Dr. Naushad Khan presented one new experiment.

Exp. No 4: Weed management with broad spectrum herbicide in tranplanted rice (*Oryza sativa* L.).

Experiment discussed and approved.

Action: Naushad Khan

Dr. D. D. Yadav presented new experiment for PhD student shri G. K. Singh.

Exp. No 5: To Study the effect of vermicompost and phosphoruslevels with and without PSB on growth and productivity of *kharif* green gram (*Vigna radiata* L.).

Experiment discussed and after some suggestion regarding treatments approved.

Action: Ph.D. Student

Dr Ram Pyre, Dr A. K. Srivastava and Dr V. K. Verma did not present any experiment, Chairman show unhappiness over their performance.

Suggestions by the Chairman

- All scientists should be present during meeting that will help in learning of new innovative ideas. **(Action: All scientists)**
- Compliance of the decision regarding experiments should reach one month before next meeting. **(Action: All scientists)**
- The chairman advised the scientists to visit their experiments frequently for ensuring proper monitoring. **(Action: All scientists)**

Meeting ended with vote of thanks proposed by the convener of the meeting to the Director Research, Chairman, Heads of various disciplines and all committee members for actively participating in the fruitful discussion and suggestions during meeting.

(Sanjeev Kumar)
Head, Dept of Agronomy

No. AGR/EN- 137 /2020 Dated: 16-7-2020

Copy forwarded to the following for information and necessary action.

1. Director, AES
2. Dean, College of Agriculture
3. Director, Extension
4. Concerned scientists/Agronomists
5. Technical secretary to V.C. for kind information of Hon'able Vice-Chancellor

(Sanjeev Kumar)
Head, Dept of Agronomy

Proceeding of Research Advisory Committee meeting of Kharif, 2020 of the Department of Crop Physiology held on July 03,2020 at 11, AM in Committee room

Participants

1. Dr. H.G. Prakash, Director, AES.
2. Dr. A.K. Dubey, J.D.R.
3. Dr. Karam Husain, Professor & Head, Crop Physiology.
4. Dr. S.K. Gupta, E.B.L.
5. Dr. Mahak Singh, HOD, Genetics & Plant Breeding.
6. Dr. Y.P. Malik, Professor, Entomology.
7. Dr. Manoj Mishra, ADR
8. Dr. A.K. Mishra, Associate Professor, Deptt. of Crop Physiology.
9. Dr. M.Z. Siddique, Associate Professor, Deptt. of Agronomy.
10. Dr. Dr. Sarvesh Kumar, Associate Professor, Deptt. of Soil Conservation.
11. Dr. P.K. Gupta, Incharge, AICW & BIP, EBR.
12. Dr. C.B. Verma, Asstt. Prof., Deptt. of Crop Physiology.
13. Dr. S.P. Kushwaha Asstt. Prof., Deptt. of Crop Physiology.
14. Dr. M.A. Khan, Asstt. Prof., Deptt. of Crop Physiology.
15. Dr. A.K. Singh, Asstt. Prof., Deptt. of Crop Physiology.
16. Dr. O.P. Singh, Asstt. Prof., Deptt. of Crop Physiology.
17. Dr. D.K. Tripathi, Asstt. Prof., Deptt. of Asstt. Prof., Deptt. of Soil Scienc
18. Dr. A.K. Singh, Asstt. Prof., Deptt. of Entomology.
19. Dr. Jitendra Kumar, Asstt. Prof., Deptt. of EBR.
20. Dr. J.P. Singh, Asstt. Prof., Deptt. of Horticulture
21. Dr. Fazal Ahmad, Asstt. Prof., Deptt. of Entomology.
22. Dr. Arvindra Srivastava, Asstt. Prof., Deptt. of Legume.
23. Dr. Rakesh Babu, Asstt. Prof., Deptt. of Agri. Biochemistry.
24. Dr. U.S. Tewari, Asstt. Prof., Deptt. of Soil Science.
25. Dr. S.D.. Dubey, Asstt. Prof., Deptt. of Soil Science.
26. Sri Arun Srivastava, Crop Physiology.

At the outset the programme was started with the warm welcome of Dr. Karam Husain, Professor & Head, to Director Research, AES, all participating HOD's and scientist. Dr. Karam Husain, HOD presented significant achievement and priority areas of research of the department. Dr. H.G. Prakash, Director, AES, discussed on compliance report of last year's RAC, first and thereafter achievement of 2019 Kharif and technical programme for Kharif 2020. Individual scientist presented his report. All the points were discussed in the house thoroughly. After discussion following recommendation were emerged out.

1.1 Concluded

1.2 Approved. House suggested to correlate yield with Physiological Parameters and include concerned breeder as co-research worker.

2.1 Concluded with the remark to delete word metabolism in the title.

2.2 Approved with the remark that word metabolism is to be deleted from title.

2.3 Approved with the remark that the word micro- nutrient should be replaced with Bo, Zn and Mo in the title.

3.1 Experiment failed and repeated as such.

4.1 Approved.

4.2 Experiment failed and repeated as such.

At the end of meeting Dr. Karam Husain, expressed vote of thanks to all participants for attending the R.A.C. meeting.

Professor & Head
Deptt. of Crop Physiology

No. C.P. – 254 **Dated** 17 **July, 2020**

Copy to:

1. Director, AES.
2. Dean, College of Agriculture.
3. Technical Secretary to Hon'ble Vice-Chancellor for information to Hon'ble Vice-Chancellor.
4. All concern HOD.

17.7.2020

Professor & Head
Deptt. of Crop Physiology

Department of Entomology

Chandra Shekhar Azad University of Agriculture & Technology,
Kanpur- 208002

No. ENT- 111 /2020 Dated: 14.07.2020

Proceeding of Research Advisory Committee of Kharif-2020 held on 24.06.2020 in the Department of Entomology under the chairmanship of Director, AES:

The following faculty members were present in the meeting:

S.No	Name	Designation	Department
1	Dr. H.G. Prakash	Director, AES	Directorate of Research
2	Dr. D.R. Singh	Head	Entomology
3	Dr. Y.P. Malik	Professor	-do-
4	Dr. Kripa Shanker	Professor	-do-
5	Dr. Ram Singh	Asstt. Professor	-do-
6	Dr. A.K. Dwivedi	Asstt. Professor	Horticulture
7	Dr. R.K. Dwivedi	-do-	Entomology
8	Dr. D.K. Singh	-do-	Oil Seed Section
9	Dr. R.K. Pal	-do-	Vegetable
10	Dr. A.S. Srivastava	-do-	-do-
11	Dr. Fazal Ahmad	-do-	-do-
12	Dr. Mahak Singh	Head	Genetics Plant Breeding
13	Dr.A.K. Dubey	J.D.R.	Directorate of Research
14	Dr. Manoj Mishra	A.D.R.	Directorate of Research
15	Dr. R.B. Singh	Asstt. Professor	Animal Husbandry Dairy
16	Dr. J. Rai	-do-	Directorate of Research
17	Dr. Anjani Ku. Singh	-do-	Directorate of Research
18	Dr. S.P. Kushwaha	-do-	P.P.Y.
19	Dr. Shridha Saxena	-do-	Entomology
20	Dr. V.P. Bajpai	-do-	Seed Science & Technology
21	Dr. U.K. Tripathi	Professor & Head	Plant Pathology
22	Dr. Jitendra Kumar	Asstt. Professor	E.B.R.
23	Dr. Anil Kumar	-do-	Soil Agriculture Chemistry

In the begning Professor & Head, Dr. D.R. Singh welcome the Director, AES and all the faculty members, representative of different departments. He elaborated the challenges faced by the farmers in present environmental conditions and also discussed thrust area of entomological discipline. He also presented the significant achievements of previous Kharif year 2019. The proposed Research Programme were presented by concerned research scientists. The decisions were taken after through discussion are mentioned as below:

14.7.2020

Contd--2

Project No.1 : Major insect pest complex and their natural enemies on Moong crop in changing climatic condition of central U.P.
Presented by Dr. D.R. Singh & Approved as such

Project No.2 : Evaluation of Some phytopesticides against major insect pests of Bhindi especially shoot and fruit borer.

Presented by Dr. Y.P. Malik and Approved with change of Bhindi variety Prabhani kranti in leiu of Pusa Sawani.

Project No.3 : Screening of promising genotype/germplasm of brinjal against root not nematode *Meloidogyne incognita* Race-IV.
Presented by Dr. R.K. Dwivedi, Approved as such.

Project No.4 : Management of plant parasitic nematode in Okra by biofumigation.
Presented by Dr. A.S. Srivastava approved as such.

Project No.5 : Effect of pollination by the different Pollinators on the yield of sunflower.
Presented by Dr. Ram Singh, Approved as such

Project No.6 : Insecticidal trail against insect pests attacking on paddy crop.
Presented by Dr. Fazal Ahmad, approved as such.

Project No.7 : Maintenance of culture of various filed and domestic rat specis for laboratory study.
Presented by Dr. A.S. Srivastava, Approved as such.

Project No.8 : Exploitation of latest rodent control techniques under field condition.
Presented by Dr. A.S. Srivastava, Approved as such.

Project No.9 : Study of butterfly diversity in campus of CSAU&T., Kanpur after Lockdown during Kharif.
Presented by Dr. Shridha Saxena, approved with the remarks that the population of butterfly should be correlated with environmental factors before and after lockdown.

Project No.10-12 : Presented by Dr. R.K. Pal, Asstt. Entomologist (Vegetable), Approved as such.

Contd—3

After presentation of all research programme Dr. D.R. Singh, Professor & Head mentioned that most of the faculty members are engaged in teaching, and they are sincerely persuing research work and extension activities of the

University. They are also participating in extension activities at University, district, blocks and as well as village level.

After presentation of all the project by concerned scientist, Director, AES appreciated the preparation and interaction on the research project. Dr. H.G Prakash, Director, AES emphasized in the meeting that Plant Protection is more important for sustainability of agriculture in the context of climate change, identification of new emerging pests along with their extent of losses, and he suggested that all the scientists are required to submit small fund projects from different funding agencies. He also suggested that students of M.Sc. (Ag.) and Ph.D. can apply for advance training on different research aspect in National and International Institute and for this purpose the Budget will be provided from CAAST-NC Project running in the University.

The meeting ended with the vote of thanks by Dr. R.K. Dwivedi, Asstt. Professor of the Department of Entomology.

CS

14/7/22

Director
Agril. Experiment Station
C.S.A. Univ. of Agric. & Tech.
KANPUR

14.7.22

(D.R. Singh)
Professor & Head

Department of Genetics and Plant Breeding,
C.S.Azad University of Agriculture and Technology, Kanpur-208 002

No.: GPB-163 /2020 Dated: July 8, 2020

1. Dean, Faculty of Agriculture
2. Director, Agriculture Experiment Station.
3. Director, Extension
4. All the Heads/Incharges of Departments
5. All the Crop Concerned Breeders

Sir

Kindly find enclosed herewith the proceedings of Research Advisory Committee Meeting of *Kharif* 2020 held on June 25, 2020 for your information and further necessary action.

08/07/2020
(Mahak Singh)
Professor and Head
08/07/20

No.: GPB-163 /2020 of date

Copy to:

1. TS to VC for kind information of Hon'ble Vice Chancellor

08/07/2020
(Mahak Singh)
Professor and Head
08/07/20

Department of G[illegible] and Plant Breeding

Proceeding of Research Adv[illegible]mittee Meeting for *Kharif* 2020

held on June 25, 2020

At the outset Dr. Mahak Singh, HoD welcomed Chairman and all participating scientists and teachers. Meeting was chaired by Director Research, Chairman emphasized the importance of crop breeding research and he also appreciated Dr. Mahak Singh, Dr. Nalini Tiwari and Dr. Manoj Katiyar for the development of new varieties in crop concerned for different agro climatic conditions. Eight research prorammes of different field crops were discussed and following suggestions/recommendations were given by house:

Sl. No.	Crop	Presented by	Section/Project	Recommendations
1	Pigeonpea	Dr. A.K. Srivastava	Pieonpea Project	All research projects were approved. Concerned breeder informed the house that he has procured 1.5 Q Nucleus seed of Amar Variety.
2	Moong	Dr. Manoj	Legume Section	All experiment of crop were failed due to heavy rain and all projects approved earlier will be conducted.
3	Cotton	Dr. Jagdish Kumar	Cotton Project	All research projects were approved
4	Til	Dr. Mahak Singh	Oilseed Section	All research projects were approved
5	Sorghum, Forage and Maize	Dr. H.C. Singh	Sorghum and Forage Section	All research projects were approved. House suggested to mention results of last year experiments.
6	Groundnut	Dr. M.C. Verma	Groundnut Project	All research projects were approved. House suggest to present research programme systematically.
7	Urd	Dr. Geeta Rai	Legume Section	All research projects were approved.
8	Rice	Dr. P.K. Singh	Rice Project	All research projects were approved.

Vote of thanks was given by HoD, Deptt. of Genetics and Plant Breeding

Prepared by

(Lokendra Singh)
Assoc. Professor

(S.K. Singh)
Asstt. Professor

Approved

08/07/2020
(Mahak Singh)
Professor and Head

(H.G. Prakash)
Director Research

Proceeding of Research Advisory Committee Meeting of

Department of Plant Pathology for *Kharif* - 2020

No.: /PP/2020 Dated: .06.2020

Date: June 26, 2020

Presence:

1. Dr. H.G. Prakash, Director Research
2. Dr. U.K. Tripathi, Professor & Head, Plant Pathology
3. Dr. N. S. Sachan, Professor, Plant Pathology
4. Dr. Ved Ratan, Professor, Plant Pathology
5. Dr. S. K. Biswas, Professor, Plant Pathology
6. Dr. J. B. Khan, Assist. Professor, Plant Pathology
7. Dr. M.R. Dabbas, Assistant Professor, Plant Pathology
8. Dr. A.L. Jatav, Professor, Seed Technology
9. Dr. A .K. Dwivedi, Assistant Professor, Dept. of Horticulture
10. Dr. R. K. Singh, Assistant Professor, Agril. Eco. & Stats
11. Dr. Anjani Kumar Singh, Assistant Professor, Agril. Eco. & Stats
12. Dr. Ram Singh Umrao, Assistant Professor, Entomology
13. Dr. V. K. Verma, Assist. Professor, Dept. of Agronomy
14. Dr. C. B. Verma, Assist. Professor, Dept. of Crop Physiology
15. Dr. Mahak Singh, Professor & Head, Dept. of Genetics & Plant Breeding
16. Dr. R. B. Singh, Assist. Professor, Animal Husbandry
17. Dr. Y. P. Malik, Prof. Entomology
18. Dr. U. D. Awasthi, Assist. Professor, Dept. of Soil Conservation & water management.
19. Dr. Manoj, Mishra, ADR, Directorate of Research.
20. Dr, Lallu Singh, Professor & Head, Agri. Biochemistry

The meeting was started with the warm welcome of the chair person Dr. H.G. Prakash, members of different departments and the faculty members of Plant Pathology by Head, Plant Pathology.

Head, Plant Pathology briefly highlighted the significant achievements of the department of last year. He also informed to the house that total 06 research proposals have been submitted by the faculty members to discuss in the meeting.

Each of these Projects was discussed thoroughly and decision/ suggestions were noted and are given below:

A. Projects from Department of Plant Pathology

1. Project no 1: Screening of cotton varieties/ cultures against major diseases- Approved.
2. Project no 2: Effect of Trichoderma based agro residues on root rot of moong /urd bean caused by *Rhizoctonia bataticola (PS macrophomina pahsilona*).
3. Project no 3: Management of seed-borne infection of anthracnose disease caused by *Collètotrichun truncatum* of black gram - Approved.
4. Project no 4: Management of seed-borne infection of root rot disease of green gram (*Rhizoctonia* sp.) by seed treatment with newly chemical and biofungicide - Approved
5. Project no 5: Efficacy of calcium chloride as inducer in induced resistance in tomato against *fusarium* wilt -Experiment was concluded. One new experiments for development of suitable modules for the management of wilt of tomato under climate change.
6. Project no 6: Evolution of new molecules and its combination for insect pests and diseases complex of onion crop.

The meeting was ended with vote of thanks by Dr. S. K. Biswas, Professor, Plant Pathology

(U. K. Tripathi)
Head, Plant Pathology

(H.G. Prakash)
Director, AES

Head
Deptt. of Plant Pathology
C S U & Tech. Kanpur

Proceedings of RAC meeting held on 25-06-2020 for *Kharif* 2020-21
Department of Soil Conservation and Water Management

A meeting was held on 25-06-2020 to finalize the research programme of *Kharif* 2020-21. Following scientists / teachers were present:

S.No.	Name	Designation
1.	Dr. A.K.Duvey	Joint Director Research
2	Dr. Manoj Mishra	Asstt. Director Research
3.	Dr. Munish Kumar	Professor & Head SCWM
4.	Dr. R.P.Singh	Professor , SCWM
5.	Dr. Kaushal Kumar	Assoc. Professor, SCWM
6.	Dr. Sarvesh Kumar	Assoc. Professor, SCWM
7.	Dr. U.D. Awasthi	Assistant Professor, SCWM
8.	Dr. A.K. Katiyar	Assistant Professor, SCWM
9.	Dr. O.P. Singh	Asstt. Professor, Crop Physiology
10.	Dr. Anjani Kumar Singh	Assistant Professor, Agril. Econ. & Statistics
11.	Dr. Rakesh Kumar Singh	Assistant Professor, Agril. Econ. & Statistics
12.	Dr. S.B. Pandey	Asstt. Chemist (Pesticide) Deptt. of Soil & Agril.Chemistry

After warm welcome by Dr. Munish Kumar, Head of Department to all participants in the meeting, as well as the achievements and compliance report was also presented by Dr. Munish Kumar for various research programme. The following projects were presented one by one by the relevant Scientist/Teachers given as under:

Project No. 1: Intercropping of sorghum (Sorghum bicolour L.) and cowpea (*Vigna unguiculata*) different level of fertilizers in Central Plains Zone of UP

A new experiment proposed by Dr. Munish Kumar for M.Sc. (Ag.) student. After discussion in detail committee suggest that treatment of phosphorus dose applied uniformly in all the treatment @20 kg/ha.

Project No. 2: Productivity and water use efficiency of Sesame (*Sesamum indicum* L.) based intercropping under rainfed ecosystem

A new experiment was presented by Dr. U.D. Awasthi for M.Sc.(Ag.) student and after discussion committee allowed to conduct experiment with suggestion that change treatment of intercropping ratio as;

(iv) Sesame: green gram (2:1) (v) Sesame: black gram (2:1)
(vi) Sesame: green gram (4:1) (vii) Sesame: black gram (4:1)

Project No. 3: Effect of intercropping system and summer ploughing on production of pigeonpea and sorghum in Central plain zone of UP

A new experiment proposed by Dr. Sarvesh Kumar for M.Sc.(Ag.) student and approved by the committee with suggestions that farmers practice from treatment II of Tillage Practices may be deleted and revised title of project as "Impact of summer ploughing in different intercropping of pigeonpea and sorghum in Central Plain Zone of UP"

Project No. 4: Studies on nutrient management and moisture conservation practices under light textured soil

Last year Ph.D. trial presented by Dr. Sarvesh Kumar and after discussion allowed to continue as such.

Project No. 5: Effect of moisture conservation practices on growth, yield and economics of sorghum varieties under rainfed condition

Last year M.Sc.(Ag.) trial presented by Dr. A.K. Katiyar and allowed to continue as such for M.Sc.(Ag.) students in present *Kharif* 2020-21

Project No. 6: Effect of moisture conservation practices and fertilizers on productivity of Bajra under rainfed condition

A new experiment proposed by Dr. A.K.Katiyar for M.Sc.(Ag.) student and approved by the committee with suggestions that ridging practice from III treatment of Moisture Conservation Practices may be deleted.

Project No. 7: Performance of maize based intercropping system under different NM and protocol in Central Plain Zone of Uttar Pradesh

Last year M.Sc.(Ag.) trial presented by Dr. Kaushal Kumar and allowed to continue as such for M.Sc.(Ag.) students in present *Kharif* 2020-21 with suggestion that change in Experimental design as –Split Plot Design.

Project No. 8: Effect of rain water conservation practices and mulching on yield of Maize (*Zea mays* L.) under climate change condition

Last year Ph.D. trial presented by Dr. R.P.Singh and after discussion experiment concluded and data should be presented in next meeting.

Project No. 9: Effect of planting pattern and moisture conservation practices on performance of peal millet (*Pennisetum glaucum)* under rainfed ecosystem

Last year M.Sc.(Ag.) trial presented by Dr. R.P. Singh and after discussion experiment concluded and data should be presented in next meeting.

The meeting was ended with vote of thanks by Dr. Sarvesh Kumar, Associate Professor.

(**Munish Kumar**)
Professor & Head

No. 124 /SCWM/2020-21 Dated: July.. 00 ,2020

Copy forwarded for information & necessary action to:

1. Dean, Faculty of Agriculture, CSAU, Kanpur
2. Director, Agricultural Experiment Station, CSAU, Kanpur
3. Professor & Heads(s)/In -charge (s) of the Dept.- Soil Sci. & Agril. Chemistry, Agronomy, Plant Pathology, Entomology, Crop Physiology and Agril. Economics & Statistics
4. All Teachers/Scientists of the Department
5. T.S. to V.C. for kind information of Hon'ble Vice-Chancellor.

(**Munish Kumar**)
Professor & Head

खरीफ - 2020

Proceedings of RAC Meeting of Kharif 2020 held on 27.06.2020
Deptt. of Soil Science & Agricultural Chemistry

The Kharif 2020 Research Advisory Committee Meeting of the Deptt. of Soil Science and Agricultural Chemistry was held in the Chamber of Head of Department. The following faculty members of various deptt. were present.

1.	Dr. Manoj Mishra	ADR	Directorate of Research
2.	Dr. Ravindra Kumar	HOD	Soil Science
3.	Dr. R.C. Nigam	Professor	Soil Science
4.	Dr. R.A. Yadav	Prof.	Agronomy
5.	Dr. S.D. Dubey	Asstt Prof.	Soil Science
6.	Dr. J.P. Singh	Asstt. Prof.	Horticulture
7.	Dr. Devendra Singh	Asstt. Prof.	Soil Science
8.	Sri K.N. Singh	Asstt. Prof.	SAC
9.	Dr. Sushil Dimree	Asstt. Prof.	SAC
10.	Dr. R.K. Pathak	Asstt. Prof.	SAC
11.	Dr. S. P. Kushwaha	Asstt. Prof.	Crop Physiology
12.	Dr. Parwez Alam	Asstt. Prof.	Seed Scie. & Tech.
13.	Dr. R.B. Singh	Asstt. Prof.	A.H.D.
14.	Dr. Rakesh Babu Gautam	Asstt. Prof.	Agri. Biochemistry
15.	Dr. Rakesh Kumar Singh	Asstt. Prof.	AES
16.	Dr. Birendra Kumar	Asstt. Prof.	AES
17.	Dr. S.B. Pandey	Asstt. Prof.	SAC
18.	Dr. Kaushal Kumar	Assoc. Prof.	Soil Conservation
19.	Dr. Sanjive Kumar Singh	Asstt. Prof.	Vegetable Science
20.	Dr. Uma Shankar Tiwari	Asstt. Prof.	SAC
21.	Dr. R.K. Pandey	Asstt. Pesticide Residue	SAC

At the outset, Dr. Ravindra Kumar Head of Deptt. of Soil Sci. & Agri. Chemistry welcomed the faculty members present in the meeting specially welcomed to Dr. Manoj Mishra representative of Director Research present in the meeting. HOD Soil Science emphasized to maintain soil health, so that quality food grains will be harvested. The salient research achievement of last Kharif ie. 2019 of the deptt. were presented by Dr. R.K. Pandey Residue Analyst very systematically and logically Dr. Ravindra Kumar also focused to use bio nano P,K and Zinc in rice-wheat cropping sequence. A suggestion was made by HOD to develop revolving fund from the receipt of testing fees of non plan scheme i.e. fertilizer pesticide testing, soil testing and also receipt of biofertilizer packet sale. House suggested that Fertilizer Research Farm Pura run under the control of HOD soil science. Director Seed and Farms cordially agree to provide all the facility to the scientist on priority basis for experiment.

The Kharif research programme presented by the following scientist and house interacted and suggested when and where needed.

Quality testing of pesticides, fertilizers, manures and allied products:

Project No.1: Quality testing of pesticide.

Project No.2 : Quality testing of fertilizer, manures and allied products.,

Project No.3: Evaluation of polysulphate on yield, yield attributes and quality of ground nut/seasame in alluvial soil of Central U.P.

The above three programme presented by Dr. S.B. Pandey and after some quarry all above projects approved by the house.

Soil Testing Scheme

Project No.1- Soil fertility evaluation for balanced fertilization on cultivator fields and projects.

Project No.2- Evaluation of soil fertility status of university farms in respect of macro, micronutrients.

Project No.3 Effect of integrated nutrient management based on STR of NPK on productivity, profitability and soil health in rice-wheat cropping system.

All above three projects presented by Dr. U.S. Tiwari. After interactions and discussion projects were approved for execution

Soil Survey:

Project No.1 Effect of primary, secondary and micronutrients on Urd-mustard cropping sequence. Dr. U.S. Tiwari presented programme and discussed by the house.

Project No. 2 Screening of rice and wheat genotypes /verities in sodic soil .Dr. Devendra Singh presented programme and discussed by the house. Both project approved for its implementation.

Soil Fertility.

Project No.1 Long term fertility experiment on paddy-wheat cropping sequence.

Project No.2 Long term fertility experiment on paddy-wheat cropping sequence.

Project started in 1954-55 with the objectives to continuous use of organic and inorganic fertilizers on grain yield of rice-wheat and change in soil properties, while project 2 with same title but different objectives in long term use of chemical fertilizer on yield and soil properties.

Both projects were presented by Dr. U.S. Tiwari and approved as such.

Soil Microbiology:

Project No.1 Isolation and maintenance of Rhizobium culture.

Project No.2 Isolation and maintenance of Azotobacter culture

Project No.3 Maintenance and production of PSB culture.

Dr. S.D. Dubey presented the objectives and importance of above three projects . The house discussed thoroughly and approved as such.

AINP on Pesticide Residues (ICAR)

Project No.1 Study the persistence of cyhalothrin-L on brinjal . Project presented for discussion by Dr. R.K. Pandey and approved by the house.

Professor IFFCO Chair:

Project No.1 Study on application of bio nano –phosphorus (P) Potassium (K) and Zinc (Zn) in rice-wheat cropping system.

Project No.2 Study on application of organic nano zinc (Zn) in rice-wheat cropping system.

The above both programmes are very important in current situation. The programme presented by Dr. Devendra Singh and approved after through discussion by the house.

AICRP on Micro and Secondary nutrients and pollutant elements in soil and plants

Project No.1 Delineation and reassessment of micro and secondary nutrients deficient areas and updating soil fertility maps.

Project No.2 Refinement of critical values of micro and secondary nutrients in soils and standardization of soil test methods for refinement of critical limits.

Project No.3 Assessing influence of P buildup on the availability of micronutrients in soils and its nutrition.

Project No.4 Monitoring of heavy metal toxicity in relation to soil plant human/animal continuum .

Project No.5 Effect of phasing of zinc application on fate of Zn pools in different soils.

Dr. Anil Kumar presented above five projects and after discussion approved by future execution.

The meeting was ended with vote of thanks proposed by Dr. Anil Kumar to all faculty members and staff of the department involved in the RAC Meeting.

(Ravindra Kumar)
Head of Deptt.

No. 377 /2020 Dated: 26.09.2020

Copy forwarded to following for information and necessary action:

5. Dean, College of Agriculture.
6. Director, Agriculture Experiment Station.
7. All Professor & Head of the department.
8. Concerned Scientist of the department.

(Ravindra Kumar)
Head of Department

Proceeding of the Research Advisory Committee meeting (Kharif) of Vegetable Section, Kalyanpur held on 30th June, 2020 under the chairmanship of Dr. P.K. Singh, Professor, GPB

At the outset Dr. R.B. Singh, Associate Professor of Vegetable Section welcomed to the Chairman, Joint Director Research, Assistant Director Research and Heads of other discipline and members of the committee. Dr. Singh also presented Action Taken Report of last year's research programme. The research programmes of different vegetable crops for Kharif season were presented by the respective crop scientists. The decision taken by RAC are being reflected here as under-

- ✓ Project No. 3 & 4: Chairman pointed out to change selction no. KS-224 and KS-331 as Azad B-2 and Azad B-3 and measurement of round brinjal required in project no. 3 and also insure availability of skilled labour.

(Action : Dr. P.K. Tiwari)

- ✓ JDR suggested to collect more number of brinjal germplasm from NBPGR with in one month.

(Action : Dr. P.K. Tiwari)

- ✓ Project No. 6: Dr. S.K. Gupta, EBL suggested for observations on yield contributing characters and JDR suggested that demonstration may be conducted through KVK.

(Action : Sri Niranjan Singh/ Dr. R.B. Singh)

- ✓ Project No. 10: chairman suggested to add one more check of national variety of chilli.

(Action : Dr. S.K. Singh)

- ✓ Project No. 11: JDR directed that Dr. R.K. Pal should be as a collaborator to collect fruit fly data.

(Action : Dr. I.N. Shukla/ Dr. R.K. Pal)

- ✓ Project No. 13: Chairman suggested to multiply ash gourd seed as per demand and instructions given by Hon'ble Vice Chancellor sir. Proposal for notification of KAG-1 should review again and send them for notification with in a month.

(Action : Dr. I.N. Shukla)

- ✓ Project No. 18: JDR suggested that technical programme of the experiment need to be present in Dept. of Agronomy after consultation with HOD (Agronomy).

(Action : Dr. R. B. Singh)

Remaining projects of all other crops were discussed and approved with desired modifications. The meeting was ended with vote of thanks, given by the Dr. M.R. Dabbas, Plant Pathologist.

01/07/20

(D.P. Singh)
Officer Incharge
Vegetable Section,
Kalyanpur

Approved

01/7/20

(H.G. Prakash)
Director Research

Director
Agricultural Experiment Station
C.S. Azad Univ. of Agri & Tech.
Kanpur

(239)

Directorate of Research

C. S. Azad University of Agriculture & Technology, Kanpur-208002

NO. 97 /DR/ 2021

Dated: 07, June, 2021

Circular

Departmental Research Advisory Committee and Zonal Research Extension Advisory Committee meetings will be held as per schedule given below to discuss and finalize research programmes for ***Kharif*-2021**. The schedule of dates should be adhered to.

S.N	Faculty/Discipline	Date & Time
A.	**Faculty of Agriculture**	
1.	Agronomy	16.06.2021 at 10:30 AM
2.	Agril. Biochemistry	17.06. 2021 at 10:30 AM
3.	Plant Pathology	18.06. 2021 at 10:30 AM
4.	Genetics and Plant Breeding	21.06. 2021 at 10:30 AM
5.	Crop Physiology	22.06. 2021 at 10:30 AM
6.	Entomology	23.06. 2021 at 10:30 AM
7.	Soil Conservation & Water management and Forestry	24.06. 2021 at 10:30 AM
8.	Seed Science & Technology	25.06. 2021 at 10:30 AM
9.	Soil Science and Agril. Chemistry	28.06. 2021 at 10:30 AM
10.	Animal Husbandry and Dairying	29.06. 2021 at 03:00 PM
11.	Agril. Economics & Statistics	30.06. 2021 at 10:30 AM
12.	Agriculture Extension	01.07.2021at 03:00 PM
B.	**Faculty of Horticulture**	
13.	Vegetable Science	02.07. 2021 at 10:30 AM
14.	Horticulture	05.07. 2021 at 03:00 PM
C.	**Faculty of Home Science**	
1.	Food Science & Nutrition	06.07. 2021at 11:30 AM
2.	Family Resource Management	
3.	Extension Communication & Management	
4.	Human Development	
5.	Textile & Clothing	
D.	**Faculty of Agril. Engineering & Technology**	07.07. 2021 at 11:30 AM
E.	**ZREAC South Western Semi Arid Zone Kalai Aligarh**	08.07. 2021 at 11:30 AM
	ZREAC Central Plain Zone, Dileepnagar	09.07. 2021at 11:30 AM

(H.G. Prakash)
Director Research

Copy forwarded to following for information and necessary action.

1. HoD(s)/Incharges of all Departments with request to please inform all the scientists working on subject concern along with scientists of the KVKs.
2. Incharges Rabi Cereal, Oilseed, Legume and Vegetable Sections
3. Officer Incharge of all NARP Research Stations
4. Unit Incharge Sorghume, Cotton, Tobacco and Paddy
5. Director Seed & Farms
6. Director Extension with request to please inform to HoD of all KVKs of the Zone to ensure their participation in ZREAC meetings.
7. Dean, Faculty of Agriculture
8. Dean, Faculty of Home Science
9. Dean, Faculty of Agril. Engineering & Technology Etawah
10. T S to V C for kind information of Hon'ble Vice Chancellor.
11. Gaurd file Directorate of Research

7/6/2021

(H.G. Prakash)
Director Research

Proceeding of ResearchAdvisory Committee meeting for Kharif, 2021 of the Department of Crop Physiology held on July.14, 2021at 11:00 AM in committee room.

Participants:

1. Dr. H.G. Prakash, Director, AES.
2. Dr. D. R. Singh, Dean, College of Agriculture
3. Dr. Karam Husain, Head, Deptt. of Crop Physiology
4. Dr. S.K. Biswash, JDR
5. Dr. A.L. Jatav, HOD, Department of Seed Science &Technology
6. Dr. U.K. Tripathi, HOD, Deptt of Plant Pathology
7. Dr. V.K. Tripathi, HOD, Deptt of Horticulture
8. Dr. Manoj Mishra, ADR
9. Dr. Mohd. Samim, ADR
10. Dr. Mohd. Zafar Siddiqui, Professor, Agronomy
11. Dr. Uma Shankar Tripathi, Asstt. Professor, Deptt. of Soil Science
12. Dr. S.D. Dubey, Asstt, Professor, Deptt. of Soil Science
13. Dr. Geeta Rai, Asstt. Professor, Legume Section
14. Dr. Nand Kishor, Asstt.. Professor, Agril. Biochemistry
15. Dr. Anjani Kumar Singh, Asstt. Professor, Agril. Economics
16. Mr. Sohan Lal Verma, Directorate of Extension
17. Dr. S.P.Kushwaha, Asstt. Professor, Deptt. of Crop Physiology
18. Dr.M. A. Khan, Asstt. Professor, Deptt. of Crop Physiology
19. Dr.A.K.Singh, Asstt. Professor, Deptt. of Crop Physiology
20. Dr. D.K.Tripathi, Asstt.Professor, Deptt. of Crop Physiology.
21. Dr. O.P.Singh, Asstt, Professor, Deptt. of Crop Physiology
22. Sri Arun Srivastava, Deptt. of Crop Physiology

At the outset the programme was started with the warm welcome of Dr. Karam Husain,HOD to Director, AES, Dean, College of Agriculture, all participant HOD and scientist. Dr. Karam Husain, HOD briefly highlighted the significant research achievement of the department. Dr. H.G. Prakash, Director AES discussed on compliance report of last year RAC first and thereafter achievement of Kharif,2020 and technical programme for Kharif,2021. Individual scientist presented his report. All points were discussed in the house thoroughly after discussion following recommendation were emerged out.

Experiment No. 1.1 Entitled " To study the important morpho-physiological traits to improve the Seed yield in Black gram (***Vigna mungo***) genotypes was presented by Dr.O.P.Singh and it was approved with committee remark that the word seed yield should be replaced with grain yield and experiment repeated due to poor yield.

Experiment No 2.1 Entitled "To study the effect of micronutrients on growth and yield of Mungbean variety under unirrigated condition was presented by Dr. Anil Kumar Singh and it was concluded with committee remark supporting references should be seen.

Results:-Among the treatment Maximum seed yield of mungbean was found to be application of $ZnSO_4$ @ 0.5% statistically higher at 45 DAS in both the years 2019 and 2020 respectively followed by application of Boron @ 0.2%. Two years results showed maximum seed yield of mungbean application of $ZnSO_4$ @0.5% and Boron @ 0.2% over control. Hence level of ZnSO4 @ 0.5% at 45 DAS enhancing the seed yield of mungbean over control.

Experiment No 2.2 Entitled "To study the effect of micronutrients applied as foliar Spray on Morpho-physiological-growth and yield of Sesame was presented by Dr. Anil Kumar Singh and it was approved

with the remark of Dean, Agriculture suggested that size of microplot and Row to row & plant to plant spacing should be mentioned.

Experiment No 3.1 Entitled "Growth and yield of Urdbean as influenced by foliar application of salicylic acid under rainfed condition" was presented by Dr. M.A. Khan, it was concluded.

Results:-Based on three years of experiment ,foliar application of three doses of salicylic acid i.e. 50ppm, 100ppm, 150ppm spray on standing crop at 20DAS, 40DAS and 60DAS, Among the treatment foliar spray of salicylic acid 150ppm at 60DASwere observed, maximum yield per plant over the control in Urd bean variety Azad-3.

Experiment No 3.2 Entitled "Effect of seed priming with salicylic acid on growth, yield and physiological parameters on Maize under rainfed condition." was presented by Dr. M.A. Khan it was approved by advisory committee with the suggestion that the concentration of salicylic acid to be tested should be 25pm,50ppm, 75ppm,100ppm,150ppm,175ppm and 200ppm for seed soaking.

Experiment No 4.1 Entitled "Response of growth regulators on physiological efficiency and Productivity of rice (***Oryza sativa L.***)." was presented by Dr. S.P. Kushwaha, it was concluded.

Results:-Based on two year of field experimentation, showed that foliar application growth regulators significantly increase number of panicle, grain yield per plant, test weight and grain yield kg/ha. Among the treatment TIBA-50ppm gave maximum seed yield (4286.98kg/ha) over the control (3757.05) in rice Pusa Basmati-1121

Experiment No 4.2 Entitled "Influence of different plant growth regulators on growth and yield of rice (Oryza sativa L.)." was presented by Dr. S.P. Kushwaha it was approved with remark that variety should be mentioned and include the name of Dr. Karam Husain,Dr. Nand Kumar and Dr. Samim as Co-research worker.

Experiment No 4.3 Entitled "Effect of foliar application of growth regulators on growth and grain yield of Mungbean" was presented by Dr. D.K. Tripathi and it was approved.

At the end of meeting Dr. Karam Husain, expressed vote of thanks to all participants for attending the R.A.C. meeting.

(Karam Husain)
HOD

(H.G. Prakash)
Director, AES

No. C.P.- 319 /2021 Dated: 5.8.2021

C. C.to:-

1. Director Research.
2. Dean, College of Agriculture
3. Technical Secretary to Hon'ble Vice-Chancellor for information to Hon'ble Vice-Chancellor.
4. All Concerned HOD/ Officer In Charge.

(Karam Husain)
HOD

Department of Genetics and Plant Breeding,
C.S.Azad University of Agriculture and Technology, Kanpur-208 002

No.: GPB- 179 /2021 Dated: July 5, 2021

1. **Dean, Faculty of Agriculture**
2. **Director, Agriculture Experiment Station.**
3. **Director, Extension**
4. **All the Heads/Incharges of Departments**
5. **All the Concerned Breeders**

Sir,

Kindly find enclosed herewith the proceeding of Research Advisory Committee Meeting of *Kharif* 2021 held on June 21 2021 for your information and further necessary action.

05/07/2021

(Mahak Singh)
Professor and Head
5-7-2021

No.: GPB- 179 /2021 dated as above.

Copy to:

1. TS to VC for kind information of Hon'ble Vice Chancellor

05/07/2021

(Mahak Singh)
Professor and Head
5-7-2020

Proceeding of Research Advisor[illegible]ee (RAC) Meeting of the Department of Genetics and Plant Breeding, C.S[illegible]niversity of Agriculture and Technology, Kanpur for *Kharif* 2021 was held [illegible]21, 2021.

The meeting was chaired by **Dr. H.G. Prakash,** Director Research. At the outset **Dr. Mahak Singh,** HoD welcomed all participating faculty members. He praised the crop breeders for their good research. Following seven research programmes were presented by the concerned crop breeders:-

Sl. No.	Crop	Presented by	Expt. /Project	Approved/Not Approved	Recommendation
1.	Rice	Dr. P.K. Singh	Expt. No. 1-5	Approved	-
2.	Urd bean	Dr. Geeta Rai	Expt. No. 1-4 Expt. No. 1 (AICRP)	Approved Approved	Mention names of collaborative scientist
3.	Pigeonpea	Dr. A.K. Srivastava	Project No. 1-2	Approved	Data should be presented in round figure
4.	Mungbean	Dr. Manoj Katiyar	Expt. No. 1-5	Approved	-
5.	Groundnut	Dr. M.C. Verma	Expt. No. 1-12	-	It is suggested by the house to re-submit revised research programme
6.	Sesame (Til)	Prof. Mahak Singh	Expt. No. 1-7	Approved	-
7.	Cotton	Dr. Achila Singh	Expt. 1-6	Approved	-
8.	Jowar, Forage and Maize	Dr. H.C. Sinh	Jowar Expt. No. 1-5 Maize Expt. No. 1	Approved Approved	

Following general suggestions were also given by the house –

1. A committee should be constituted by the university for the monitoring of all the experiments of the deptt. going on the different research farm of the university.
2. The action taken report of last RAC meeting should be presented by the concerned crop breeders before presentation of the research programme
3. It is suggested by Joint Director Research that a team should be constituted including Plant Pathologist/Entomologist for recording of diseases/insect data in field.

In the last vote of thanks was given by HoD.

Prepared by

(S.K. Singh)

(R.P. Vyas)

Approved by

(Mahak Singh)
Professor & Head
Deptt. of Genetics & Plant Breeding
C.S.A.U., Kanpur

(H.G. Prakash)
Director
Agricultural Experiment Station
C.S. Azad Univ. of Agri & Tech.
Kanpur

021 K A C Meeting 2025

Name	Designation	Deptt	Signature
H.G. Prakash	Director Research		
Prof. S.R. Biswas	JDR		
Dr. Md. Shamim	Asstt. Director		
Dr. Mahak Singh	HOD, GPB	Genetics & Plant Breeding	21/6/21
Dr. P.K. Singh	Prof	GPB	
Dr. R.K. Yadav	Prof.	GPB	21.06.2021
7 Dr VK Tripathi	Prof. & Head	Hort	
8 Dr S.K. Singh	Asstt Prof	GPB	
9. Mr. R.V. Singh	Asstt Prof.	Oilseed sect. Agro.	
10 Dr R P Vyas	Asstt. Prof.	GPB	
11. Dr. Lokendra Singh	Assoc. Prof.	GPB	
12 Dr. Arvind Srivastava	Asstt Prof	Legume Section	
13 Dr. Achila Singh	Asstt. Prof	Cotton Section	
14. Dr. Shweta	Asst. Prof.	GPB	
15 Dr Manoj Katiyar	Asstt. Prof	Legume Section	
16 Dr D.K. Singh	Asst Entomology	Oilseed Section	
17 Dr Rakesh Babu	ASH Prof	Agricultural Biochemistry	
18. Dr. Geeta Rai	Asstt. Prof Legume Section	Legume Section	
19 Dr. G.S Parihar	Prof. Paddy Project Nav Prem	G.P.B.	
20 DR. NALINI TEWAR	Asstt. Prof	Oilseed Section	
21. Dr. Nand Kumar	Asstt. Prof.	Agril. Biochemistry	
22. Dr CB Singh Gaynor	S.R.O.	Seed Technology	
23. Dr. P.N. Nigam	Asstt Bot./ASPO (Br)	AICRP BSP-NSP	
24 Dr. Mahesh Verma	Breeder (Groundnut)	AICRP-Groundnut Mainpuri	
25 Dr. Harish Chandra Singh	Sorghum breeder	Jowar & Forage.	
26 Dr Narendra Kumar	JR Breeder	AICRP (Cotton)	
27 Dr Y P Malik	HOD, L	Entomology	
28 Dr Karam Husain	HOD CP/Agro	Crop Physiology	

21/06/2021

Professor & Head
Deptt. of Genetics & Plant Breeding
C.S.A.U., Kanpur

Proceeding of R.A.C. meeting, Department of Fruit Science, College of Horticulture, C.S. Azad University of Agriculture & Technology, Kanpur

Date : 05.07.2021

Venue: Committee room, Department of Fruit Science, College of Horticulture

Time: 3.00 P.M.

Members Present:

1. Dr. H.G.Prakash, Director Research
2. Dr. D.R.Singh, Dean, College of Agriculture
3. Dr. S.K.Biswas, Joint Director research
4. Dr. U.K.Tripathi, Professor & Head, Dept. of Plant Pathology
5. Dr. Mahak Singh, Professor & Head, Dept. of Genetics & Plant Breeding
6. Dr. P.K.Upadhyay, Professor & Head, Dept. of Animal Husbandry and Dairying
7. Dr. V.K.Tripathi, Professor & Head, Dept. of Fruit Science &Horticulture.
8. Dr. A.K.Dubey, Professor Dept. of Horticulture
9. Dr. M.Z.Siddiqi , Professor, Dept. of Agronomy
10. Dr. R.K.S. Gautam, Assistant Professor, Dept. of Horticulture
11. Dr. A.K.Dwivedi, Assistant. Professor, Dept. of Horticulture
12. Dr. Rakesh Kumar Singh, Assistant Professor, Dept. of Agril. Economics & Statistics
13. Dr. Manoj Mishra, Assistant Director Research
14. Dr. A.K.Singh, Assistant Professor, Dept. of Agriculture Extension
15. Dr. Vishram Singh, Assistant Professor, Dept. of Agronomy
16. Dr. I.N.Shukla, Assistant Professor, Dept. of Vegetable Science
17. Dr. M.A.Khan, Assistant Professor, Dept. of Crop Physiology
18. Dr. S.B.Pandey, Assistant Professor , Dept. of Soil Science & Agril. Chemistry
19. Dr. Nand Kumar, Assistant Professor, Dept. of Biochemistry

With due permission of Dr. H. G. Prakash, Director Research, the meeting commenced with the welcome address proposed by Dr. V. K. Tripathi, Professor & Head, Department of Fruit Science & Horticulture. The meeting was Chaired by Dr. H. G. Prakash, Director Research. Dr. V. K. Tripathi, Professor and Head presented the salient achievements of department in the house. He informed to the house that in the department no research person is posted for doing only research work. All the teachers of the department help and support the M.Sc. and Ph.D. students in carrying out their research work. In the department 10 M.Sc. and 4-6 Ph.D. students got admission every year.

In the meeting over all there were six (6) research programmes were presented and discussed and the following decisions were taken-

1. Experiment No.1 entitled "Influence of bio-enhancers and bio-fertilizers on growth, yield and quality of Mango (*Mangifera indica* L.) cv. Amrapali" was presented by Dr. V. K. Tripathi and Mr. Ankit Singh Bhadauria, Director Research suggested to study self-life of fruits also.
2. Experiment No.2 entitled "Effect of growth regulator and micronutrient on growth, flowering, yield and quality of Litchi (*Litchi chinensis* Sonn.) cv. Dehradun" was presented by Dr. A. K. Dwivedi and it was approved as such.

3. Experiment No.3 entitled "Effect of pre harvest spray of GA_3, NAA and $ZnSO_4$ on fruit drop, yield and quality of mango cv. Dashehari" was presented by Dr. V. K. Tripathi and it was also approved as such by the house.
4. Experiment No.4 entitled "Effect of foliar application of plant growth regulator and micro nutrients on fruit retention, yield and quality of Mango (*Mangifera indica*) cv Amrapali" was presented by Dr. R. K. S. Gautam and it was approved as such.
5. Experiment No.5 entitled "Influence of Boron and NAA on fruiting, yield and quality attributes of Litchi (*Litchi chinensis* sonn.) cv. Rose Scented" was presented by Dr. R. K. S. Gautam and it was approved as such.
6. Experiment No.6 entitled "Promotes fruit quality and yield through pruning and bagging in Mrig bahar Guava cv. L-49" was presented by Dr. A. K. Dwivedi and suggestion given by Dean, Agriculture for confirming the use of methodology for canopy height, canopy spread and canopy volume measurement.
7. Dr. D. R. Singh, Dean, Agriculture suggested that Trichoderma should also be used/kept as a treatment in study to assess the "Effect of Trichoderma in different fruit crops".
8. Dr. H. G. Prakash, Director Research suggested to study of package & practices of 'Dragon fruit' by establishing a new block of dragon fruit in the department. He also said that fund is available for this. He further said that some fund is also available for M.Sc./Ph.D. student's thesis on nutritional crops.

Director Research, Dr. H. G. Prakash suggested that the list of students who were selected in ARS and other Agricultural services should also be submitted to the Director Research office with records.

The meeting was ended with the vote of thanks delivered by Dr. A. K. Dwivedi, Assistant Professor, Department of Horticulture.

13/7/2021

(V. K. Tripathi)
Professor & Head

13/7/2021

(H. G. Prakash)
Director AES

Director
Agricultural Experiment Station
C.S. Azad Univ. of Agri & Tech.
Kanpur

No. 41 **/FSC/2021** **Dated. July** 13, 2021

Copy to:

1. Dean, College of Agriculture/Horticulture.
2. Director Research.
3. All members of R.A.C.
4. Technical Secretary to Vice-Chancellor for kind information to Hon'ble Vice-Chancellor.

13/7/21

(V. K. Tripathi)
Professor & Head

Proceeding of Research Advisory Committee Meeting o

Department of Plant Pathology for *Kharif* - 2021

No.: 57 /PP/2021-22 Dated: 28 .06.2021

Presence:

1. Dr. H.G. Prakash, Director Research
2. Dr. U.K. Tripathi, Professor & Head, Dept. of Plant Pathology
3. Dr. Ved Ratan, Professor, Dept. of Plant Pathology
4. Dr. S. K. Biswas, Professor, Dept. of Plant Pathology & JDR, Directorate of Research
5. Dr. J. B. Khan, Assist. Professor, Section of Rabi Cereals
6. Dr. C.B. Singh, Assist. Professor, Dept. of Seed Technology
7. Dr. R.K. Singh Gautam, Assist. Professor, Dept. of Horticulture
8. Dr. R. K. Singh, Assist. Professor, Dept. of Agril. Eco. & Statistics
9. Dr. Anjani Kumar Singh, Assist. Professor, Dept. of Agril. Eco. & Stats
10. Dr. Naushad Khan, Professor, Dept. of Agronomy
11. Dr. Karam Hussain, Professor & Head, Dept. of Crop Physiology
12. Dr. Mahak Singh, Professor & Head, Dept. of Genetics & Plant Breeding
13. Dr. Y. P. Malik, Professor & Head, Dept. of Entomology
14. Dr. Mohd. Shamim, ADR, Directorate of Research
15. Dr. S.B. Pandey, Assist. Professor, Dept. of Soil Science & Agril. Chemistry
16. Dr. S.N. Pandey, Assist. Professor, Dept. of Agronomy
17. Dr. A.K. Singh, Assist. Professor, Dept. of Agril. Extension
18. Dr. Mithilesh Verma, Associate Professor, Dept. of ECM, College of Home Science
19. Dr. Subhash Chandra, Associate Director, Directorate of Extension

The meeting started with the warm welcome of the chair person Dr. H.G. Prakash, members of different departments and the faculty members of Plant Pathology by Head, Plant Pathology.

Head, Plant Pathology briefly highlighted the significant achievements of the department of last year. He also informed the house that total 05 research proposals have been submitted by the faculty members to discuss in the meeting.

Each of these Projects was discussed thoroughly and decision/ suggestions were noted and are given below:

1. **Project no 1: Screening of cotton varieties/ cultures against major diseases-**

Approved.

2. **Project no 2: Effect of *Trichoderma* based agro residues on root rot of moong /urd bean caused by *Rhizoctonia bataticola (PS Macrophomina phaseolina*)-**

Approved.

3. **Project no 3: Management of seed-borne infection of anthracnose disease caused by *Colletotrichun truncatum* of black gram -**

Approved.

4. **Project no 4: Management of seed-borne infection of root rot diseases of green gram (*Rhizoctonia* sp.) by ST with new chemicals and biofungicides -**

Approved

5. **Project no 5: Development of suitable modules for the management of Fusarium wilt of tomato under climate change-**

Approved

The meeting ended with vote of thanks by Dr. Ved Ratan, Professor, Dept. of Plant Pathology.

20.6.2021

(U. K. Tripathi)
Head, Plant Pathology

29/6/21

(H.G. Prakash)
Director, AES
Director
Agricultural Experiment Station
C.S. Azad Univ. of Agri & Tech.
Kanpur

Head
Deptt. of Plant Pathology
C.S.U. & Tech. Kanpur

Proceedings of RAC meeting held on 10-08-2021 for Kharif 2021-22
Department of Soil Conservation and Water Management

A meeting was held on 10-08-2021 to finalize the research programme of Kharif 2021-22. following scientists / teachers were present:

S.No.	Name	Designation
1.	Dr. S.K. Vishwas	Joint Director Research
2.	Dr. Manoj Mishra	Assistant Director Research
3.	Dr. R.P.Singh	Head of Deptt. , SCWM
4.	Dr. Munish Kumar	Professor , SCWM
5.	Dr Sarvesh Kumar	Professor, SCWM
6.	Dr. U.D. Awasthi	Assistant Professor, SCWM
7.	Dr. Ved Ratan	Professor, PPA
8.	Dr. M.Z. Siddiqui	Professor/Chief Agronomist
9.	Dr. O.P. Singh	Asstt. Professor, Crop Physiology
10.	Dr. Anjani Kumar Singh	Assistant Professor, Agril. Econ. & Statistics
11.	Dr. Rakesh Kumar Singh	Assistant Professor, Agril. Econ. & Statistics
12.	Dr. S.B. Pandey	Asstt. Chemist (Pesticide) Deptt. of Soil & Agril. Chem.
13.	Dr. D.K. Tripathi,	Asstt. Professor, Crop Physiology

After warm welcome by Dr. R.P. Singh, Head of Department to all participants in the meeting, the achievements and compliance report was presented by Dr. Sarvesh Kumar for various research programme. During meeting, projects were presented one by one by the relevant Scientist/Teachers given as under:

Project No. 1 Effect of rain water conservation practices and mulching on yield of maize (*Zea mays* L) under climate change condition

A Ph.D trial presented by Dr. R.P.Singh after discussion house suggest that findings should be sent to Director Research.

Project No. 2 Intercropping of sorghum (*Sorghum bicolor* L.) and cowpea (*Vigna unguiculata* L.) under different levels of fertilizers in Central Plain Zone of UP.

Last year M.Sc. (Ag.) trial presented by Dr Munish Kumar and house allowed to continue as such for M.Sc. (Ag.) Students in Kharif 2021-22.

Project No. 3 Studies on nutrient management and moisture conservation practices on Pearlmillet (*Pennisetum glaucum L.*) production under light textured soil.

Last year Ph.D trial presented by Dr. Sarvesh Kumar and house suggest that findings should be sent to Director Research.

Project No. 4 Impact of summer ploughing in different intercropping of pigeonpea & sorghum in central plain zone of UP

Last year M.Sc. (Ag.) trial presented by Dr. Sarvesh Kumar house allowed to continue in Kharif 2021-22.

Project No-5 Performance of Maize based intercropping systems under different INM protocol in Central Plain Zone of Uttar Pradesh

Last year M.Sc. (Ag.) trial of Dr. Kaushal Kumar discussed in absentia and house suggest that finding should be sent to Director Research.

ProjectNo-6 Productivity and water use efficiency of sesame (*Sesamum indicum* L.) based intercropping under rainfed ecosystem.

A M.Sc. (Ag.) trial presented by Dr. U.D. Awasthi for New student Conducted in Kharif 2021-22.

Project No-7 Effect of moisture conservation practices and fertilizer doses on productivity of bajra under rainfed condition.

Last year M.Sc. (Ag.) experiment under the supervision of Dr. A.K. Katiyar presented by Dr. Sarvesh Kumar and after discussion it is recommended to continue in Kharif 2021-22.

Project No-8 Effect of organics and moisture conservation practices on production of mustard in Central Plain Zone of UP.

A New experiment proposed for M.Sc. (Ag.) student by Dr. Sarvesh Kumar and after discussion house suggest that change experimental design as Factorial RBD.

The meeting was ended with vote of thanks and concluding remarks by Dr. Munish Kumar, Professor of this department.

19.8.21

(R.P. Singh)
Professor & Head

Department of Soil Conservation and Water Management
C.S. Azad University of Agriculture & Technology, Kanpur-208002

No. 129 /SCWM/2021-22 Dated: August 19 ,2021

Copy forwarded for information & necessary action to:

1. Dean, Faculty of Agriculture, CSAU, Kanpur
2. Director, Agricultural Experiment Station, CSAU, Kanpur
3. Professor & Heads(s)/In -charge (s) of the Department – Agronomy, Soil Sci. & Agril. Chemistry, Plant Pathology, Entomology, Crop Physiology and Agril. Economics & Statistics
4. All Teachers/Scientists of the Department
5. T.S. to V.C. for kind information of Hon'ble Vice-Chancellor.

19.8.21

(R.P. Singh)
Professor & Head

निदेशक शोध

खरीफ-2021

Proceedings of Research Advisory Committee Meeting for Kharif 2021 held on 05-07-2021

Research Advisory Committee Meeting was held in the Chamber of Head of Department of Soil Science and Agricultural Chemistry on 5-7-2021 . At the outset of meeting Dr. Ravindra Kumar, Head of Deptt. warmly welcomed the galaxy of Scientist. Head of Deptt. concluded about the research findings of the different experiments conducted during last year. The salient achievements of the departmental research work was presented by Dr. R.K. Pandey, Asstt. Professor/Asstt. Residue Analyst. The technical programme of Kharif -2021 was presented by the concerned respective scientist.

The following scientists were present during discussions:

1. Dr. Ravindra Kumar, Head of Deptt.
2. Dr. Anil Kumar, Professor
3. Dr. A.K. Dwivedi, Professor, Horticulture
4. Dr. U.D. Awasthi, Asstt. Professor, SCWM
5. Dr. R.K. Pandey, Asstt. Professor
6. Dr. S.B. Pandey, Asstt. Professor
7. Dr. S.D. Dubey, Asstt. Professor
8. Dr. Sushil Dimree, Asstt.Professor
9. Dr. R.K. Pathak, Asstt. Professor
10. Dr. Devendra Singh, Asstt. Professor
11. Dr. Rakesh Babu Gautam , Biochemistry
12. Dr. Umashankar Tiwari, Asstt. Prof.,
13. Dr. S.P. Kushwaha, Crop Physiology
14. Dr. Ram Singh, Entomology
15. Sri Vinod Kumar

1- **Quality Testing of Pesticides, Fertilizer and Manures and Allied Products:**

Under quality testing scheme following projects were discussed:

Project No.1 : Quality testing of Pesticide.

Project No.2: Quality testing of fertilizer, Manure and allied products.

Project No.3: Evaluation of Polysulphate on yield and yield attribute and quality of Groundnut/sesame in alluvial soil of central U.P.

2- **Soil Testing Scheme**

Project No.1- Soil fertility evaluation for balanced fertilization on cultivators fields and projects.

Project No.2: Evaluation of Soil fertility status of university farm in respect to macro and micrountrients.

Project No.3: Effect of integrated nutrient management based on STR of NPK on productivity, profitability and soil health in rice-wheat cropping system.

The programme was presented by Dr. U.S. Tiwari, Asstt. Prof.. He also emphasized about the laboratory condition. All the three projects were approved by house after rigorous discussions.

3- **Soil Survey and Soil Fertility:**

The programme of above scheme was presented by Sri Vinod Kumar , Asstt. Prof.

Project No.1: Effect of Primary, Secondary and Micronutrients on Urd-Mustard cropping sequence. After detail discussion this project was approved as such.

Project No.2: Longterm fertility experiment on Paddy-wheat cropping sequence.
This project was started in 1954-55 at Uttari Pura farm in Field No.21 to know the longterm impact of organic and inorganic fertilizers in Paddy-wheat sequence.
Project No.3 :Long term fertility experiment on Paddy-wheat cropping sequence.
The Project was started in 1971-72 at Uttari Pura both project-2 and 3 were presented by Dr. U.S. Tiwari and data on both the experiments were well presented, discussed and approved by house.

4- **Microbiology:**
Project-1: Isolation and maintenance of Rhizobium culture .
Project-2: Isolation and maintenance of Azotobacters strains .
Project-3: Maintenance and production of PSB culture.
All above three project presented by Dr. S.D. Dubey and after discussion approved as such.

5- **AINP on Pesticide Residues-** The five experiments were presented by Dr. R.K. Pandey . Approved all the projects of AINP on Pesticide Residues as such.

6- **Professor (IFFCO) Chair Programme:**
Project No.1 : Study on application of bio nano phosphorus (P) , Potassium (K) and zinc (Zn) in rice-wheat cropping system.
Project No.2 Study on application of organic nono zinc (Zn) in rice=wheat cropping system .
Project No. 3 : To evaluate the effect of IFFCO nano fertilizers on rice

Dr. Ravindra Kumar presented and discussed the projects before house. House was convinced with the discussions with Dr. Kumar and approved three programmes.

7- **AICRP on Micronutrients:** Project No. 1 to 4 were presented by the P.I. . All projects of Micronutrients scheme were discussed and approved by the house.

Meeting ended with vote of thanks proposed by Dr. Anil Kumar , Professor of the Deptt. to all the members present in the meeting to discuss research programmes of the Deptt.

(Ravindra Kumar)
Head of Deptt.

Deptt. of Soil Science & Agricultural Chemistry
C.S.A.University of Agriculture & Technology,Kanpur

No. 126 /2021 Dated: 0 9-07-.2021

Copy forwarded for information and necessary action:

1. Dean, Faculty of Agriculture.
2. Director, Agriculture Experiment Station.
3. All Professor and Head of the Department.
4. Technical Secretary to V.C. for kind information of the Hon'ble Vice Chancellor.
5. Concerned Scientist of the Department.

(Ravindra Kumar)
Head of Deptt.

चन्द्रशेखर आजाद कृषि एवं प्रौद्योगिक विश्वविद्यालय, कानपुर – 208002

Chandra Shekhar Azad University of Agriculture &Technology, Kanpur 08002

Directorate of Research शोध निदेशालय

NO...766...../DR/ 2015

Dated: 14.09.15

Circular

Hon'ble Vice Chancellor has accord the approval of dates for holding the Departmental Research Advisory Committee and Zonal Research Extension Advisory Committee meetings as per schedule given below. He has also very kindly consented to Chair the meetings. You are, therefore, requested to kindly organise the aforesaid meeting on scheduled date and also ensure the **presentation of research programmes through power point.**

S.N	Faculty/Discipline	Date & Time
A.	**Faculty of Agriculture**	
1	Crop Physiology	28.09.2015 at 10:30 AM
2	Horticulture	29.09.2015 at 10:30 AM
3	Animal Husbandry and Dairying	30.09.2015 at 10:30 AM
4	Agronomy	08.10.2015 at 10:30 AM
5	Entomology	09.10.2015 at 10:30 AM
6	Pathology	12.10.2015 at 10:30 AM
7	Agril. Economics	14.10.2015 at 10:30 AM
8	Agril. Biochemistry	15.10.2015 at 10:30 AM
9	Agriculture Extension	16.10.2015 at 10:30 AM
10	**ZREAC of Bundelkhand Bharari Jhansi**	17.10.2015 at 10:30 AM
11	Soil Conservation & Water management and Forestry	19.10.2015 at 10:30 AM
12	Soil Science and Agril. Chemistry	20.10.2015 at 10:30 AM
13	**ZREAC South Western Semi Arid Zone, Mainpuri**	23.10.2015 at 10:30 AM
14	Seed Science & Technology	26.10.2015 at 10:30 AM
15	Vegetable Science	28.10.2015 at 10:30 AM
16	Genetics and Plant Breeding	29.10.2015 at 10:30 AM
17	**ZREAC Central Plain Zone, Dileepnagar**	30.10.2015 at 10:30 AM
B.	**Faculty of Home Science**	
1	Food Science & Nutrition	02.11.2015 at 10:30 AM
2	Family Resource Management	
3	Extension Communication & Management	
4	Human Development	
5	Textile & Clothing	
C.	**Faculty of Agril. Engineering & Technology**	03.11.2015 at 10:30 AM

14/9/2015

(H.G. Prakash)
Joint Director Research/
Coordinator Research

Copy forwarded to following for information and necessary action.

1. HoD(s)/Incharges of all Departments with request to please inform all the scientists working on subject concern along with scientists of the KVKs.
2. HoD Department of Agricultural Economics and Statistics with the request to kindly nominate the scientist (statistician) for participation in the meetings.
3. Incharges Rabi Cereal, Oilseed, Pulse and Vegetable Sections
4. Officer Incharge of all NARP Research Stations
5. Project Incharge AICRP Tobacco, Linseed Mauranipur, Linseed Kanpur
6. Deputy Director Seed & Farms
7. Director Extension with request to please inform to Programme Coordinator of all KVKs of the Zone to ensure their participation in ZREAC meetings.
8. Dean, Faculty of Agriculture
9. Dean, Faculty of Home Science
10. Dean, Faculty of Engineering
11. T S to V C for kind information of Hon'ble Vice Chancellor.

14/9/2015

(H.G. Prakash)
Joint Director Research/
Coordinator Research

Proceeding of Research Advisory Committee Meeting of Agronomy for Rabi 2015-16

The Research Advisory Committee Meeting of the department was held under Chairmanship of Dr. D. D. Yadav, Incharge, Department of Agronomy on 03rd Nov. 2015 in the committee room of department of Agronomy, C. S. Azad University of Agriculture & Technology, Kanpur.

The following officers/scientists/teachers were present in two days meeting to discuss and finalize research programme for Rabi 2015-16.

S. No.	Name	Designation
1.	Dr. D. D. Yadav	Professor & Incharge, Agronomy
2.	Dr Karam Husain	Professor, Director Seed and Farm
3.	Dr. Sanjeev Kumar	Professor, (Agronomy)
4.	Dr. R. A. Yadav	Professor, EBR section
5.	Dr. Ram Pyare	Professor, (Agronomy)
6.	Dr P.N. Yadav	Professor & Incharge SCWM
7.	Dr G.S.Parihar	Assoc. Prof., Paddy non-plan
8.	Dr. V.K. Verma	Assoc. Prof., Agronomy
9.	Dr A.K.Srivastava	-do-
10.	Dr. M. Z. Siddiqui	-do-
11.	Dr. Naushad Khan	-do-
12.	Dr S.K.Srivastava	Asst. Prof., AICRP Castor
13.	Dr Keshav Arya	Asst. Prof., AICRP maize
14.	Dr Jagdish Kumar	Asst. Prof., AICRP Cotton
15.	Dr. A.K. Tripathi	Asst. Prof., Agronomy
16.	Dr. U.S. Tiwari	Asst. Prof., AICRP FS
17.	Sri R.V. Singh	Asstt. Prof./Tech. Officer, Agronomy
18.	Dr. R. V. Singh	Asstt. Prof., EBR Sectin
19.	Dr. S.B. Pandey	Asstt. Chemist., SS & Ag Chemistry
20.	Shri Lal Mani	Asst. Prof., Agronomy
21.	Dr Mohd. Aslam	Asst. Prof., CP
22.	Dr Rajiv	Jr. Agronomist AICRP Vegetable
23.	Dr C.B. Singh	FA Agromet

Meeting started with great enthusiasm with inaugural address by Incharge. At the beginning chairman welcome Scientists/Officers/Teachers of different departments attending meeting.

The chairman address to the scientists to make emphasis on key concerns of existing challenges before agriculture including population growth, food production system, land resources, eco-system and sustainability of soil and plant system. He also gave emphasis on emerging challenges including climate change, water availability and infrastructure facilities to the farmers for sustainable production.

Chairman highlighted the priority areas of research and given emphasis to work on such areas in order to improve productivity and economic status of the farmers' family as well as maintain eco-system. He also given emphasis on system research which includes farming system with different components of farming system, weather, weed management and water management, are key concern for scientists. While conducting research cost of cultivation need to be concerned because cost of cultivation resulting into decline net profit in areas under cultivation. Key areas to tackle cost of cultivation by increasing input use efficiency like FUE, WUE, weed management and proper utilization of resources. Chairman also emphasized that proper use of resources not only reduce the cost of cultivation but also result into lesser the burden on foreign reserves. He suggested to the scientist to design farming system module which improve family income of the farmers as per capita availability of land is declining.

Review of previous meeting

The proceeding of previous RAC meeting held on 9th October, 2014 was circulated among the members vide letter no. AGR/EN 518 dated 10.10.2014, Since hereby no communication received from any members hence the proceeding is confirmed.

Chairman reviewed the progress of previous meeting decision one by one from each scientist. He also asked about the reason of shortfall in progress and gave possible solution as well as instructions. In some cases, Chairman constituted committee to examine the reason of non-compliance.

Discussion on Research Programme

After review of previous meeting, Chairman asked the convener to take up research programme for discussion. The programmes were discussed one by one and decisions taken are here as under:

<u>Wheat and barley</u> (plan & non plan)

Total seven experiments were presented by Dr. Rajveer Singh wheat agronomist. He presented four experiments in plan (ICAR) and four in non-plan under wheat and six experiments of barley in plan (ICAR).

Exp. No.1: Performance of marker assisted backcross breeding(MABB) genotypes for late sown under irrigated conditions.

Result of the experiment discussed and experiment concluded.

(Action: Wheat Agronomist)

Exp. No.2: Performance of new wheat genotypes at different Nitrogen levels under rainfed conditions.

Experiment discussed and experiment will be continued.

(Action: Wheat Agronomist)

Exp. No.3: Performance of wheat bio-fortified(WB) genotypes for timely sown under irrigated conditions.

Experiment discussed and experiment will be continued.

(Action: Wheat Agronomist)

Exp. No.4: Management of lodging and yield maximization using nutrient expert.

Experiment discussed and experiment will be continued.

(Action: Wheat Agronomist)

<u>Wheat non-plan</u>

Exp. No.1: Evaluation of new wheat genotypes with restricted irrigation under normal sown condition.

Result of the experiment discussed and experiment concluded as per direction of Director (AES).

(Action: Wheat Agronomist)

Exp. No.2: To study herbicide combinations for control of complex weed flora in wheat.

Result of the experiment discussed and experiment will be continued.

(Action: Wheat Agronomist)

Exp. No.3: Effect of nitrogen and weed management practices on productivity of wheat.

Result of the experiment discussed and experiment will be continued.

(Action: Wheat Agronomist)

Exp. No.4: To study efficacy of WCPL 15 WDG against weed flora in wheat.

Result of the experiment discussed and experiment will be continued.

(Action: Wheat Agronomist)

<u>Barley</u> **(plan)**

Exp. No.1: To find out optimum date of sowing in under changing climatic conditions.

Result of the experiment discussed and experiment concluded.

(Action: Wheat Agronomist)

Exp. No.2: Effect of mulching on water saving and productivity of barley.

Result of the experiment discussed and experiment concluded.

(Action: Wheat Agronomist)

Exp. No.3: Weed management in barley.

Result of the experiment discussed and experiment will be continued.

(Action: Wheat Agronomist)

Exp. No.4: Integrated nutrient management of barley.

Experiment discussed and experiment will be continued.

(Action: Wheat Agronomist)

Agrometerology (ICAR)

Incharge Agronomy suggested that soil, rainfall data should be provided block, district level under university jurisdiction area. He also suggested rainfall data of 5-10 years and its impact on *Rabi* crop for review papers.

Exp. No. 1: Studies on Rice-wheat cropping system in relation to weather.

Result of the experiment discussed and will be continue.

(Action: Dr A.P. Dubey)

DST - Starting of experimental Agro-meteorological Advisory services is now Gramin Krishi Mausam Sewa.

Discussed and Approved with the suggestion that these services should be made available to farmers timely.

(Action: Tech. Officer, DST)

Integrated Farming System (ICAR)

Cropping System Research at Main Centre

Total Six experiments were presented by Dr. Y.K.Singh.

Exp. No.1: Identification of biological efficient and profitable cropping systems in central plain zone of U.P.

Result of experiment discussed and approved for the year 2012-13. Decision on the basis of three year result was made that maize+blackgram-potato-onion cropping sequence recommended due to highest profitability.

(Action: Dr. Y.K.Singh)

Exp. No.2: Permanent trial on integrated nutrient supply system in rice- wheat crop sequence.

Result of experiment discussed and approved.

(Action: Dr. Y.K.Singh)

Exp. No. 3: Development of organic farming package for system based high value crop.

Results of the experiment discussed and experiment will continue.

(Action: Dr. Y.K.Singh)

Exp. No. 4: Development of farming system module for central plain zone of U.P.

Results of the experiment discussed and will be continue.

(Action: Dr. Y.K.Singh)

Exp. No. 5: Resource conservation and sustaining high productivity through cropping system management and land configuration.

Results of the experiment discussed and will be concluded.

(Action: Dr. Y.K.Singh)

Exp. No. 6: Development of innovative farming practices to mitigate the effects of climatic change.

Results of the experiment discussed and will be continue.

(Action: Dr. Y.K.Singh)

Chairman suggested that economics related to every experiment must be calculated every year. He also suggested the experiment should be based on demand of farmers' as well as to improve status of farmers' family through farming system module.

(b) E.C.F.

Under the ECF scheme total three experiments were presented by Dr. Y.K.Singh namely below:

Exp. No. 1: On farm crop response to plant nutrients in predominant cropping systems and their impact on crop-livestock-human continuum.

Results of the experiment discussed and will be continue.

(Action: Agronomist, ECF)

Exp. No. 2: Diversification of farming systems modules for under marginal household conditions.

Results of the experiment discussed and will be continue.

(Action: Agronomist, ECF)

Exp. No. 3: On-farm evaluation of farming system modules for improving the profitability of small and marginal households.

Results of the experiment discussed and will be continue.

(Action: Agronomist, ECF)

Vegetable (ICAR)

Dr. Rajiv, Jr. Agronomist vegetable (Plan) has presented results of two experiments and introduced one new experiment.

Exp. No. 1: Integrated nutrient management in garden pea.

Result of the experiment discussed and will be continue.

(Action: Jr. Agronomist, Vegetable Plan)

Exp. No.2: Organic farming in tomato.

Result of the experiment discussed and will be continue.

(Action: Jr. Agronomist, Vegetable Plan)

Exp. No.2: Organic farming in coriander.

Result of the experiment discussed and will be continue.

(Action: Jr. Agronomist, Vegetable Plan)

Pulses (Non plan)

Dr Akhilesh Mishra presented programme of pulses, he presented results of two experiments and introduced one new experiment.

Exp. No. 1: Effect of Bio-fertilizer in enhancing the productivity of lentil under irrigated conditions.

Result of the experiment discussed and will be continue.

(Action: Dr Akhilesh Mishra)

Exp. No.2: Weed management in field pea.

Result of the experiment discussed and will be continue.

(Action: Dr Akhilesh Mishra)

Exp. No. 3: Performance of different cultivars of chickpea to date of sowing and plant population.

Experiment discussed and will be continue.

(Action: Dr Akhilesh Mishra)

Rapeseed and mustard (ICAR Plan)

Dr. R.S. Baghel presented four experiments in rapeseed and mustard.

Exp. No.1: Agronomic evaluation for yield maximization(A) date of sowing and plant geometry.

Result of experiment discussed and will be continue.

(Action: Dr. R.S. Baghel)

Exp. No.2: Agronomic evaluation for yield maximization(B) fertility requirement.

Result of experiment discussed and will be continue.

(Action: Dr. R.S. Baghel)

Exp. No. 3: Tillage and irrigation frequency in rapeseed-mustard.

Result of experiment discussed and will be continue.

(Action: Dr. R.S. Baghel)

Exp. No. 4: Performance of promising rapeseed-mustard entries under different fertility level.

Experiment discussed and will be continue.

(Action: Dr. R.S. Baghel)

Water management (Non-Plan)

Experiments related to water management discussed later by the committee constituted under chairmanship of HoD, Agronomy.

Teaching (non Plan)

Experiments related to teaching research will discussed later by the committee constituted under chairmanship of HoD, Agronomy.

Suggestions by the Chairman:

- All scientists should present during meeting that will help in learning of new innovative ideas. **(Action: All scientists)**
- Land allotment letter should be sent to HoD Agronomy as well as concerned Farm superintendent as early as possible for timely sowing of experiments. **(Action: All scientists)**
- Compliance of decision taken has to be communicated before next meeting. **(Action: All scientists)**
- Scientists have to do frequent visit to the site for better monitoring of the project work. **(Action: All scientists)**
- Without granting permission with chairman no personal discussions are allowed. **(Action: All scientists)**

Meeting ended with vote of thank proposed by convener of the meeting to the Chairman, HOD of various disciplines and all committee members for actively participating in the discussion over the past two days and based their discussions on present realities and explored the new ideas of future strategies.

27.11.2015

(D.D. Yadav)
Incharge, (Agronomy)

No. AGR/EN 537A /2015 Dated: 27.11.2015

Copy forwarded for information and necessary action:

1. Director, AES
2. All HOD's/Sectional Incharge
3. All Agronomist/Scientists
4. Technical Secretary to VC for kind information to the Hon'ble Vice-Chancellor.

(D.D. Yadav)
Incharge, (Agronomy)

Proceeding of Research Advisory Committee meeting for Rabi 2015-16 held on Dec.. 2,2015 in the committee room, Department of Crop Physiology .

A meeting of Research Advisory Committee was held on Dec. 02, 2015 at 11:30 A.M. to discuss and finalize the research programme for *Rabi* 2015-16 under the chairmanship of Dr. D.D. Tiwari, Professor & Head, Department of Soil Science and Agril. Chemistry. Following Scientists were participated in the aforesaid meeting.

Participants:

1.Dr.D.D.Tiwari, Professor & Head, Soil Science and Agril. Chemistry.
2. Dr. Lallu. Professor & Officer In-charge, Deptt. of Crop Physiology
3.Dr.R.S. Singh, Professor, Deptt. of Entomology.
4. Dr.A. K. Dubey,Officer In Charge, Deptt. of Horticulture.
5 Dr.Ved Ratan, Professor & Officer In-charge,Deptt of Plant Pathology.
6.Sri Manoj Mishra, Asstt. Director Research.
7. Dr.Munish Kumar,Professor, Deptt. of Soil Conservation
8. Dr. A.K. Mishra, Assoc.Professor.Legume Section.
9. Dr. Mohd. Zafar Siddiqui, Assoc.Professor.Deptt. of Agronomy.
10.Dr. A.K. Sachan,Asstt. Director, Seed & Farm.
11. Dr. (Mrs.) Meera Srivastava, Asstt.Professor, E.B.R.
12. Dr.S.N.Singh, Asstt.Professor, Deptt. of Crop Physiology
13. Dr. C.B.Verma, Asstt.Professor, Deptt. of Crop Physiology
14 Dr. D.K.Tripathi, Asstt.Professor, Deptt. of Crop Physiology
15.Dr.M.A.Khan, Asstt.Professor,Crop Physiology
16. Dr. S.P.Kushwaha, Asstt.Professor, Deptt. of Crop Physiology
17. Dr.A.K.Singh Asstt.Professor, Deptt. of Crop Physiology
18. Dr. O.P.Singh, Asstt.Professor, Deptt. of Crop Physiology
19. Dr.Mohd. Aslam, Asstt. Professor Deptt. of Crop Physiology.
20. Dr. P.K. Tiwari, Asstt.Professor, Legume Section.
21. Dr.Nand Kumar, Asstt.Professor,Deptt. of Agril. Biochemistry.

At the outset Dr. Lallu, Professor & Officer In Charge, welcome the Chairman and participants of the meeting and also presented the action taken report of Rabi 2014-15 RAC meeting, research achievement and priority areas of research of the department.

After the enough discussion on achievement and technical programme of Rabi 2015-16 were presented by respective scientist of the department at length and following decision were taken up by the Research Advisory Committee.

1.1 Under the Production Physiology Project, Dr A. K. Singh presented and concluded.

1.2 Presented by Dr. O.P.Sngh and it was approved with the condition. Field pea replaced by wheat.

2.1 Nutrition & micronutrient experiment on lentil was presented by Dr. C.B.Verma, which was approved.

2.2 Presented by Dr.C. B. Verma on chickpea which was approved, with research advisory committee decision that instead of borax & Zn sulphate,Boron and Zn should be used and data of 50% flowering should be recorded.

3.1 Under stress physiology on Gram Dr. M.A.Khan presented which was approved.

3.2 Programme under stress physiology on wheat crop was presented by Dr. S.N.Singh which approved as such.

4.1 Concluded.

4.2 Under bio-regulators project on wheat crop was presented by Dr. S.P.Kushwaha, which was approved.

4.3 Experiment on bio-regulators on Rajmash crop was presented by Dr. D.K.Tripathi which was approved as such.

5.1 Project on Agronomy on chick pea crop presented by Dr. M. Aslam, which was approved as such.

Five experiments on **(AICRP(R & M)** were presented by Dr. Lallu were approved as such

Three experiments on **(AICW & BIP)** presented by Dr.Meera Srivastav were discussed and approved as such..

Meeting ended with vote of thanks proposed by Dr. Lallu, Professor & Officer In-charge of the department to the chairman and all participants.

(Lallu)
Professor & Officer In Charge

No.C.P.- 1367 / Dated: Dec.28.2015

C.C.to:-

1. Coordinator, A.E.S.
2. Dean, College of Agriculture
3. Technical Secretary to Hon'ble Vice-Chancellor for information to Hon'ble Chancellor..
4. All Concerned HOD / Officer In Charge.

(Lallu)
Professor & Officer In Charge

Department of Entomology
C.S.Azad University of Agriculture & Technology, Kanpur-2

No.389/2015

Dated 8-/1-,2015

Proceeding of Research Advisory Committee meeting held on 20.10.2015 for Rabi 2015-16

The RAC meeting of Rabi 2015-16 was held under the chairmanship of Dr. Dr. H.G. Prakash, Coordinator Director Experiment Station, on 20th October, 2015 in the committee room of Department of Entomology, C.S. Azad University of Agriculture & Technology, Kanpur.

The following officers/ Scientists were present in the meeting.

Sl. No.	Name	Designation	Department
1.	Dr. H.G. Prakash	Coordinator, Director Experiment Station	Directorate of Research
2.	Dr. Manoj Mishra	Asstt. Director Research	Directorate of Research
3.	Dr. R.S. Singh	Prof.	Entomology
4.	Dr. Neerja Agrawal	Prof./ Incharge	--do--
5.	Dr. D.R. Singh	Prof.	--do--
6.	Dr. K. Shanker	Prof.	--do--
7.	Dr. Kusum Dwivedi	Asstt. Prof	--do--
8.	Dr. R.S. Umrao	Asstt. Prof.	--do--
9.	Dr. A.S. Srivastava	Asstt. Prof.	--do--
10.	Dr. R.K. Dwivedi	Asstt. Prof.	--do--
11.	Dr. Fazal Ahmad	Asstt. Prof.	G.P.B.
12.	Dr. Jitendra Kumar	Asstt. Prof.	E.B.R.
13.	Dr. D.K. Singh	Asstt. Prof.	Oilseed
14.	Dr. D.D. Tiwari	Prof.	Soil Science
	Dr Ved Ratan	Prof./Inchage	Plant Pathology

Dr. Neerja Agrawal, In-charge, Department of Entomology welcomed the Chairman and all the participates of other department and Entomology department. She presented the thrust area of research and salient achievements of the year 2014-15.

Achievement of Rabi 2014-15

1. Natural parasite and predators on insect pests of Dhaniya was recorded as different species of coceinellid beetles in 12th Standard week in both the experimental Year. The average population of beetles 4.0/plant and aphid population was 535/ plant was observed. The appearance of coceinellid beetle at the time of higher population of aphid showed the good biocontrol agent for management of aphids in coriender.
2. An experiment was conducted to evaluated the effective dose of various formulations (Dust & liquid) of entomophagous fungi for the management of *Athelia proxima lugens* in mustard. These were applied as soil treatment as well as foliar spray. Amongst different formulations and dose, *Beuveria bassiana* as soil application @ 3.00 kg/ha was found most effective in controlling the sawfly.
3. An experiment conducted on evaluation of bio pesticides for the management of root knot nematode in tomato. Amongst the treatments, *Paecilomyces lilacinus* @ 50gm/m^2 in nursery

+*P. lilacinus* @ 5kg alongwith 2.5 ton of FYM/ha was found most effective in reducing the nematode population 19.1 per cent and yield increased the 5.7 per cent in compresion to control.

Thereafter, research programmes for Rabi 2015-16 were presented by individual scientist and discussed in the house for approval and finalized with following comments.

Project No. 1 to 6 were for oil seed entomology and approved as such.

Project No. 7 to 10 were subjected for AICRP (Nematodes) and approved as such.

Project No. 11 to 17 covered the topics of AICRP (Wheat) and approved as presented.

Project No. 18 to 27 were allotted for non-plan research in the department and covered different topics like; IPM, Nematodes, Taxonomy and rodents. These were approved as such without any modification.

The meeting was over with appreciation remarks of Dr. H.G. Prakash and vote of thanks by Dr. Neerja Agrawal.

Department of Genetics and Plant Breeding

Research Advisory Committee Meeting *Rabi* 2015-16

Dated: October 29, 2015

The RAC meeting was chaired by Hon'ble Co-ordinator (Research) Dr. H.G. Prakash. At the outset Dr. R.K. Yadav, Incharge, Department of Genetics and Plant Breeding welcomed all the faculty members present in the RAC meeting. At the beginning Co-ordinator (Research) gave following suggestions that:

1. **The technical staff of any co-ordinated research project should not be transferred without prior consent of the Incharge of the concerned co-ordinated project.**
2. **All the Crop Breeders must mention the availability of nucleus seed along with mandate of breeder seed.**
3. **Maintenance of nucleus seed is the sole responsibility of concerned crop breeder.**
4. **For proper monitoring of nucleus seed programme, it should be grown near breeder seed of the concerned variety.**

Co-ordinator (Research) took it very serious that few scientists of university are not showing interest to participate in National Research Group meeting/Workshop. He informed the house that in future it will be monitored and accordingly the matter will be forwarded to the Hon'ble Vice-Chancellor for necessary action.

Dr. (Mrs.) Geeta Rai informed the house that the payments made by him to conduct research work during last year is still awaited for payment.

Incharges of AICRP-Maize, Mustard, Linseed and Vegetable were not present in the RAC meeting.

Nine research programmers were presented by concerned crop breeders. The detailed research progamme of different crops are given below:-

Rapeseed & Mustard: Research programme was presented by Dr. Mahak Singh.

(a) **Toria**:

Project 1 to Project 3: Approved,

(b) **Yellow Sarson**:

Project 4 and Project 5: Approved.

(c) **Indian mustard**:

Project 1 to Project 8: Approved.

Linseed: Research programme was presented by Dr. Nalini Tewari.

Expt. No.1and Expt. No. 2: Approved.

Expt. No. 3: It was suggested by house to mention research data on plant height.

Expt. No. 4 to Expt. No. 8: Approved.

Wheat : Research programme was presented by Dr. Som Veer Singh.

Expt. No. 1 to Expt. No. 7: Approved.

Barley: The research programme was presented by Dr. P.K. Gupta.

Expt. No. 1 to Expt. 13: Approved.

Tobacco: Research Project was presented by Dr. A.K. Srivastav.

Project 1 and Project 2: Approved.

Lentil: The research programme was presented by Dr. Manoj Katiyar.

Non Plan Research:

Expt. No.1 to Expt. No. 6: Approved. It was suggested by the house to include a pathologist as a collaborator and mention his name for proper recording of disease data.

Plan (Coordinated) Research:

Expt. No.1: Approved.

Chickpea: Research proramme was presented by Dr. P.K. Tiwari.

Expt No. 1 to Expt No 6: Approved.

Field pea: The research programme was presented by Dr. Geeta Rai.

Expt No. 1 to Expt No 6: Approved.

Maize: The research programme was presented by Dr. Harish Chandra Singh

Project 1 to Project 5: Approved.

It was suggested by house to re-submit corrected research programme of field pea and maize within one week.

Research programme of vegetable section was not presented by the concerned breeder/AICRIP Incharge.

The research programme of Crop Research Center Mauranipur was not presented. It was suggested by the house to submit the research programme within one week.

Prepared by

(S.K. Singh) **(Lokendra Singh)**

Approved

(R. K. Yadav)

Department of Horticulture

C.S. Azad University of Agriculture & Technology, Kanpur-208002

No. 1039 /HDH/2016 Dated. 14-01- , 2016

Proceedings of the R.A.C. meeting of Department of Horticulture C.S. Azad University of Agriculture & Technology, Kanpur held on Dated : 30.11.2015 at 11.00 A.M. in the Committee room.

The Following Members were Present:-

1. Dr. Manoj Mishra, A.D.R., Directorate of A.E.S.
2. Dr.D.D.Tiwari, Professor & Head, Deptt. of Soil Chemistry.
3. Dr.R.S.Singh, Professor, Deptt. of Entomology.
4. Dr. Lallu, Professor & Incharge, Deptt. of Crop Physiology.
5. Dr.C.P.Sachan, Professor & Incharge SST.
6. Dr. Ved Ratan, Professor & Incharge, Deptt. of Plant Pathology.
7. Dr.R.B.Singh, Incharge, Deptt. of Extension.
8. Dr.A.K.Dubey, Officer Incharge, Deptt. of Horticulture.
9. Dr.R.P.Vyas, Asstt. Professor/Incharge, Tissue Culture Lab.
10. Dr.D.P.Singh, Senior Scientists (Vegetable Seed Production).
11. Dr. V.K.Tripathi, Associate Professor, Deptt. of Horticulture.
12. Dr. J.P.Singh, Asstt. Professor, Deptt. of Horticulture.
13. Dr. R.K.S.Gautam, Asstt. Professor, Deptt. of Horticulture.
14. Dr. A.K.Dwivedi, Asstt. Professor, Deptt. of Horticulture.
15. Dr. S.M.Tripathi, Asstt. Professor, Deptt. of Horticulture.
16. Dr.Rakesh Babu, Asstt. Professor, Deptt. of Biochemistry.
17. Dr.Dharmendra Yadav, Scientist (Horticulture).
18. Dr.I.N.Shukla, Asstt. Professor, Vegetable Section.
19. Dr.Sanjive Kumar Singh, Asstt. Professor, Vegetable Section.
20. Sri R.K.Sachan, Asstt. Professor, Vegetable Section.
21. Sri Pradeep Kumar, M.Sc. (Ag.) Student Horticulture.
22. Sri Chandan Singh, M.Sc. (Ag.) Student Horticulture.
23. Sri Manjeet Kumar Maurya, M.Sc. (Ag.) Student Horticulture.
24. Sri Mahendra Chaudhary, Ph.D. Scholar Horticulture.
25. Sri Ram Vachan, Ph.D. Scholar Horticulture.
26. Sri Amar Singh, Ph.D. Scholar Horticulture.
27. Sri Md. Zeeshan, Ph.D. Scholar Horticulture.
28. Sri Dinesh Kumar Maurya, M.Sc. (Ag.) Student Horticulture.

The meeting commenced with the welcome address by Dr.A.K.Dubey, Officer Incharge, Deptt. of Horticulture. The meeting was chaired by Dr. D.D.Tiwari, Professor & Head, Deptt. of Soil Science. Dr.A.K.Dubey presented the salient achievements of Department.

In all there were Twenty Two (22) research programmes were presented and discussed in the meeting the following decisions were taken-

1. **In Project No. -1** some correction were required in objective No.2 as suggested by Dr.C.P.Sachan, Incharge, Seed Technology -after yield and quality of fruit, yield word should be discarded, in chemical parameter regarding observations in point No. IV word pH should be deleted by total sugars as suggested by Dr.D.D.Tiwari. (Action- Dr.P.N.Katiyar)
2. **In Project No. -2** some correction in the title of the project such as Effect of pruning time and intensity in phalsa, term intensity is replaced by height as suggested by Dr.C.P.Sachan. In treatments after replication there should be written unit plot-(5) plants and total number of plant=24 these should be multipled by 5 and total number of plants should refleted as 120. Regarding observations in point No. VII,VIII and IX these should be writen in bracket (g), (%) and B^0, respectively as pointed by Dr.D.D.Tiwari. (Action- Dr.P.N.Katiyar)
3. **Project No. -5** presented by Dr.V.K.Tripathi. The title of the Project some typing mistake was found in Aonla cultivar in place of NA-3 correct cultivar should be written as NA-7. (Action- Dr.V.K.Tripathi)
4. **Project No.-6** presented by Dr. I.N.Shukla there were some correction in the title of the project. In objective,point No.3 should be discarded as noticed by Dr.D.D.Tiwari. (Action- Dr.I.N.Shukla)
5. **Project No. -7** presented by Dr. I.N.Shukla, the title of the project should be modified as levels and sources should be clearly added. In the treatment T_2, T_3 and T_4 gypsum should be written as sulpher and supplied through gypsum, control should be only one treatment, T_5 should be discarded as suggested by Dr.D.D.Tiwari. (Action- Dr.I.N.Shukla)
6. **Project No.- 8** presented by Dr. J.P. Singh in objective, add of in between yield and tomato in point No. 1. In the treatment RDF dose of phosphorus ie. P-80 was deleted from the treatments and same shall be supplied as basal dressing. In **Project No. -9** objectives point No.-3 should be totally discarded and in point No. -1 and 2 + 2 put in place on 1 and 1 as vise versa. The Zinc sulphate should be given by Zn So_4 (7 H_2O), Zinc Hepta Hydrate. In **Project No. -10** presented in the title of the project should be modified. In objective the word of Ber may be disappeared. (Action- Dr.J.P.Singh)
7. **Project No. 12 & 13** presented by Dr. A.K.Dwivedi in the title of the project –word-"studies" should be deleted, in the treatment there should be (Mg) in place of (g) in all treatment. (Action- Dr.A.K.Dwivedi).

8. **Project No.-14** presented by Dr. S.M.Tripathi, Dr.R.S.Singh, Professor Entomology suggested to correct title of the project. In **Project No.- 15,** Dr.Lallu, Incharge Deptt. of Crop Physiology suggested that in objective No. 2 and 3 word head should be replaced by word curd (Action- Dr.S.M.Tripathi).
9. **Project No.-17** presented by Dr. Sanjeev Kumar Singh. In observation point No.-VII -Test weight (g) should be corrected with test weight/1000 seeds(g) (Action- Dr.Sanjive Kumar Singh).
10. **Project No. -18** presented by Sri R.K.Sachan, in treatments all should be correct by uniformly after 100% N through Urea should be added and T_2 T_3 T_4 T_5 was also modified as T_1 . In preharvest studies parameters observation, these corrections may be taken as suggested by Dr.Ved Ratan (Action- Sri R.K.Sachan).
11. **Project No.-20** presented by Dr.V.K.Tripathi, Dr.R.S.Singh suggested to correct title & objective of the project (Action-Dr.V.K.Tripathi).
12. **Project No. 22** presented by Dr. S.M.Tripathi, Dr.D.D.Tiwari suggested to correct title & objective of the project (Action-Dr.S.M.Tripathi).

Rest of the projects discussed and approved without correction.

The meeting ended with vote of thanks delivered by Dr.V.K.Tripathi.

14/01/16

(A.K.Dubey)
Officer Incharge

No. 1032 / HDH/2016 of dated.

Copy to:

1. Dean, College of Agriculture.
2. Director, Agriculture Experiment Station.
3. All members of R.A.C.
5. Technical Secretary to Vice-Chancellor for kind information to Hon'ble Vice-Chancellor.

14/01/16

(A.K.Dubey)
Officer Incharge

Proceeding of the Research Advisory Committee meeting of Plant Pathology Department for *Rabi* 2015-16 held on dated 12.10.2015

Presence:

1. Dr. Sameer Pal, Dean, College of Agriculture
2. Dr. Rajendra Prasad, I/C, Rapeseed Mustard
3. Dr. U.K. Tripathi, Prof., Linseed Coordinated project
4. Dr. D.D. Tiwari, Prof. & head, Soil Science & Agril. Chemistry
5. Dr. Lallu, I/C Crop Physiology
6. Dr. A.R. Dubey, I/C, Horticulture
7. Dr. R.S. Singh, Prof., Entomology
8. Dr. R.K. Pandey, Asstt. Prof. Directorate of Research
9. Dr. R.P. Singh, Prof., Soil Conv. & Water Management
10. Dr. Mohd. Sameem, ADR
11. Dr. S.K. Biswas, Prof. Plant Pathology
12. Dr. Mukesh Srivastava, Professor, Plant Pathology
13. Dr. Narendra Singh, Prof., Oil Seed Section
14. Dr. Ramesh Singh, Asst. Prof. Vegetable
15. Dr. M.R. Dabbas, Asstt. Prof., Vegetable
16. Dr. Ved Ratan, I/C Plant, Pathology

The meeting was started with the warm welcome of respect chairman, HODs, Scientists of different department and faculty members of the Plant Pathology by In-charge department of Plant Pathology. Chairman high lighted the importance of such type of meeting and he also stressed to make a need base research programme. In charge Plant Pathology brief about the significant achievement of Plant Pathology department from last *rabi* season to till now. He also informed to the house that total 34 research projects (including plan and non plan) have been submitted by the scientist. Each programme was discussed thoroughly and decision/ suggestion were noted and are given below:

(A) Programme of department of Plant Pathology

Project No. 1	Study on induction of β-1 glucanane taken from *Trichoderma* sp. on different carbon sources.	- Approved
Project No. 2	*In vivo* efficacy of *Trichoderma viride* (01PP) and *Trichoderma harzianum* (Th. Azad) against *Fusarium oxysporum* f. sp. lentis.	- Approved
Project No. 3	Induced resistance in tomato against Fusarium wilt through Plant extracts.	- Approved with the suggestion that next year result will be putup with in concludary farm.
Project No. 4	Compatibility test of different bio-agent with chemical fungicides.	- Approved with the suggestion that one set of control will also

Project No. 5	Management of early blight of Tomato	-	be included. Approved
Project No. 6	Management of powdery mildew of per through chemicals	-	Approved with suggestion that one more fungicide (sulphur) will be included and hence if D.R. R

(B) Coordinated Research Project (Rapeseed mustard)

Project No. 1	Screening of brasica materials against different diseases.	-	Approved
Project No. 2	Uniform Disease Nursery Trial	-	Approved
Project No. 3	National disease nursery for *Alternaria blight resistance*	-	Approved
Project No. 4	National disease nursery for white rust	-	Approved
Project No. 5	Screening of IVT entries of Brassica against *Alternaria blight*	-	Approved
Project No. 6	Integrated disease management trial	-	Approved with the suggestion that title of the experiment will be changed as per treatments.

(C) Legume section

Project No. 1	Screening nursery for field pea AVT and IVT entreris against rust, powdery mildew and other disease of local importance	-	Approved
Project No. 2	National nursery for lentil AVT and IVT enteries against rust, wilt, ascochyta blight, root rot and other diseases.	-	Approved

(D) Linseed (Co-ordinated Project)

Project No. 1	Survey of diseases of linseed Prevailing in this region	-	Approved
Project No. 2	Screening of germplasm against *Alternaria* blight of linseed	-	Approved
Project No. 3	Uniform disease nursery trial under natural condition (UDN)	-	Approved
Project No. 4	Uniform disease nursery trial under artificial condition (UDNA)	-	Approved
Project No. 5	Management of *Alternaria* blight and rust	-	Approved
Project No. 6	Efficacy of sulfer for management of powdery mildew and its impact on oil and its quality.	-	Approved

(E) Oilseed section

Project No. 1	Survey of disease of linseed preventing in this region	- Approved
Project No. 2	Screening of germplasm against will disease of linseed	- Approved
Project No. 3	Uniform disease nursery trial of linseed under natural condition.	- Approved
Project No. 4	Uniform disease nursery trial under artificial condition (UDNA) for advanced breeding trial.	- Approved
Project No. 5	Evaluation of promising enteries/ elite materials of linseed under high inoculum presences (ADNT)	- Approved
Project No. 6	Comparative performance of linseed varieties in adaptation to climate change in agronomy trial.	- Approved
Project-No. 7	Management of wilt in linseed	- Approved

(F) EBR Section

Project No. 1	Plant pathological screening nursery (PPSN)	- Approved
Project No. 2	Monitering of spread and incidence of diseases in 'wheat Disease Trap Nursery' under natural condition	- Approved
Project No. 3	Management of foliar blight of wheat through chemical	- Approved
Project No. 4	Crop health monitoring pre and post harvest nursery of wheat and barley crop.	- Approved
Project No. 5	National barley diseases screening nursery (NBDSN)	- Approved
Project No. 6	Initial barley disease nursery (IBDSN)	- Approved
Project No. 7	Elite Barley Disect screening nursery (EBDSN)	

The meeting ended with the vote of thanks.

Ratan 30/10/15

(Ved Ratan)
I/C, Plant Pathology

(Rajendra Prasad)
Ex. HOD, Plant Pathology

Approved
30/X/2015

(H.G. Prakash)
Joint Director/ Coordinator Research
समन्वयक
शोध निदेशालय

Proceedings of the meeting of Research Advisory Committee of the Deptt. of Seed Science & Technology, held on 21.11.2015 at 3.00 P.M. in the Committee Room of the department.

Following were present in the meeting:

Sl.No.	Name	Designation	Department
1.	Dr. Mohd. Shamim	Assistant Director	A representative of Co-ordinator, Directorate of Research
2.	Dr. C.P. Sachan	Professor & Incharge	Deptt. of Seed Science & Technology
3.	Dr. Poonam Singh	Professor,	Deptt. of Seed Science & Technology
4.	Dr. C.L. Maurya	Professor	Deptt. of Seed Science & Technology
5.	Dr. R.S. Singh	Professor	Deptt. of Entomology
6.	Dr. Mahak Singh	Professor	EB (Oilseeds)
7.	Dr. V.K. Tripathi	Assoc. Professor	Deptt. of Crop Physiology
8.	Dr. J. Rai	Assistant Professor	Deptt. of Agril. Economics
9.	Shri R.A. Katiyar	Assistant Professor	Deptt. of Seed Science & Technology
10.	Dr. V.P. Bajpai	Assistant Professor	Cotton Scheme
11.	Dr. Anil Kimar Sachan	Assistant Professor	DSF
12.	Dr. Jitendra Kumar	Assistant Professor	Entomologist, E.B.R.
13.	Shri Lalta Prasad	Assistant Professor	EB (Oilseeds)
14.	Dr. Anil Kumar Singh	Assistant Professor	Deptt. of Crop Physiology
15.	Dr. I.N. Shukla	Assistant Professor	Deptt. of Vegetable Science
16.	Dr. P.K. Katiyar	R.A.,	Deptt. of Seed Science & Technology
17.	Dr. S.K. Swarnkar	Field man,	Deptt. of Seed Science & Technology
18.	Shri R.K. Swarnkar	R.A.	Deptt. of Seed Science & Technology
19.	Dr. U.S. Choudhary	S.R.F.	DUS Test, Deptt. of Seed Science & Technology
20.	Mr. Arun Kumar Yadav	Research fellow	Deptt. of Seed Science & Technology

At the outset, Dr. C.P. Sachan, Incharge, Deptt. of Seed Science & Technology welcomed the house and emphasized the role of Seed Technology in enhancing the agricultural production. He focused on thrust areas of Research, pointing out major aspect of Seed Science & Technology. He also narrated the results achieved during the last year along with the action taken report. The experiments presented before the house deliberated critically and suggestions for each experiment are recorded as follows-

Experiment No.	Suggestions	Action to be taken by
1.1	Approved	-
1.2	Approved	-
1.3	Approved with remarks that off-type plants should be reported under the "results already achieved". The House unanimously agreed upon to conduct the grow out test on (i) Lentil variety KL-320 & 303 ; (ii) Pea var. KPMR-400 & Rachna (iii) Gram Var. KPG-59 & KGD-1168 during Rabi 2015-16. The nucleus seed of lentil and Pea & Gram may be obtained from Dr. Manoj Katiyar, breeder and DSF, respectively.	Dr. P.K. Katiyar
1.4	Approved with remarks that the number of off-type plants should be mentioned under "Results already Achieved".	Dr. S.K. Swarnkar

	During 2015-16, grow out test will be conducted on mustard variety Urvashi and Basanti. Nucleus seed of both the varieties may be obtained from Dr. Mahak Singh, mustard breeder. The name of breeder should be mentioned as collaborator of experiment. Mismatch regarding variety's name is reported under the experiment. The experimenters advised to take utmost care while submitting the experimental report for its presentation in research council.	
1.5	Concluded with remarks that correct RDF dose should be mentioned.	Dr. Poonam Singh
1.6	Under the experiment, Wheat variety Mandakini has been taken as experimental material. This variety is known for 30-35 qtl. ha^{-1} yield potential. However, experimenter has reported highest yield of 52.00 qtl. ha^{-1}. Moreover, 14 & 11%. Increase over control has been reported under KNO_3 & water priming treatments. All these anomalies should be checked and corrected by the experimenter and experimenter is also advised to be careful while reporting the experimental data.	Dr. C.B. Singh
7 to 13	Approved	-
2.1 to 2.3	Approved	-
3.1	Approved with remark that technical guidance and support for experimentation shall be extended by Dr. C.L. Maurya, Professor, Seed Science & Technology.	Dr. C.L. Maurya

The house has expressed concern that experiments should be properly prepared, thoroughly checked and corrected before presenting in the R.A.C. The experiments which are likely to be concluded, pooled analysed data must be presented. The meeting was ~~conducted~~ concluded by vote of thanks extended by Dr. Poonam Singh, Professor, Seed Science & Technology

27/11/15

(C.P. Sachan)
Professor & Incharge

No. DST 1219-26 **/2015** **Dated: November** 27 **, 2015**

Copy forwarded for information and necessary action:

1. Dean, College of Agriculture, C.S.Azad University of Agriculture and Technology, Kanpur.
2. Co-ordinator Research, C.S. Azad University of Agriculture and Technology, Kanpur.
3. Director, Seeds & Farms, C.S.Azad University of Agriculture and Technology, Kanpur.
4. All Sectional Heads, C.S. Azad University of Agriculture and Technology, Kanpur.
5. All sectional Inchage , C.S.Azad University of Agriculture and Technology Kanpur.
6. Concerned Scientists of the Deptt. of Seed Science & Technology.
7. Technical Secretary to V.C. for kind information to Hon'ble Vice Chancellor.

27/11/15

(C.P. Sachan)
Professor & Incharge

Proceedings of RAC meeting held on 19.10.2015 for Rabi 2015-16 in the Department of Soil Conservation & Water Management

A meeting was held on 19.10.2015 to finalize the research programme of Rabi, 2015-16. Following scientists/teachers were present :

Sl. No.	Name	Designation
1.	Dr. P.N.Yadav	Professor & Incharge, SCWM
2.	Dr. R.S.Singh	Professor , Entomology
3.	Dr. Ved Ratan	Professor & Incharge, Plant Pathology
4.	Dr. Mohd.Shamim	Assistant Director, AES
5.	Dr. Munish Kumar	Professor, SCWM
6.	Dr. R.P.Singh	Professor, SCWM
7.	Dr.S.C.Katiyar	Professor, SCWM
8.	Dr. G.R. Gupta	Associate Professor, SCWM
9.	Dr. S.K. Uttam	Associate Professor, SCWM
10.	Dr. Kaushal Kumar	Associate Professor, SCWM
11.	Dr. Sarvesh Kumar	Associate Professor, SCWM
12.	Dr. U.D.Awasthi	Assistant Professor, SCWM
13.	Dr. A.K.Katiyar	Assistant Professor, SCWM
14.	Dr.Mohd.Zafar Siddiqui	Associate Professor, Agronomy
15.	Dr. A.K.Tripathi	Assistant Professor, Agronomy
16.	Dr. D.K. Tripathi	Assistant Professor, Crop Physiology
17.	Dr. Rakesh Kr.Singh	Assistant Professor, Agril.Economics & Statistics

After warm welcome by Incharge of the Deptt. to all participants in the meeting the achievements and compliance report was presented for various research programmes. During meeting, projects were presented one after the other by relevant teachers given as under :

Project No.– 1 : The experiment was conducted by Dr. S.K. Uttam related to Ph.D. trial. The project was approved and allowed to continue in Rabi 2015-16 for confirmation of the findings.

Project No. – 2 : M.Sc.(Ag.) trial was presented by Dr. P.N. Yadav. The project was approved and allowed to continue in Rabi 2015-16 for confirmation of the findings..

RESEARCH ACHIEVEMENTS OF RABI, 2015-16

1. Among row spacing, 40 cm spacing registered significantly more seed and stover yields 60 cm row spacing, but harvest index was recorded significantly higher under 60 cm spacing than 40 cm row spacing during both the years. Bio-fertilizer brought about signif increase in seed and stover yields as well as harvest index of chickpea. Rhizobium cult PSB treatment resulted in significant higher seed yield and harvest index over other fertilizer, but treatments of Rhizobium culture + PSB and PSB recorded at par with each in stover yield during both the years. Seed and stover yields as well as harvest ind chickpea increased significantly with increasing levels of nitrogen, maximizing with N/ha during both the years. The interaction between treatment factors was not significant in any case on seed and stover yields as well as harvest index during bo years.
2. Linseed variety Ruchi produced highest seed and stover yields followed by variety Sh while minimum values were recorded with variety Padmini during both the Application of 75% RDN + 25% through vermicompost + 30kg S/ha prove their superi respect of seed and stover yields over other fertility levels under test. The interaction b treatment factors was not found significant.
3. Seed yield of linseed variety V_3 (Shekhar) produced maximum and its was signi superior to variety V_1 (T-397) and variety V_2 (Padmini) found superior over V_1 (Among the moisture conservation practices, its was observed that M_3 moisture conse practice was produced significantly more seed yield over M_1 moisture conservation during both the years. Stover yield of linseed variety Shekhar (V_3) proved significantly over V_2 (Padmini) and V_1 (T-397) in both the years. Similarly, variety Padmini re significantly better than T-397 in stover yield. On the other land, inclusion of organic mulch (M_3) showed significantly better than M_1 (farmer practice) and M_2 (dust mulch both the years of study.

Project No. 1

Name of Project: **Response of row spacing, bio-fertilizer and nitrogen levels on chickpea (*Cicer arietinum L.*) in Central plain zone of Uttar Pradesh**

Objectives:

1- To study the effect of row spacing, bio-fertilizer and levels of nitrogen on growth, yield attributes and yields of chickpea.
2- To find out the effect of various treatments on total water use, water use efficiency and root development of chickpea.
3- To find out the effect of various treatments on nutrient uptake and quality of chickpea.
4- To work out the economics of various treatments.

Location : Soil Conservation and Water Management Farm

Year of commencement: Rabi 2014-15

Treatment :

A. Row spacing – 2 (Main plots)
1. 40 cm
2. 60 cm

B. Bio-fertilizer - 3 (Main plots)
1. Rhizobium culture (Rhizobium *leguminosarum*)- seed coating @20 g/kg seed
2. PSB (Phosphate solubilizing bacteria) @2.5kg/ha in soil
3. Rhizobium *culture* + PSB

C. Nitrogen levels - 3 (Sub-plots)
1. 10 kg/ha
2. 20 kg/ha
3. 30 kg/ha

Note- Uniform dose of P_2O_5, K_2O & S @ 60, 20 & 20 kg/ha, respectively

Design : The experiment will be laid out in a split plot design keeping row spacing and bio-fertilizer in main plots as well as nitrogen levels in sub-plots with three replications.

Variety : Pragati

Plot size : Gross plot size - 5.0 m × **4.8 m** = 24.0 m^2

Net plot size – 40 cm row spacing – 4.00 m × 3.20 m = 12.80 m^2

60 cm row spacing – 4.00 m × 2.40 m = 09.60 m^2

Results already achieved : Basic information's

	2014-15	**2015-16**
Date of Sowing	28-10-2014	29-10-2015
Date of harvesting	08-03-2015	07-03-2016
Rainfall during cropping period (mm)	112.6	62.1

Table – 1: Effect of row spacing, bio-fertilizer and nitrogen levels on seed yield, stover yield and harvest index of chickpea

Treatment	Seed yield (q/ha)		Stover yield (q/ha)		Harvest index (%)	
	2014-15	2015-16	2014-15	2015-16	2014-15	2015-16
Row spacing						
40 cm	15.74	12.70	21.98	18.42	41.64	40.73
60 cm	**13.16**	**10.65**	**17.24**	**14.36**	**42.97**	**42.45**
SE(d)	0.30	0.27	0.45	0.46	0.21	0.15
C.D. (P=0.05)	0.66	0.60	1.01	1.02	0.47	0.33
Bio – fertilizer						
Rhizobium culture (seed coating @20g/kg seed)	12.68	10.37	17.86	15.13	41.51	40.66
PSB @2.5 kg/ha in soil	14.73	11.95	20.18	16.75	42.21	41.65
Rhizobium culture+ PSB	**15.73**	**12.71**	**20.80**	**17.27**	**43.19**	**42.46**
SE(d)	0.36	0.33	0.55	0.57	0.26	0.19
C.D. (P=0.05)	0.81	0.73	1.23	1.28	0.58	0.42
Nitrogen levels- kg ha^{-1}						
10	12.18	9.94	17.04	14.45	41.66	40.75
20	14.74	11.87	20.11	16.68	42.34	41.66
30	**16.42**	**13.22**	**21.69**	**18.02**	**42.91**	**42.36**
SE(d)	0.70	0.62	0.76	0.64	0.27	0.26
C.D. (P=0.05)	1.44	1.28	1.57	1.32	0.56	0.54

Proceedings of Research Advisory Committee Meeting Rabi 2015-16 held on 20.10.2015, Deptt. of Soil Science & Agril. Chemistry, C.S.A.Univ. of Agril. & Tech., Kanpur

At the outset of the RAC meeting Dr. D.D.Tiwari, Professor and Head welcomed JDR/ Coordinator Dr. H.G. Prakash, Director Extension Dr. Dhoom Singh' all the HOD's and Faculty Members present in the meeting. The following were present in the meeting.

1. Dr. D.D.Tiwari, Professor and Head
2. Dr. H.G.Prakash, JDR/Coordinator
3. Dr. Dhoom Singh, Director Extension
4 Dr. R.C.Nigam, Professor
5. Dr. Ravindra Kumar, Professor, Soil Salinity
6. Dr. R.K.Pathak, Asstt. Prof.
7. Dr. S.B.Pandey, Asstt.Prof.
8. Dr. Sushil Dimree, Asstt. Prof.
9. Dr. R.N.Dixit, Asstt. Prof.
10 Dr. R.K.Pandey, Asstt. Professor
11. Dr. A.K.Dubey, Incharge, Horticulture
12. Dr. Radhey Shyam Singh, Professor, Entomology
13. Dr. S.C.Katiyar, Professor, Soil Conservation and Water Management
14. Dr. Devendra Singh, Asstt. Prof., Soil Salinity
15. Dr. Rajvir Singh, Asstt.Prof., E.B.R.
16. Sri K.N.Singh, Asstt.Prof.
17. Dr. Ved Ratan, Professor/ Incharge, Plant Pathology
18. Dr. Mohd. Zafar Siddiqui, Assoc. Prof. Agronomy
19. Dr. D.K.Tripathi, Asstt.Prof., Crop Physiology
20. Dr. Lallu Singh, Professor, Agril. Biochemistry
21. Dr. P.N.Yadav, Professor and Incharge, SCWM
22 Dr. G.R.Gupta, Assoc.Prof. SCWM

Dr. Tiwari present the research achievement of the department before the house. He emphasized about judicious and balanced use of fertilizer alongwith organic manure for sustainable agriculture production with maintaining soil heaith. He also informed to the house about three AICRP project running in the department. He also focused on soil health card. Dr. Tiwari answered to Dr. H.G. Prakash that 15 districts have been completed with regard to delineation of micro & secondary nutrient status of the soil under AICRP (MNS).

All India Network Project on Pesticde Residues:

Dr. R.K.Pandey, Asstt. Residue Analyst presented the programme of the project. Dr. Ved Ratan, Officer Incharge and HOD Plant Pathology suggested that clubbing of pesticide should be done in the same crop rather than a separate experiment. Dr. R.S.Singh, Professor Entomology answered him that since it is ICAR Scheme and all the research proposal approve during workshop, therefore, we can not change the mandate of the project. After few more discussions among the faculty members experiments No.1-14 approved without any modification.

Soil Testing Scheme

Dr. M.R.Pandey, Asstt. Prof. presented the work of soil testing scheme. During discussion Dr. D.D.Tiwari informed to house about Soil Health Card which is being allotted to our University by ICAR/State Govt. Programme approved with thorough discussion.

Soil Fertility:

Dr. R.N.Dixit presented the scheme for two experiments. Dr. H.G. Prakash suggested that 5 year data should be clubbed for both the experiments. Dr. Dixit reported to the house about the poor performance of paddy crop during kharif, 2015. Dr. H.G. Prakash suggested that to make a committee and visit the experiments to prove whether it is liable to be failed. Programme 1 and 2 approved.

Soil Survey Scheme:

Dr. R.N.Dixit presented programme of soil survey scheme. In Project No.1, it was suggested by the house that date of sowing and crop variety must be mention and in Project No.2 mention the initial status of S & Zn only. With these suggestion both the project were approved.

Microbiology

Dr. R.N.Dixit presented project No.1 & 2. Both were approved.

IFFCO Chair

Dr. D.D.Tiwari, Prof. & Head explained project no.1 to 4. Dr. H.G. Prakash, JDR/Coordinator suggested to conclude project No.1 & 2 and to continue project no.3. Project no.1-4 approved with these remark.

Quality Testing of Fertilizers, Pesticides, manures and allied products

Project 1 and 2 approved as such.

Adhoc Project: AICRP (MNS)

Presented by Dr. D.D.Tiwari, Professor & Head. Approved as such by the members of Advisory Committee. Project No.1 to 5 approved as such by the house.

Teaching:

Project no.1 & 2 presented by Dr. R.K. Pathak, Asstt. Prof. The projects related with the thesis of M.Sc.(Ag.) After few suggestions by the house both were approved.

AICRP on Management of Salt Affected Soils and Use of Saline Water in Agriculture

Research Programme of the project presented by Dr. Ravindra Kumar, Professor/PI of the project. All eight experiments are ICAR originated so that discussed in the meeting & approved as such by the house.

Meeting was ended with vote of thanks proposed by Dr. D.D.Tiwari, Professor and Head, Deptt. of Soil Science & Agril. Chemistry to each participant presented in the meeting.

27/11/15

(D.D.Tiwari)
Professor & Head

Deptt. of Soil Science & Agricultural Chemistry
C.S.A.University of Agriculture & Technology,Kanpur

No. 750 /15 Dated: 27-11-15

Copy forwarded for information and necessary action:

1. Technical Secretary to V.C. for kind information of the Hon'ble Vice Chancellor.
2. Dean, Faculty of Agriculture.
3. Director, Agriculture Experiment Station.
4. All Professor and Head of the Department.
5. Concerned Scientist of the Department.

27/11/15

(D.D.Tiwari)
Professor & Head
27/11/15

Section of Vegetable Science, Kalyanpur, Kanpur

No: VGS/ /2016 Dated: September , 2016

Proceedings of the RAC Meeting held on Tuesday, September 20th, 2016 under the chairmanship of the Director AES, CSAUA&T, Kanpur.

At the outset Officer-in-charge Vegetable Science welcomed to the chairman Dr. H.G. Prakash Director AES, & Heads of other discipline and members of the RAC. Officer-in-charge represented salient research achievement of the section for the *Rabi* session of 2015-16.The research programme of different vegetable and seed spices crops presented by the respective crop scientists for necessary discussion-

- Prof. & Head, Department of Physiology Dr. Lallu has raised that what are the yield contributing characters responsible for higher yield on table pea early group. Officer-in-charge of section has expressed about yield contributing characters in early maturity group of table pea. CV of different achievements of table pea should also be corrected for accurate performance of the variety. A fresh set of crossing programme in table pea of resistant group should be started during current Rabi season. (Action- Dr. P.K. Tiwari)
- In project No 9 of SVT of fenugreek Chairman has suggested for location trial at different Regional Research Centers of the University. (Action- Dr. Sanjeev Kr.Singh)
- The seed production of Bhima Super of Onion was taken during 2015-16 under AINRPOG at Kalyanpur centre. The produced seed of the Bhima Super should be quantify and handled over to the Farm Superintended for the popularly of the variety. (Action- Sri Saurabh Dixit, SRF, AINRPOG)
- Under AICRP (Potato) research programme-- the date of sowing and harvesting, name of variety should also be depicted in agronomical trial of potato. The specialty character (Red skinned potato) should be demonstrated at selected farmers field. (Action-Sri. U.C. Mishra & A.K. Yadav ,SRF)
- Under Plant Pathology programme of AICRP (Potato) one Entomologist should be engaged for taking observations on potato crop. (Action- Dr. Ramesh Singh & Prof. & Head, Deptt. Of Entomology)

Remaining projects were discussed and approved without modification.
The Vote of thanks was given by the Dr. D.P. Singh SPO Vegetable Section.

Encl: List of Participant

27/9/16
(A.K. Dubey)
Officer-in charge

Director, AES
CSAUA&T, Kanpur

No: VGS/ /2016 Dated: Above

Copy to the fallowing:-

01. Director, AES
02. Prof. & Head, Department Entomology
03. Technical Secretary to the Vice Chancellor for information of Hon'ble Vice Chancellor.

27/9/16
(A.K. Dubey)

208

चन्द्रशेखर आजाद कृषि एवं प्रौद्योगिक विश्वविद्यालय, कानपुर – 208002

Chandra Shekhar Azad University of Agriculture &Technology, Kanpur 08002

Directorate of Research शोध निदेशालय

NO 454 /DR/ 2016

Dated: 03/09/2016

Circular

Departmental Research Advisory Committee and Zonal Research Extension Advisory Committee meetings will be held as per schedule given below to discuss and finalize research programmes for ***Rabi* 2016-17**. The scheduled of dates should be adhered to.

S.N	Faculty/Discipline	Date & Time
A.	**Faculty of Agriculture**	
1	Vegetable Science	20.09.2016 at 10:30 AM
2	Horticulture	21.09.2016 at 10:30 AM
3	Genetics and Plant Breeding	22.09.2016 at 10:30 AM
4	Agronomy	23.09.2016 at 10:30 AM
5	Entomology	26.09.2016 at 10:30 AM
6	Crop Physiology	27.09.2016 at 10:30 AM
7	Seed Science & Technology	28.09.2016 at 10:30 AM
8	Soil Science and Agril. Chemistry	29.09.2016 at 10:30 AM
9	Plant Pathology	30.09.2016 at 10:30 AM
10	**ZREAC of Bundelkhand Bharari Jhansi**	03.10.2016 at 10:30 AM
11	Soil Conservation & Water management and Forestry	05.10.2016 at 10:30 AM
12	Agril. Biochemistry	06.10.2016 at 10:30 AM
13	**ZREAC South Western Semi Arid Zone, Mainpuri**	07.10.2016 at 10:30 AM
14	Agril. Economics & Statistics	13.10.2016 at 10:30 AM
15	Agriculture Extension	14.10.2016 at 10:30 AM
16	Animal Husbandry and Dairying	17.10.2016 at 10:30 AM
17	**ZREAC Central Plain Zone, Dileepnagar**	18.10.2016 at 10:30 AM
B.	**Faculty of Home Science**	
1	Food Science & Nutrition	20.10.2016 at 10:30 AM
2	Family Resource Management	
3	Extension Communication & Management	
4	Human Development	
5	Textile & Clothing	
C.	**Faculty of Agril. Engineering & Technology**	22.10.2016 at 10:30 AM

21/9/16

(H.G. Prakash)
Director Research

Copy forwarded to following for information and necessary action.

1. HoDs of all Departments with request to please inform all the scientists working on subject concern along with scientists of the KVKs.
2. Incharges Rabi Cereal, Oilseed, Pulse and Vegetable Sections
3. Officer Incharge of all NARP Research Stations
4. Project Incharge AICRP Tobacco, Linseed Mauranipur, Linseed Kanpur
5. Director Seed & Farms
6. Director Extension with request to please inform to Programme Coordinator of all KVKs of the Zone to ensure their participation in ZREAC meetings.
7. Dean, Faculty of Agriculture
8. Dean, Faculty of Home Science
9. Dean, Faculty of Engineering
10. T S to V C for kind information of Hon'ble Vice Chancellor.

21/9/2016

(H.G. Prakash)
Director Research

Department of Agricultural Biochemistry

C.S. Azad University of Agriculture and Technology, Kanpur

Proceedings of Research Advisory Committee ,Meeting

Director of Reseach ,
C.S.A.U.,Kanpur

No.ABC-517/2016
09.11.2016

Research Advisory Committee ,Meeting for Rabi-2016-17 of the department, chaired by The Director Research, was held on 08.11.2016.The following faculty attended the meeting:

1	Dr.Hargyan Prakash	Director Research
2	Dr Madhu Vajpeyi	HOD,Agrl. Biochem.
3	Dr Mukesh Mohan	Prof , Agri Biochem
4	Dr Lallu Singh	ProfAgri Biochem
5	Dr. Sarvendra Kumar Gupta	HOD,GPB
6	Dr.D.P.Singh	JDR
7	Dr.R.K. Pandey	Asst.Prof.Office of DIR
8	Dr.S.P. Kushwaha	Asst. Prof Crop Physiology
9	Dr.Nand Kumar	Asst. Prof. Agrl. Biochem.
10	Er. P.K. Bisaria	Asst. Prof. Agrl. Biochem.
11	Dr. Lokendra Singh	EBL
12	Dr SB Pandey	Assist Prof Soil Sci

Results of previous years experiments were displayed and discussed. New programs on biochemical aspects of some crops were discussed and finalized. All the programs were approved as such.

(Madhu Vajpeyi)

HOD

No & dated as above
C.C.to
Dean , College of Agriculture for information.

(Madhu Vajpeyi)
HOD

Proceeding of Research Advisory Committee Meeting of Agronomy: *Rabi* – 2016

To finalize the technical programme of *rabi* 2016, Research Advisory Committee Meeting of Agronomy discipline was held on dated 27.10.2016 in the committee room of the Department of Agronomy of this university. The following Officers / Scientist were present in the meeting.

S. No.	Name	Designation
1.	Dr. H.G.Prakash	Director, Agricultural Experiment Station
2.	Dr. Karam Husain	Prof. & Head, Dept. of Agronomy
3.	Dr. P.N.Katiyar	Prof. & Head, Horticulture
4.	Dr. S.P.S.Tyagi	Prof. & Head, A.H. & Dairying
5.	Dr. C.L.Maurya	Prof. & Head, Dept. of Seed Science & Tech.
6.	Dr. S.K.Gupta	Professor & Head G.P.B.
7.	Dr. D.D.Yadav	Professor, Dept. of Agronomy
8.	Dr. Sanjeev Kumar	Professor, Dept. of Agronomy
9.	Dr. R.A.Yadav	Professor, EBR Section
10.	Dr. Ram Pyare	Professor, Dept. of Agronomy
11.	Lallu Singh	Professor Bio Chemistry
12.	Dr. D.P.Singh	Joint Director Research
13.	Dr. A.K.Dubey	In charge Veg. Science
14.	Dr. G.S.Parihar	Paddy project G.P.B.
15.	Dr. V.K.Verma	Asso. Professor, Dept. of Agronomy
16.	Dr. S.K.Srivastava	Asso. Professor, Oil Seeds Section
17.	Dr. Naushad Khan	Asso. Professor, Dept. of Agronomy
18.	Dr. Ashish Kumar Srivastava	Asso. Professor, Dept. of Agronomy
19.	Dr M Z Siddique	Asso. Professor, Dept. of Agronomy
20.	Lal Mani	Asstt. Professor, Dept. of Agronomy
21.	Dr. R.K.Pandey	Asstt.Professor Directorate of Research
22.	Mr. Vishram Singh	Asstt. Professor, Dept. of Agronomy
23.	Kamlesh Singh	Jr Agronomist, AICRP-Linseed
24.	Dr. Uma Shankar Tiwari	Jr Sci., Soil and Agri. Chemistry (AICRP-IFS)
25.	Dr. S.P.Kushwaha	Asstt. Professor, Crop physiology
26.	Dr. Rajiv	Jr. Agronomist (Veg.)
27.	Dr. S.B.Pandey	Agricultural chemist – SAC
28.	Dr. A.K.Tripathi	Asstt. Professor, Dept. of Agronomy
29.	Dr. Hari Ram	Jr. Agronomist, AICRP on Rice
30.	Dr. U.C.Mishra	Asstt. Professor/Jr. Agronomist (Potato)
31.	Dr. Rajveer Singh	Asstt. Prof/Wheat Agronomist Rabi cereal
32.	Dr. Mohd. Ashlam	Crop Physiology

33.	Dr Y K Singh	Jr Agronomist, AICRP-IFS
34.	Dr. Jitendra Singh	Agronomist, OFR
35.	Dr. C.B.Singh	Field Assistant (Agro meteorology)
36.	Vijay Dubey	SRF, FAS AL, Project
37.	Dr A P Dubey (28.10.2016)	Assistant Professor, Agro meteorology
38.	Sri Raj Veer Singh (28.10.2016)	Technical Officer/Assistant Professor, GKMS

Meeting was started with the welcome address of Professor and Head Department of Agronomy, Dr. Karam Husain. He welcomed Director, AES (Chairman) as well as all the participants of different departments of the university. While welcoming, Dr. Husain emphasized to take up need based research considering the importance of resource conservation, residue recycling and climate change. He stressed that burning of crop residue create hazard to the soil and pollute the environment, hence it should be banned. He emphasized the need of knowing the nutrient status of the soil before recommending the doses of fertilizer for any crop.

Dr. H.G. Prakash, Director, AES said that only variety development will not be sufficient achievement unless the whole package of practices is developed and made available to the farmers. He narrated about the review meeting which was conducted at ATARI during last three days in which the judicious use of natural resources management was highlighted by the scientists.

At the end chairman advised the scientist to pool their wisdom in depth with enthusiasm and do in depth discussion to formulate the strategies for elevating sustainable agriculture production technologies. He showed confidence on scientist of varied back grounds, experience and knowledge to address the matters that is lying before the nation.

Review of previous meeting :- The proceeding of previous RAC – Rabi – 2015 meeting held on 03.11.2015 and circulated to the members vide letter no. AGR/EE 557A/2015 dated 27.11.2015 was reviewed. Since there was no communication received from any members hence the proceeding was confirmed.

Discussion on Research programmes :- Non-plan research programme planned by M.Sc. Ag. and PhD students under the supervision of faculty members were taken up first. The entire research programme was presented on power point by the concerned faculty member/scientist and was discussed at length. The decision taken is here as under.

Exp. No. 1 – Effect of sowing methods N-level and scheduling irrigation on growth and yield of late sown wheat

Experiment was discussed and approved.

Acton – Dr. Sanjeev Kumar

Exp. No. 2 – Studies on the effect of micronutrients (Sulphur & Boron), farm yard manure and rhizobium culture along with NPK doses in chickpea (*Cicer aretinum* L.)

This experiment was conducted by M.Sc. student under the supervision of Dr. V.K.Verma. The result of the experiment was presented and discussed. The experiment was concluded.

Acton – Dr. V.K.Verma

Exp. No. 3 – Effect of micro nutrients "Sulphur, Zinc, Iron, and Boron" on root and shoot dynamics and productivity of Wheat (*Triticum aestivam* L.)

This experiment was conducted by M.Sc. (Ag.) student under supervision of Dr. V.K.Verma. The result of experiment was presented and discussed. The experiment was concluded.

Acton – Dr. V. K.Verma

Exp. No. 4 – Agronomic bio-fortification in wheat varieties with zinc and iron through fertilization strategy

This experiment was conducted by Ph.D. student under the supervision of Dr V.K.Verma. The result of the experiment was discussed and experiment will be continued.

Acton – Dr. V.K.Verma

Exp. No. 5 – Impact of super absorbent polymers on irrigation requirement in winter maize

This is a new experiment planned for M.Sc. (Ag.) student by Dr. V.K.Verma. Experiment was discussed and approved.

Acton – Dr. V.K.Verma

Exp. No. 6 – Integrated Nutrient Management on productivity and quality of mustard

This is a new experiment planned for M.Sc. (Ag.) student by Dr. D.D.Yadav. The experiment was discussed and approved.

Acton – Dr. D.D.Yadav

Exp. No. 7 – Effect of bio-fertilizer in enhancing the productivity of chickpea under irrigated condition

This is a new experiment planned for M.Sc. (Ag.) student by Dr. D.D.Yadav. The experiment was discussed and approved.

Acton – Dr. D.D.Yadav

Exp. No. 8 – Study on tank mix combination of herbicides for controlling mix weed flora in irrigated weed

This is a new experiment planned for M.Sc. (Ag.) student by Dr. Naushad Khan. The experiment was discussed and approved.

Acton – Dr. Naushad Khan

Exp. No. 9 – Study of irrigated use of organic and inorganic fertilizers in baby corn (*Zea mays* L.) and their residual effect on succeeding wheat (*Triticum aestivam* L.)

This experiment was conducted by Ph.D. student under the supervision of Dr. A.K.Tripathi. The result of the experiment was presented and discussed and the experiment will be continued.

Acton – Dr. A.K.Tripathi

Exp. No. 10 – Response of vegetable pea to organics under organic farming

This experiment was started by Dr. A.K.Tripathi from *Rabi* 2015 – 2016. The result of the experiment was discussed and the experiment will be continued.

Acton – Dr. A.K.Tripathi

Exp. No. 11 – Response of chickpea (*Cicer arietinum* L.) to symbiotic and organics under organic farming

This experiment was started by Dr. A.K.Tripathi from *Rabi* 2015 – 2016. The result of the experiment was discussed and the experiment will be continued.

Acton – Dr. A.K.Tripathi

Exp. No. 12 – Organic seed production of chickpea (*Cicer arietinum* L.) under organic farming

This is a new experiment planned by Dr. A.K.Tripathi from *Rabi* 2016 – 2017. The experiment was discussed and approved.

Acton – Dr. A.K.Tripathi

Exp. No. 13 – Studies on the inter-cropping of wheat, mustard, linseed, chickpea in raised bed and flat bed under Inner wheel pattern in different ratio

This experiment was conducted by M.Sc. (Ag.) student under the supervision on Dr. Ram Pyare.

Acton – Dr. Ram Pyare

Exp. No. 14 – Assessment of varieties and nutrient management on productivity of Wheat (*Triticum aestivam* L.)

This is a new experiment planned for M.Sc. (Ag.) student by Dr. Ram Pyare. The experiment was discussed and approved.

Action: Dr. Ram Pyare

Exp. No. 15 – Performance of different bio and chemical seed treatment for broad bean (*Vecia feba*) varieties

This is a new experiment planned for M.Sc. (Ag.) student by Dr. Ram Pyare. The experiment was discussed and approved.

Action: Dr. Ram Pyare

Exp. No. 16 – Effect of Vermi-compost, FYM, Azotobactor and inorganic fertilizer on production and productivity of irrigated wheat (*Triticum aestivam* L.)

This is a new experiment planed for M.Sc. (Ag.) student by Dr. Vishram Singh from Rabi 2016-17. The experiment was discussed and approved.

Action: Dr. Vishram Singh

Exp. No. 17 – Integration of aromatic plants in the existing cropping system to mitigate the effect of climatic change

This is a new experiment planed for M.Sc. (Ag.) student by Dr. A.K.Srivastava from Rabi 2016-17. The experiment was discussed and approved.

Action: Dr. A.K.Srivastava

Exp. No. 18 – To study the effect of iron, molybdenum and boron on productivity, profitability and quality of chickpea verities under irrigated condition

This experiment was started by Dr. Mohd. Aslam from *Rabi* 2015-16. The result of the experiment was discussed, the experiment will be continued.

Action: Dr. Mohd. Aslam

Wheat and Barley (plan & non plan)

Total seventeen experiments were presented by Dr. R.A.Yadav wheat Agronomist. He presented 4 experiments in plan (ICAR) and six in non plan wheat as well as seven experiments of barley (ICAR).

Wheat (Plan)

Exp. No. 1 – Performance of new timely sown wheat genotypes under restricted irrigation condition

The experiment was discussed and approved.

Action: Wheat Agronomist

Exp. No. 2 – Performance of new wheat genotypes at different Nitrogen levels under rainfall conditions.

Result of experiment discussed and experiment will be continued.

Action: Wheat Agronomist

Exp. No. 3 – Performance of the wheat bio-fertilizer (WB) genotype for timely sown under irrigated conditions.

Result of the experiment discussed.

Action: Wheat Agronomist

Exp. No. 4 – Management of lodging and yield maximization using nutrient expert

Experiment was discussed and experiment will be continued

Action: Wheat Agronomist

Wheat (Non Plan)

Exp. No. 1 – To study efficacy of WCPL – 15 WDG against weeds of wheat crop

Result of the experiment was discussed and experiment concluded.

Action: Wheat Agronomist

Exp. No. 2 – Bio-efficacy analysis of carfentrazone ethyl 20% + sulfosulfuron 25% WG in wheat crop

Result of the experiment was discussed and experiment will be continued.

Action: Wheat Agronomist

Exp. No. 3 – Bio-efficacy analysis of carfentrazone ethyl 40% DF in wheat crop

Result of the experiment was discussed and experiment will be continued.

Action: Wheat Agronomist

Exp. No. 4 – To evaluate the efficacy of Halauxifen methyl 6.95% W/W + Pyroxsulam 25% W/W/WG for cross spectrum weed control in wheat (*Triticum aestivam* L.).

Result of the experiment discussed and experiment will be continued.

Action: Wheat Agronomist

Exp. No. 5 – To study herbicides' combination for control of complex weed flora in wheat

Result of the experiment was discussed and experiment concluded.

Action: Wheat Agronomist

Exp. No. 6 – Effect of Nitrogen and weed control management practices on productivity of wheat

Result of the experiment discussed and experiment concluded.

Action: Wheat Agronomist

Barley (Plan)

Exp. No. 1 – Weed management in barley

The result of the experiment was discussed and experiment concluded.

Action: Barley Agronomist

Exp. No. 2 – Integrated nutrient management of barley

The result of the experiment was discussed and experiment will be continued.

Action: Barley Agronomist

Exp. No. 3 – Maximization of barley yield using PGRs and N levels

The result of the experiment was discussed and experiment will be continued.

Action: Barley Agronomist

Exp. No. 4 – Standardization of row spacing in feed barley.

The result of the experiment discussed and experiment will be continued.

Action: Barley Agronomist

Exp No. 5 – Improving barley productivity through the use of organic manure and chemical sprays in NEPZ

The experiment was discussed and approved.

Action: Barley Agronomist

Exp. No. 6 – Response of new feed barley genotypes of different N levels under irrigated timely sown conditions.

The experiment was discussed and approved.

Action: Barley Agronomist

Exp. No. 7 – Response of new feed barley genotypes of different dates of sowing under irrigated timely sown conditions.

The experiment was discussed and approved.

Action: Barley Agronomist

Findings of the experiments

1. On the basis of two years' study, WCPL – 15 @ 400 g/ha commercial dose management the weeds in wheat properly and recorded maximum grain yield of Wheat (38.56 q/ha) and B:C ratio (2.21).

2. On the basis of two years' studies, Altantis 400 g/ha was proved an alternative of weed free treatment (42.30 q/ha) for the management weeds in wheat.

3. On the basis of two year studies, application of N @ 150kg/ha recorded significantly higher grain yield of wheat (41.94 q/ha) and NMR (Rs 50,755/ha) , and numerically the highest B : C ratio (2.85) as compared to 120 kg/ha N . Among the herbicides the Atlantis 400 g/ha proved best in comparison to met sulfuron, 2,4 – D, sulfosulfuron, pinoxaden and clodinafop+ met sulfuron.

4. On the basis of three years' studies, Metsulfuron + Carfentrazone (Readymix) @ 20 g/ha + NIS 0.2% managed the weeds in barley properly and gave higher grain yield (38.38 q/ha).

Integrated Farm System Research

Technical programme of Integrated Farming System Research was presented by Dr Y K Singh, Jr Agronomist, AICRP-IFS. He presented the results of different experiments including OFR as well as IFS model established at main centre. The survey of district Banda was also completed during 2015-16. The results of following experiments were presented:

Exp. No. 1 – Identification of biological efficient and profitable cropping system in central plain zone of U.P.

The result of the experiment discussed and experiment will be continued.

Action: Scientist of AICRP-IFS

Exp. No. 2 – Permanent trial on integrated nutrient supply system in Rice wheat cropping system.

The result of the experiment discussed and experiment will be continued.

Action: Scientist of AICRP-IFS

Exp. No. 3 – Development of farming system modules for central plan zone of U.P.

The result of the experiment discussed and experiment will be continued.

Action: Scientist of AICRP-IFS

On Farm Research

Exp. No. 1 – (OFR – 1) On farm crop response to plant nutrients in predominate cropping system and their impact on crop livestock human continuum.

The result of the experiment was discussed and experiment will be continued.

Action: Scientists of AICRP-IFS

Exp. No. 2 – (OFR – 2) Diversification of existing farming systems under marginal house holds conditions.

The result of the experiment was discussed and experiment will be continued to see the impact.

Action: Scientists of AICRP-IFS

Exp. No. 3 – (OFR – 3) On farm evaluation of farming systems modules for improving the profitability of small and marginal farmers.

The result of the experiment discussed and experiment will be continued to see the impact.

Action: Scientists of AICRP-IFS

Findings of the experiments and survey

1. Maize+Blackgram-Potato-Onion crop sequence i.e. T_8 was found biologically efficient and most productive over rice as well as other maize based cropping systems by giving 30.79 t/ha rice equivalent yield followed by Maize–Garlic-Green gram (G+R) (29.44 t/ha$_{-1}$) cropping systems i.e T_9. The lowest REY (10.53 t/ha) was obtained under Maize-Wheat cropping system (T_4).
2. During 2015-16, application of fertilizer @ 50% RDF + 50% N substitution with FYM produced maximum grain yield of rice (4700 kg/ha) and Wheat (4694 kg/ha) thereby producing the highest system productivity (9394 kg/ha) of rice-wheat crop system, might be due to improvement in physio-chemical properties of soil because of substitution of FYM.
3. Three components (i.e. crop production, dairy and horticulture) are running on one hectare land allotted for IFS model. During 2015-16, a total net income of Rs. 1,30342.00 was recorded from on station model which included Rs. 56,642.00 from crop production unit, Rs.72,770.00 from Dairy Unit and Rs. 930.00 from Horticulture unit.
4. Seed yield of Paddy (6821 kg/ha) and Wheat (2774kg/ha) was recorded the highest under T_6 (NPK+Zn) followed by recommended dose of NPK (T_5). The net monetary return (Rs. 70081 /ha) and B:C ratio (2.09) were also recorded the highest with the same treatment i.e. NPK+Zn followed by T_5.
5. Among four existing farming systems prevailed in 24 households, the highest net income (Rs. 111713.00) was registered under Crop + Dairy + Goat having 0.7 ha average land holding followed by crop + Dairy (Rs. 97929.00) practiced on 0.8 hectare area during 2015-16.
6. After Constraints analysis, interventions in crop production, Livestock and Processing was made along with promotion of as Optional module. The average House hold income of Rs. 122205 and Rs. 106411 was obtained in first year and second year after intervention from average land holding of 1.05 ha which was 67% higher than bench mark.
7. The characterization survey was made for District Banda which are summarized as follows
   - Climate: Arid with average annual rainfall of 902mm.
   - Soil type: Heavy, Sandy loam, Loamy Soil and Light soil.
   - Marginal: 156457, Small: 54588, Medium: 33865, Large: 18855.
   - Cow: 386718, Buffalo: 166749, Goats151273
   - Average Holding Size: 2.19
   - Average Age: 56 years
   - Average family size: 8
   - Average no of Farm fragments – 1.41
   - Major Cropping pattern: Paddy – wheat, Sorghum-Wheat Urd- wheat/mustard Urd-Potato, Fallow- wheat, Fallow – Mustard
   - Dairy Animal: Mainly local cow, Buffaloes and Goat.
   - The predominant farming systems in the district are: (a)- Crops, (b)-Crops + Dairy, (c)- Crops + Dairy+ income from other sources (wages, petty business etc.)

Vegetable (ICAR)

Dr. Rajiv, Jr. Agronomist vegetable (plan) presented results of two projects in which one experiment has been concluded and one will be continued.

Exp. No. 1 – Integrated nutrient management in Garden Pea

The result of the experiment discussed and the experiment has been concluded.

Action: Jr. Agronomist Vegetable

Exp. No. 2 – Organic farming in coriander radish sequence.

The result of the experiment discussed and experiment will be continued.

Action: Jr. Agronomist Vegetable

Vegetable (Plan)

Dr. U.C. Mishra, Junior Agronomist (Potato) presented conducted 4 trails during 2015 – 16. He also discussed the result of two state non plan projects.

Exp. No. 1 – Develop site specific N.P.K. requirement.

The result of the trail presented and discussed.

Action : Jr. Agronomist (Potato)

Exp. No. 2 – Optimizing phosphorus requirement of potato under current scenario of P use by the farmer.

The result of the trail presented and discussed.

Action : Jr. Agronomist (Potato)

Exp. No. 3 – Response of potato to zinc application.

The result of the trail presented and discussed.

Action: Jr. Agronomist (Potato)

Exp. No. 4 – Development of micro nutrient formulation for potato.

The result of the trail presented and discussed.

Action: Jr. Agronomist (Potato)

Exp. No. 5 – Role of Boron in reducing tuber cracking in processing variety Kufri Chipsona – 3

This is a new experiment planed by Dr. U.C. Mishra, Jr. Agronomist (Potato). The experiment was discussed and approved.

Action: Jr. Agronomist (Potato)

State Non – Plan

Exp. No. 1 – Effect of row spacing on seed yield of coriander crop.

The result of the experiment discussed and the experiment will be continued for 2016 – 17.

Action : Jr. Agronomist (Vegetable)

Exp. No. 2 – Integrated nutrient management in Rajmash (French Bean).

This is a new experiment planed by Dr. U.C. Mishra. The experiment was discussed and approved.

Action: Jr. Agronomist (Vegetable)

Agro meteorology (ICAR) /FASAL/GKMS

Programme of Agro meteorology (ICAR) /FASAL/GKMS could not be presented on 27 October, 2016 as Dr A P Dubey and Sri Raj Veer Singh were on official tour as per direction of IMD, Pune, but they reported the Technical Programme as well as findings of their scheme next day on 28 October, 2016.

Exp. No. 1 – Studies on Rice – Wheat cropping system in relation to weather.

The result of the experiment discussed and experiment will be continued.

Action: Agro-meteorologist

Exp. No. 2 – Programme of Gramin Krashi Mausam Seva

Discussed and approved with the suggestion that these service should be made available to timely to the farmers.

Action: Agro-meteorologist

Exp. No. 3 – Forecasting of Agricultural output using Agro-metrology and land based observation (FASAL).

The experiment was discussed and approved.

Action: Agro-meteorologist

Findings of the experiments

- Grain yield was reduced by 14.3% and 25.0% for the crop sown on 14 Dec. and 29 Dec. over to 29 Nov. sown crop. Among the cultivars, HD-2733 produced significantly higher grain yield (36.2 q/ha) but HD-2967 and K-307 were at par with 34.5 q/ha yield, where as K-9107 (30.5 q/ha) recorded lowest yield.
- Regression coefficients of different variables and coefficient of determination (R^2) of models for grain yield prediction at different stages showed that minimum atmospheric temperature and soil temperature significantly adversely intercepted accounting for 86.0, 84 and 83 per cent variation during P_2 (Tillering to PI), P_3 (PI to Anthesis) and P_4 (Anthesis to Maturity) stages, respectively to the grain yield .
- Maximum temperature and rainfall during sowing to tillering and atmospheric relative humidity morning, noon, mean and rainfall during tillering to PI as well as PI to anthesis stage were favourable to achieve number of grains per ear of wheat under investigation during 2015-16 .
- The total number of days from sowing to phenological maturity of wheat varied between 106 to 119 days during 2015-16 over 29 Nov. Sowing.
- The higher heat unit achieved 294.0 (21 days) and 584.4 (31 days) ^{0}C days during PI to anthesis and anthesis to maturity stage, respectively, at 29 Nov. sown crop producing higher grain yield as compared to gradually delayed sown crop. Thus, growing degree days and duration were decreased considerably with delayed sowing resulted reduced grain yield of wheat during 2015-16.
- Among the varieties HD-2733 required 285.5 ^{0}C days (18 days), 566.9 ^{0}C days (28 days) during PI to anthesis (P3) and anthesis to maturity stage (P4), respectively, which were conducive for higher yield than over other tested varieties.

At the last Head of Agronomy suggested following points:

- The entire scientist should be present during meeting that will help in learning new innovative ideas.

Action: All Scientist

- Initial nutrient status of the soil should also be indicated with recommendation of the fertilizer doses.

Action: All Scientist

- Scientist should do frequent visits to their site of experimentation for better monitoring of their experiment.

Action: All Scientist

Meeting ended with vote of thanks proposed by the convenor of the meeting to Director (Agril. Exp. Station), Head Agronomy as well as Heads of various departments and all committee members for actively participating in fruitful discussion and suggestion during meeting.

(**Karam Husain**)
Head, Dept. of Agronomy

No. AGR-EN 733 /2016-17 of dated 7.2.2017

Copy forwarded to the following for information and necessary action:

1. Director, Agril. Experiment Station.
2. Dean, College of Agriculture.
3. Director, Extension.
4. Concerned Scientist/Agronomist.
5. Technical Secretory to Vice – Chancellor for kind information to Hon'ble Vice – Chancellor.

(**Karam Husain**)
Head, Dept. of Agronomy

Proceeding of Research Advisory Committee meeting for Rabi 2016-17 held on Sept.. 27,2016 in the committee room, Department of Crop Physiology.

A meeting of Research Advisory Committee was held on Sept.27, 2016 at 11:00 A.M. to discuss and finalize the research programme for Rabi 2016-17 under the chairmanship of Dr. H.G. Prakash, Director AES. Following Scientists were participated in the aforesaid meeting.

Participants:

1. Dr. H.G. Prakash, Director Research,
2. Dr. Lallu. Professor & Head, Deptt. of Crop Physiology
3. .Dr.C.L. Maurya, Professor & Head, Deptt. of Seed Science & Technology.
4. Dr. Karan Husain, Director, Seed & Farm.
5. Dr.Ved Ratan, Professor & Head,Deptt of Plant Pathology
6. Dr. Madhu Bajpai,Professor & Head Deptt. of Agril. Biochemistry
7. Dr.A. K. Dubey,Officer In Charge, Vegetable Science.
8. Dr.Lokendra Singh. E.B.(L.)
9. Dr. R.K. Pandey,Asstt. Professor, Directorate of Research.
10. Dr.Manoj Mishra, Asstt. Director Research
11. Dr. Mohd. Samin, Asstt. Director Research
12. Dr. Kripa Shaker,Professor, Deptt. of Entomology
13. Dr. M.Z.Siddiqui, Associate Professor, Deptt. of Agronomy
14. Dr. U.D. Awasthi, Asstt. Professor, Deptt. of Soil Conservation.
15. Dr. R.P. Viyas, Asstt. Professor, Deptt. of Genetics & Plant Breeding.
16. Dr.S.N.Singh, Asstt.Professor, Deptt. of Crop Physiology
17. Dr. C.B.Verma, Asstt.Professor, Deptt. of Crop Physiology
18. Dr.M. A. Khan, Asstt. Professor, Deptt. of Crop Physiology
19. Dr. D.K.Tripathi, Asstt.Professor, Deptt. of Crop Physiology
20. Dr.A.K.Singh Asstt.Professor, Deptt. of Crop Physiology
21. Dr. O.P.Singh, Asstt.Professor, Deptt. of Crop Physiology.
22. Mohd. Aslam, Asstt. Professor Deptt. of Crop Physiology
23. Dr. (Mrs.) Meera Srivastava, Asstt.Professor, Rabi Cereals
24. Dr. S.P.Kushwaha, Asstt.Professor, Deptt. of Crop Physiology
25. Dr. U.C. Mishra, Asstt. Professor, Vegetable Science.
26. Dr. R.K.Sachan, Asstt. Professor,Deptt. of Horticuture
27. Dr.S.B.Pandey,Asstt. Professor, Soil Science & Agril. Chemistry.
28. Dr. S.K.Singh,Asstt. Professor,Genetics & Plant Breeding.

At the outset Dr. Lallu, Professor & Head , welcome the Chairman and participants of the meeting and also presented the Action Taken Report of Rabi 2015-16 RAC meeting, research achievement and priority area of research of the department.

After the enough discussion on achievement and technical programme of Rabi 2016-17 were presented by respective scientist of the department at length and following decision were taken up by the Research Advisory Committee.

1.1 Under the Production Physiology Project, Dr O. P. Singh presented which was approved.

2.1 Nutrition & micronutrient experiment was presented by Dr. C.B.Verma and concluded.

2.2 Presented by Dr.C.B. Verma, which was approved, with research advisory committee decision, test weight, protein content and H.I. data should be taken.

3.1 Under stress physiology, Dr. M.A.Khan, presented, which was approved with committee decision check the data.

3.2 Presented by Dr. S.N.Singh and concluded.

3.3 New experimet on stress physiology presented by Dr.S.N.Singh, which was approved with remark PH data sould, be taken.

4.1 Under bio-regulators on wheat crop was presented by Dr. S.P.Kushwaha, which was approved.

4.2 Experiment on bio-regulators presented by Dr. D.K.Tripathi and concluded.

4.3 Experiment on bio-regulators presented by Dr. D.K.Tripathi which was approved.

5.1 Project on Agronomy, Dr. Aslam was presented, which was approved with advisory committee decision that date of sowing & harvest should be mention.

Three experiment on (AICW & BIP) presented by Dr. (Mrs.) Meera Srivastava were discusses approved as such.

Six experiment on (AICRPR & M) were presented by Dr. Lallu were approved as such.

Meeting ended with vote of thanks proposed by Dr. Lallu, Professor & Head, of the department to the chairman and all participants.

Professor & Head
Deptt. of Crop Physiology

No.C.P.- 1706 Dated: 07 Oct .2016

C.C.to:-

1. Director Research.
2. Dean, College of Agriculture
3. Technical Secretary to Hon'ble Vice-Chancellor for information to Hon'ble Vice-Chancellor.
4. All Concerned HOD / Officer In Charge.

Professor & Head
Deptt. of Crop Physiology

Department of Entomology

C.S. Azad University of Agriculture & Technology, Kanpur-2

No.ENT- 115 /2016 Dated: 26-11-2016

Proceeding of Research Advisory Committee meeting held on 30.09.2016 for Rabi 2016-17

The RAC meeting of Rabi 2016-17 was held under the chairmanship of Dr. H.G. Prakash, Director Research AES, on 30th September, 2016 in the committee room of Department of Entomology, C.S. Azad University of Agriculture & Technology, Kanpur.

The following officers/ Scientists were present in the meeting:

Sl. No.	Name	Designation	Department
1.	Dr. H.G. Prakash	Director Research	Directorate of Research
2.	Dr. R.K. Pandey	Asstt. Prof.	Directorate of Research
3.	Dr. Neerja Agrawal	Prof. & Head	Entomology
4.	Dr. D.R. Singh	Professor	--do--
5.	Dr. Kripa Shanker	..	--do--
6.	Dr. Ram Singh Umrao	..	--do--
7.	Dr. R.K. Dwivedi	..	--do--
8.	Dr. Kusum Dwivedi	..	--do--
9.	Dr. Shriddha saxena	..	--do--
10.	Dr. Fazal Ahmad	..	--do--
11.	Dr. Dinesh Kumar Tripathi	..	Crop Physiology
12.	Dr. D.K. Singh	..	Oil Seed
13.	Dr. Jitendra Kumar	..	Rabi Cereals
14.	Dr. S.B. Pandey	Asstt. Chemist	Soil Sci. & Chemistry

Dr. Neerja Agrawal, Professor & Head Department of Entomology welcomed the Chairman and all the participants from other Departments and Entomology Department and presented the thrust area of research and salient achievements of the year 2015-16.

Achievements of Rabi 2015-16

In all 27 Projects were conducted in the year of 2015-16 on Oilseed, Wheat and Vegetable Entomology including Toxicology, Rodents and Nematodes.

Screening of 139 germplasms of mustard in AICRP Oilseeds was done and none was found resistant to aphid. Agro-ecological analysis of insect pests, efficacy of chemical insecticides and botanicals were undertaken by various workers against insect pests of coriander, rapeseed and mustard.

In AICRP Nematodes, in brinjal *Meloidogyne incognita* was found infesting all germplasms tested. In cereals crops, pulses, vegetables and fruit crops maximum nematode population was recorded belonging to different species in Fatehpur. About 70% Nematode population was recorded in Gerbera in Sikanderpur, 46% in Rose in Kanpur, 70% in Okra in Farrukhabad and 50% in tomato in Jalaun Districts.

In experiment on screening of various insecticides against rodent predators, chlorpyriphos was found toxic to predator.

Rodent control was taken up at all the University farms by employing latest rodent control techniques. Seven species of rats were reared and maintained in the laboratory. Zinc phosphide 2% followed by ½ tablet of Aluminium phosphide and double application of Aluminium phosphide + bromadiolone which registered 100% mortality in burrows.

The projects presented for the current programme were approved as follows:

Project No. 1- Approved as such.
Project No. 2- Per cent increase in yield should also be added and data should be corrected.
Project No. 3- Approved as such.
Project No. 4- Concluded and dropped.
Project No. 5- The experiment was dropped due to none appearance of sawfly - contact the FS- for timely sowing.
Project No. 6- Approved as such.
Project No. 7- Fundamental and Applied experiments have been adopted by the Project Coordinator.
Project No. 8- Experiment should be started in February upto summer.
Project No. 9 and 10- Were approved as such.
Project No. 11- ETL should be mentioned.
Project No. 12- Dr. H.G. Prakash suggested to incorporate N: P:K: Dose in the experiment on Tomato.
Project No. 13 to 18- Approved as such.
Project No. 19- Should be deleted.
Project No. 20- It should be written preferred in place of like.
Project No. 21- Data should be presented in all the experiments.

Rabi-Wheat-

Project No. 1 to 5- Approved as such.

It was suggested by the house that trade name should not be mentioned for the pesticide applied.

The meeting was over with appreciation remarks of Dr. H.G. Prakash and vote of thanks by Dr. Neerja Agrawal.

(Neerja Agrawal)
Professor & Head

Department of Genetics and Plant Breeding

PROCEEDING OF RESEARCH ADVISORY COMMITTEE (RAC) MEETING OF THE DEPARTMENT OF GENETICS AND PLANT BREEDING, C.S. AZAD UNIVERSITY OF AGRICULTURE AND TECHNOLOGY, KANPUR FOR RABI 2016-17 WAS CONVENED ON OCTOBER 21-22, 2016 AND NOVEMBER 07, 2016.

The meeting was commenced with warm welcome of the chairman, Dr. H.G. Prakash, Director, AES, HoD and scientists participated from different departments/sections and teachers of the department by Dr. S. Kumar, HoD, Genetics and Plant Breeding. At the outset Chairman opined that crop improvement research is main component of University research activities.

(I) Cereal Crops:-

1. Wheat: Research programme were presented by **Dr. P.N. Awasthi and Dr. Somveer Singh**

Expt. No. 1 Approved with suggestion to check thousand grain weight.

Expt. No. 2 to 4 Approved.

Expt. No. 5 Suggested by house to delete this experiment.

Expt. No. 6 Approved with suggestion to use Restricted Irrigation (RI) condition in place of rainfed (RF).

Expt. No. 7 Approved.

Expt. No. 8 Approved with suggestion to mention stage of irrigation i.e. Critical Root Initiation state (CRI).

Expt. No. 9 and 10 Approved.

Expt. No. 11 Approved with suggestion to mention name of only scientists under research worker.

Expt. No. 12 Approved.

2. Barley: Research Programme was presented by **Dr. P.K. Gupta. Dr. Gupta prepared an excellent research programme.** Dr. Sarvendra Kumar, HoD gave congratulation to Dr. Gupta for release of a variety from SVRC.

Expt. No. 1 to 13 Approved.

3. Maize: Research programme was presented by **Dr. H.C. Singh**.

Project No. 1 to 5: Approved.

(II) Oil Seed Crops:-

1. **Rapeseed & Mustard**: Research programme was presented by **Dr. Mahak Singh**

(a) **Toria**

Project No. 1 to 5: Approved.

(b) **Indian Mustard**

Project No. 1 to 8: Approved.

2. **Linseed**: Research programme was presented by **Dr. Nalini Tewari**. In the beginning she presented research achievements of 2015-16. **Dr. Sarvendra Kumar**, Head of Department gave congratulation for release of two linseed varieties i.e. Indu and Uma from SVRC. He also informed the house that he was associated with development and testing of both varieties i.e. Indu and Uma. He requested with Dr. Nalini Tewari, Asstt. Linseed Breeder to include his name in the proposal at appropriate place.

Expt. No. 1: Approved.

Expt. No. 2: Approved. **Dr. Mahak Singh** suggested to include name of the Entomologist for recording insect infestation at field level in the experiments. Dr. S. Kumar advised to include name of **Dr. D.K. Singh** as Entomologist because he is posted in Oil Seed Section.

Expt. No. 3: Approved. It was suggested by house to mention correct value of CD/CV.

Expt. No. 4 to 8: Approved.

3. **Linseed (Mauranipur)**: Research programme was presented by **Dr. V.P. Nagaich**

Project No. 1 to 4: Approved.

Project No. 5: Approved with suggestion to test entry. LMS 2014-103 again in co-ordinated trials for confirmation of its data.

Project No. 6 and 7: Approved.

4. **Safflowar (Mauranipur)**: Research programme was presented by **Dr.V.P. Nagaich**

Project 1 to 3: Approved.

(III) Legume Crops:-

1. **Field pea**: Research programme was presented by **Dr. Geeta Rai**

Expt. No. 1: Approved.

Expt. No. 2: Approved with suggestion to mention number of bulks in F6 generation.

Expt. No. 3: Approved with suggestion to give own code numbers to different entries.

Expt. No. 4 and 5: Approved.

Expt. No. 6: Approved. Dr. Lokendra Singh suggested to mention date of PVT trial.

Expt. No. 7: Approved. It was suggested by house that there is no need to conduct SVT 3 trial. Only test promising entries in SVT 2.

2. **Chickpea**: Research programme was presented by **Dr. Lokendra Singh**. EB (Legume) informed the house that no crossing programme was going on from last 5to 6 years.

Expt. No. 1: Approved.

Expt. No. 2: Approved with suggestion to give new code to entries.

Expt. No. 3: It was suggested by house to conduct only non replicated trial in this crop season and only promising entries should be retain in germplasm..

Expt. No. 4 to 6: Approved.

3. **Lentil**: Research programme was presented by **Dr. Manoj Katiyar**

(a) **Non Plan:**

Expt. No. 1 to 8 Approved.

(b) **Plan:**

Expt. No. 1: Approved.

(IV) Narcotic Crops:-

2. **Tobacco (Araul)**: Research programme was presented by **Dr. Arvind Srivastava**. He prepared a rice research programme along with concerned data.

Project No. 1 and 2: Approved.

Prepared by

(S.K. Singh) **(R.P. Vyas)**

Approved by

(Sarvendra Kumar)
HoD, Genetics & Plant Breeding

(H.G. Prakash)
Director Research

Department of Genetics and Plant Breeding

Research Advisory Committee Meeting of *Rabi, 2016-17*

October 22-23 and November 07, 2016

List of participants

S.No.	Name and Designation	Deptt./Section
1.	Dr. H.G. Prakash, Director Research	Directorate of Research
2.	Dr. S. Kumar, Professor and Head	Genetics and Plant Breeding
3.	Dr. V.K. Yadav, Sr. Rice Breeder	Paddy Scheme
4.	Dr. R.K. Yadav, Professor	Genetics and Plant Breeding
5.	Dr. C.L. Maurya, Professor and Head	Seed Science & Technology
6.	Dr. Mahak Singh, Professor	Oil Seeds
7.	Dr. R.K. Pandey, Asstt. Director	Directorate of Research
8.	Dr. Nalini Tewari, Linseed Breeder	Oil Seeds Section
9.	Dr. Shweta, Asstt. Professor	Genetics and Plant Breeding
10.	Dr. S.B. Pandey, Asstt. Chemist	Soil Science & Agril.Chemistry
11.	Dr. A.K. Srivastava, Tobacco Breeder	CRC Aroul
12.	Dr. R.P. Vyas, Asstt. Professor	Genetics and Plant Breeding
13.	Dr. S.K. Uttam, Assoc. Professor	Soil Science & Water Management
14.	Dr. P.K. Gupta, Barley Breeder	EB (R)
15.	Dr. S.V. Singh, Jr. Wheat Breeder	EB (R)
16.	Dr. S.K. Singh, Asstt. Professor	Genetics and Plant Breeding
17.	Dr. K.P. Singh, Pigeon pea Breeder	Legume
18.	Dr. Lallu, Professor and Head	Deptt. of Crop Physiology
19.	Dr. Lokekndra, EB(L)	Legume Section
20.	Dr. Javed Bahar Khan, Wheat Pathologist	EB (R)
21.	Dr. G.S. Parihar, Assoc. Professor	Genetics and Plant Breeding
22.	Dr. Sanjeev Kumar, Professor	Agronomy
23.	Dr. P.N. Awasthi, Wheat Breeder	EB (R)
24.	Dr. V.P. Nagaich, Asstt. Professor/Incharge	Crop Res. Station, Mauranipur
25.	Dr. H.C. Singh, Maize Breeder	Maize Scheme
26.	Dr. Rakesh Bahadur, Asstt. Professor	Agric. Bio. Chemistry
27.	Manoj Mishra, Asstt. Director	Directorate of Research
28.	Dr. Geeta Rai, Asstt. Professor	Legume Section
29.	Dr. Manoj Katiyar, Asstt. Professor	Legume Section
30.	Sri Mohd. Shamim, Asstt. Director	Directorate of Research
31.	Dr. J.B. Singh, Wheat Breeder	EB (R)

Proceeding of the meeting of Research Advisory Committee *Rabi* 2016-17 Department of Plant Pathology held on dated 30.11.2016

The following were present in the meeting:

1. Dr. H. G. Prakash, Director AES
2. Dr. Rajendra Prasad, Professor (Oilseed Pathologist)
3. Dr. A.L. Jatav, Professor, Seed Science & Technology
4. Dr. Ved Ratan, Professor, Plant Pathology
5. Dr. U. K. Tripathi, Professor, Plant Pathology (Linseed)
6. Dr. S. K. Biswas, Professor, Plant Pathology
7. Dr. Narendra Singh, Professor, Plant Pathology
8. Dr. Sarvesh Kumar, Assoc. Professor, SCWM
9. Dr. Javed Bahar, Asstt. Prof. Wheat Pathologist, EBR
10. Dr. C.B. Verma, Asstt. Prof., Crop Physiology
11. Dr. R.K. Pandey, Asstt. Prof., Directorate of AES
12. Dr. S.B. Pandey, Asstt. Prof., Soil Science & Agri. Chem.
13. Dr. R.K. Dwivedi, Asstt. Prof., Entomology

The meeting was started with the warm welcome of Chairman Dr. H.G. Prakash, Director AES, scientists of Plant Pathology department and other scientists of different departments by Head, Department of Plant Pathology. He briefed the committee about the overall progress in research of the department during last year. Director AES suggested that some experiments on rabi cereal crops to be formulated so that the result can be communicated for state recommendation. Head of Department informed to the house that total 27 research projects (including Plan & non Plan) have been submitted by the scientists. Each programme was discussed thoroughly and decision/suggestion were taken as given below.

(A) Plant Pathology department (Non Plan):

Project No. 1	**1.** Compatibility test of different bioagents with chemical fungicides. Approved
Project No. 2	**2.** Management of early and late blight of Tomato caused by *Alternaria solani* and *Phytophthora infestans*. Approved
Project No. 3	**3.** Management of powdery mildew of Pea caused by *Erysiphae polygoni*. Approved
Project No. 4	**4.** Induced resistance in tomato against Fusarium wilt through Plant extracts. Approved

B. (i) Rabi Cereal Section (Plan):

Project No. 1	**1.** Plant Pathological Screening Nursery (PPSN). Approved
Project No. 2	**2.** Monitoring of spread and incidence of diseases in "Wheat disease trap nursery" under natural conditions (WDMN). Approved
Project No. 3	**3.** Management of foliar blight of wheat through chemical. Approved
Project No. 4	**4.** Crop health monitoring - Pre & Post harvest survey of wheat & barley crop. Approved
Project No. 5	**5.** National barley diseases screening nursery (NBDSN). Approved
Project No. 6	**6.** Initial Barley Disease Nursery (IBDSN). Approved
Project No. 7	**7.** Elite barley screening nursery (EBDSN). Approved
Project No. 8	**8.** Chemical Control of Leaf Rust in Barley. Approved

(ii). Oil Seed Section: Rapeseed Mustard Coordinated Project

Project No. 1	**1.** Screening of brassica materials against different diseases. Approved
Project No. 2	**2.** Uniform disease Nursery trial. Approved
Project No. 3	**3.** National disease nursery for Alternaria blight resistance. Approved
Project No. 4	**4.** national disease nursery for white rust. Approved
Project No. 5	**5.** Screening of IVT entries of Brassica against Alternaria blight. Approved
Project No. 6	**6.** Evaluation fungicides against Alternaria blight of mustard. Approved

(iii). Linseed (Total experiment-6):

Project No. 1	**1.** Survey of disease of linseed prevailing in this region. Approved
Project No. 2	**2.** Screening of germplasms against wilt disease of linseed. Approved
Project No. 3.	**3.** Uniform disease nursery trial under natural condition (UDN). Approved
Project No. 4	**4.** Uniform disease nursery trial under natural artificial condition (UDNA) for advanced breeding lines. Approved
Project No. 5	**5.** Evaluation of promising entries/elite material under high inoculums pressure

(ADNT). **Approved**

Project No. 6 — **6.** Management of wilt in linseed. **Approved**

Project No. 7 — **7.** Comprative performance of linseed varieties in adaption to climate change in Agronomy trial. **Approved**

(iv) **Linseed Project Coordinated Unit (Total experiment-2):** Project No. 1-2 **Approved**

The meeting was ended with vote of thanks.

(Ved Ratan)
Head
Plant Pathology

(H.G. Prakash)
Director
Agriculture Experiment Station

संवेद रत्न

Directorate of Agricultural Experiment Station
Diary No. 3477/DRI/16
Date. 13/12/2016
C.S. Azad University of Agriculture and Technology, Kanpur

Proceedings of R.A.C. meeting of the Department of Seed Science & Technology, C.S.Azad University of Agriculture and Technology, Kanpur-2 for *Rabi* 2016-17 convened on 28.11.2016 at 3.00 p.m. in the Committee Room of the Department.

The following were present in the meeting.

Sl.No.	Name	Designation	Department
1.	Dr. Har Gyan Prakash	Director, Research	Directorate of Research
2.	Dr. Poonam Singh	Dean, College of Agriculture	College of Agriculture
3.	Dr. C.L.Maurya	Head of Department	Seed Science & Technology
4.	Dr. S.K. Gupta	Head of Department	Genetics & Plant Breeding
5.	Dr. Asharfi Lal Jatav	Professor	Seed Science & Technology
6.	Dr. S.K.Uttam	Assoc.Professor	SCWM
7.	Dr. Ram Singh Umrao	Asstt. Professor	Entomology
8.	Dr. Rajeev	Veg. Agronomist	Vegetable section
9.	Dr. Meera Srivastava	Wheat Physiologist	EBR
10.	Dr. C.B.Singh	Asstt. Professor	Seed Science & Technology
11.	Dr. C.B.Verma	Asstt. Professor	Crop Physiology
12.	Dr. S.B.Pandey	Asstt. Chemist	Soil Science & Agri.Chem.
13.	Dr. R.V.Singh	Wheat Agronomist	EBR
14.	Dr. Jitendra Kumar	Asstt. Professor	EBR
15.	Sri R.A.Katiyar	Asstt.Professor	Seed Science & Technology
16.	Dr. P.K.Katiyar	T.A.	Seed Science & Technology
17.	Sri R.K.Swarnkar	T. A.	Seed Science & Technology
18.	Dr. S.K.Swarnkar	Field Man	Seed Science & Technology
19.	Dr. U.S. Chaudhary	S.R.F.	DUS Project
20.	Sri Sagar Kumar Sharma	Ph.D. Scholar	Seed Science & Technology
21.	Mr. Pradeep Kumar	Ph.D. Scholar	Seed Science & Technology
22.	Mr. Parikshit Singh	Ph.D. Scholar	Seed Science & Technology
23.	Mr. Alok Kumar	Ph.D. Scholar	Seed Science & Technology
24.	Mr. Anubhav Kumar	Ph.D. Scholar	Seed Science & Technology
25.	Mrs. Pratiksha Singh	Ph.D. Scholar	Seed Science & Technology
26.	Mr. Shashikant	M.Sc. (Ag)	Seed Science & Technology

The meeting was commenced with warm welcome of the Chairman, Dr. Har Gyan Prakash, Director, AES and Dr. Poonam Singh, Dean, College of Agriculture, scientists participated from different departments/sections, faculty/Researchers and students of Department of Seed Science & Technology by Dr. C.L. Maurya, Head of Department, Seed Science & Technology. Dr. Maurya has highlighted the importance of seed in agriculture, significant achievements and action taken report of Rabi 2015-16. Besides, the priority areas of research concerned with Seed Science & Technology were also focused before the house. During the presentation of action taken report, it was noticed by the chairman that in an experiment of Grow out test of different varieties of pulse crops, the house had suggested to conduct grow out test on Lentil var. KL-320, & 303; Pea var. KPMR-400 & Rachna; Gram var. KPG-59 & KGD-1168 but GOT was conducted only on single variety of lentil i.e. KLB 303. The experimenter Shri P. K. Katiyar appraised the house that the nucleus and breeder seed of rest of the crop varieties was not made available by the DSF/concerned breeder. Likewise in experiment on the effect of seed priming for getting higher seed yield and quality of wheat, data of 2014-15 was not shown by the experimenter (Dr. C. B. Singh, Asstt. Professor) in the technical programme 2016-17, though house had suggested for rectifying the discrepancies and presenting the authentic data during Rabi 2016-17. The chairman has

Sn Manoj Mishra 13/12/2016

viewed seriously and warns not to repeat such type of lapse in forthcoming research programme. He also suggested to enquire for not providing nucleus and breeder seed of the crop varieties to be tested under GOT trial as reported by experimenter. In his address, Chairman has emphasized the role of quality seed in sustaining agricultural production and also advised to the learned galaxy to involve in productive and scientific activities for the cause of science and betterment of the institution.

Head of Department also informed to the house that total 20 research proposals of different disciplines have been submitted by the scientists for Rabi 2016-17. Out of these, 13 experiments belongs to seed production, storage and seed testing; 06 from seed entomology and seed pathology, and one from seed processing.

The concerned scientists presented their experiments, which were discussed thoroughly in the house. Decisions/suggestions emerged out during deliberations are given as below:

Sl.No.	Experiment No.	Decisions/Suggestions	Action to be taken by
1.	1.1	Approved as proposed	-
2.	1.2	Mr. U.S. Chaudhary informed the house that no wheat variety for DUS has received so far. The chairman suggested to contact to IIWBR, Karnal and enquire for not sending the seed material.	Dr. C. P. Sachan
3.	1.3	House suggested that experimenter has to access the nucleus and breeder seed for GOT with consultation to DSF/Breeder.	Shri P.K. Katiyar
4.	1.4	House suggested that experimenter has to access the nucleus and breeder seed for GOT with consultation to DSF/Breeder.	Shri R.K.Swarnkar
5.	1.5	Approved with minor correction that dose of *Trichoderma harzianum* should be 15 g/Kg seed instead of 1.5%	Dr. A. L. Jatav
6.	1.6	Since the experiment is to be conducted under rainfed condition hence house suggested that wheat var. Atal or Mandakini may be considered for experimentation. Sowing under rainfed conditions should be finished latest by 10th Nov. to obtain the desired results.	Dr. C. B. Singh
7.	1.7	Approved.	-
8.	1.8	The comprehensive report of two year experimentation has not come in the technical programme. Hence, house suggested to present a comprehensive findings in the next Rabi Research Programme In the Table 1 discrepancies regarding yield and others data is reported that should be checked and corrected.	Mr. Abhishek Singh Dr. A. L. Jatav
9.	1.9	Dr. Uttam pointed out that SE & CD values presented in the table are not in proper coherence hence house suggested that data should be checked and verified.	Shri P.K. Katiyar Dr. A. L. Jatav
10.	1.10	Approved as proposed	-
11.	1.11	The treatments mentioned under technical programme and analyzed table are mismatched which needs correction. The experiment has already been conducted for two years i.e. 2013-14 & 2014-15, even though	Mr Parikshit Singh Dr. A.L. Jatav

		comprehensive presentation of data has not been made. House has suggested for presenting a comprehensive finding in the next Rabi Research Programme with required rectification.	
12.	1.12	In the technical programme Mustard var. Pusa Vijay is shown as Vegetable crop. House opined that its need verification.	Dr. A. L. Jatav
13.	1.13	Approved as proposed	
14.	2.1	Approved as proposed.	-
15.	2.2	Approved as proposed.	-
16.	2.3	Approved as proposed.	-
17.	2.4	Approved as proposed.	-
18.	2.5	Approved as proposed.	-
19.	2.6	Chick pea variety Radhey may be replaced with 'Udai'	Mr. Shashi Kant
20.	3.1	Approved as proposed.	-

The meeting was ended with vote of thanks, proposed by Dr. C.L, Maurya, HOD Seed Science & Technology.

13.12.16

(C. L. Maurya)
Head of Department

(Har Gyan Prakash)
Director, AES

No. DST 1379 **/2016** **Dated:** 13 **,2016**

Copy forwarded for information and necessary action:

1. Dean, College of Agriculture.
2. Director, Agriculture Experiment Station.
3. Director, Seed & Farm.
4. All Head of Deptt. /AICRP Incharges/Sectional Incharges.
5. Concerned Scientists of the Deptt. of Seed Science & Technology.
6. Technical Secretary to V.C. for kind information to Hon'ble Vice Chancellor.

13.12.16

(C. L. Maurya)
Head of Department

Proceedings of RAC meeting held on 23.11.2016 for *Rabi*, 2016-17 in the Department of Soil Conservation and Water Management

A meeting was held on 23-11-2016 to finalize the research programme of *Rabi* 2016-17. Following scientists/teachers were present:

S.No.	Name	Designation
1.	Dr. R.K. Pandey	Assistant Professor, Directorate of Research
2.	Dr. R.P. Singh	Head of Department, SCWM
3.	Dr. P.N. Yadav	Professor, SCWM
4.	Dr. Munish Kumar	Professor, SCWM
5.	Dr. D.D. Yadav	Professor, Deptt. of Agronomy
6.	Dr. G.R. Gupta	Associate Professor, SCWM
7.	Dr S.K. Uttam	Associate Professor, SCWM
8.	Dr. Kaushal Kumar	Associate Professor, SCWM
9.	Dr. Sarvesh Kumar	Associate Professor, SCWM
10.	Dr. U.D. Awasthi	Assistant Professor, SCWM
11.	Dr. A.K. Katiyar	Assistant Professor, SCWM
12.	Dr. Mohd. Shamim	ADR
13.	Dr. D.K. Tripathi	Asstt. Professor, Crop Physiology
14.	Dr. S.B. Pandey	Asstt. Professor, Soil Sci. & Agril. Chemistry

Directorate of Agricultural Experiment Station
Diary No. 3666/DR/17
Date 02/01/2017
Chandra Shekhar Azad University of Agriculture and Technology, Kanpur

After warm welcome by Dr. R.P. Singh, Head of Department to all participants in the meeting, the achievements and compliance report was presented for various research programmes. During meeting, projects were presented one by one by relevant teachers given as under:

Project No.-1: The Ph.D. experiment was conducted for two years. Dr. S.K. Uttam presented the data and project was allowed to conclude by the committee. The recommendations of the trial were as under:

(i) Among row spacing, 40 cm spacing registered significantly more seed and stover yields than 60 cm row spacing, but harvest index was recorded significantly higher under 60 cm row spacing than 40 cm row spacing during both the years.

(ii) Bio-fertilizer brought about significant increase in seed and stover yields as well as harvest index of chickpea. Rhizobium culture + PSB treatment resulted in significant higher seed yield and harvest index over other bio-fertilizer, but treatments of Rhizobium culture + PSB and PSB recorded at par with each other in stover yield during both the years.

(iii) Seed and stover yields as well as harvest index of chickpea increased significantly with increasing levels of nitrogen, maximizing with 30 kg N/ha during both the years.

(iv) The interaction between treatment factors was not found significant in any case on seed and stover yields as well as harvest index during both the years.

Sri Manoj Mishra
2/11/17

Project No.-2: A new experiment was presented by Dr. S.K. Uttam related to Ph.D trial. The theme and experimental planning was approved as such.

Project No.-3: A new experiment was proposed and presented by Dr. R.P. Singh of their Ph.D.student. The experiment was approved as such.

Project No.-4: Last year Ph.D. trial was presented by Dr. P.N. Yadav. It was suggested that the data should be procured from the student and should be presented in the next year meeting. The project was approved by the committee and allowed to continue in *Rabi* 2016-17 for confirmation of the findings.

Project No.-5: Two years trial was conducted by Dr. P.N. Yadav related to M.Sc (Ag.) programme. It was suggested that the data should be procured (*Rabi*, 2015-16) from the student and should be presented in the next year meeting.

Project No.-6: The experiment was presented by Dr. U.D. Awasthi related to PG trial and allowed to conclude after two years of experimentation. The recommendations were:

(i) Linseed variety Ruchi produced highest seed and stover yields followed by variety Shubhra, while minimum values were recorded with variety Padmini during both the years.
(ii) Application of 75% RDN + 25% through vermicompost+ 30kg S/ha prove their superiority in respect of seed ad stover yields over other fertility levels under test.
(iii) The interaction between treatment factors was not found significant.

Project No.-7: A new experiment was presented by Dr. U.D. Awasthi related to M.Sc.(Ag.) trial. The theme and experimental planning was approved as such.

Project No.-8: A new programme was proposed by Dr. U.D. Awasthi related to M.Sc.(Ag.) trial. The project was approved with the suggestion that dust mulch practice should be modified as dust mulch created by weeding and hoeing at 25 DAS in place of dust mulch created by weeding and hoeing by khurpi and hand hoe 25 DAS.

Project No.-9: A new experiment of M.Sc.(Ag.) student was presented by Dr. Kaushal Kumar. The project was approved by the members of RAC as such.

Project No.-10: The trial was presented by Dr. G.R. Gupta and allowed to conclude after two years of experimentation. The recommendations were:

"Seed yield of linseed variety Shekhar produced maximum and it was significantly superior to variety T-397 and variety Padmini found superior over variety T-397. Among moisture

conservation practices, organic residue mulch @ 4t/ha at 20 DAS treatment was produced significantly more seed yield over control or farmer's practice during both the years."

Project No.-11: A new experiment was presented by Dr. Sarvesh Kumar related to PG trial. The project was approved with the suggestion that to delete one treatment in manuscript i.e. sole wheat-sole mentha.

Project No.-12: Last year Ph.D. trial was proposed by Dr. S.C. Katiyar. The experiment was presented by Dr. Munish Kumar. It was suggested that the data should be procured from the student and should be presented in the next year meeting. The project was approved by the committee and allowed to continue in *Rabi*- 2016-17 for confirmation of the findings.

Project No.-13: It was presented by Dr. Munish Kumar related to Ph.D. trial. The project was approved by the committee and allowed to continue in *Rabi* 2016-17 for confirmation of the findings.

Project No.-14: Ph.D. trial was presented by Dr. Sarvesh Kumar. It was suggested that the data should be procured and should be presented in the next year meeting. The project was approved by the committee and allowed to continue in *Rabi* 2016-17 for confirmation of the findings.

The meeting was ended with vote of thanks and concluding remarks by Dr. P.N. Yadav, Professor of this department.

30.12.16

(R.P. Singh)
Head of Department

No. 545 /SCWM/2016 Dated: Dec. 30 –,2016

Copy forwarded for information and necessary action to:

1. Dean, College of Agriculture, C.S Azad Univ. of Agric. & Tech., Kanpur-2
2. Director, Agricultural Experiment Station(AES), C.S. Azad Univ. of Agric. & Tech., Kanpur-2
3. Professor & Head(s) of the Department– Agronomy, Soil Science & Agril. Chemistry, Plant Pathology, Entomology, Crop Physiology and Agriculture Economics & Statistics.
4. All teachers/scientists of the Department.
5. T.S. to V.C. for kind information to Hon'ble Vice-Chancellor.

30.12.16

(R.P. Singh)
Head of Department

Proceedings of RAC Meeting of Rabi 2016-17, Deptt. of Soil Science & Agricultural Chemistry held on 26.10.2016

At the outset of the meeting Dr. R.C. Nigam, Head of the Department welcomed all the distinguished participating members present in the meeting. The following members were present in the meeting:

1. Dr. R.C. Nigam,	Head of Department
2. Dr. Lallu,	Head, CP
3. Dr. Neerja Agarwal,	Head Entomology
4. Dr. A.K. Dubey	Officer Incharge, Vegetable
5. Dr. Ravindra Kumar	Professor, Soil Salinity Project
6. Dr. S.K. Uttam	Associate Professor, Soil Conservation
7. Dr. S.K. Srivastava	Assoc. Prof. Oil seed section.
8. Dr. Anil Kr. Sachan	Assoc. Prof.SAC
9. Dr. Subhash Chandra	Assoc.Prof. Director Extn.
10. Dr. Anjani Kr. Singh	Asstt. Prof., AES
11. Dr. Devendra Singh	Asstt. Prof., Soil Salanity
12. Dr. Nand Kumar	Biochemistry
13. Sri S.N. Pandey	Asstt. Prof. Soil Salanity
14. Dr. Susheel Dimri	Asstt. Prof.Soil Science
15. Dr. K.N. Singh	Asstt. Prof. SAC
16. Dr. R.K. Pathak	-do-
17. Dr. Sushil Kumar Mishra	-do-
18. Dr. S.B. Pandey	-do-

Dr. R.K. Pandey, Asstt. Residue Analyst presented the research achievements of the department. He also emphasized delineation of secondary and micronutrients under AICRP (MNS) of Sitapur district. GPS based 337 soil samples were collected and analysed. 41,17,38,7,9 and 6% samples were found deficient in S,B, Zn , Cu, Fe and Mn, respectively.

Soil Testing Scheme:

The programme was presented by Dr. K.N. Singh. During discussion of project No. 1 Dr. Neerja Agrawal and Dr. Lallu asked that the result should be presented in tabular form. Project No. 2 Dr. Lallu questioned that only mean grain yield has been given. Nutrient uptake data and soil analysis has not been reported. Dr. R.C. Nigam suggested Dr. K.N. Singh to include those data from next year. With these project No.1-3 have been approved.

Soil fertility:

Dr. Sushil Kumar Mishra presented project No.1 and 2. Dr. Ravindra Kumar suggested that in every five years the data should be clubbed for presentation. Dr. Mishra assured to the house that data will be clubbed from next year Both the experiments are approved as such.

Soil Survey Scheme:

Dr. Sushil Kumar Mishra presented one project under the scheme. This project was also approved as such by the house.

Quality testing of Pesticides, Fertilizers, Manures and Allied products:

Presented by Dr. R.K. Pandey, Asstt. Residue Analyst. Under this project there is a routine testing of pesticides and nutrients. For pesticides and fertilizer testing a sum of Rs.146450/- and 47400/- have been realized by the department, respectively. 7.1 percent pesticide samples were found substandard.

Approved by the house unanimously.

Microbiology:

Dr. R.K. Pathak presented the project no.1 And 2 . Dr. Lallu asked to Dr. Pathak while discussing project no. 1 that what is the stage of isolation or Rhizobium culture. Dr. Pathak given the answer and both the projects were approved as such by the house.

Adhoc Projects:

1- **Professor IFFCO Chair Programme:**

Presented by Dr. R.K. Pandey, Asstt. Residue Analyst. In project No.2 and 3. house suggested that there is more number of objectives but data is presented only for grain yield. Therefore inclusion of more data is required asper objectives; Approved by the house.

2- All India Co-ordinated Projects on Micro, Secondary Nutrients and Pollutant elements in Soil and plants:

Dr. Sushil Kumar Mishra presented the project from project no. 1-5 . During discussion since these projects were ICAR originated therefore, approved as such by the house.

ICAR Projects:

A- **AINP on Pesticide Residues-** presented by Dr. R.K. Pandey from project 1-14 . All approved by the house unanimously.

B- AICRP on Salt affected soil:

Research achievements and project 1-6 were presented by Dr. Ravindra Kumar. After some discussion approved by the house unanimously.

Meeting ended with vote of thanks by Dr. R.C. Nigam, Head of Department to all the members presented in the meeting.

25/11

(R.C. Nigam)
Head of Department

CC to: Concerned officer of the Department and University for information.

25/11

(R.C. Nigam)
Head of Department

Proceedings of ZREAC meeting for Rabi 2016-17 for Central Plain Zone of U.P. held on 02-12-2016

The ZREAC meeting for Rabi 2016-17 for Central Plain Zone of U.P. held under the Chairmanship of Dr. H.G. Prakash, Director Research CSAUA&T, Kanpur at 11:00 AM on 02.12.2016 in the Directorate of Research. List of Scientists participated in the meeting is annexed.

At the outset, Director Research, welcomed the Director Extension, Director Seed & Farm and participated scientists and highlighted the importance of the meeting. He also emphasized to utilize the crop residue particularly of rice-wheat crop rotation. He informed to the house that the paddy straw @6 ton/ha. may be used as mulch after sowing of wheat during rabi, the experiment is in progress at CRS Nawabganj. Director Research also suggested to popularize the heat tolerant wheat varieties among the farmers. Dr. H.P. Singh, Head/Scientist, KVK Dileepnagar informed to the house that the maize-potato is now replaced rice-wheat rotation at farmers field. Discipline wise research programme discussed in the meeting and decision/ suggestions were as fallows.

Research Programme of R.R.S., Daleep Nagar, Kanpur.

Agronomy

Experiment 1 Approved.

Horticulture

Experiment 2 Approved.

Agricultural Extension

Experiment 3 Approved with modification that wheat varieties Shatabadi and DBW-107 may be included.

Sri Ram Kumar, Asstt. Professor, Agricultural Extension also advised to collect the information pertaining to adoption of wheat varieties at farmers field with suitable photograph.

Research Programme of R.R.S., Saini, Kaushambi.

Experiment 4 – Approved.

Dr. R.K. Pal, Asstt. Professor, NARP Saini also asked to collect the information pertaining to Insect bio-diversity of rabi crops grown at the farm

The meeting ended with vote of thanks to the chair and participating scientists.

Approved

(H.G. Prakash)	**(R.K. Pandey)**	**(Anil Kumar)**
Director Research	Assistant Professor	Assistant Professor
	Directorate of Research	R.R.S. Daleep Nagar

Directorate of Research
C.S.Azad University of Agriculture & Technology, Kanpur

No...673.....

Dated. ...19/12/2016

Copy forwarded for information and necessary action:

1. All Participating Scientists
2. Director Seeds & Farm
3. Director Extension

(Anil Kumar)
Assistant Professor
R.R.S. Daleep Nagar

ZREAC Meeting for Rabi 2016-17 for Central Plain Zone of U.P. held on 2.12.2016

Sl. No.	Name & Designation	Deptt.	Signature
1.	Dr. H.G. Prakash Director Resrch	Directorate of Research	
2.	DR. D.P. Singh. IDR	Directorate of Research.	
3.	Dr. H.P. Singh	Head K.V.K. Daleepnagar.	
4.	Dr. Anil Kumar	NARP. Daleepnagar	
5.	Dr. Kunwar A.S. Parihar-Asso Prof	Directorate of Research	
6.	Dr. Dhoom Singh.	D.E.	
7.	Dr R.K. Pandey Asst. Prof.	Directorate of Resrch	
8.	Dr. R.K. Pal Asstt. Prof.	SRS, Saini, Kausambi	
9-	Dr Arvind Kumar	K.V.K. Daleepnagar	
10-	B.P. Singh.	NARP Palipngeer	
11-	Ram Kumar Singh	NARP-Dalipnagar	
13-	Dr Karam Hussain	Dir S&F & Hod Agronomy	
14	A.H. Wasi	Crop production KVK Etawah	

Proceedings of ZREAC meeting for Rabi 2016-17 for South-Western Semi Arid Zone held on 24-10-2016

The ZREAC meeting for Rabi 2016-17 for South Western Semi Arid Zone held under the Chairmanship of Dr. H.G. Prakash, Director Research CSAUA&T, Kanpur at 11:00 AM on 24.10.2016 at NARP Research Station, Mainpuri. List of Scientists participated in the meeting is annexed.

At the outset, Dr. P.K. Sharma, Incharge RRS Kalai, Aligarh welcomed the Director Research and the participated scientists and highlighted the importance of the meeting. He also presented the progress report of *Rabi* 2015-16 and technical programme of Rabi 2016-17 of RRS Kalai Aligarh. Discipline wise Research programme presented by scientists, discussed in the meeting and decision/suggestions were as follows.

Research Programme of ZREAC, Kalai Aligarh.

Experiment 1 – Approved.

Experiment 2 – Concluded Dr. Niranjan Singh Scientist (Horticulture) suggested to conduct new experiment on micro nutrient in vegetable pea.

Experiment 3 – Approved with modification that the doses of micro nutrients may revise.

Experiment 4 – Approved.

Experiment 5 – Approved, however the house was suggested that the dose of P may revise as 00, 40, 60 and 80 kg/ha.

Experiment 6– Suggested to revise the treatments, Application N&K should be RDF where as the dose of P was suggested as 00,20,40,60 kg/ha.

Chick Pea.

Experiment 1 - Approved.

Experiment 2 - Approved.

Experiment 3 - Preliminary population trial was deleted.

Experiment 4 - Trial on summer breeding in Urdbean was approved as such.

Technical programme for GRS, Mainpuri

The research programme on foliar application of growth regulator on Mustard presented by Dr Shaukat Ali, Incharge CRS Mainpuri was approved.

Action plan of KVK Manpuri

The programme of On Farm Demonstration was presented by Dr V.R. Chaudhary, Scientist (Horticulture) KVK, Mainpuri. There were ten OFD's of different disciplines.

The officer Incharge of NARP, Hazaratpur and Head/ Sr. Scientist of KVK Kalai, Hazaratpur and Hathrus were not participated in the meeting.

The meeting ended with vote of thanks proposed by Dr. Shanker Singh, Head/ Sr. Scientist KVK Mainpuri.

3/11/2016

(R.K. Pandey)
Assistant Professor
Directorate of Research

Approved

4/XI/2016

Director Research

Directorate of Research
C.S.Azad University of Agriculture & Technology, Kanpur

No. 577 Dated. 04/11/2016

Copy forwarded for information and necessary action:

1. The Officer Incharge NARP Kalai, Manpuri and Hazaratpur.
2. Head/ Sr. Scientist KVK Mainpuri, Kalai, Hazarpur and Hathrus.
3. Director Extension
4. Technical Secretary to Vice Chancellor for kind information of Hon'ble Vice Chancellor

4/XI/2016

(H.G. Prakash)
Director Research

Directorate of Research

C. S. Azad University of Agriculture & Technology, Kanpur-208002

No- 511 /DR / 2017
Dated 01, Sept, 2017

Circular

Departmental Research Advisory Committee and Zonal Research Extension Advisory Committee meetings will be held as per schedule given below to discuss and finalize research programmes for ***Rabi* 2017-18**. The scheduled of dates should be adhered to.

S.N	Faculty/Discipline	Date & Time
A.	**Faculty of Agriculture**	
1	Vegetable Science	11.09.2017 at 10:30 AM
2	Horticulture	12.09.2017 at 10:30 AM
3	Genetics and Plant Breeding	13&14.09.2017 at 10:30 AM
4	Agronomy	15&16.09.2017 at 10:30 AM
5	Entomology	18.09.2017 at 10:30 AM
6	Crop Physiology	19.09.2017 at 10:30 AM
7	Seed Science & Technology	20.09.2017 at 10:30 AM
8	Soil Science and Agril. Chemistry	22.09.2017 at 10:30 AM
9	Plant Pathology	23.09.2017 at 10:30 AM
10	**ZREAC Central Plain Zone, Daleepnagar**	25.09.2017 at 10:30 AM
11	Agril. Biochemistry	26.09.2017 at 10:30 AM
12	**ZREAC South Western Semi Arid Zone, Kalai Aligarh**	28.09.2017 at 10:30 AM
13	Agril. Economics & Statistics	03.10.2017 at 10:30 AM
14	Agriculture Extension	10.10.2017 at 10:30 AM
15	Animal Husbandry and Dairying	11.10.2017 at 10:30 AM
16	Soil Conservation & Water management and Forestry	12.10.2017 at 10:30 AM
B.	**Faculty of Home Science**	
1	Food Science & Nutrition	13.10.2017 at 10:30 AM
2	Family Resource Management	
3	Extension Communication & Management	
4	Human Development	
5	Textile & Clothing	
C.	**Faculty of Agril. Engineering & Technology**	16.10.2017 at 10:30 AM

01/9/2017

(H.G. Prakash)
Director Research

Copy forwarded to following for information and necessary action.

1. HoD(s)/In charges of Departments/Sections with request to please inform all the scientists of concern subject working in Scheme/KVKs.
2. In-charges Rabi Cereal, Oilseed, Legume and Vegetable Sections
3. Officer In-charge of all NARP Research Stations
4. Project In charge Tobacco, Sorghum, Maize, Cotton & Paddy
5. Director Seed & Farms
6. Director Extension with request to please inform to Head of all KVKs of the Zone to ensure their participation in ZREAC meetings.
7. Dean, Faculty of Agriculture
8. Dean, Faculty of Home Science
9. Dean, Faculty of Agril. Engineering & Technology Etawah
10. T S to V C for kind information of Hon'ble Vice Chancellor.
11. Guard file Directorate of Research

(H.G. Prakash)
Director Research

Department of Agricultural Biochemistry

C.S. Azad University of Agriculture and Technology, Kanpur

Proceedings of Research Advisory Committee,Meeting

Director of Reseach ,
C.S.A.U.,Kanpur

No.ABC- 439/2017
11.10.2017

Research Advisory Committee ,Meeting for Rabi-2017-18 of the department was held on 11.10.2017.The following scientists attended the meeting:

1	Dr Madhu Vajpeyi	HOD,Agrl. Biochem.
2	Dr Mukesh Mohan	Prof , Agri Biochem
3	Dr Lallu Singh	ProfAgri Biochem
4	Dr. Sarvendra Kumar Gupta	HOD,GPB
5.	Dr. Mahak Singh	Professor,GPB(Oilseeds)
6.	Dr. Y.P. Malik	Professor,Entomology
7	Dr.D.K.Singh	Entomologist, AICRP(R-M)
8	Dr.R.K. Pandey	Asst.Prof.Office of DIR
9	Dr.Nand Kumar	Asst. Prof. Agrl. Biochem.
10	Dr. Manoj Mishra	Asst. Director,DR
11	Dr.Rakesh Babu	Asst. Prof. Agrl. Biochem.
12	Dr. Lokendra Singh	I/C Legume Section
13	Dr SB Pandey	Assist Prof Soil Sci

Results of previous year's experiments were displayed and discussed. New programs on biochemical aspects of oilseed and legume crops were discussed and finalized. All the programs were approved as such.

Directorate of Agricultural Experiment Station
Diary No. 2292/DR/17
Date 12/X/17
C.S. Azad University of Agriculture and Technology, Kanpur

(Madhu Vajpeyi)
HOD

No & dated as above
C.C.to
Dean , College of Agriculture for information.

Sri Manoj Mishra
12/X

(Madhu Vajpeyi)
HOD

Proceeding of Research Advisory Committee Meeting of Agronomy: *Rabi* 2017-18

To finalize the technical programme of *rabi* 2017-18, Research Advisory Committee Meeting of Agronomy discipline was held on dated 27.10.2016 in the committee room of the Department of Agronomy of this university. The following Officers / Scientist were present in the meeting.

S. No.	Name	Designation
1.	Dr. H.G.Prakash	Director, Agricultural Experiment Station
2.	Dr. Karam Husain	Prof. & Head, Dept. of Agronomy
3.	Dr. Lallu	Prof. & Head, Dept. of Crop Physiology
4.	Dr. S.K.Gupta	Professor & Head G.P.B.
5.	Dr. D.D.Yadav	Professor, Dept. of Agronomy
6.	Dr. Sanjeev Kumar	Professor, Dept. of Agronomy
7.	Dr. R.A.Yadav	Professor, EBR Section
8.	Dr. Ram Pyare	Professor, Dept. of Agronomy
9.	Dr. R.K.Pandey	Asstt. Professor, Directorate of Research
10.	Dr. A.K.Dubey	In charge Veg. Science
11.	Dr. V.K.Verma	Asso. Professor, Dept. of Agronomy
12.	Dr. Naushad Khan	Asso. Professor, Dept. of Agronomy
13.	Dr. M.Z. Siddiqui	Asso. Professor, Dept. of Agronomy
14.	Dr. Ashish Kumar Srivastava	Asso. Professor, Dept. of Agronomy
15.	Dr. S.K. Uttam	Asso. Professor, Dept. of SCWM
16.	Dr. Uma Shankar Tiwari	Jr Sci., Soil and Agri. Chemistry (AICRP-IFS)
17.	Dr. Y K Singh	Jr Agronomist, AICRP-IFS
18.	Dr. Hari Ram	Jr. Agronomist, AICRP on Rice
19.	Er. Lal Mani	Asstt. Professor, Dept. of Agronomy
20.	Dr. Manoj Mishra	Asstt. Professor, Directorate of Research
21.	Mr. Vishram Singh	Asstt. Professor, Dept. of Agronomy
22.	Dr. S.M. Tripathi	Asstt. Professor
23.	Dr. Mohd. Ashlam	Crop Physiology
24.	Dr A P Dubey (28.10.2016)	Assistant Professor, Agro meteorology
25.	Sri Raj Veer Singh	Technical Officer/Assistant Professor, GKMS

Meeting was started with the welcome address of Professor and Head Department of Agronomy, Dr. Karam Husain. He welcomed Director, AES (Chairman) as well as all the participants of different departments of the university. While welcoming, Dr. Husain emphasized to take up need based research considering the importance of resource conservation, residue recycling and climate change. He stressed that burning of crop residue create hazard to the soil and pollute the environment, hence it should be banned. He emphasized the need of knowing the nutrient status of the soil before recommending the doses of fertilizer for any crop.

At the end chairman advised the scientists to pool their wisdom in depth with enthusiasm and do in depth discussion to formulate the strategies for elevating sustainable agriculture production technologies. He showed confidence on scientist of varied back grounds, experience and knowledge to address the matters that is lying before the nation.

Review of previous meeting :- The proceeding of previous RAC (*Rabi*) 2016-17 meeting held on 27.10.2016 and circulated to the members vide letter no. AGR/EN 733/2017 dated 07.02.2017 was reviewed. Since there was no communication received from any members hence the proceeding was confirmed.

Discussion on Research programmes:- Non-plan research programme planned by M.Sc. (Ag) and PhD students under the supervision of faculty members were taken up first. The entire research programme was presented on power point by the concerned faculty member/scientist and was discussed at length. The decision taken is here as under.

Exp. No. 1 – Effect of irrigation frequency and application level of sulphur fertilizer on water use efficiency and yield of Mustard for central plain zone of U.P.
Experiment was discussed and approved. **Acton – Dr. Sanjeev Kumar**

Exp. No. 2 – Studies on the effect of weather parameters on performance of timely sown varieties of Wheat.
Experiment was discussed and approved. **Acton – Dr. V.K.Verma**

Exp. No. 3 – Studies on the effect of weather parameters and date of sowing on timely sown varieties of Wheat.
Experiment was discussed and approved. House suggested inclusion of one more variety DBW 107 in the experiment. **Acton – Dr. V.K.Verma**

Exp. No. 4 – Studies on the effect of nutritional levels on the performance Chickpea varieties for central plain zone of U.P.
Experiment was discussed and approved. **Acton – Dr. Ram Pyare**

Exp. No. 5 – Evaluation of new Phosphorus solubilising Bio-fertilizer for Wheat.
Experiment was discussed and approved. **Acton – Dr. Karam Husain**

Exp. No. 6 – Study on the effect of Carfentrazone-ethyl 20% + Sulfosulfuron 25% WDG on complex weed flora in irrigated Wheat crop.
Experiment was discussed and approved. **Acton – Dr. Naushad Khan**

Exp. No. 7 – Study on suitable herbicide combination for controlling mix weed flora in irrigated Wheat crop.
Experiment was discussed and approved. **Acton – Dr. Naushad Khan**

.

Wheat and Barley (plan & non plan)

Total fourteen experiments were presented by Dr. R.A.Yadav wheat Agronomist. He presented 4 experiments in plan (ICAR) and four in non plan wheat as well as six experiments of barley (ICAR).

Wheat (Plan)

Exp. No. 1 –Performance of new timely sown wheat genotypes under restricted irrigated condition.

Result of experiment discussed and experiment will be discontinued.

Action: Wheat Agronomist

Exp. No. 2 – Management of lodging and yield maximization using nutrient expert.

Result of experiment discussed and experiment will be continued.

Action: Wheat Agronomist

Exp. No. 3 –Performance of new wheat genotypes at different date of sowing under irrigated conditions. (New Experiment)

Experiment was discussed and approved. **Action: Wheat Agronomist**

Exp. No. 4 – Fine tuning the sowing time under changing climate. (New Experiment)

Experiment was discussed and approved. **Action: Wheat Agronomist**

Wheat (Non Plan)

Exp. No. 1 – Bio-efficacy analysis of carfentrazone ethyl 40% DF in wheat crop.

Result of the experiment was discussed and experiment concluded.

Action: Wheat Agronomist

Exp. No. 2 – Bio-efficacy analysis of carfentrazone ethyl 20% + sulfosulfuron 25% WG in wheat crop

Result of the experiment was discussed and experiment concluded.

Action: Wheat Agronomist

Exp. No. 3 – To evaluate the efficacy of Halauxifen methyl 6.95% w/w + Pyroxsulan 25% w/w/WG for cross spectrum weed control in wheat (*Triticum aestivum* L.).

Result of the experiment was discussed and experiment concluded.

Action: Wheat Agronomist

Exp. No. 4 – Bio-efficacy of Phytotoxicity analysis of AKJ 20 in wheat crop.

Result of the experiment was discussed and experiment will be continued.

Action: Wheat Agronomist

Barley (Plan)

Exp. No. 1 – Integrated nutrient management of barley

The result of the experiment was discussed and experiment concluded.

Action: Barley Agronomist

Exp. No. 2 – Response of new feed barley genotypes of different of dates of sowing under irrigated timely sown conditions.

Result of experiment discussed and experiment will be discontinued.

Action: Barley Agronomist

Exp. No. 3 – Standardization of row spacing in feed barley.

The result of the experiment was discussed and experiment concluded.

Action: Barley Agronomist

Exp. No. 4 – Maximization of barley yield using PGRs and N levels

The result of the experiment was discussed and experiment will be continued.

Action: Barley Agronomist

Exp No. 5 – Improving barley productivity through the use of organic manure and chemical sprays.

Result of experiment discussed and experiment will be discontinued.

Action: Barley Agronomist

Exp. No. 6 – Response of new feed barley genotypes of different N levels under irrigated timely sown conditions.

The experiment was discussed and approved.

Action: Barley Agronomist

Findings of the experiments

1. On the basis of two year study it was observed that the maximum grain yield (38.72 q/ha) was recorded with the application of 60:30:20 NPK kg/ha and minimum grain yield of barley (27.95 q/ha) was recorded with the application of 30:15:20 NPK kg/ha. Among the bio-fertilizer it was observed that the maximum grain yield (39.88 q/ha) was recorded with the application of Azotobacter + PSB followed by application of PSB (38.68 q/ha). The minimum grain yield of barley (31.49 q/ha) was recorded without application of bio-fertilizer.
2. On the basis of two year study it was observed that the maximum grain yield (42.77 q/ha) was recorded when crop is sown at spacing of 22.5 cm apart and variety HUM-113 recorded higher grain yield of barley (40.19 q/ha) compared to other varieties.
3. On the basis of two year study it was observed that the maximum grain yield (40.07 q/ha) was recorded with the application of 90 kg N /ha followed by the application of 75 kg N/ha (39.32 q/ha) and minimum grain yield of barley (36.91 q/ha) was recorded with the application of 60 kg N/ha. Among the plant growth regulators the maximum grain yield (42.16 q/ha) was recorded with the combined application of CCC + Ethephon and minimum grain yield of barley (38.33 q/ha) was recorded in control plots.
4. On the basis of two year study it was observed that the maximum wheat grain yield (50.20 q/ha) was recorded in weed free plots. Among the herbicide treated plots that the maximum grain yield was observed (48.97 q/ha) with the application of

Carfentrazone ethyl 40% DF @ 50 g/ha followed by with the application of Carfentrazone ethyl 40% DF @ 75 g/ha (48.50 q/ha).

5. On the basis of two year study it was observed that the maximum wheat grain yield (49.20 q/ha) was recorded in weed free plots. Among the herbicide treated plots that the maximum grain yield was observed (47.49 q/ha) with the application of Carfentrazone ethyl 20% + Sulfosulfuron 25% WG @ 100 g/ha followed by with the application of Carfentrazone ethyl 20% + Sulfosulfuron 25% WG @ 150 g/ha (46.95 q/ha).

6. On the basis of two year study it was observed that the maximum wheat grain yield (41.39 q/ha) was recorded in weed free plots. Among the herbicide treated plots that the maximum grain yield was observed (40.87 q/ha) with the application of Halauxifen-methyl 6.95% w/w +Pyroxulan 25% w/w WG @ 23.96 g/ha (40.87 q/ha).

Integrated Farming System Research

Technical programme of Integrated Farming System Research was presented by Dr U.S. Tiwari, Asstt. Professor, AICRP-IFS. He presented the results of different experiments including OFR as well as IFS model established at main centre. The results of following experiments were presented:

Exp. No. 1 – Identification of biological efficient and profitable cropping system in central plain zone of U.P.

The result of the experiment discussed and experiment will be continued.

Action: Scientist of AICRP-IFS

Exp. No. 2 – Development of farming system modules for central plan zone of U.P.

The result of the experiment discussed and experiment will be continued.

Action: Scientist of AICRP-IFS

On Farm Research

Exp. No. 1 – (OFR – 1) On farm crop response to plant nutrients in predominate cropping system and their impact on crop livestock human continuum.

The result of the experiment was discussed and experiment will be continued.

Action: Scientists of AICRP-IFS

Exp. No. 2 – (OFR – 2) Diversification of existing farming systems under marginal house holds conditions.

The result of the experiment was discussed and experiment will be continued to see the impact.

Action: Scientists of AICRP-IFS

Exp. No. 3 – (OFR – 3) On farm evaluation of farming systems modules for improving the profitability and livelihood of small and marginal farmers.

The result of the experiment discussed and experiment will be continued to see the impact.

Action: Scientists of AICRP-IFS

Findings of the experiments and survey: AICRP-IFS

1. Maize + Black gram-Potato-Onion (T_8) crop sequence was found most productive cropping sequences over maize as well as rice based cropping sequences. Hybrid Rice–Wheat-GG(G+R) (T_2) cropping sequences was found most economical by giving the highest (3.24) benefit-cost ratio followed by Maize-Mustard-Oneon(T5) crop sequence by fetching Rs. 3.21 per rupee investment over all other crop sequences.

2. During 2016-17, a total net income of Rs. 1,44,599.00 was recorded from on station model. Out of total net income, crop production unit, dairy unit and horticulture unit shared Rs. 75,370.00, Rs. 66,256.00 and Rs. 2973.00 respectively.

3. The highest yield of Paddy (5822 kg/ha) and Wheat (3922kg/ha) as well as Net return (Rs 104802/ha) were recorded under T_6 (NPK+Zn) followed by 5406 kg/ha Paddy, 3719 kg/ha Wheat and Rs. 95287/ha NMR under T_5 (NPK) treatment. The highest B: C ratio (2.60) was obtained under T_6 (NPK+Zn) followed by B: C ratio (2.50) with the application of Recommended NPK fertilization.

4. Among four existing farming systems prevailed in 24 household, the highest net Income (Rs. 153116.00) was registered under Crop + Dairy + Goat farming system with 0.7 ha average land holding followed by Crop + Dairy (Rs. 149926.00) practiced in 0.8 ha (2016-17).

5. The average household income of Rs. 1,40,608.00 was recorded during 2016-17 (fourth year) which was 92% higher over bench mark whereas, it was Rs. 122205.00 during third year,106411.00 during second year and Rs. 102665.00 during first year.

Vegetable (ICAR)

Dr. Rajiv, Jr. Agronomist vegetable (plan) presented results of one experiment.

Exp. No. 1 – Organic farming in coriander-radish sequence.

The result of the experiment discussed and experiment will be continued.

Action: Jr. Agronomist Vegetable

Agro meteorology (ICAR) /FASAL/GKMS

Programme of Agro meteorology (ICAR) /FASAL/GKMS presented by C.B. Singh, he reported the Technical Programme as well as findings of their scheme as follows.

Exp. No. 1 – Studies on Maize – Wheat cropping system in relation to weather.

The result of the experiment discussed and experiment will be continued.

Action: Agro-meteorologist

Exp. No. 2 – Programme of Gramin Krashi Mausam Seva

Discussed and approved with the suggestion that these service should be made available to timely to the farmers.

Action: Agro-meteorologist

Exp. No. 3 – Forecasting of Agricultural output using Agro-metrology and land based observation (FASAL).

The findings of the experiment was discussed and will be continued.

Action: Agro-meteorologist

Findings of the experiments

- Grain yield was reduced by 14.3% and 25.0% for the crop sown on 14 Dec. and 29 Dec. over to 29 Nov. sown crop. Among the cultivars, HD-2733 produced significantly higher grain yield (36.2 q/ha) but HD-2967 and K-307 were at par with 34.5 q/ha yield, where as K-9107 (30.5 q/ha) recorded lowest yield.

- Maximum temperature and rainfall during sowing to tillering and atmospheric relative humidity morning, noon, mean and rainfall during tillering to PI as well as PI to anthesis stage were favourable to achieve number of grains per ear of wheat under investigation during 2016-17 .

- The higher heat unit achieved 294.0 (21 days) and 584.4 (31 days) ^{0}C days during PI to anthesis and anthesis to maturity stage, respectively, at 29 Nov. sown crop producing higher grain yield as compared to gradually delayed sown crop. Thus, growing degree days and duration were decreased considerably with delayed sowing resulted reduced grain yield of wheat during 2016-17.

- Among the varieties HD-2733 required 285.5 ^{0}C days (18 days), 566.9 ^{0}C days (28 days) during PI to anthesis (P3) and anthesis to maturity stage (P4), respectively, which were conducive for higher yield than over other tested varieties.

Water Management (Non Plan)

Exp. No. 1 – Effect of Sowing methods, N-levels scheduling irrigation on growth and yield of late sown Wheat for central plain zone of U.P.

The result of the experiment discussed and experiment will be continued.

Acton – Dr. Sanjeev Kumar

Exp. No. 2 – Effect of irrigation schedules and Hydrogel on growth and yield Wheat in central plain zone of U.P.

The result of the experiment discussed and experiment will be continued.

Acton – Dr. M.Z.Siddiqui

Exp. No. 3 – Effect of irrigation schedules and anti-transpirants on growth and yield on different cultivar of Wheat in central plain zone of U.P.

The experiment was discussed and approved.

Acton – Dr. M.Z.Siddiqui

At the last Head of Agronomy suggested following points:

- The entire scientist should be present during meeting that will help in learning new innovative ideas.

Action: All Scientist

- Initial nutrient status of the soil should also be indicated with recommendation of the fertilizer doses.

Action: All Scientist

- Scientist should do frequent visits to their site of experimentation for better monitoring of their experiment.

Action: All Scientist

Meeting ended with vote of thanks proposed by the convenor of the meeting to Director (Agril. Exp. Station), Head of Agronomy department as well as Heads of various departments and all committee members for their active participation in fruitful discussion and suggestion during meeting.

(Karam Husain)
Head, Dept. of Agronomy

No. AGR-EN 709 /2017 of dated 30.12.2017

Copy forwarded to the following for information and necessary action:

1. Director, Agril. Experiment Station.
2. Dean, College of Agriculture.
3. Director, Extension.
4. Concerned Scientist/Agronomist.
5. Technical Secretary to V.C. for kind information to Hon'ble Vice – Chancellor.

(Karam Husain)
Head, Dept. of Agronomy

Proceeding of Research Advisory Committee meeting for Rabi 2017-18 held on at Oct.. 13,2017 in the committee room, Department of Crop Physiology.

A meeting of Research Advisory Committee was held on Oct.13,2017 at 11:00 A.M. to discuss and finalize the research programme for Rabi 2017-18 in which following Scientists were participated in the aforesaid meeting.

1. Dr. Lallu. Professor & Head, Deptt. of Crop Physiology
2. Dr. Karam Husain, Professor & Head, Deptt. of Agronomy
3. Dr. S.K.Gupta,. Professor & Head, Genetics & Plant Breeding
4. Dr. A.L. Jatav, Professor, Deptt. of Seed Science & Technology
5. Dr.Lokendra Singh. In-charge, Legume Section
6. Dr. D.R.Singh ,Professor, Deptt. of Entomology
7. Dr.Manoj Mishra, Asstt. Director,A.E.S.
8. Dr. R.K. Pandey,Asstt. Professor, Directorate of Research.
9. Dr. U.D. Awasthi, Asstt. Professor, Deptt. of Soil Conservation
10. Dr.S.N.Singh, Asstt.Professor, Deptt. of Crop Physiology
11. Dr. C.B.Verma, Asstt.Professor, Deptt. of Crop Physiology
12. Dr. D.K.Tripathi, Asstt.Professor, Deptt. of Crop Physiology
13. Dr.M. A. Khan, Asstt. Professor, Deptt. of Crop Physiology
14. Dr.A.K.Singh Asstt.Professor, Deptt. of Crop Physiology
15. Dr.S.P.Kushwaha, Asstt.Professor, Deptt. of Crop Physiology
16. Dr. O.P.Singh, Asstt.Professor, Deptt. of Crop Physiology.
17. Dr. Mohd. Aslam, Asstt. Professor Deptt. of Crop Physiology
18. Dr. (Mrs.) Meera Srivastava, Wheat Physiologist, Rabi Cereals
19. .Dr. S.K.Singh,Asstt. Professor,Genetics & Plant Breeding.
20. Dr. S.B.Pandey, Asstt. Professor, Soil Science & Agri. Chemistry
21. Dr. R.K.S. Gautam, Asstt. Professor, Deptt. of Horticulture
22. Dr. Nand Kumar, Asstt. Professor, Agril. Biochemistry

Directorate of Agricultural Experiment Station
Diary No. 249 /DR/17
Date. 18.11.17
C.S. Azad University of Agriculture and Technology, Kanpur

At the outset Dr. Lallu, Professor & Head, welcome the participants of the meeting and also presented the Action Taken Report of Rabi 2016-17 RAC meeting, research achievement and priority area of research of the department.

After the enough discussion on achievement and technical programme of Rabi 2017-18 were presented by respective scientist of the department at length and following decision were taken up by the Research Advisory Committee.

1.1 Concluded.

1.2 New experiment on Production Physiology presented by Dr O. P. Singh which was approved.

2.1 Concluded.

Sri Nancy Mishra
18/11/2017

2.2 New experiment on crop nutrition & micronutrient presented by Dr. C.B.Verma, the research advisory committee decision were that two variety of lentil (small and Bold seeded) to be taken along with three date of sowing with urea spray of .25% & .5%

3.1 Concluded.

3.1 Under stress physiology, Dr. S.N.Singh Presented, which was approved.

3.2 New experiment on stress physiology presented by Dr.M.A.Khan which was approved committee decision chickpea KWR-108 and protein content data should be taken.

4.1 Under bio-regulators, presented by Dr. S.P.Kushwaha, which was approved.

4.2 Presented by Dr. D.K.Tripathi, which was approved.

5.1 Under Agronomy, presented by Dr. Aslam which was approved

Five experiment on (AICW & BIP) were presented by Dr. (Mrs.) Meera Srivastava were discusses approved as such.

Six experiment on AICRP(R & M) were presented by Dr. Lallu were approved as such.

Meeting ended with vote of thanks proposed by Dr. Lallu, Professor & Head, of the department to the chairman and all participants.

Professor & Head
Deptt. of Crop Physiology

No.C.P.- 596 / Dated: 17-11-.2017

C.C.to:-

1. Director Research.
2. Dean, College of Agriculture
3. Technical Secretary to Hon'ble Vice-Chancellor for information to Hon'ble Vice-Chancellor.
4. All Concerned HOD / Officer In Charge.

Directorate of Agricultural Experiment Station
C.S. Azad University of Agriculture and Technology, Kanpur
Diary No. IDR/2017
Date 18-11-2017

Professor & Head
Deptt. of Crop Physiology

डा० आर० के० पाण्डेय

Directorate of Agricultural Experiment Station
Diary No. 3158 /DRI/18
Date 15/01/18
C.S. Azad University of Agriculture and Technology, Kanpur

Department of Entomology

C.S. Azad University of Agriculture & Technology, Kanpur-2

No.ENT- 563 /2017-18 Dated: 11.01.2018

Proceeding of Research Advisory Committee meeting held on 12.10.2017 for Rabi 2017-18

The RAC meeting of Rabi 2017-18 was held under the chairmanship of Dr. Dr. H.G. Prakash, Director Research AES, on 12th October, 2017 in the committee room of Department of Entomology, C.S. Azad University of Agriculture & Technology, Kanpur.

The following officers/ Scientists were present in the meeting:

Sl. No.	Name	Designation	Department
1.	Dr. H.G. Prakash	Director Research	Directorate of Research
2.	Dr. R.K. Pandey	Asstt. Prof.	Directorate of Research
3.	Dr. Neerja Agrawal	Prof. & Head	Entomology
4.	Dr. D.R. Singh	Professor	--do--
5.	Dr. Kripa Shanker	,,	--do--
6.	Dr. Y.P. Malik	,,	--do--
7.	Dr. Ram Singh Umrao	Asstt. Professor	--do--
8.	Dr. A.S. Srivastava	Asstt. Professor	--do--
9.	Dr. R.K. Dwivedi	,,	--do--
10.	Dr. Fazal Ahmad	,,	--do--
11.	Dr. D.K. Singh	,,	Oil Seed
12.	Dr. Jitendra Kumar	,,	Rabi Cereals
13.	Dr. S.B. Pandey	Asstt. Chemist	Soil Sci, & Chemistry
14.	Dr. S.K. Uttam	Asso. Professor	S.C.W.M.
15.	Dr. Ved Ratan	HOD,	Plant Pathology
16.	Dr. Rakesh Babu Gautam	Asstt. Professor	Agril. Bio-Chemistry
17.	Dr. R.K.S. Gautam	Asstt. Professor	Horticulture
18.	Dr. A.K. Sachan	Asstt. Director (S&F)	Directorate S&F
19.	Dr. R.K. Sachan	Asstt. Professor	Horticulture

Dr. Neerja Agrawal, Professor & Head, Department of Entomology welcomed the Chairman and all the participants from other Departments and Entomology Department and presented the thrust area of research and salient achievements of the year 2016-17.

Achievements of Rabi 2016-17

During Rabi 2016-17 total 21 approved projects were conducted. The salient achievements are as follows.

1. Prevalence of natural parasites and predators on insect pests of tomato were studied and it was found that *Helicoverpa armigera* and aphid were the major pests and *Coccinella* Sp. was recorded as predator.

2. Imidacloprid, Indoxacarb and Novaluran were found safe on coccinellid predators.

3. Rat menace was controlled at Old Dairy Farm, Seed Processing Plant Kalyanpur, New Dairy Farm Kalyanpur, Oilseed Farm, Kalyanpur, Nawabganj Research Farm and Student Farm.

4. Out of 50 germplasms of vegetables, 6 germplasms were found moderately resistant to nematode *M. cognita*. None was found resistant.

5. Treatment with bioagent *Bacillus pumilus* @ 2.5 Kg+2.5 t FYM/ha was superior to control *Meloidogyne* spp. in bittergourd.

6. Cabbage leaves were found to act as biofumigant to minimise plant parasitic nematode in Okra @ 5kg/m^2.

7. Pigeonpea, gerbera and okra were found having maximum infestation of nematodes in the districts of Fatehpur, Sikanderpur (Unnao) and Farukhabad, respectively.

The projects presented for the current (Rabi 2017-18) programme were approved as follows:

Project No. 1- Approved as such.
Project No. 2- Approved as such.
Project No. 3- Approved as such.
Project No. 4- Approved as such.
Project No. 5- Approved as such.
Project No. 6- Approved with minor correction in the name of Experiment where macro fauna should be replaced with birds fauna. The venue of experiment should be Insectary at C.S.A.U. and Kanpur Zoo.
Project No. 7- Approved as such.
Under AICRP Nematode, Project No. 8- 11 were Approved as such.
Under All India coordinated Wheat and Barley Improvement Project (ICAR) (Rabi 2017-18), Experiment No. 1-6 were discussed and approved as such.

The meeting was over with appreciation remarks of Director AES, Dr. H.G. Prakash and vote of thanks by Dr. D.R. Singh.

(Neerja Agrawal)
Professor & Head

Proceeding of Research Advisory Committee (RAC) Meeting of the Department of Genetics and Plant Breeding, C.S. Azad University of Agriculture and Technology, Kanpur for Rabi 2017-18 was convened on October 16-17, 2017.

The meeting was chaired by Dr. H.G. Prakash, Director Research. At the outset Dr. S.K. Gupta, HoD welcomed Director Research and all heads, teachers and scientists.

(I) Cereal Crops:-

1. Wheat: Research programme was presented by **Dr. P.N. Awasthi and Dr. Somveer Singh**

Expt. No. 1 and 2: Approved.

Expt. No. 3: Suggested by house to add "under timely sown irrigated condition" in name of experiment.

Expt. No. 4: Approved.

Expt. No. 5: House suggested to modify experiment.

Expt. No. 6: House suggested to conduct trials separately in saline and alkaline soil conditions.

Expt. No. 7: Approved.

Expt. No. 8: House suggested to use **"restricted irrigation at CRI stage"** in place of drought resistant.

Expt. No. 9 to 12: Approved.

2. Barley: Research Programme was presented by **Dr. P.K. Gupta**.

Expt. No. 1 to 14: Approved.

3. **Rapeseed & Mustard**: Research programme was presented by **Dr. Mahak Singh.** Three projects of Toria, five projects of Yellow Sarson and nine projects of Indian mustered were approved by house.

4. **Tobacco**: Research programme was presented by Dr. A.K. Srivastava. All projects were approved by house, as such.

5. **Linseed**: Research programme was presented by **Dr. Nalini Tewari**.

Expt. No. 1: House suggested to mention name of entries.

Expt. No. 2 to 9: Approved by house. It was suggested to mention the name of technical worker/field man under separate head.

6. **Chickpea**: Research programme was presented by **Dr. K.P. Singh**.

Expt. No. 1 and 2: Approved.

Expt. No. 3 House suggested to retain only top three entries and repeat this trial including 9 bulks along with new check.

Expt. 4 to 5: House suggested to promote only superior entries in advance trial, which is showing more than 10% superiority to the best check.

Expt. No. 6: Approved.

Prepared by

(S.K. Singh)

(R.P. Vyas)

Approved by

(Satyendra Kumar)
HoD, Genetics & Plant Breeding

(H.G. Prakash)
Director Research

Proceeding of the meeting of Research Advisory Committee *Rabi* 2017-18 Department of Plant Pathology held on dated 25.11.2017

The following were present in the meeting:

1. Dr. H. G. Prakash, Director AES
2. Dr. S. K. Gupta, HOD, GPB
3. Dr. A.L. Jatav, Professor, Seed Science & Technology
4. Dr. Ved Ratan, Professor, Plant Pathology
5. Dr. U. K. Tripathi, Professor, Plant Pathology
6. Dr. S. K. Biswas, Professor, Plant Pathology
7. Dr. Narendra Singh, Professor, Plant Pathology
8. Dr. V.K. Singh, HOD, Agril. Ext.
9. Dr. Kripa Shanker, Professor., Entomology
10. Dr. Manoj Mishra, Asstt. Director, Directorate of Research
11. Dr. R.K. Pandey, Asstt. Prof., Directorate of AES
12. Dr. S.B. Pandey, Asstt. Prof., Soil Science & Agri. Chem.
13. Dr. S. M. tripathi, Asstt. Prof., Horticulture
14. Dr. Ramesh Singh, Asstt. Prof., Plant Pathology (Vegetable Science)
15. Dr. Javed Bahar, Asstt. Prof. Wheat Pathologist, EBR

The meeting was started with the warm welcome of Chairman Dr. H.G. Prakash, Director AES, scientists of Plant Pathology department and other scientists of different departments by Head, Department of Plant Pathology. He briefed the committee about the overall progress in research of the department during last year. Director AES suggested that some experiments on Green Economic crops like Sugarcane to be formulated so that the result can be communicated for state recommendation. He also stressed to conduct department wise a brain storming session on particular topic. Head of Department informed to the house that total 25 research projects (including Plan & non Plan) have been submitted by the scientists. Each programme was discussed thoroughly and decision/suggestion were taken as given below.

(A) Plant Pathology department (Non Plan):

Project No. 1 — **1.** Management of early and late blight of Tomato caused by *Alternaria solani* and *Phytophthora infestans*. **Approved**

Project No. 2 — **2.** Management of powdery mildew of Pea caused by *Erysiphae polygoni*. **Approved**

Project No. 3 — **3.** Comprative evaluation of different substrates for the production of Oyster mushroom (*Pleurotus* sp.) **Approved**

Project No. 4 — **4.** Preparation of good quality casing material for production of White button mushroom. **Approved**

Project No. 5 — **5.** Induced resistance in tomato against Fusarium wilt through Plant extracts. **Approved**

Project No. 6 — **6.** Evaluation of new chemical and bio fungicides against *Fusarium oxysporum* f.sp. *cierai* causing wilt of chickpea. **Approved** with the suggestion that one more treatment of mancozeb+carbendazim and Dr. A.L. Jatav will also be associate.

Project No. 7 — **7.** Effect of different botanicals (extracts) on seed treatments against seed borne diseases of lentil. **Approved** with one more treatment of claerodendran enermy (0.2%) and Dr. A.L. Jatav will also be associate as research worker.

All India Coordinated Project (Plan)

B. (i) Rabi Cereal Section (Total Experiment 7):

Wheat

Project No. 1 — **1.** Plant Pathological Screening Nursery (PPSN). **Approved**

Project No. 2 — **2.** Monitoring of spread and incidence of diseases in "Wheat disease trap nursery" under natural conditions (WDMN). **Approved**

Project No. 3 — **3.** Crop health monitoring - Pre & Post harvest survey of wheat & barley crop. **Approved**

Barley

Project No. 4 — **4.** National barley diseases screening nursery (NBDSN). **Approved**

Project No. 5 — **5.** Initial Barley Disease Nursery (IBDSN). **Approved**

Project No. 6 — **6.** Elite barley screening nursery (EBDSN). **Approved**

Project No. 7 — **7.** Chemical Control of Leaf Blight in Barley. **Approved**

(ii). **Linseed (Total experiment-6):**

Project No. 1 — 1. Evaluation of Linseed varieties in breeder seed chain against *Alternaria blight*. **Approved**

Project No. 2 — 2. Survey of disease of linseed prevailing in this region. **Approved**

Project No. 3 — 3. Screening of germplasms against wilt disease of linseed. **Approved**

Project No. 4 — 4. Uniform disease nursery trial under natural condition (UDN). **Approved**

Project No. 5 — 5. Uniform disease nursery trial under natural artificial condition (UDNA) for advanced breeding lines. **Approved**

Project No. 6 — 6. Evaluation of promising entries/elite material under high inoculums pressure (ADNT). **Approved**

Project No. 7 — 7. Management of wilt in linseed. **Approved**

(iii). **Potato (Total experiment-4):**

Project No. 1 — 1. Monitoring of Late Blight and A2 mating type of *P. Infestans* in standing crop and tubers at harvest and after cold storage. **Approved**

Project No. 2 — 2. Survillance of important Potato disease in the region (Pest capture plots). **Approved**

Project No. 3 — 3. Management of common scab. **Approved**

Project No. 4 — 4. Monitoring of Aphids, *Myzus persicae* and *Aphis gossypii* in unsprayed Potato crop.. **Approved**

The meeting was ended with vote of thanks.

15.11.17

(Ved Ratan)
Head
Plant Pathology

16/11/2017

(H.G. Prakash)
Director
Agriculture Experiment Station

Director
Agriculture Experiment Station
C.S. Azad Univ. of Agri. & Tech.
Kanpur

PROCEEDINGS OF RAC MEETING HELD ON 09-11-2017 FOR RABI, 2017-18 IN THE DEPARTMENT OF SOIL CONSERVATION AND WATER MANAGEMENT

A meeting was held on 09-11-2017 to finalize the research programme of Rabi 2017-18. Following scientists/teachers were present:

S.No.	Name	Designation
1.	Dr. Mohd. Shamim	Asstt. Director, AES
2.	Dr. Manoj Mishra	Asstt. Director, AES
3.	Dr. R.P. Singh	Head of Department, SCWM
4.	Dr. Munish Kumar	Professor, SCWM
5.	Dr. S.C. Katiyar	Professor, SCWM
6.	Dr. S.K. Uttam	Associate Professor, SCWM
7.	Dr. Kaushal Kumar	Associate Professor, SCWM
8.	Dr. U.D. Awasthi	Assistant Professor, SCWM
9.	Dr. A.K. Katiyar	Assistant Professor, SCWM
10.	Dr. D.K. Tripathi	Assistant Professor, Crop Physiology
11.	Dr. R.K. Dwivedi	Assistant Professor, Entomology
12.	Dr. S.B. Pandey	Pesticide Chemist, SAC

Directorate of Agricultural Experiment Station
Diary No. 2664/DR/17
Date 20/11/17
C.S. Azad University of Agriculture and Technology, Kanpur

After warm welcome by Dr. R.P. Singh, Head of Department to all participants in the meeting, the achievements and compliance report was presented for various research programmes. During meeting, projects were presented one by one by relevant teachers given as under:

Project No. 1: Last year Ph.D. trial was presented by Dr. S.K. Uttam. It was suggested that the data should be procured from the student and should be presented in the next year meeting. The project was approved by the committee and allowed to continue in Rabi 2017-18 for confirmation of the findings.

Project No. 2: One year trial was conducted by Dr. U.D. Awasthi related to M.Sc.(Ag.) programme. It was suggested that the data should be procured from the student and should be presented in the next year meeting, and therefore, it was decided to drop the same.

Project No. 3: A new programme was proposed by Dr. U.D. Awasthi related to Ph.D. trial. The project was approved with the suggestion that RDF treatment should be modified as 75% RDF + seed treated with culture + PSB @ 2.5 kg/ha in soil in place of RDF + seed treated with culture + PSB @ 2.5 kg/ha in soil.

Project No. 4: Last year M.Sc.(Ag.) trial was proposed by Dr. Sarvesh Kumar. The experiment

was presented by Dr. Munish Kumar. It was suggested that the data should be procured from the student and should be presented in the next year meeting. The project was approved by the committee and allowed to continue in Rabi, 2017-18 for confirmation of the findings.

Project No. 5: A new programme was proposed by Dr. Sarvesh Kumar related to Ph.D. trial. The experiment was presented by Dr. Munish Kumar. The project was approved with the remark to delete a treatment of nutrient managements ie. application of FYM @ 8 t/ha and add 75 % RDN + 25% N through FYM.

Project No. 6: Last year M.Sc.(Ag.) trial was presented by Dr. Kaushal Kumar. The project was approved and allowed to continue in Rabi, 2017-18 for confirmation of the findings.

Project No. 7: A new experiment of P.G. student was presented by Dr. Kaushal Kumar. The project was approved by the members of RAC, as such.

Project No. 8: The experiment was conducted for 02 years by Dr. Sarvesh Kumar related to Ph.D. trial. The experiment was presented by Dr. Munish Kumar and was allowed to conclude by the committee. Recommendations of trial were as under:

(a) Among moisture conservation practices, application of organic residue mulch after weeding & hoeing obtained significantly maximum seed, stover and biological yields of chandrasur as compared to control during both the years.

(b) Biofertilizer (PSB) and vermicompost brought about significant increase in seed & stover yields as well as harvest index of chandrasur as compared to application of RDN (100%) through fertilizer during both the year of experimentation.

(c) Significantly highest seed, stover & biological yields of chandrasur was recorded under treatment of irrigation at 35 & 70 DAS during both the years.

(d) The interaction between different treatments was not found significant in any case of yields during 2015-16 and 2016-17.

Project No. 9: It was presented by Dr. Munish Kumar related to M.Sc.(Ag.) trial and was discussed in detail with logistics. The title of the project was revised as "Evaluation of microbial inoculants under different levels of fertilizers on growth and yield in chickpea under moisture stress condition" and was approved as such.

Project No. 10: A new experiment was presented by Dr. Munish Kumar related to Ph.D. trial. House suggested delete conventional method (control-1) and conventional method (control-2) from treatment T_0 and T_1, respectively. The theme and experimental planning was approved as such.

Project No. 11: Two years trial was conducted by Dr. P.N. Yadav related to Ph.D. programme. The experiment was presented by Dr. S.K. Uttam and allowed to conclude. The recommendations were:

Based on results obtained during the two years of experimentation it can be inferred that linseed + lentil (3:1) supplemented with 75% RDN through inorganic + 25% RDN through vermicompost + Biofertilizer (seed coating) + PSB @ 2.5 kg ha-1 in soil has been found remunerative in respect to linseed equivalent yield, LER, WUE and B:C ratio, may be recommended invariably to practice under rainfed condition.

Project No. 12: The Ph.D. experiment was conducted for 2 years. Dr. S.C. Katiyar presented the data and project was allowed to conclude by the committee. Recommendation of the trial were as under:

The research experiment was carried out from results of both year during 2015-16 and 2016-17 an overall conclusion may be significant of N_1 (100% RDN) with M_2 (Dust mulching) at V_1` - Narmada (K-603) variety compared to control treatment in express given above all observations.

The meeting was ended with vote of thanks and concluding remarks by Dr. S.K. Uttam, Associate Professor of this department.

(**R.P. Singh**)
Head of Department

Department of Soil Conservation and Water Management
C.S. Azad University of Agriculture & Technology, Kanpur-208002

No. 579 /SCWM/2017-18 Dated: Nov. 20 ,2017

Copy forwarded for information & necessary action to:

1. Dean, Faculty of Agriculture, CSAU, Kanpur
2. Director, Agricultural Experiment Station, CSAU, Kanpur
3. Professor & Heads(s)/In -charge (s) of the Department – Agronomy, Soil Sci. & Agril. Chemistry, Plant Pathology, Entomology, Crop Physiology and Agril. Economics & Statistics
4. All Teachers/Scientists of the Department
5. T.S. to V.C. for kind information of Hon'ble Vice-Chancellor.

20-11-17
(**R.P. Singh**)
Head of Department

Proceedings of RAC Meeting of Rabi 2017-18,
Deptt. of Soil Science & Agricultural Chemistry held on 30.10.2017

The following members were present in the Research Advisory Committee meeting:

1. Dr. R.C. Nigam,	Head of Department
2. Dr. Ravindra Kumar	Professor, Soil Salanity
3. Dr. Dr. R.K. Pandey	Asstt. Prof. of Directorate of Research
4. Dr. J. Rai	Agri. Economics & Statistics
5. Dr. S.K. Mishra	Asstt. Prof. Deptt. of Soil Science & Agril. Chem.
6. Dr. Sushil Dimree	Asstt. Prof. SAC
7. Dr. S.K. Uttam	Associate Professor, Soil Conservation
8. Dr. Ram Singh Umrao	Entomology
9. Dr. K.P. Singh	Legumes
10. Dr. Anil Kr. Sachan	Assoc. Prof.SAC
11. Dr. S.P. Kushwaha	Asstt. Prof., C.P.
12. Dr. Anjani Kr. Singh	Asstt. Prof., AES
13. Dr. K.N. Singh	Asstt. Prof. SAC
14. Dr. R.K. Pathak	-do-
15. Dr. S.B. Pandey	-do-
16. Dr. S.D. Dubey	-do-
17. Dr. Monoj Kumar Mishra	Asstt.Director Research
18. Dr. M.R. Pandey	Asstt. Prof. SAC
19. Dr. K.N. Singh	Asstt. Prof.

At the outset Prof. R.C. Nigam , Head of Deptt. warmly welcomed the representative of Director Research Dr. R.K. Pandey and other faculty members of the various deptt. and faculty members of the Deptt. He emphasized that productivity and soil health deteriorated day by day due to injudicious and imbalance use of chemical fertilizer. He also gave remarks on the priority area of soil science research . The following scheme wise research programme were presented and discussed in the meeting

Quality testing of Pesticides, Fertilizers, Manures and allied products .

1- Quality testing of pesticide.
2- Quality testing of fertilizers, manures and allied products.

The both above projects presented by Dr. S.B. Pandey before the house and after long discussion both projects were approved.

Microbiology:

Project-1 Isolation and multiplication of Rhizobium culture and its mass production.
Project-2 Isolation multiplication of Azotobacter strains and its mass production.

Dr. S.D. Dubey presented the research programme and approved by the house after through discussion .

Soil Survey:

Project-1: Effect of NPK secondary and micronutrients on maize barley cropping sequence.
Project-2 Effect of primary, secondary and micronutrients on Urd-Mustard cropping sequence.
Project-3: Response of Boron on mustard-urd cropping sequence in central alluvial soils of U.P.

All above three projects presented by Dr. S.K. Mishra and approved after long discussion.

Soil Fertility:

Project-1 : Long term fertility experiment on paddy –wheat cropping sequence.

The above project initiated during 1954-55 and with some modification in the treatments on separate project with same title started during 1071-72.

Project was presented by Dr. S.K. Mishra and approved by the house without any modification.

Soil Testing Scheme:

Project-1: Soil fertility evaluation for balanced fertilization on cultivators field and other projects.
Project:2 Rationalization of the nitrogen doses for high yielding rice-wheat cropping sequence.
Project:3 Evaluation of soil fertility status of university farm in respect of macro as well as micronutrients.
Dr. M.R. Pandey presented the detail programme of the above three projects and approved after long discussion.

AINP on Pesticide Residues:

Project-1: Study the persistence of Cyhalothrin-L on Cauliflower.
Project-2: Study the persistence of Cyhalothrin-L on Green Pea.
Project-3: Study the persistence of Cyhalothrin-L on Cucumber.
Project-4: Study the persistence of Cyhalothrin-L on Okra.

Project-5: Study the persistence of Cyhalothrin-L on Brinjal
Project-6: Study the persistence of Cyhalothrin-L on Bitter gourd.
Project-7: Study the persistence of Cypermethrin on Bitter gourd.
Project-8: Study the persistence of Cypermethrin on Okra
Project-9: Study the persistence of Ethion on Cauliflower.
Project-10: Study the persistence of Ethion on Okra.
Project-11: Study the persistence of Ethion on Bitter gourd.
Project-12: Study the persistence of Cyhalothrin-L on Cabbage.

All above experiments presented by Prof. R.C. Nigam and discussed in the house for their technical aspects. Since all the project formulated and decided to conduct field trial at workshop of AINP on Pesticide residues therefore all the project of pesticide residues approved.

Professor (IFFCO) Chair:

Under this scheme following projects were discussed.

1- Site specific nutrient management for MEY in maize –wheat cropping sequence at Farmer's field district Kanpur.
2- Site specific nutrient management for MEY in hybrid rice-wheat cropping sequence in inceptisols.
3- Breaking yield stagnation by SSNM in rice-wheat cropping sequence at farmers field at Kanpur
4- Dr. R.N. Dixit presented the technical programme of above all three projects and after thorough discussion projects approved as such.

AICRP of Micro and secondary nutrients and pollutants elements in soil and plants.

The following programmes were presented by Dr. Anil Kumar and after discussion in the house . All programmes were finalized and approved without and modification.

1- Delineation and reassessment of micro and secondary nutrients deficient are as and updating soil fertility maps.
2- Retirement of critical values of micro and secondary nutrients in soils and standardization of soil test methods .
3- Amelioration of micro and secondary nutrients deficiency in crops.
4- Assessing influence of P buildup on the availability of micro nutrients in soils and its nutrition.
5- Monitoring of heavy metal toxicity in relation to soil plants human/animal continuum.
6- Effect of phasing of Zn application on fate of Zn pools in different soils and cropping system.

AICRP on Management of Salt affected soils and use of saline water in Agriculture.

Following projects were presented by Dr. Ravindra Kumar and discussed in the house. All the coordinated project of the scheme approved after thorough discussion the house.

1- Survey and characterization of underground irrigation water of Kanpur Dehat district of Uttar Pradesh.
2- Conjunctive use of high RSC water in different cropping systems under sodic soils.
3- Screening of rice wheat and mustard varieties / genotypes in sodic soils .
4- Effect of CSR-BIO on tomato and cabbage in sodic soils .
5- Assessment of efficacy of organic amendments for sustainable crop production under rice-wheat cropping system in sodic soils.
6- Evaluation of microbial formulations for crop productivity and soil health under different agro ecosystems.

Meeting ended with the vote of thanks proposed by Prof. R.C. Nigam Head of Deptt. to all the members present in the research advisory committee meeting . He also thanks to all supporting staff of the department who help in conducting this research advisory committee meeting .

(R.C. Nigam)
Head of Department

Department of Soil Science & Agricultural Chemistry
C.S.Azad University of Agri. & Technology, Kanpur-2

No. 741 /2017 Dated: 21-11-2017

Copy forwarded for information and necessary action:

1. Dean, College of Agriculture.
2. Director, Agriculture Experiment Station.
3. All Professor & Head of the department.
4. Concerned Scientist of the department.

(R.C. Nigam)
Head of Department

Section of Vegetable Science
C.S. Azad Univ. of Agri. & Technology, Kanpur-208024

No.: VGS / 641-A/2017-18 Dated: December 30, 2017

Proceedings of the RAC *Rabi* meeting held on September 23, 2017 under the chairmanship of Director Research, CSAUA & T Kanpur.

At the outset, Officer-in-charge, Vegetable Section welcomed the chairman, JDR and Heads of other discipline and members of the RAC. Officer-in-charge presented salient research achievements for *Rabi* 2017-18. The research programmes of different vegetable crops were presented by the respective crop scientists. The decision taken by RAC, reflected here as under –

- Director Research as suggested to table pea breeder for making a fresh set of crossing programme during current session.

(Action taken- Dr. P. K. Tiwari)

- Under seed spices programme Director Research has noticed that some new germplasm should be taken from the NRC (Seed Spices) Ajmer (Raj.).

(Action taken- Dr. Sanjiv Kr. Singh)

- It was observed that the F.S. Vegetable Science would inform to concern crop Scientist/Breeder about the maturing of the crop prior to harvesting.

(Action taken- Dr V. K. Yadav)

- The remaining research programme was approved for the year 2017-18 in Table pea, French been, seed spices (Coriander, Fenugreek, Fennel, Nigella, Ajwain & Soya) Potato, Onion and Garlic without any modification.
- The Chairman also suggested that every crop breeder should enrich their germplasm from other esteemed Institution. The required fund for *to* and *fro* journey would be provided from other sources.

Approved
30/12/17
Director Research Section
Agriculture Experimentation
C.S. Azad Univ. of Agri. & Tech.
Kanpur

The vote of thanks given by the Dr. Sanjiv Kumar Singh, Assistant Professor Vegetable

Encl.: List of participants

(A.K. Dubey) 30/12/17
Officer In-charge

Letter No. & Dated: Above
Copy to the followings

1- Director, AES.
2- Technical Secretary to the Vice Chancellor for information to Hon'ble Vice Chancellor.

(A.K. Dubey) 30/12/17

List of Participants of *Rabi* RAC meeting held at Section of Vegetable Science, CSAUA&T, Kalyanpur, Kanpur on Saturday, September 23th, 2017.

S.N.	Participants	Designation	Department
1	Dr. H. G. Prakash	Director Research	Directorate of Research
2	Dr. D.P. Singh	Joint Director Research	Directorate of Research
3	Dr. A.K.Dubey	Officer-in-charge	Vegetable Science
4	Dr. Lallu Singh	Prof.& Head	Crop Physiology
5	Dr.R.K.Pandey	Assistant Professor	Directorate of Research
6	Dr. I.N.Shukla	Assistant Professor	Vegetable Science
7	Dr.Sanjive Kumar Singh	Assistant Professor	Vegetable Science
8	Sri. Niranjan Singh	Assistant Professor	Vegetable Science
9	Dr. C.L. Maurya	Professor & Head	S.S. & Technology
10	Dr. M.R. Dabbas	Assistant Professor	Vegetable Science
11	Sri. U.C. Mishra	Assistant Professor	Vegetable Science
12	Dr.Rajiv	Jr. Agronomist	Vegetable Science
13	Sri.S.D.Dutta	Statistical Assistant	Vegetable Science
14	Dr.V.K.Yadav	Farm Suptt.	Vegetable Science
15	Mrs. Vidushi Katiyar	Computer Programmer	Vegetable Science
16	Sri. Saurabh Dixit	SRF	Vegetable Science
17	Sri. Virendra Pratap Singh	SRF	Vegetable Science
18	Dr.A.K.Yadav	SRF	Vegetable Science
19	Sri. Hari Vijay Dubey	JRF	Vegetable Science

30/12/17

(A.K. Dubey)
Officer In-charge

Directorate of Research

C. S. Azad University of Agriculture & Technology, Kanpur-208002

Ref. 683 /DR/2018
Dated: 28 Sept, 2018

Circular

Departmental Research Advisory Committee and Zonal Research Extension Advisory Committee meetings will be held as per schedule given below to discuss and finalize research programmes for ***Rabi* 2018-19**. The scheduled of dates should be adhered to.

S.N	Faculty/Discipline	Date & Time
A.	**Faculty of Agriculture**	
1	Vegetable Science	03.10.2018 at 10:30 AM
2	Horticulture	04.10.2018 at 10:30 AM
3	Agril. Biochemistry	05.10.2018 at 10:30 AM
4	Agronomy	06.10.2018 at 10:30 AM
5	Entomology	08.10.2018 at 10:30 AM
6	Crop Physiology	09.10.2018 at 10:30 AM
7	Seed Science & Technology	10.10.2018 at 10:30 AM
8	Soil Science and Agril. Chemistry	11.10.2018 at 10:30 AM
9	Plant Pathology	12.10.2018 at 10:30 AM
10	**ZREAC Central Plain Zone, Daleepnagar**	15.10.2018 at 10:30 AM
11	Soil Conservation & Water management and Forestry	16.10.2018 at 10:30 AM
12	**ZREAC South Western Semi Arid Zone, Kalai Aligarh**	17.10.2018at 10:30 AM
13	Genetics and Plant Breeding	22-23.10.2018 at 10:30 AM
14	Agriculture Extension	24.10.2018 at 10:30 AM
15	Animal Husbandry and Dairying	25.10.2018 at 10:30 AM
16	Agril. Economics & Statistics	26.10.2018 at 10:30 AM
B.	**Faculty of Home Science**	
1	Food Science & Nutrition	27.10.2018 at 10:30 AM
2	Family Resource Management	
3	Extension Communication & Management	
4	Human Development	
5	Textile & Clothing	
C.	**Faculty of Agril. Engineering & Technology**	29.10.2018 at 10:30 AM

(H.G. Prakash)
Director Research

Copy forwarded to following for information and necessary action.

1. HoD(s)/In charges of Departments/Sections with request to please inform all the scientists of concern subject working in Scheme/KVKs.
2. In charges Rabi Cereal, Oilseed, Legume and Vegetable Sections
3. Officer In charge of all NARP Research Stations
4. Project In charge Tobacco, Sorghum, Cotton & Paddy
5. Director Seed & Farms
6. Director Extension with request to please inform to Head of all KVKs of the Zone to ensure their participation in ZREAC meetings.
7. Dean, Faculty of Agriculture
8. Dean, Faculty of Home Science
9. Dean, Faculty of Agril. Engineering & Technology Etawah
10. T S to V C for kind information of Hon'ble Vice Chancellor.
11. Guard file Directorate of Research

(H.G. Prakash)
Director Research

Department of Agricultural Biochemistry

C.S. Azad University of Agriculture and Technology, Kanpur

No. ABC- 555/2018 Dt. 31/10/18

Proceedings of Research Advisory Committee ,Meeting

To,
The Director of Reseach ,
C.S.A.U.,Kanpur

Directorate of Agricultural Experiment Station
Diary No. 2352 /DRI/ 18
Date 31-10-2018
C.S. Azad University of Agriculture and Technology, Kanpur

Research Advisory Committee ,Meeting for Rabi-2018-19 of the department, chaired by The Director Research, was held on 30.10.2018.The following faculty attended the meeting:

1	Dr.H.G. Prakash	Professor/Director Research
2	Dr Madhu Vajpeyi	Professor/HOD ABC
3	Dr Rakesh Babu	Assist Prof Biochem
4	Dr SB Pandey	Assist Prof Soil Sci
5	Dr Lallu	Prof Physiology Oilseed Section
6	Dr. S.K. Gupta	Professor/ HOD GPB
7	Dr. P. K. Gupta	Barley Breeder/ Incharge AICW&BIP,EBR
8	Dr. Nand Kumar	Assist Prof Biochem
9	Dr.Geeta Rai	Breeder, Field Pea,Legume Section

Results of previous year's experiments were displayed and discussed. New programs on biochemical aspects of some crops were discussed and finalized . All the programs were approved as such.

S.K. Sri Manoj Mehra
01/x/2018
DR
31/10/18

31.10.18

(Madhu Vajpeyi)
Professor & Head
Dept. Agri. Biochemistry
Head
C.S.A.U.Agri. & Technology
Kanpur

Proceeding of Research Advisory Committee Meeting of Agronomy: *Rabi* – 2018-19

To finalize the technical programme of *rabi* 2018-19, Research Advisory Committee Meeting of Agronomy discipline was held on dated 01.11.2018 in the committee room of the Department of Agronomy of this university. The following Officers / Scientist were present in the meeting.

S. No.	Name	Designation
1.	Dr. H.G.Prakash	Director, Agricultural Experiment Station
2.	Dr. Karam Husain	Prof. & Head, Dept. of Agronomy
3.	Dr. U.K.Tripathi	Professor, Dept. of Plant Pathology
4.	Dr. S.K.Gupta	Professor & Head G.P.B.
5.	Dr. D.D.Yadav	Professor, Dept. of Agronomy
6.	Dr. Sanjeev Kumar	Professor, Dept. of Agronomy
7.	Dr. R.A.Yadav	Professor, EBR Section
8.	Dr. Ram Pyare	Professor, Dept. of Agronomy
9.	Dr. A.K.Dubey	In charge Veg. Science
10.	Dr. Y.P. Malik	Professor, Dept. of Entomology
11.	Dr. G.S.Parihar	Asso. Professor, Paddy, Non-Plan
12.	Dr. A.K.Srivastava	Asso. Professor, Dept. of Agronomy
13.	Dr. V.K.Verma	Asso. Professor, Dept. of Agronomy
14.	Er. S.K. Sachan	Asso. Professor, Dept. of Agronomy
15.	Dr. Lokendra Singh	Asso. Professor, Dept. of GPB
16.	Dr. Naushad Khan	Agro meteorologist, Dept. of Agronomy
17.	Dr. M. Z. Siddiqui	Asso. Professor, Dept. of Agronomy
18.	Dr. Mohammad Shamim	Asstt. Director, Directorate of Research
19.	Shri Vishram Singh	Asstt. Professor, Dept. of Agronomy
20.	Dr. Uma Shankar Tiwari	Asstt. Soil Chemist, AICRP-IFS
21.	Dr. Rajiv	Assistant Agronomist, Veg. Science
22.	Dr. S.B. Pandey	Assistant Professor, Dept. of SAC
23.	Sri Raj Veer Singh	Assistant Agronomist, EBR Section
24.	Dr. V.B. Jaiswal	Assistant Agronomist, AICRP Potato
25.	Dr C.B. Singh	Field Man, Agro meteorology

Meeting was started with the welcome address of Professor and Head Department of Agronomy, Dr. Karam Husain. He welcomed Director, AES (Chairman) as well as all the participants of different departments of the university. While welcoming, Dr. Husain emphasized to take up need based research considering the importance of resource conservation, residue recycling and climate change. He stressed that burning of crop residue create hazard to the soil and pollute the environment, hence it should be recycled after processing. He emphasized the need of knowing the nutrient status of the soil before recommending the doses of fertilizer for all crop.

Dr. H.G. Prakash, Director, AES in his chairman addresses said that only variety development will not be sufficient achievement unless the whole package of practices is developed and made available to the farmers. He emphasised about the judicious management of natural resources under changing climatic situations.

At the end chairman advised the scientist to pool their wisdom in depth with enthusiasm and deep discussion to formulate the strategies for elevating sustainable agriculture production technologies. He showed confidence on scientist of varied back grounds, experience and knowledge to address the matters that is lying before the nation.

Review of previous meeting :- The proceeding of previous RAC – Rabi, 2017-18 meeting held on 31.10.2017 and circulated to the members vide letter no. AGR/EN 709 /2017 dated 30.12.2017 were reviewed. Since there was no communication received from any members hence the proceeding was confirmed.

Discussion on Research programmes :- Non-plan research programme planned by M.Sc.(Ag) and PhD students under the supervision of faculty members were taken up first. The entire research programme was presented on power point by the concerned faculty members/scientists and was discussed at length. The decision taken is here as under.

Exp. No. 1 – Effect of sowing methods N-level and scheduling irrigation on growth and yield of late sown wheat

The result of the experiment was discussed and experiment will be continued.

Action – Dr. Sanjeev Kumar

Exp. No. 2 – Study on effect of herbicides on growth, yield and economics of irrigated linseed.

This is a new experiment planned for M.Sc. (Ag.) student by Dr. D. Singh Experiment was discussed and approved.

Action – Dr. D. Singh

Exp. No. 3 – Study on effect of micro-nutrients on growth and yield of linseed under limited irrigated conditions.

This is a new experiment planned for M.Sc. (Ag.) student by Dr. D. Singh Experiment was discussed and approved.

Action – Dr. D. Singh

Exp. No. 4 – Effect of weather parameters and date of sowing on wheat varieties.

This experiment planned for M.Sc. (Ag.) student by Dr. V.K.Verma. The result of the experiment was discussed and experiment concluded.

Action – Dr. V.K.Verma

Exp. No. 5 – Effect of weather parameters on wheat varieties.

This experiment planned for M.Sc. (Ag.) student by Dr. V.K.Verma. The result of the experiment was discussed and experiment concluded.

Action – Dr. V.K.Verma

Exp. No. 6 – Integrated Nutrient Management on productivity and quality of mustard.

This experiment planned for M.Sc. (Ag.) student by Dr. D.D.Yadav. The result of the experiment was discussed and experiment will be continued.

Action – Dr. D.D.Yadav

Exp. No. 7 – Effect of bio-fertilizer in enhancing the productivity of chickpea under irrigated condition

This experiment planned for Ph.D. student by Dr. D.D.Yadav. The result of the experiment was discussed and experiment will be continued.

Action – Dr. D.D.Yadav

Exp. No. 8 – Effect of Vermi-compost, FYM, Azotobactor and inorganic fertilizer on production and productivity of irrigated wheat (*Triticum aestivum* L.)

This is a new experiment planed for M.Sc. (Ag.) student by Shri Vishram Singh from *Rabi* 2016-17. The experiment was discussed and approved.

Action: Shri Vishram Singh

Exp. No. 9 – Integration of aromatic plants in the existing cropping system to mitigate the effect of climatic change

This is a new experiment planed for M.Sc. (Ag.) student by Dr. A.K.Srivastava. The experiment was discussed and approved.

Action: Dr. A.K.Srivastava

Wheat and Barley (plan & non-plan)

Total seventeen experiments were presented by Dr. R.A.Yadav wheat Agronomist. He presented results of five experiments in plan (ICAR) and two in non-plan wheat as well as two experiments of barley plan (ICAR).

Wheat (Plan)

Exp. No.1 - Performance of new timely sown wheat genotypes at different date of sowing under irrigated conditions.

Result of experiment discussed and experiment concluded.

Action: Wheat Agronomist

Exp. No.2 - Management of lodging and yield maximization using nutrient expert.

Result of experiment discussed and experiment will be continued.

Action: Wheat Agronomist

Exp. No. 3 - Fine tuning the sowing time under changing climate.

Result of experiment discussed and experiment concluded.

Action: Wheat Agronomist

Exp. No. 4 - Performance of new wheat genotypes at different date of sowing under irrigated conditions.

The experiment was discussed and approved.

Action: Wheat Agronomist

Exp. No. 5 - Performance of new timely sown wheat genotypes at under restricted irrigated conditions.

The experiment was discussed and approved.

Action: Wheat Agronomist

Wheat (Non Plan)

Exp. No. 1 – Bio-efficacy of phytotoxicity and analysis of AJJ-20 in wheat crop.

Result of the experiment was discussed and experiment concluded.

Action: Wheat Agronomist

Exp. No. 2 – Bio-efficacy of Halauxifen-methyl 1.21% W/W+Fluroxypyr methyl 38.9% W/W methyl 38.9% W/W EC for broad leaf weed in wheat crop.

Result of the experiment was discussed and experiment will be continued.

Action: Wheat Agronomist

Barley (Plan)

Exp. No. 1 – Maximization of barley yield using PGRs and N levels

The result of the experiment was discussed and experiment concluded.

Action: Barley Agronomist

Exp No. 2 – Improving barley productivity through use of organic manure, mulching and chemical sprays.

The result of the experiment discussed and experiment will be continued.

Action: Barley Agronomist

Exp. No. 3 – Evaluation of herbicides control of broad leaved weeds in barley.

The experiment discussed and approved.

Action: Barley Agronomist

Integrated Farming System Research

Technical programme of Integrated Farming System Research was presented by Dr U.S. Tiwari, Jr soil chemist, AICRP-IFS. He presented the results of different experiments including OFR as well as IFS model established at main centre. The results of following experiments were presented:

Exp. No. 1 – Identification of cropping system module for different farming system.

The result of the experiment discussed and experiment will be continued.

Action: Scientist of AICRP-IFS

Exp. No. 2 – Sustainable resource management for climate smart IFS.

The result of the experiment discussed and experiment will be continued.

Action: Scientist of AICRP-IFS

On Farm Research

Exp. No. 1 – (OFR – 1) On farm crop response to plant nutrients in predominate cropping system and their impact on crop livestock human continuum.

The result of the experiment was discussed and experiment will be continued.

Action: Scientists of AICRP-IFS

Exp. No. 2 – (OFR – 2) Diversification of existing farming systems under marginal house holds conditions.

The result of the experiment was discussed and experiment will be continued to see the impact.

Action: Scientists of AICRP-IFS

Exp. No. 3 – (OFR – 3) On farm evaluation of farming systems modules for improving the profitability of small and marginal farmers.

The result of the experiment discussed and experiment will be continued to see the impact.

Action: Scientists of AICRP-IFS

Vegetable (ICAR)

Dr. Rajiv, Jr. Agronomist vegetable (plan) presented results of one experiment.

Exp. No. 1 – Organic farming in coriander radish sequence.

The result of the experiment discussed and experiment will be continued.

Action: Jr. Agronomist Vegetable

Agro meteorology (ICAR) /FASAL/GKMS

Programme of Agro meteorology (ICAR) /FASAL/GKMS presented by Dr Naushad Khan, he presented results of three experiments as well as introduce one new experiment for MSc (Ag) students.

Exp. No. 1 – Studies on Maize – Wheat cropping system in relation to weather.

The result of the experiment discussed and experiment will be continued.

Action: Agro-meteorologist

Exp. No. 2 – Programme of Gramin Krashi Mausam Seva

Discussed and approved with the suggestion that these service should be made available to timely to the farmers.

Action: Agro-meteorologist

Exp. No. 3 – Forecasting of Agricultural output using Agro-metrology and land based observation (FASAL).

The experiment was discussed and approved.

Action: Agro-meteorologist

Exp. No. 4 – Effect of different sowing environment on dry matter accumulation, thermal indices at various phonological stages and yield of chickpea (*Cicer arietinum*) in CPZ of U.P.

The result of the experiment discussed and experiment will be continued.

Action: Naushad Khan

Water Management (Non-Plan)

Exp. No. 1 – Effect of Sowing methods, N-levels scheduling irrigation on growth and yield of late sown Wheat for central plain zone of U.P.

The result of the experiment discussed and experiment will be continued.

Action – Dr. Sanjeev Kumar

Exp. No. 2 – Effect of irrigation schedules and Hydrogel on growth and yield of Wheat in central plain zone of U.P.

The result of the experiment discussed and experiment will be continued.

Action – Dr. M.Z. Siddiqui

Exp. No. 3 – Effect of irrigation schedules and anti-transpirants on growth and yield on different cultivar of Wheat in central plain zone of U.P.

The experiment was discussed and approved.

Action – Dr. M.Z. Siddiqui

* * * * * * * * *

At the last Head of Agronomy suggested following points:

- The entire scientist should be present during meeting that will help in learning new innovative ideas.

Action: All Scientist

- Initial nutrient status of the soil should also be indicated with recommendation of the fertilizer doses.

Action: All Scientist

- Scientist should do frequent visits to their site of experimentation for better monitoring of their experiment.

Action: All Scientist

Meeting ended with vote of thanks proposed by the convenor of the meeting to Director (Agril. Exp. Station), HoD Agronomy and Heads of various departments as well as all committee members for actively participating in fruitful discussion and suggestion during meeting.

(Karam Husain)
Head, Dept. of Agronomy

No. AGR-EN /82 /2019 of dated 27.4.2019

Copy forwarded to the following for information and necessary action:

1. Director, Agril. Experiment Station.
2. Dean, College of Agriculture.
3. Director, Extension.
4. Concerned Scientist/Agronomist.
5. T. S. to V. C. for kind information to Hon'ble Vice – Chancellor.

(Karam Husain)
Head, Dept. of Agronomy

Proceeding of Research Advisory Committee meeting for Rabi 2018-19 held on Nov., 16,2018 in the committee room, Department of Crop Physiology.

A meeting of Research Advisory Committee was held on Nov.16,2018 at 2:30 PM to discuss and finalize the research programme for Rabi 2018-19 in which following Scientists were participated in the aforesaid meeting.

1. Dr. Poonam Singh. Dean,College of Agriculture, Professor & Head, Deptt. of Crop Physiology
2. Sri Manoj Mishra, Asstt. Director,A.E.S.(Representative of Director,A.E.S.)
3. Dr. Mohd. Sameem, Asstt. Director,A.E.S.
4. Dr. Mahak Singh, Professor, Oil Seed Section
5. Dr. S.C. Katiyar, Professor, Soil Conservation
6. Dr.S.N.Singh, Asstt.Professor, Deptt. of Crop Physiology
7. Dr. C.B.Verma, Asstt.Professor, Deptt. of Crop Physiology
8. Dr.S.P.Kushwaha, Asstt.Professor, Deptt. of Crop Physiology
9. Dr. (Mrs.) Meera Srivastava, Deptt. of Crop Physiology
10. Dr.M. A. Khan, Asstt. Professor, Deptt. of Crop Physiology
11. Dr. D.K.Tripathi, Asstt.Professor, Deptt. of Crop Physiology
12. Dr.A.K.Singh Asstt.Professor, Deptt. of Crop Physiology
13. Dr. O.P.Singh, Asstt.Professor, Deptt. of Crop Physiology
14. Dr. R.K.Dwivedi, Deptt. of Entomology
15. Dr. R.K.Gautam, Deptt. of Horticulture
16. Dr. S.K.Singh Deptt. of Genetics & Plant Breeding.
17. Dr. S.B.Pandey, Soil Science & Agri. Chemistry
18. Dr. K.P.Singh,Deptt. of Vegetable Science
19. Dr. Anjani Kumar Singh,Deptt.of Agril. Economics
20. Sri Arun Srivastava, Deptt. of Crop physiology

At the outset Dr. Poonam Singh, Professor & Head, welcome the participants of the meeting and also presented the action taken report of Rabi 2018-19 R.A.C. meeting, research achievement and priority area of research of the department.

After the enough discussion on achievement and technical programme of Rabi 2018-19 were presented by respective scientist of the department at length and following decision were taken up by the Research Advisory Committee.

1.1 Experiment on Production Physiology was presented by Dr O. P. Singh and it was approved.

2.1 Approved.

2.2 New experiment was presented by Dr. C.B.Verma, and Research Advisory Committee suggested to take popular variety.

3.1 Concluded.

3.2 Approved.

4.1 Concluded.

4.2 Approved with suggestion to delete word rainfed and add restricted irrigation in title.

4.3 Approved.

4.4 Approved.

Meeting ended with vote of thanks to chairman, Professors and Scientists of various department by Dr. S.N. Singh, Asstt. Professor of the department

Professor & Head
Deptt. of Crop Physiology

No.C.P.- 996 / Dated: 26 Nov..2018

C.C.to:-

1. Director Research.
2. Dean, College of Agriculture
3. Technical Secretary to Hon'ble Vice-Chancellor for information to Hon'ble Vice-Chancellor.
4. All Concerned HOD / Officer In Charge.

26.11.18

Professor & Head
Deptt. of Crop Physiology

Directorate of Agricultural Experiment Station
Diary No. 3093 /DR/19
Date 19/01/2019
C.S. Azad University of Agriculture and Technology, Kanpur

Department of Entomology

C.S. Azad University of Agriculture & Technology, Kanpur-2

No.ENT- 669 /2018-19 Dated: 08.01.2019

Proceeding of Research Advisory Committee meeting held on 03.11.2018 for Rabi 2018-19

The RAC meeting of Rabi 2018-19 was held under the chairmanship of Dr. Dr. H.G. Prakash, Director Research AES, on 03 November, 2018 in the committee room of Department of Entomology, C.S. Azad University of Agriculture & Technology, Kanpur.

The following officers/ Scientists were present in the meeting:

Sl. No.	Name	Designation	Department
✓1.	Dr. H.G. Prakash	Director Research	Directorate of Research
2.	Dr. Mohd. Shamim	Asstt. Prof.	Directorate of Research
3.	Dr. D.R. Singh	Prof. & Head	Department of Entomology
4.	Dr. Kripa Shanker	Professor	--do--
5.	Dr. Y.P. Malik	,,	--do--
6.	Dr. Ram Singh Umrao	Asstt. Professor	--do--
7.	Dr. A.S. Srivastava	Asstt. Professor	--do--
8.	Dr. R.K. Dwivedi	,,	--do--
9.	Dr. Fazal Ahmad	,,	--do--
10.	Dr. D.K. Singh	,,	Oil Seed
11.	Dr. Jitendra Kumar	,,	Rabi Cereals
12.	Dr. S.B. Pandey	Asstt. Professor	Soil Sci, & Chemistry
13.	Dr. S.K. Uttam	Asso. Professor	S.C.W.M.
14.	Dr. Ved Ratan	Prof. & Head	Plant Pathology

Dr. D.R.Singh, Professor & Head, Department of Entomology welcomed the Chairman and all the participants from other Departments and Entomology Department and presented the thrust area of research and salient achievements of the year 2017-18.

Achievements of Rabi 2017-18

The salient achievements are as follows.

1. Prevalence of natural parasites and predators on insect pests of tomato were studied and it was found that *Helicoverpa armigera* and aphid were the major pests and *Coccinella* Sp. was recorded as predator.

2. Imidacloprid, Indoxacarb and Novaluran were found safe for coccinellid beetles predators.

3. Application of Zine Phosphide 2% followed by ½ tablet of Alluminium phosphide registard 100% mortality at rat burrows.

Approved
10/1/19
Director
Agricultural Experiment Station
C.S. Azad Univ. of Agri & Tech.

Mary Mathew
10/1/19

8-1-2019
Prof. & Head
Deptt. of Entomology
C.S.A. Univ. of Agri. & Tech.
Kanpur

The projects presented for the current programme were approved as follows:

Project No. 1- Objectives, name of the predator should also be mentioned and Approved as such.

Project No. 2- Approved as such.recommendation.

Project No. 3- Location of the project should be mentioned and Date of sowing should be IInd fort night of November and Approved as such.

Project No. 4- Approved as such.

Project No. 5- Approved as such.

Project No. 6 In Project Name: in mustered should be added and Approved as such.

Project No. 7&8- Presented by Dr. R.K. Dwivedi and Project No. 7 was approved for Kharif Programme instead of Rabi: Approved as Such.

Project of Rai and mustered : Presented by Dr. D.K. Singh Oil seed Entomologist and all the project are . Approved as Such.

Wheat and Barley : Presented by Dr. Jitendra Kumar wheat Entomologist and all project are Approved as Such.

Note:

Director Research has suggested that if other specific research work in the field of wheat and vegetable will be conducted M.Sc. Ag. & Ph.D. Scholar of the department entomology, for this purpose a some of Rs. 20,000/- can also provided by Director Research for insecticidal experiments/Trials on the demand of concerned students through Major Advisor and Head Deptt. of Entomology.

The meeting was over with appreciation remarks of Director AES, Dr. H.G. Prakash and vote of thanks by Dr. Kripa Shanker, Professor.

10/12/15

Director
Agricultural Research Station
C.S.A. Univ. of Agri & Tech.
Kanpur

(Dr. D.R. Singh)
Professor & Head
Prof. & Head
Deptt. of Entomology
C.S.A. Univ. of Agri. & Tech.
Kanpur

निदेशक कृषि प्रयोग केन्द्र

<u>Proceeding of Research Advisory Committee (RAC) Meeting of the Department of Genetics and Plant Breeding, C.S. Azad University of Agriculture and Technology, Kanpur for Rabi 2018-19 was held on October 22-23, 2018.</u>

The meeting was chaired by Dr. H.G. Prakash, Director Research. At the outset Dr. S.K. Gupta, HoD welcomed Director Research and all heads, teachers and scientists.

(I) **Rabi Cereal Section:-**

1. **Wheat**: Research protgramme was presented by **Dr. P.N. Awasthi and Dr. S.V. Singh**

   Expt. No. 1 to 11: Approved

2. **Barley**: Research programme was presented by **Dr. P.K. Gupta**.

   Expt. No. 1: Approved with suggestion to use collection word in title the experiment.

   Expt. No. 2 to 15: Approved.

3. **Wheat**: (Centre of Excellence) Research programme was presented by **Dr.V.K. Yadav**.

   Project No. 1 to 4: Approved.

(II) **Oil Seed Section:**

1. **Linseed**: Research programme was presented by **Dr. Nalini Tewari.**

   Following decisions were taken by the house:

   a. The name of Dr. Sarvendra Kumar must be included in recently released linseed variety because he is associated with development of strain.

   b. Dr. D.K. Singh will record insect incidence in linseed project.

   Expt. No. 1 : Approved with suggestion to mention one or two entries under each head.

   Expt. No. 2 to 10 : Approved

2. **Rapeseed & Mustard**: Research programme was presented by **Dr. Mahak Singh**.

   All experiments: Approved.

(III) **Legume Section:**

1. **Lentil:** Research programme was presented by **Dr. Manoj Katiyar**

   Expt. No. 1 to 8: Approved.

   Expt. No. 1 : Approved.

   (Coordinated)

2. **Chickpea**: Research Programme was presented by **Dr. Manoj Katiyar.**

   Expt. No. 1 to 5: Approved.

3. **Field Pea**: Research programme was presented by Dr.Geeta Rai.

   All experiments: Approved

PTO

(IV) **Other Field Crops:**

1. **Tobacco**: Research programme was presented by **Dr. A.K. Srivastava.**

   Project No. 1 to 2: Approved

2. **Forage**: Research programme was presented by **Dr. H.C. Singh**.

Project No. 1 to 3 Approved.

Prepared by

(S.K. Singh)

(R.P. Vyas)

Approved by

(Sarvendra Kumar)
HoD, Genetics & Plant Breeding

(H.G. Prakash)
Director Research

Department of Genetics and Plant Breeding

The List of participants, who is present in Research Advisory Committee Meeting of *Rabi*, 2018-19 on October 22-23, 2018

S.No.	Name and Designation	Deptt./Section
1.	Dr. H.G. Prakash, Director Research	Directorate of Research
2.	Dr. S. Kumar, Professor and Head	Genetics and Plant Breeding
3.	Dr. D.P. Singh, Joint Director Research	Directorate of Research
4.	Dr. R.K. Yadav, Professor	Genetics and Plant Breeding
5.	Dr. C.L. Maurya, Professor and Head	Seed Science & Technology
6.	Dr. Karam Husain, Professor and Head	Agronomy
7.	Dr. S.P. Singh Tyagi, Professor and Head	Animal Husbandry
8.	Dr. G.S. Parihar, Assoc. Professor	Genetics and Plant Breeding
9.	Dr. R.P. Vyas, Asstt. Professor	Genetics and Plant Breeding
10.	Dr. Mahak Singh, Professor	Oil Seeds Section
11.	Dr. Lokendra Singh, Assoc. Professor	Genetics and Plant Breeding
12.	Dr. Lallu Singh, Professor	Biotechnology
13.	Dr. H.C. Singh, Breeder	Genetics and Plant Breeding
14.	Dr. Nalini Tewari, Linseed Breeder	Oil Seeds Section
15.	Dr. A.K. Srivastava, Tobacco Breeder	CRC Araul
16.	Dr. Geeta Rai, Asstt. Professor	Legume Section
17.	Dr. P.K. Gupta, Barley Breeder	EB (R)
18.	Dr. S.V. Singh, Jr. Wheat Breeder	EB (R)
19.	Dr. S.K. Singh, Asstt. Professor	Genetics and Plant Breeding
20.	Dr. P.N. Awasthi, Wheat Breeder	EB (R)
21.	Manoj Mishra, Asstt. Director	Directorate of Research
22.	Dr. Manoj Katiyar, Asstt. Professor	Legume Section
23.	Dr. Shweta, Asstt. Professor	Genetics and Plant Breeding
24.	Dr. Achila Singh, Asstt. Professor	Tobacco (Araul)/Oil Seed Section
25.	Dr. V.P. Bajpai, Asstt. Asstt. Professor	Dept. of Seed Science & Technology
26.	Dr. C.B. Singh, SRO (Seed Tech)	Dept. of Seed Science & Technology
27.	Dr. Anjani Singh, Asstt. Professor	Economics & Statistics
28.	Dr. Shamim Ahmad, Asstt. Director	Directorate of Reseach

Proceeding of the meeting of Research Advisory Committee *Rabi* 2018-19 Department of Plant Pathology held on dated 17.11.2018

The following were present in the meeting:

1. Dr. A.L. Jatav, Professor, Seed Science & Technology
2. Dr. Karam Hussain, Professor, Agronomy
3. Dr. S.K. Gupta, Professor, GPB
4. Dr. S.P. Tyagi, Professor, AH&D
5. Dr. Ved Ratan, Professor, Plant Pathology
6. Dr. U. K. Tripathi, Professor, Plant Pathology
7. Dr. S. K. Biswas, Professor, Plant Pathology
8. Dr. Narendra Singh, Professor, Plant Pathology
9. Dr. Manoj Mishra, Asstt. Director, Directorate of Research
10. Md. Shamim, Asstt. Director, AES
11. Dr. Anjani Kumar Singh, Asstt. Prof., Agricultural Economics
12. Dr. Bhupendra Singh, Vegetable
13. Dr. Anand Swaroop Srivastava, Asstt. Prof., Entomology
14. Dr. S.B. Pandey, Asstt. Prof., Soil Science & Agri. Chem.
15. Dr. S. M. Tripathi, Asstt. Prof., Horticulture
16. Dr. Ramesh Singh, Asstt. Prof., Plant Pathology (Vegetable Science)
17. Dr. Javed Bahar, Asstt. Prof. Wheat Pathologist, EBR
18. Dr. M.R. Dabbas, Asstt. Prof., Plant Pathology

The meeting was started with the warm welcome of Chairman Dr. A.L. Jatav, Professor, Seed Science & Technology and other scientists of different departments by Head, Department of Plant Pathology. He briefed the committee about the overall progress in research of the department during last year. Head of Department informed to the house that total 23 research projects (including Plan & Non Plan) have been submitted by the scientists. Each programme was discussed thoroughly and decision/suggestion were taken as given below.

(A) Plant Pathology department (Non Plan):

Project No. 1 — **1.** Management of early and late blight of Tomato caused by *Alternaria solani* and *Phytophthora infestans*. **Concluded**

Project No. 2 — **2.** Management of powdery mildew of Pea caused by *Erysiphae polygoni*. **Concluded**

Project No. 3 — **3.** Chemical management of Septoria leaf spot of tomato caused by *Septoria lycopersici*. **Approved**

Project No. 4 — **4.** Chemical management of Phomopsis blight of brinjal caused by *Phomopsis vexans*. **Approved**

Project No. 5 — **5.** Evaluation of new chemical and bio fungicides against *Fusarium oxysporum* f.sp. *cicerai* causing wilt of chickpea. **Approved**

Project No. 6 — **6.** Effect of different botanicals (Extracts) as seed treatment against seed borne diseases of lentil. **Approved**

Project No. 7 — **7.** Comprative evaluation of different substrates for the production of Oyster mushroom (*Pleurotus* sp.) **Approved with the suggestion that analyzed data will be put up along with the result of the this year in the next meeting.**

Project No. 8 — **8.** Preparation of good quality casing material for production of White button mushroom. **The concerned scientist did not put up result of the experiment in the meeting.**

Project No. 9 — **9.** Induced resistance in tomato against Fusarium wilt through Plant extracts. **Concluded**

All India Coordinated Project (Plan)

B. (i) Rabi Cereal Section (Total Experiment 7):

Wheat

Project No. 1 — **1.** Plant Pathological Screening Nursery (PPSN). **Approved**

Project No. 2 — **2.** Initial Plant Pathological Screening Nursery (IPPSN). **Approved**

Project No. 3 — **3.** To monitor spread and incidence of diseases in "Wheat disease trap nursery" under natural conditions. Trap Nursery **Approved**

4. Crop health monitoring - Pre & Post harvest survey of wheat & barley crop. **Approved**

Barley

Project No. 4 **5.** National barley diseases screening nursery (NBDSN). **Approved**

Project No. 5 **6.** Initial Barley Disease Nursery (IBDSN). **Approved**

Project No. 6 **7.** Elite barley screening nursery (EBDSN). **Approved**

Project No. 7 **8.** Chemical Control of Leaf Blight in Barley. **Approved**

(ii). Linseed (Total experiment-6):

Project No. 1 **1.** Survey of disease of linseed prevailing in this region. **Approved**

Project No. 2 **2.** Screening of germplasms against wilt disease of linseed. **Approved**

Project No. 3 **3.** Uniform disease nursery trial under natural condition (UDN). **Approved**

Project No. 4 **4.** Uniform disease nursery trial under natural artificial condition (UDNA) for advanced breeding lines. **Approved**

Project No. 5 **5.** Evaluation of promising entries/elite material under high inoculums pressure (ADNT). **Approved**

Project No. 6 **6.** Management of wilt in linseed. **Approved**

The meeting was ended with vote of thanks.

Ratan 10.12.17

(Ved Ratan)
Head
Plant Pathology

(A. L. Jatav)
Prof., Seed Sci & Tech.
Department

14/12/17

(H.G. Prakash)
Director
Agriculture Experiment Station

SO मानार्थ अग्रेषित (मार्गदर्शन सहयोग (AES)

Proceedings of RAC Meeting of Rabi 2018-19 held on 20.11.2018
Deptt. of Soil Science & Agricultural Chemistry

The Rabi research advisory committee meeting of Department of Soil Science and Agricultural Chemistry was held on 20.11.2018 under the Chairmanship of Head of Department of Soil Science and Agril. Chemistry. The following faculty members were present in the meeting.

1- Dr. R.C. Nigam, Professor and HOD
2- Dr. Rajendra Singh, Professor, Agril. Economics and Statistics.
3- Dr. Lallu, Prof., Physiology.
4- Dr. Lallu Singh, Prof. Biochemistry,
5- Dr. Ravindra Kumar, Professor/Officer Incharge, Soil Salinity Scheme.
6- Dr. Anil Kumar, Associate Professor , Deptt. Of Soil Science & Agril. Chemistry
7- Dr. S.B. Pandey, Asstt. Prof. Deptt. Of Soil Science & Agril. Chemistry
8- Dr. Sushil Dimree, Asstt. Prof. Deptt. Of Soil Science & Agril. Chemistry
9- Dr. R.K. Pathak, Asstt. Prof. Deptt. Of Soil Science & Agril. Chemistry
10- Dr. S.D. Dubey,-do-
11- Dr. S.K. Mishra,-do-
12- Dr. R.N. Dixit-do-
13- Dr. Devendra Singh-do-
14- Sri K.N. Singh-do-

All the experiments of Rabi season 2018-19 thoroughly discussed by different scientists. The following suggestions, correction and modification are as under :

Salient achievements of the department presented by Dr. R.K. Pandey and house accepted the research achievement of the department.

Quality testing of Pesticides, Fertilizers, Manures and allied products .

All three project presented by Dr. S.B. Pandey and after discussion all three projects approved as such.

Soil Testing Scheme:

Sri K.N. Singh presented experiments of soil testing scheme Project no. 1 and 2 approved as such. Some scientists suggested that the critical limits of different nutrients should be mention with the analytical result of the soil samples.

Soil Fertility and Soil Survey:

Dr. S.K. Mishra presented experiments of Soil Fertility and Soil Survey. Experiments of Soil fertility and soil survey discussed by the house and approved.

Microbiology:

Project No. 1 , 2 and 3 presented by Dr. S.D. Dubey and approved by the house without any modification.

AINP on Pesticide Residues:

Dr. R.K. Pandey scientifically presented the experiments of the project and after some quarries all seven project approved by the house.

Adhoc project IFFCO Chair

Dr. R.N. Dixit presented the experiments related to IFFCO Chair. After some quarries all the IFFCO Chair experiments approved as such by the house.

AICRP of Micro and secondary nutrients and pollutants elements in soil and plants.

Dr. Anil Kumar presented the experiments and house approved all five experiments for executions after discussion .

AICRP on Management of Salt affected soils and use of saline water in Agriculture.

Research achievements presented by Incharge of the scheme. Prof. Ravindra Kumar and also presented Project no. 1 to 5 for approval before house. All five experiments approved after discussion for execution at field and laboratory.

Research advisory committee meeting ended with the vote of thanks proposed by Prof. R.C. Nigam, Head of the Department.

Department of Soil Science & Agricultural Chemistry
C.S.Azad University of Agri. & Technology, Kanpur-2

No.867/2018

Dated: 04-12-2018

Copy forwarded for information and necessary action:

1. Dean, College of Agriculture.
2. Director, Agriculture Experiment Station.
3. All Professor & Head of the department.
4. Concerned Scientist of the department.

(R.C. Nigam)
Head of Department

Proceedings of RAC meeting held on 15-11-2018 for Rabi 2018-19 in the Department of Soil Conservation and Water Management

A meeting was held on 15-11-2018 to finalize the research programme of Rabi 2018-19. Following scientists / teachers were present:

Directorate of Agricultural Experiment Station
Diary No. 2906 /DRI/19
Date 03-01-2019
C.S. Azad University of Agriculture and Technology, Kanpur

S.No.	Name	Designation
1.	Dr. H.G. Prakash	Director Research
2.	Dr. R.P.Singh	Head of Deptt. , SCWM
3.	Dr. Munish Kumar	Professor , SCWM / DAM
4.	Dr.S.C.Katiyar	Professor, SCWM
5.	Dr. S.K.Uttam	Associate Professor, SCWM
6.	Dr. Kaushal Kumar	Associate Professor, SCWM
7.	Dr. Sarvesh Kumar	Associate Professor, SCWM
8.	Dr. U.D. Awasthi	Assistant Professor, SCWM
9.	Dr. A.K. Katiyar	Assistant Professor, SCWM
10.	Dr. Manoj Mishra	Asstt. Director , Directorate of Research
11.	Dr. R.K. Dwivedi	Assistant Professor, Entomology
12.	Dr. Anjani Kumar Singh	Assistant Professor, Agril.Econ. & Statistics
13.	Dr. Anil Kumar Singh	Assistant Professor, Crop Physiology
14.	Dr. S.B.Singh	Asstt. Chemist, SAC

After warm welcome by Dr. R.P. Singh, Head of Department to all participants in the meeting, the achievements and compliance report was presented by Dr. S.K. Uttam for various research programmes. During meeting, projects were presented one by one relevant teachers given as under:

Project No. 1: "Studies on mustard (*Brassica juncea L.*) based intercropping system under rainfed condition"

The Ph.D. experiment was conducted for 2 years. Dr. S.K Uttam presented data and project was allowed to conclude by the committee. The recommendations of the trial were as under:

(i) The yield of chickpea and lentil in terms of mustard equivalent seed yield showed highest significant production in row crop adjustment of mustard + chickpea (1+1) additive series. Moreover , the WUE, LER and net rectum were also highest found to the remunerative during both the years.

(ii) Dust mulch created by weeding and hoeing at 25 DAS brought out significant improvement in seed yield over without dust mulch treatment. In addition, LER, WUE and net return were also more during both the years.

(iii) The interaction between treatment factors was not found significant in case on seed yield and LER during both two years.

Project No. 2: "Evaluation of microbial inoculants under different levels of fertilizers on growth and yield in chickpea under moisture stress condition"

Last year M.Sc. (Ag) trial was presented by Dr. Munish Kumar. The project was approved by the committee and allowed to continue in Rabi 2018-19 for confirmation of the findings.

Project No 3: "Barley based intercropping system under integrated nutrient management in rainfed condition"

Sri Manoj Mishra

Last year Ph.D trial was presented by Dr. U.D. Awasthi. It was suggested that the data should be procured from the student and should be presented in the next meeting as department level Dr. Awasthi grant the permission to modify the topic, which are more appropriate than this topic **"Productivity, water use efficiency and economic of barley *(Hordeum Vulgare L.)* based cropping system as influenced by integrated nutrient management under rainfed condition".** The project was approved by the committee and allowed to continue in Rabi 2018-19 for confirmation of the findings.

Project No 4: "Impact of tillage, irrigation scheduling and fertility levels on production potential of barley (*Hordeum Vulgare L.)* in central plain zone of Uttar Pradesh "

It was presented by Dr. Kaushal Kumar related to Ph.D. trial and was discussed in detail with logistics; The title of the project was revised as **"Impact of tillage, irrigation scheduling and fertility levels on productivity of barley (*Hordeum Vulgare L.)* in central plain zone of Uttar Pradesh"** and was approved as such.

Project N0 5: "Effect of plant geometry and fertility levels on growth and yield of Garden cress (Lapidium sativum L.)"

The M.Sc. (Ag) experiment was conducted for 2 years. Dr. Kaushal Kumar presented the data and project was allowed to conclude by the committee. Recommendations of trial were as under:

(i) 40 cm row spacing gave highest seed yield of 16.02 q ha^{-1} and 14.94 q ha^{-1} in 2016-17 and 2017-18, respectively followed by 30 cm row spacing that gave seed yield of 15.35 q ha^{-1} in 2016-17 and 14.75 q ha^{-1} in 2017-18 while minimum seed yield of 13.39 q ha^{-1} in 2016-17 and 11.34 q ha^{-1} 2017-18 , respectively were observed in 20 cm row spacing.

(ii) Among fertility levels, 90:60:30 kg N: P: K ha^{-1} gave highest seed yield (16.44 q ha^{-1}) in 2016-17 and 15.62 q ha^{-1} in 2017-18 followed by 60:45:30 kg N: P: K ha^{-1} gave seed yield 15.72 q ha^{-1} in 2016-17 and 14.75 q ha^{-1} in 2017-18 while minimum seed yield 12.84 q ha^{-1} in 2016-17 and 10.83 q ha^{-1} in 2017-18 was observed in control.

(iii) Similar trend was observed in stover yield of garden cress.

Project No 6: "Evaluation of bio-intensive complementary cropping systems involving mustard -chickpea intercropping in Indo – Gangetic plains"

Last year Ph.D. trial was presented by Dr. Munish Kumar. The project was approved and allowed to continue in Rabi 2018-19 for confirmation of the findings.

Project No 7 : "Studies on preparatory tillage, moisture conservation practices and nutrient management on barley under water stress condition"

Last year Ph.D. trial was presented by Dr. Sarvesh Kumar. It was suggested that the data should be procured from the student should be presented in the next meeting as departmental level. The project was approved by the committee and allowed to continue in Rabi 2018-19 for confirmation of the findings.

Project No 8: "Response of first irrigation and sowing time on productivity of wheat"

A new programme was proposed by Dr. Sarvesh Kumar related to M.Sc. (Ag) trial. The project was approved with tue remark to delete a treatment of first irrigation at days after sowing ie irrigation at 15 DAS and add irrigation at 39 DAS. Further, the committee suggested that Split plot-design keeping sowing time in main plots and first irrigation at days after planting in sub-plots should be applied instead of Factorial randomized block design.

Note –

(i) Chairperson of RAC suggest that funding for wheat experiment may provided on demand from Centre of Excellence.

(ii) Dr. U.D. Awasthi informed that Sri Brijesh Kumar Id. No CA-10448/17, M.Sc. (Ag) student not contact to me for finalize the field experiment, The committee suggested that without student cannot be sown field experiment.

The meeting was ended with vote of thanks and concluding remarks by Dr. Munish Kumar, Professor/DAM of this department.

7/11/19

(R.P. Singh)
Head of Deptt.

No. 538 /SCWM/2019 of date. 02/01/2019

Copy forwarded to the following for information & necessary action:

1. Dean, Faculty of Agriculture, CSAU, Kanpur
2. Director, Agriculture Experiment Station, CSAU, Kanpur
3. Professor & Head(s) of the Department- Agronomy, Soil Science and Agril. Chemistry, Plant Pathology, Entomology, Crop Physiology and Agriculture Economics & Statistics
4. Director(Seed & Farms)
5. All teachers/scientists of the department
6. Technical Secretary to V.C. for kind information to Hon'ble Vice-Chancellor

2/1/19

(R.P. Singh)
Head of Deptt.

Proceeding of Research Advisory Committee

Regional Research Station, Daleepnagar for *Rabi*-2018-19

The RAC-*Rabi*-2018-19 of Regional Research Station. Daleepnagar was held on 03-12-2018 in the committee hall, Directorate of Research under the chairmanship of Dr. H.G.Prakash, Director of Research.The following scientists participated the meeting:

1.Dr.H.G.Prakash, Director of Research
2.Dr. D. P. Singh, JDR
3. Dr.Md. Shamim, ADR
4. Dr. Manoj Mishra, ADR
5. Dr. Jitendra Singh, Assistant Professor, Directorate of Extension
6. Dr. Khalil Khan, Assistant Professor, NARP, Daleepnagar
7.Dr.S. K.Srivastava,Officer Incharge, NARP, Daleepnagar
8.Sri Ram Kumar Singh, Assistant Professor, NARP, Daleepnagar
9. Dr.R. K. Pal, Assistant Professor, NARP, Saini
10.Dr.S.K.Pandey, Assistant Professor, KVK, Mainpuri
11.Dr.Yogesh Yadav, Scientist (A.H.),KVK,Etawah
12.Dr. M.C.Verma, Breeder(Groundnut), AICRP(Groundnut), Mainpuri
13.Dr. S. P. Singh,Scientist(Plant Breeding),Kalai,Aligarh
14.Dr. K. D. Dixit, Scientist(Horticulture), NARP,Hazaratpur, Firozabad
15. Dr. Shaukat Ali,Incharge NARP, Mainpuri
16.Dr. V. K.Sharma, Head, KVK, Farrukhabad
17. Dr. Keshav Arya, Associate Professor, NARP, Daleepnagar
18.Dr. Anil Kumar, Assistant Professor, NARP, Daleepnagar
19.Sri B.P.Singh, Assistant Professor, NARP, Daleepnagar
20.Sri Vinod Sachan, District Consultant,NFSM, Kanpur Ngar
21. Sri Santosh Sachan, Technical Asstt.Regional Soil Lab,Kanpur Region
22. Dr. Ram Prakash, Head, KVK, Hardoi
23. Sri H.K.Singh, Assistant Professor, NARP, Kalai, Aligarh
24. Dr.Pramod Kumar,Officer Incharge, ZARS,Kalai, Aligarh
25. Sri Dharma Dev Singh, Assistant Professor,NARP,Hazaratpur, Firozabad

Diary No. 3505/DR/19
Date 22/02/2019

(S.K. Srivastava)

Sri Manoj Mishra

With the permission of chairman, the meeting was started after the inaugural address of the chairman, Dr. H.G. Prakash, Director Research. Dr.Khalil Khan, Assistant Professor, NARP, Daleepnagar, warmly welcomed the chairman, JDR Dr. D.P. Singh, ADR Dr.Manoj Mishra, Dr.Mohd.Shamim and all participants of the meeting. Dr. Khan also presented the research programme of NARP, Daleepnagar, for *rabi*- 2018-19. However, question raised during the discussion,were answered by the concerned scientists.The officers of line deptt. also gave the valuable suggestion.

All the experiments were approved with some minor correction *viz*:

1.Experiment No.1 was approved with suggestion that partially reclaimed sodic soil should be written in place of sodic soil.

2.Experiment No.2 was also approved with the same suggestion as it was in experiment number 1.

3.Experiment No. 3 was approved with correction in following treatments:

T7: FYM @15t/ha +green manuring of dhaincha (in situ) +paddy residues recycling one time @ 10 t/ha +palak

T8: Gypsum @ GR Value 10 t/ha+palak

4.Eperiment No.4 was approved as such for rabi-2018-19.

5.Experiment No.5 was also approved as such for *rabi*-2018-19

6. Experiment No.6 "Off farm demonstration on wheat varieties" to be conducted by Sri Ram Kumar Singh and Dr.Jagbir Singh was approved as such for *rabi*-2018-19.

7. Experiment No.7 "Off farm demonstration on wheat varieties" to be conducted by Dr.Khalil Khan was approved as such for *rabi*-2018-19.

8. Experiment No.8 "Off farm demonstration on wheat varieties" to be conducted by
. Sri Bhanu Pratap Singh was approved as such for *rabi*-2018-19.

The meeting was ended with the vote of thanks given by Dr. Mohd. Shamim, ADR.

(S.K.Srivastava)
Officer Incharge
Regional Research Station
Daleep Nagar
S.B.A.U.A. & T. Kanpur

224

Directorate of Research

C. S. Azad University of Agriculture & Technology, Kanpur-208002

Ref. /DR/2019
Dated: Oct, 2019

Circular

Departmental Research Advisory Committee and Zonal Research Extension Advisory Committee meetings will be held as per schedule given below to discuss and finalize research programmes for ***Rabi* 2019-20**. The scheduled of dates should be adhered to.

S.N	Faculty/Discipline	Date & Time
A.	**Faculty of Agriculture**	
1	Vegetable Science	21.10.2019 at 10:30 AM
2	Horticulture	21.10.2019 at 03:30 PM
3	Agronomy	22.10.2019 at 10:30 AM
4	Agril. Biochemistry	22.10.2019 at 03:30 PM
5	Entomology	23.10.2019 at 10:30 AM
6	Crop Physiology	23.10.2019 at 03:30 PM
7	Seed Science & Technology	24.10.2019 at 10:30 AM
8	Soil Science and Agril. Chemistry	24.10.2019 at 03:30 PM
9	Plant Pathology	25.10.2019 at 10:30 AM
10	Soil Conservation & Water management and Forestry	25.10.2019 at 03:30 PM
11	Genetics and Plant Breeding	01-02.11.2019 at 10:30 AM
12	Agriculture Extension	04.11.2019 at 10:30 AM
13	Agril. Economics & Statistics	04.11.2019 at 03:30 PM
14	Animal Husbandry and Dairying	05.11.2019 at 10:30 AM
15	**ZREAC Central Plain Zone, Daleepnagar**	06.11.2019 at 10:30 AM
16	**ZREAC South Western Semi Arid Zone, Kalai Aligarh**	07.11.2019 at 10:30 AM
B.	**Faculty of Home Science**	
1	Food Science & Nutrition	08.11.2019 at 10:30 AM
2	Family Resource Management	
3	Extension Communication & Management	
4	Human Development	
5	Textile & Clothing	
C.	**Faculty of Agril. Engineering & Technology**	11.11.2019 at 10:30 AM

10/X/2019

(H.G. Prakash)
Director Research

Copy forwarded to following for information and necessary action.

1. HoD(s)/In charges of Departments/Sections with request to please inform all the scientists of concern subject working in Scheme/KVKs.
2. In charges Rabi Cereal, Oilseed, Legume and Vegetable Sections
3. Officer In charge of all NARP Research Stations
4. Project In charge Tobacco, Sorghum, Cotton & Paddy
5. Director Seed & Farms
6. Director Extension with request to please inform to Head of all KVKs of the Zone to ensure their participation in ZREAC meetings.
7. Dean, Faculty of Agriculture
8. Dean, Faculty of Home Science
9. Dean, Faculty of Agril. Engineering & Technology Etawah
10. T S to V C for kind information of Hon'ble Vice Chancellor.
11. Guard file Directorate of Research

(H.G. Prakash)
Director Research

Proceeding of Research Advisory Committee Meeting of Agronomy: *Rabi* – 2019-20

To finalize the technical programme for conducting field experiments of *rabi* 2019-20. Research Advisory Committee Meeting of Agronomy discipline was held on dated 18.11.2019 in the committee room of the Department of Agronomy of this university. The following Officers / Scientist were present in the meeting.

S. No.	Name	Designation
1.	Dr. H.G.Prakash	Director, Agricultural Experiment Station
2.	Dr. Sanjeev Kumar	Prof. & Head, Dept. of Agronomy
3.	Dr. Karam Husain	Chief Agronomist
4.	Dr. R.A.Yadav	Professor, EBR Section
5.	Dr. Ram Pyare	Professor, Dept. of Agronomy
6.	Dr. A.K.Srivastava	Asso. Professor, Dept. of Agronomy
7.	Dr. Dhanajai Singh	Asso. Professor, Dept. of Agronomy
8.	Dr. V.K.Verma	Asso. Professor, Dept. of Agronomy
9.	Dr. Naushad Khan	Asso. Professor, AICRP (Agromet).
10.	Dr. M. Z. Siddiqui	Asso. Professor, Dept. of Agronomy
11.	Dr. Jagdish kumar	Asso. Professor
12.	Dr. Sarvesh Kumar	Asso. Professor, Dept. of SCWM
13.	Dr. Mohammad Shamim	Asstt. Director, Directorate of Research
14.	Dr. Manoj Mishra	Asstt. Director, Directorate of Research
15.	Dr. Y.K. Singh	Asstt. Professor, Dept. of Agronomy
16.	Dr. Uma Shankar Tiwari	Asstt. Soil Chemist, AICRP-IFS
17.	Dr. M.F. Husain	Asstt. Professor, AICRP-Linseed
18.	Dr. Rajiv	Assistant Agronomist, Veg. Science
19.	Sri Raj Veer Singh	Assistant Agronomist, EBR Section
20.	Dr. S.P. Kushwaha	Asstt. Professor, Dept. of Crop Physiology
21.	Dr. V.B. Jaiswal	Assistant Agronomist, AICRP Potato
22.	Dr. Jitendra Singh	Asstt. Professor, Agronomy (D. E.)
23.	Dr C.B. Singh	Field Man, Agro meteorology

Meeting was started with the welcome address of Professor and Head Department of Agronomy, Dr. Sanjeev Kumar. He welcomed Director, AES (Chairman) as well as all the participants of different departments of the university. While welcoming chairman and scientists fraternity Professor Sanjeev Kumar emphasized to take up need based research considering the importance of resource conservation, residue recycling and climate change. He stressed that burning of crop residue create hazard to the soil and pollute the environment, hence it should be recycled after processing. He emphasized the need of knowing the nutrient status of the soil before recommending the doses of fertilizer for all crop.

Dr. H.G. Prakash, Director, AES in his chairman addresses said that only variety development will not be sufficient achievement unless the whole package of practices is

developed and made available to the farmers along with the judicious management of natural resources under changing climatic situations. He also gave brief idea about award and recognition to the scientists/teachers working in their respective field for research publication, book writing, manual writing and development of innovative technologies as well as resource generation programme. At the end he appreciated the HoD for organising RAC in time to discuss programme before execution.

At the end chairman advised the scientist to pool their wisdom in depth with enthusiasm and deep discussion to formulate the strategies for elevating sustainable agriculture production technologies. He showed confidence on scientist of varied back grounds, experience and knowledge to address the matters that is lying before the nation.

Review of previous meeting :- The proceeding of previous RAC – Rabi, 2018-19 meeting held on 1.11.2018 and circulated to the members vide letter no. AGR/EN 82 /2019 dated 27.04.2019 were reviewed. Since, there was no communication received from any members hence the proceeding was confirmed.

Discussion on Research programmes :- Plan research programme were present first one by one, non-plan research programme planned by M.Sc.(Ag) and PhD students under the supervision of faculty members were taken later. The entire research programme was presented on power point by the concerned faculty members/scientists and was discussed at length. The decision taken is here as under.

Agro meteorology (ICAR) /FASAL/GKMS

Programme of Agro-meteorology (ICAR)/ FASAL/ GKMS presented by Dr Naushad Khan. He emphasized the role of climate and related constraints for successful production of crops. He presented data regarding annual actual rainfall and also elaborated rainfall pattern of last forty years of U.P. district wise. He also elaborated decadal temperature variability of Kanpur region. He presented results of two experiments and reported performance two experiments under different schemes.

Exp. No. 1 – Studies on Maize - Wheat cropping system in relation to weather.
The result of the experiment discussed and experiment will be continued.
Action: Agro-meteorologist

Exp. No. 2 – Studies on Rice – Wheat cropping system in relation to weather.
The result of the experiment discussed and experiment will be continued.
Action: Agro-meteorologist

Exp. No. 3 – Programme of Gramin Krashi Mausam Seva
Discussed and approved with the suggestion that these service should be made available to timely to the farmers. **Action: Agro-meteorologist**

Exp. No. 4 – Forecasting of Agricultural output using Agro-metrology and land based observation (FASAL).
The experiment was discussed and approved.
Action: Agro-meteorologist

Wheat and Barley (plan & non-plan)

Total seventeen experiments were presented by Dr. R.A.Yadav wheat Agronomist. He presented results of five experiments in plan (ICAR) and two in non-plan wheat as well as two experiments of barley plan (ICAR).

Wheat (Plan)

Exp. No.1 - Performance of new wheat genotypes under restricted irrigated conditions (New experiment).

Experiment discussed and approved.

Action: Wheat Agronomist

Exp. No.2 - Optimization of nitrogen doses for high yield potential under North-Central plain zone (New experiment).

Experiment discussed and approved.

Action: Wheat Agronomist

Exp. No. 3 - Performance of new wheat genotypes at different date of sowing under irrigated conditions.

Result of experiment discussed and experiment concluded.

Action: Wheat Agronomist

Exp. No. 4 - Performance of new timely sown wheat genotypes at different date of sowing under restricted irrigated conditions.

Result of experiment discussed and experiment concluded.

Action: Wheat Agronomist

Wheat (Non Plan)

Exp. No.1- Bio-efficacy of Halauxifen-methyl 1.21% W/W+Fluroxypyr methyl 38.9% W/W methyl 38.9% W/W EC for broad leaf weed in wheat crop.

Result of the experiment discussed and experiment will be continued.

Action: Wheat Agronomist

Centre of Excellence for wheat

Exp. No.1- Studies on organic and inorganic weed management practices on growth and yield of wheat.

Result of the experiment discussed and experiment will be continued.

Action: Wheat Agronomist

Exp. No.2- Studies on performance of different environment wheat genotypes.

Result of the experiment discussed and experiment will be continued.

Action: Wheat Agronomist

Exp. No.3- Effect of fertilizer and plant growth regulators on growth, development and yield of different varieties of wheat.

Result of the experiment discussed and experiment will be continued.

Action: Wheat Agronomist

Barley (Plan)

Exp. No.1 - Effect of irrigation on productivity of barley. (New experiment)

Experiment discussed and approved.

Action: Barley Agronomist

Exp. No.2 - Effect of Zn application on quality and productivity of barley. (New exp.)

Experiment discussed and approved.

Action: Barley Agronomist

Exp No.3 - Improving barley productivity through use of organic manure, mulching and chemical sprays.

Result of the experiment discussed and experiment concluded.

Action: Barley Agronomist

Exp. No.4 - Evaluation of herbicides control of broad leaved weeds in barley.

Result of the experiment discussed and experiment concluded.

Action: Barley Agronomist

Integrated Farming System Research

Technical programme of Integrated Farming System Research was presented by Dr U.S. Tiwari, Jr soil chemist, AICRP-IFS. He presented the results of different experiments including OFR as well as IFS model established at main centre. The experiments were presented as of follows:

Exp. No. 1 – Identification of cropping system module for different farming system.

The result of the experiment discussed and experiment will be continued.

Action: Scientist of AICRP-IFS

Exp. No. 2 – Sustainable resource management for climate smart IFS.

The result of the experiment discussed and experiment will be continued.

Action: Scientist of AICRP-IFS

On Farm Research

Exp. No. 1 – (OFR- 1) On farm crop response to plant nutrients in predominate cropping system and their impact on crop livestock human continuum.

The result of the experiment was discussed and experiment will be continued.

Action: Scientists of AICRP-IFS

Exp. No. 2 – (OFR- 2) Diversification of existing farming systems under marginal house holds conditions.

The result of the experiment was discussed and experiment will be continued to see the impact.

Action: Scientists of AICRP-IFS

Exp. No. 3 – (OFR- 3) On farm evaluation of farming systems modules for improving the profitability of small and marginal farmers.

The result of the experiment discussed and experiment will be continued to see the impact. **Action: Scientists of AICRP-IFS**

Vegetable (ICAR)

Dr. Rajiv, Jr. Agronomist vegetable (plan) presented results of two experiments.

Exp. No. 1- Integrated nutrient management in French bean.

The result of the experiment discussed and experiment will be continued.

Action: Jr. Agronomist Vegetable

Exp. No. 2- Organic production of spinach beet.

The result of the experiment discussed and experiment will be continued.

Action: Jr. Agronomist Vegetable

AICRP Linseed

Exp. No. 1- Weed management with new herbicides in irrigated linseed.

The result of the experiment discussed and experiment will be continued.

Action: Jr. Agronomist Linseed

Exp. No. 2- Effect of micro-nutrients on growth and yield of linseed under limited irrigation.

The result of the experiment discussed and experiment will be continued.

Action: Jr. Agronomist Linseed

Exp. No. 3- Effect of foliar application of growth regulator in enhancing productivity and profitability of linseed.

The result of the experiment discussed and experiment will be continued.

Action: Jr. Agronomist Linseed

AICRP Potato

Exp. No. 1- Nutrient management in Potato based most popular cropping system of the region. (New experiment)

The experiment discussed and experiment will be continued.

Action: Jr. Agronomist Potato

Exp. No. 2- Standardization of cut seed tuber production technology. (New experiment)

The experiment discussed and experiment will be continued.

Action: Jr. Agronomist Potato

Exp. No. 3- Validation of QUEFTs model. (New experiment)

The experiment discussed and experiment will be continued.

Action: Jr. Agronomist Potato

Water Management (Non-Plan)

Exp. No. 1-Effect of Sowing methods, N-levels scheduling irrigation on growth and yield of late sown Wheat for central plain zone of U.P.

The result of the experiment discussed and experiment will be continued.

Action – Dr. Sanjeev Kumar

Exp. No. 2 - Effect of irrigation schedules and different doses of nitrogen on wheat crop in central plain zone of U.P.

The experiment discussed and experiment will be continued.

Action – Dr. M.Z. Siddiqui

Exp. No. 2 - Effect of irrigation schedules and nutrient management on wheat crop in central plain zone of U.P.

The experiment discussed and experiment will be continued.

Action – Dr. M.Z. Siddiqui

Note: Education and other non-plan programme will be presented latter in presence of committee form by Head Agronomy.

****

At the last Head of Agronomy suggested following points:

- The entire scientist should be present during meeting that will help in learning new innovative ideas.

Action: All Scientist

- Initial nutrient status of the soil should also be indicated with recommendation of the fertilizer doses.

Action: All Scientist

- Scientist should do frequent visits to their site of experimentation for better monitoring of their experiment.

Action: All Scientist

Meeting ended with vote of thanks proposed by the convenor of the meeting to Director (A.E.S), HoD Agronomy and Heads of various departments as well as all Teachers/Scientists from other departments/ Schemes for active participating in fruitful discussion and suggestion during meeting.

(Sanjeev Kumar)
Head, Dept. of Agronomy

No. AGR-EN 756 /2019 of dated 15-2-2020

Copy forwarded to the following for information and necessary action:

1. Director, Agril. Experiment Station.
2. Dean, College of Agriculture.
3. Director, Extension.
4. Concerned Scientist/Agronomist.
5. T. S. to V. C. for kind information to Hon'ble Vice – Chancellor.

(Sanjeev Kumar)
Head, Dept. of Agronomy

Proceeding of Research Advisory Committee Meeting for Rabi,2019-20 held on Nov. 30,2019 in committee room, Department of Crop Physiology.

A meeting of Research Advisory Committee was held on Nov.30,2019 at 3:30 PM to discuss and finalize the research Programme for Rabi,2019-20 in which following Scientists were participated in aforesaid meeting.

1. Dr.PoonamSingh, Dean College of Agriculture, Head, Department of Crop Physiology
2. Dr. Mohd. Sameen,Asstt. Director Research
3. Dr. R.B.Singh, Add. Director Extension
4. Dr. Mahak Singh, Head, Deptt. of Genetics & Plant Breeding
5. Dr. U.K.Tripathi, Head, Deptt. of Plant Pathology
6. Dr. Y.P. Malik,Professor, Deptt. of Entomology
7. Dr. S.N. Singh, Asstt. Professor, Deptt. of Crop Physiology
8. Dr. C.B. Verma, Asstt. Professor, Deptt. of Crop Physiology
9. Dr. M.A. Khan, Asstt. Professor, Deptt. of Crop Physiology
10. Dr. S.P.Kushwaha, Asstt. Professor,Deptt. of Crop Physiology
11. Dr. D.K.Tripathi, Asstt. Professor, Deptt. of Crop Physiology
12. Dr. AnilKumar.Singh, Asstt. Professor, Deptt. of Crop Physiology
13. Dr. O.P. Singh, Asstt. Professor,Deptt. of Crop Physiology
14. Dr. S.D.Dubey,Asstt. Professor,Deptt. of Soil Science & Agri. Chemistry
15. Dr. Anjani Kumar Singh, Deptt. ofAsstt. Professor,Agril Eco. & Statistics
16. Dr. J.P.Singh,Asstt. Professor,Deptt. of Hoticulture
17. Dr. S.B.Pandey, Asstt. Professor,Deptt. of Soil Science & Agri. Chemistry
18. Dr. C.B.SinghGangwar,Asstt.Professor,Deptt. Seed Science & Technology.
19. Sri Arun Srivastava, Computer, Deptt. of Crop Physiology

At the outset Dr. Poonam Singh, Head, welcome the participants of the meeting and also presented action taken report of Rabi 2018-19 R.A.C. meeting, research achievement and priority area of research of the department.

After the enough discussion on achievement and technical Programme of Rabi 2019-20 were presented by respective scientist of the department at length and following decision weretaken up by Research Advisory Committee.

1.1 Concluded.

1.2 Approved with committee comments that the name of breeder Dr Geeta Rai should be added in programme.

2.1 Concluded.

2.2 Approved.

2.3 Approved with comments that parameters of yield attributes should be mentioned.

3.1 Approved

4.1 Approved.

4.2 Concluded.

4.3 Approved.

Meeting ended with vote of thanks to Chairman, Professor & Scientist of various department by Dr. S.N.Singh, Asstt. Professor of the department.

Head
Deptt.of Crop Physiology

No. C.P. 936 Dated: Dec. 9 .2019

Copy to:-

1. Director, A.E.S. → Gautam 10/12/19
2. Dean, College of Agriculture. 10-12-19
3. Technical secretary to Hon'ble Vice-Chancellor for information to Hon'ble Vice-Chancellor
4. All concerned HOD.

Akyadav 10-12-19

Head
Deptt.of Crop Physiology

Directorate of Agricultural Experiment Station
Diary No. 2812/DR/19
Date 20/12/2019
C.S. Azad University of Agriculture and Technology, Kanpur

Department of Entomology

C.S. Azad University of Agriculture & Technology, Kanpur-2

No.ENT- 567 /2019-20 Dated: 18/12/ 2019

Proceeding of Research Advisory Committee meeting held on 18.11.2019 for Rabi 2019-20

The RAC meeting of Rabi 2019-20 was held under the chairmanship of Dr. Dr. H.G. Prakash, Director Research AES, on 18 November, 2019 in the committee room of Department of Entomology, C.S. Azad University of Agriculture & Technology, Kanpur.

The following officers/ Scientists were present in the meeting:

Sl. No.	Name	Designation	Department
1.	Dr. H.G. Prakash	Director (AES)	Directorate of Research
2.	Dr. D.R. Singh	Prof. & Head	Department of Entomology
3.	Dr. Y.P. Malik	Professor	--do--
4.	Dr. Kripa Shanker	,,	--do--
5.	Dr. S.K. Sachan	Assoc. Professor	Ag. Engineering
6.	Kaushal Kumar	Assoc. Professor	Soil Conservation
7.	Dr. Mohd. Shamim	Asstt. Prof.	Directorate of Research
8.	Dr. Ram Singh Umrao	Asstt. Professor	Deptt. of Entomology
9.	Dr. A.S. Srivastava	Asstt. Professor	--do--
10.	Dr. R.K. Dwivedi	,,	--do--
11.	Dr. Fazal Ahmad	,,	--do--
12.	Dr. Shridha Saxena	,,	--do--
13.	Dr. D.K. Singh	,,	Oil Seed
14.	Dr. Jitendra Kumar	,,	Rabi Cereals
15.	Dr. Rakesh Babu Gautam	Asstt. Professor	ABC

Dr. D.R.Singh, Professor & Head, Department of Entomology welcomed the Chairman and all the participants from other Departments and Entomology Department and presented the thrust area of research and salient achievements of the year 2018-19.

Achievements of Rabi 2018-19

The salient achievements are as follows.

1. In tomato experiment NSKE 5% found superior, the infestation was observed 12.7% and highest marketable yield obtained 194.45 q/ha and this finding is followed by bakoin 15.3% and marketable yield 188.88 q/ha

2. Rodent control majors had been applied and menace has successfully been controlled in nearby farms of university and seed processing plant.

3. In the experiment for screening of varies insecticides against coccinellid predator Imidacloprid, Indoxacarb and Novaluran was found suitable for mustard crop.

4. Other approved experiments are going on for scientific finding.

Director
Agricultural Experiment Station
C.S. Azad Univ. of Agri. & Tech.

The projects presented for the current programme were approved as follows:

Project No. 1- Concluded.

Project No. 2- Approved as such.

Project No. 3 Approved as such.

Project No. 4- Approved as such.

Project No. 5- Approved as such with the suggestion as regular feature with germplasm instead new experiment.

Project No. 6- Approved as such with the suggestion that the word domesticated rats should be replaced with house rats

Project No. 7- Approved as Such.

Project No. 8 & 9-Not approved and Director (AES) suggested that prior approval form Ethical Society or as per norms is required to conduct these experiment are kept in abeyance till the approval of the RAC. However, he also suggested that these experiments have miner significance in the field of Agricultural Entomology and more related to ornithology. Director (AES) and Head (Deptt. of Entomology) were of the opinion that new experiments of Entomology can be framed with the importance in related field. The RAC members were also of the same opinion.

Project of Rai and mustard : Presented by Dr. D.K. Singh Oil seed Entomologist and all the project are Approved as Such.

Wheat and Barley : Presented by Dr. Jitendra Kumar wheat Entomologist and all project are Approved as Such.

Note:

It was suggested regarding Project No. 10&11 that the achievements/ recommendations must be sent to Professor & Head, Deptt. of Entomology within one week of the respective Annual Group Meet.

The meeting was over with appreciation remarks of Director AES, Dr. H.G. Prakash and vote of thanks by Dr. Y.P. Malik, Professor.

Director
Agricultural Experim.. at Station
C.S. Azad Univ. of Agri & Tech.
Kanpur

12-12-2019

(D.R. Singh)
Head
Deptt. of Entomology

Department of Genetics and Plant Breeding,
C.S. Azad University of Agriculture and Technology, Kanpur-208 002

No.: GPB- 1187 /2019-20 Dated: December 07, 2019

1. Incharge, Rabi Cereal Section
2. Incharge, E.B. Legume Section
3. Incharge, E.B. Oilseed Section
4. Incharge, AICRP (Rapeseed Mustard)
5. Incharge, AICRP (Tobacco), Araul
6. Chief Cerealists, EBR
7. Concerned Crop Breeder through their Incharges (Rapeseed mustard Breeder, Linseed Breeder, Fieldpea/Chickpea Breeder, Lentil Breeder, Barley Breeder and Wheat Breeder)
8. All the teachers of the Department

Kindly find enclosed herewith the proceeding of Research Advisory Committee Meeting of *Rabi* 2019-20 held on November 01-02, 2019 for your information and further necessary action at your end.

Enclosure: As stated above

07/12/2019
(Mahak Singh)
Professor & Head

No.: GPB-1187 /2019-20 date as above.

9/XII/19

Copy for the information to:

1. Dean, Faculty of Agriculture
2. Director, Agriculture Experiment Station.
3. Director, Extension
4. Director (Seed & Farms)
5. All the Heads/In charges of Departments
6. Dr. C.P. Sachan, Seed Production Officer
7. Incharge, Vegetable Section
8. TS to VC for kind information of Hon'ble Vice Chancellor

07/12/2019
(Mahak Singh)
Professor & Head

9/XII/19

Proceeding o[redacted] Advisory Committee (RAC) Meeting of the Department of Genetics and [redacted]eding, C.S. Azad University of Agriculture and Technology, Kanpur for Rabi 2019-20 was held on November01-02, 2019.

The meeting was chaired by **Dr. H.G. Prakash**, Director Research. At the outset **Dr. Mahak Singh**, HoD welcomed all participating faculty members. The chairman gave good wishes of Deepawali to all faculty members. He informed the house that there is an urgent need to develop such type of crop varieties which can perform better under climate stress conditions. He also emphasized to do more research for macroclimatic conditions. He informed the house that last year four varieties of field crops were developed by our university. Credit goes Dr. Mahak Singh, Dr. Manoj Katiyar and Dr. Nalini Tiwari. He further informed the house that from next year the breeders and other members of released varieties will be honoured by Directorate of Research. The following research programmes of different *Rabi* field crops were presented by concerned breeders and all the programmes were discussed thoroughly in present meeting. The recommendations of different research programmes are given below:

1. **Barley**: Research protgramme was presented by **Dr. P.K. Gupta.**
   Experiment No. 1 to 14: Approved
2. **Field pea**: Research programme was presented by **Dr.Geeta Rai.**
   Experiment No. 1 to 7: Approved
3. **Linseed**: Research programme was presented by **Dr. Nalini Tiwari.**
   Experiment No. 1 to 10: Approved
4. **Rapeseed-Mustered**: Research programme was presented by **Dr. Mahak Singh.**
   (a) **Toria**: Project No. 1 to 3: Approved.
   (b) **Yellow Sarson**: Project No.4 to 5 Approved.
   (c) **Indian mustard**: Project No. 1 to 9 Approved.
5. **Wheat**: Research programme was presented by **Dr. S.V. Singh.**
   Experiment No. 1 to 10: Approved
6. **Tobacco:** Research programme was presented by **Dr. A.K. Srivastava.**
   Project No. 1 to 2 Approved.
7. **Lentil**: Research programme was presented by **Dr. Manoj Katiyar.**
   Experiment No. 1 to 8: Approved
   Experiment No. 1 (AICRP): Approved
8. **Chickpea**: Research programme was presented by **Dr. Manoj Katiyar.**
   Experiment No. 1 to 4: Approved
9. **Forage**: Research programme was presented by **Dr. H.C. Singh.**
   Experiment No. 1 to 3: Approved

On first day three progressive farmers were also present in the meeting. Shri Babu Singh, Chairman, Farmers Committee were also present in the meeting and informed about farmers problems to the house .

Prepared by

Sanjay
(S.K. Singh)

(R.P. Vyas)

(Mahak Singh)
HoD, Genetics & Plant Breeding

Approved by

(H.G. Prakash)
Director Research

W&!P.P.-422
Date: 30/11/19

Proceeding of the meeting of Research Advisory Committee *Rabi* 2019-20 Department of Plant Pathology held on dated 30.11.2019

The following were present in the meeting:

1. Dr. H. G. Prakash, Director AES
2. Dr. U. K. Tripathi, HOD, Plant Pathology
3. Dr. Mahak Singh, HOD, GPB
4. Dr. Ved Ratan, Professor, Plant Pathology
5. Dr. A.L. Jatav, Professor, Seed Science & Technology
6. Dr. Y.P. Malik, Professor, Entomology
7. Dr. S.D. Dubey, Asstt. Prof., Microbiology
8. Dr. Devendra Singh, Asstt. Prof., Soil & Agril. Chemistry
9. Dr. S. K. Biswas, Professor, Plant Pathology
10. Dr. Narendra Singh, Professor, Plant Pathology
11. Dr. Rakesh Kumar Singh, Asstt. Prof., Agril. Economics & Statisitics
12. Dr. Karam Hussain, Professor., Agronomy
13. Dr. B.K. Singh, Asstt. Prof., AICRIP (Vegetable)
14. Dr. M.R. Dabbas, Asstt. Prof., AICRIP (Potato)
15. Dr. V.K. Tripathi, Officer In charge, Horticulture

The meeting was started with the warm welcome of Chairman Dr. H.G. Prakash, Director AES, scientists of Plant Pathology department and other scientists of different departments by Head, Department of Plant Pathology. Director AES briefed the committee about the overall progress in research of the department during last year. Head of Department informed to the house that total 26 research projects (including Plan & non Plan) have been submitted by the scientists. Each programme was discussed thoroughly and decision/suggestion were taken as given below.

(A) Plant Pathology department (Non Plan):

Project No. 1 — **1.** Comparative evaluation of different substrates for the production of Oyster mushroom (Plekrotes spp.). **Approved**

Project No. 2 — **2.** Chemical management of Septoria leaf spot of tomato caused by *Septoria lycopersici*. **Approved**

Project No. 3 — **3.** Chemical management of Phomopsis blight of brinjal caused by *Phomopsis vexans*. **Approved**

Project No. 4 — **4.** Evaluation of new chemical and bio fungicides against *Fusarium oxysporum* f.sp. *cicerai* causing wilt of chickpea. **Approved**

Project No. 5 — **5.** Effect of different botanicals (Extracts) as seed treatment against seed borne diseases of lentil. **Approved**

Project No. 6 — **6.** Evaluation of new chemical and bio fungicides against *Fusarium oxysporum* f.sp. *cierai* causing wilt of chickpea. **Approved** with the suggestion that one more treatment of mancozeb+carbendazim and Dr. A.L. Jatav will also be associate.

Project No. 7 — **7.** Effect of different botanicals (extracts) on seed treatments against seed borne diseases of lentil. **Approved** with one more treatment of claerodendran enermy (0.2%) and Dr. A.L. Jatav will also be associate as research worker.

All India Coordinated Project (Plan)

B. (i) Rabi Cereal Section (Total Experiment 7):

Wheat

Project No. 1 — **1.** Plant Pathological Screening Nursery (PPSN). **Approved**

Project No. 2 — **2.** Initial Plant Pathological Screening Nursery (IPPSN). **Approved**

Project No. 3 — **3.** To monitor spread and incidence of diseases in "Wheat disease trap nursery" under natural conditions. **Approved**

Project No. 4 — **4.** Crop health monitoring - Pre & Post harvest survey of wheat & barley crop. **Approved**

Barley

Project No. 5 — **5.** National barley diseases screening nursery (NBDSN). **Approved**

Project No. 6 — **6.** Initial Barley Disease Nursery (IBDSN). **Approved**

Project No. 7 — **7.** Elite barley screening nursery (EBDSN). **Approved**

Project No. 8 — **8.** Chemical Control of Leaf Blight in Barley. **Approved**

(ii). **Linseed (Total experiment-6):**

Project No. 1	**1.** Survey of disease of linseed prevailing in this region. **Approved**
Project No. 2	**2.** Screening of germplasms against wilt disease of linseed. **Approved**
Project No. 3	**3.** Uniform disease nursery trial under natural condition (UDN). **Approved**
Project No. 4	**4.** Uniform disease nursery trial under natural artificial condition (UDNA) for advanced breeding lines. **Approved**
Project No. 5	**5.** Evaluation of promising entries/elite material under high inoculums pressure (ADNT). **Approved**
Project No. 6	**6.** Effecacy of plant defence inducers in the management of foliar disease in linseed. **Approved**

(iii). **Potato (Total experiment-4):**

Project No. 1	**1.** Monitoring of Late Blight and A2 mating type of *P. Infestans* in standing crop and tubers at harvest and after cold storage. **Approved**
Project No. 2	**2.** Survillance of important Potato disease in the region (Pest capture plots). **Approved**
Project No. 3	**3.** Scheduling of fungicide application for the management of late blight. **Approved**
Project No. 4	**4.** Management of common scab in Potato. **Approved**

(iii). **AICRIP Vegetable Crops (Total experiment-1):**

Project No. 1	**1.** Integrated management of virus disease in okra. **Approved**

The meeting was ended with vote of thanks.

30/11/15

(U.K. Tripathi)
Head
Plant Pathology

30/11/15

(H.G. Prakash)
Director
Agriculture Experiment Station

Head
Deptt. of Plant Pathology
C S U & Tech. Kanpur

Rapt - 2019-20

Proceedings of RAC Meeting of Rabi 2019-20 held on 20.11.2019
Deptt. of Soil Science & Agricultural Chemistry

The Rabi research advisory committee meeting of Department of Soil Science and Agricultural Chemistry was held on 20.11.2019 under the Chairmanship of Dr. H.G. Prakash, Director Research of the University. The following faculty members were present in the meeting.

1- Dr. H.G. Prakash, Director Research
2- Dr. Ravindra Kumar , Head, Soil Science & Agril.Chem.
3- Dr. Munish Kumar, HOD, Soil Conservation.
4- Dr. R.A. Yadav Prof. Agronomy
5- Dr. M.Z. Siddique, Assoc. Prof. Agronomy
6- Parwez Alam,Asstt. Prof. ,
7- Dr. Nand Kumar, Asstt. Prof. Agril. Bio chemistry
8- Dr. Anil Kumar, Associate Professor , Deptt. Of Soil Science & Agril. Chemistry
9- Dr. R.K. Pandey, Asstt. Prof. Soil Science & Agril.Chem.
10- Dr. S.B. Pandey, Asstt. Prof. Deptt. Of Soil Science & Agril. Chemistry
11- Dr. Sushil Dimree, Asstt. Prof. Deptt. Of Soil Science & Agril. Chemistry
12- Dr. R.K. Pathak, Asstt. Prof. Deptt. Of Soil Science & Agril. Chemistry
13- Dr. S.D. Dubey, Asstt. Prof. Deptt. Of Soil Science & Agril. Chemistry
14- Dr. S.K. Mishra, Asstt. Prof. Deptt. Of Soil Science & Agril. Chemistry
15- Dr. Devendra Singh Asstt. Prof. Deptt. Of Soil Science & Agril. Chemistry
16- Sri K.N. Singh Asstt. Prof. Deptt. Of Soil Science & Agril. Chemistry
17- Dr. Sanjeev Sharma, SMS
18- Dr. S.N. Pandey, Asstt. Prof., Soil Salinity
19- Dr. S.M. Tripathi, Asstt. Prof. Horticulture.

Dr. Ravindra Kumar, Head of Deptt. welcome to all members. Dr. R.K. Pandey presented salient achievement of different programme conducted during Rabi-2018-19. HOD highlighted about different programme and activities going on in the Deptt. like Soil Testing, Quality Testing of Pesticide, Fertilizer, etc., Bio fertilizer production, Adhoc project of micronutrient AINP on pesticides residues AICRP on Management of Salt affected soil and Adhoc Project of Iffco Chair Programme. During discussion, Director Research has suggested for incorporation of research achievement in extension activities for the benefit of farmers. Director research also informed that any publication above 6NAAS rating of work done under approval of Research Advisory Committee, the cost will meet out by the University after proper assessment of Head of department and Director Research . The scientist will encourage through providing award by the University for his significant achievement in research/resource generation. Director Research has also suggested for attachment of one ministerial Staff with each unit for proper maintenance and file movement purpose . The HOD agreed upon Director Research suggestion .

The detail programme are Rabi-2019-20 has been discussed and suggestion were welcomed . After thought full discussion the following programme were formulated:

Quality testing of Pesticides, Fertilizers, Manures and allied products .

All project presented by Dr. S.B. Pandey and after discussion all four projects were approved as such.

Soil Testing Scheme:

Sri K.N. Singh presented experiments of soil testing scheme. All Projects were approved as such.

Soil Fertility and Soil Survey:

Dr. S.K. Mishra presented experiments of Soil Fertility and Soil Survey. Experiments of Soil fertility and soil survey discussed by the house and approved.

Microbiology:

Project No. 1 , 2 and 3 presented by Dr. S.D. Dubey and approved by the house without any modification.

AINP on Pesticide Residues:

Dr. R.K. Pandey scientifically presented the experiments of the project and after certain quarries all six project approved by the house.

Adhoc project IFFCO Chair

Dr. Devendra Singh presented the experiments related to IFFCO Chair. After some quarries all two IFFCO Chair experiments approved as such by the house.

AICRP of Micro and secondary nutrients and pollutants elements in soil and plants.

Dr. Anil Kumar presented the experiments and house after discussion approved all five experiments for its executions.

AICRP on Management of Salt affected soils and use of saline water in Agriculture.

Research achievements presented by Incharge of the scheme, Prof. Ravindra Kumar and all presented Projects were approved by house.

At the end of meeting Dr. Anil Kumar proposed vote of thanks to Director Research , Head of Department and Scientist gathered from inside and out side of the Department.

(Ravindra Kumar)
Head of Department

Department of Soil Science & Agricultural Chemistry
C.S.Azad University of Agri. & Technology, Kanpur-2

No. 716 /2019

Dated: 31/12/2019

Copy forwarded for information and necessary action:

1. Dean, College of Agriculture.
2. Director, Agriculture Experiment Station.
3. All Professor & Head of the department.
4. Concerned Scientist of the department.

(Ravindra Kumar)
Head of Department

PROCEEDINGS OF RAC MEETING HELD ON 13-11-2019 FOR RABI, 2019-20 IN THE DEPARTMENT OF SOIL CONSERVATION AND WATER MANAGEMENT

A meeting was held on 13-11-2019 to finalize the research programme of *Rabi* 2019-20. Following scientists/teachers were present:

S.No.	Name	Designation
1.	Dr. Mohd. Shamim	Asstt. Director, AES
2.	Dr. Manoj Mishra	Asstt. Director, AES
3.	Dr. Munish Kumar	Professor & Head, SCWM
4.	Dr. R.P. Singh	Professor, SCWM
5.	Dr. Kaushal Kumar	Associate Professor, SCWM
6.	Dr. Sarvesh Kumar	Associate Professor, SCWM
7.	Dr. U.D. Awasthi	Assistant Professor, SCWM
8.	Dr. A.K. Katiyar	Assistant Professor, SCWM
9.	Dr. U.K. Tripathi	Professor & Head, Plant Pathology
10.	Dr. Mahak Singh	Professor & Head, Genetics & Plant Breeding
11.	Dr. Sanjeev Kumar	Professor & Head, Agronomy
12.	Dr. R.K. Dwivedi	Assistant Professor, Entomology
13	Dr. J. Rai	Asstt. Professor, Agric. Economics & Statistics
14.	Dr. Anil Kumar Singh	Assistant Professor, Crop Physiology

After warm welcome by Dr. Munish Kumar, Professor & Head to all participants in the meeting, the achievements and compliance report was presented for various research programmes. During meeting, projects were presented one by one by relevant teachers given as under:

Project No. 1: "Studies on chickpea (*Cicer arietinum* L.) based intercropping system under moisture stress condition."

A new experiment proposed by Dr. Munish Kumar for Ph.D. student. After discussion in detail committee suggest that change objective No. 4 as workout economics of the treatments allowed to conduct in present *Rabi* 2019-20.

Project No. 2: "Evaluation of bio-intensive complementary cropping systems involving Mustard-Chickpea Intercropping in Indo-Gangetic Plains".

Last year Ph.D. trial was presented by Dr. Munish Kumar. The project was conducted for two years and after discussion committee allowed to conclude . The recommendation of the trial were as under:

1. Seed yield of Mustard sole recorded maximum 16.71 q/ha followed by treatment sowing on narrow bed Mustard + Chickpea treatment.
2. Seed yield of Chickpea 24.06 q/ha recorded in treatment of sowing Chickpea on ridges-one row on ridges followed by Broad bed furrow 105 cm (BBF) : 3 row of Chickpea on BB and 1 row of Mustard in furrow.

Project No. 3: "Effect of *Arbuscular mycorhiza* fungi on phosphorus and water economy in barley (*Hordeum vulgare* L.)"

A new experiment planned by Dr. Kaushal Kumar for M.Sc.(Ag.) students and allow to conduct in *rabi* 2019-20 as well as data procured for further record of last year Ph experiment entitled "Impact of tillage, irrigation scheduling and fertility levels on production potential of Barley (*Hordeum vulgare* L.) in Central Plain Zone of Uttar Pradesh "

Project No. 4: "Response of first irrigation and sowing time on productivity of wheat."

Last year M.Sc.(Ag.) trial presented by Dr. Sarvesh Kumar and allowed to continue fo M.Sc.(Ag.) students in *rabi*, 2019-20

Project No. 5: Studies on preparatory tillage, moisture conservation practices and nutrient manageme in barley production under water stress condition.

Last year Ph.D. trial presented by Dr. Sarvesh Kumar and after discussion experiment concluded and data procedure for record and present in next year.

Project No. 6: "Effect of hydro-gel on yield of mustard in rainfed condition."

A new experiment for M.Sc.(Ag.) student proposed by Dr. R.P. Singh and after discuss approved for conducting in *Rabi*, 2019-20.

Project No. 7: "Barley based intercropping systems under integrated nutrient management in rainfed condition."

Ph.D. experiment (student of Dr. U.D. Awasthi) presented by HOD. Project was concluded after two years of experimentation and committee suggest that data procure for record and present in next year.

Project No. 8: "Production potential of barely varieties at varying levels of fertilizer and date of sowi under moisture stress condition in indo gangetic plain zone of Central Uttar Pradesh."

A new experiment for Ph.D. student discussed in detail and approved by the committee with suggestions that delete one variety from five varieties.

Project No. 9: "Relative performance of linseed varieties at varying levels of fertilizer under moisture scarce condition."

A new experiment planned by Dr. U.D. Awasthi for M.Sc.(Ag.) student and Dr. Awast discussed the experiment with HOD and allowed same to conduct in *Rabi*, 2019-20

Project No. 10: "Effect of micro-nutrient on growth and yield of linseed under limited water supply."

A new experiment proposed for M.Sc.(Ag.) students and after discussion the project w approved by the committee as such for *Rabi*, 2019-20

Project No. 11: "Effect of transplanting time & Zinc Sulphate on mentha production and water saving."

A new experiment proposed by Dr. Sarvesh for M.Sc.(Ag.) student and approved by th committee with suggestions that delete one treatment of transplanting time (15 April) a include irrigation scheduling instead of II factor as- IW/CPE ratio treatments are (i) 0. (ii) 0.7 & 0.9). New title of project suggested as "Effect of transplanting time & irrigation scheduling on mentha production and water saving".

The meeting was ended with vote of thanks by Dr. Sarvesh Kumar, Associate Professor of this department to all participants present in the meeting

(**Munish Kumar**)
Professor & Head

Department of Soil Conservation and Water Management
C.S. Azad University of Agriculture & Technology, Kanpur-208002

No. 660 /SCWM/2019-20 Dated: Dec. 20, 2019

Copy forwarded for information & necessary action to:

1. Dean, Faculty of Agriculture, CSAU, Kanpur
2. Director, Agricultural Experiment Station, CSAU, Kanpur
3. Professor & Heads(s)/In -charge (s) of the Department – Agronomy, Soil Sci. & Agril. Chemistry, Plant Pathology, Entomology, Crop Physiology and Agril. Economics & Statistics
4. All Teachers/Scientists of the Department
5. T.S. to V.C. for kind information of Hon'ble Vice-Chancellor.

(**Munish Kumar**)
Professor & Head

Proceedings of RAC Meeting of Rabi 2019-20 held on 20.11.2019
Deptt. of Soil Science & Agricultural Chemistry

The Rabi research advisory committee meeting of Department of Soil Science and Agricultural Chemistry was held on 20.11.2019 under the Chairmanship of Dr. H.G. Prakash, Director Research of the University. The following faculty members were present in the meeting.

1- Dr. H.G. Prakash, Director Research
2- Dr. Ravindra Kumar , Head, Soil Science & Agril.Chem.
3- Dr. Munish Kumar, HOD, Soil Conservation.
4- Dr. R.A. Yadav Prof. Agronomy
5- Dr. M.Z. Siddique, Assoc. Prof. Agronomy
6- Parwez Alam,Asstt. Prof. ,
7- Dr. Nand Kumar, Asstt. Prof. Agril. Bio chemistry
8- Dr. Anil Kumar, Associate Professor , Deptt. Of Soil Science & Agril. Chemistry
9- Dr. R.K. Pandey, Asstt. Prof. Soil Science & Agril.Chem.
10- Dr. S.B. Pandey, Asstt. Prof. Deptt. Of Soil Science & Agril. Chemistry
11- Dr. Sushil Dimree, Asstt. Prof. Deptt. Of Soil Science & Agril. Chemistry
12- Dr. R.K. Pathak, Asstt. Prof. Deptt. Of Soil Science & Agril. Chemistry
13- Dr. S.D. Dubey, Asstt. Prof. Deptt. Of Soil Science & Agril. Chemistry
14- Dr. S.K. Mishra, Asstt. Prof. Deptt. Of Soil Science & Agril. Chemistry
15- Dr. Devendra Singh Asstt. Prof. Deptt. Of Soil Science & Agril. Chemistry
16- Sri K.N. Singh Asstt. Prof. Deptt. Of Soil Science & Agril. Chemistry
17- Dr. Sanjeev Sharma, SMS
18- Dr. S.N. Pandey, Asstt. Prof., Soil Salinity
19- Dr. S.M. Tripathi, Asstt. Prof. Horticulture.

Dr. Ravindra Kumar, Head of Deptt. welcome to all members. Dr. R.K. Pandey presented salient achievement of different programme conducted during Rabi-2018-19. HOD highlighted about different programme and activities going on in the Deptt. like Soil Testing, Quality Testing of Pesticide, Fertilizer, etc., Bio fertilizer production, Adhoc project of micronutrient AINP on pesticides residues AICRP on Management of Salt affected soil and Adhoc Project of Iffco Chair Programme. During discussion, Director Research has suggested for incorporation of research achievement in extension activities for the benefit of farmers. Director research also informed that any publication above 6NAAS rating of work done under approval of Research Advisory Committee, the cost will meet out by the University after proper assessment of Head of department and Director Research . The scientist will encourage through providing award by the University for his significant achievement in research/resource generation. Director Research has also suggested for attachment of one ministerial Staff with each unit for proper maintenance and file movement purpose . The HOD agreed upon Director Research suggestion .

The detail programme are Rabi-2019-20 has been discussed and suggestion were welcomed . After thought full discussion the following programme were formulated:

Quality testing of Pesticides, Fertilizers, Manures and allied products .

All project presented by Dr. S.B. Pandey and after discussion all four projects were approved as such.

Soil Testing Scheme:

Sri K.N. Singh presented experiments of soil testing scheme. All Projects were approved as such.

Directorate of Agricultural Experiment Station
Diary No. 336/DRI/20
Date 04/02/2020
C.S. Azad University of Agriculture and Technology, Kanpur

Soil Fertility and Soil Survey:

Dr. S.K. Mishra presented experiments of Soil Fertility and Soil Survey. Experiments of Soil fertility and soil survey discussed by the house and approved.

Microbiology:

Project No. 1 , 2 and 3 presented by Dr. S.D. Dubey and approved by the house without any modification.

AINP on Pesticide Residues:

Dr. R.K. Pandey scientifically presented the experiments of the project and after certain quarries all six project approved by the house.

Adhoc project IFFCO Chair

Dr. Devendra Singh presented the experiments related to IFFCO Chair. After some quarries all two IFFCO Chair experiments approved as such by the house.

AICRP of Micro and secondary nutrients and pollutants elements in soil and plants.

Dr. Anil Kumar presented the experiments and house after discussion approved all five experiments for its executions.

AICRP on Management of Salt affected soils and use of saline water in Agriculture.

Research achievements presented by Incharge of the scheme, Prof. Ravindra Kumar and all presented Projects were approved by house.

At the end of meeting Dr. Anil Kumar proposed vote of thanks to Director Research , Head of Department and Scientist gathered from inside and out side of the Department.

(Ravindra Kumar)
Head of Department

Department of Soil Science & Agricultural Chemistry
C.S.Azad University of Agri. & Technology, Kanpur-2

No. 765 /2020 Dated: 07-01-2020

Copy forwarded for information and necessary action:

1. Dean, College of Agriculture.
2. Director, Agriculture Experiment Station.
3. All Professor & Head of the department.
4. Concerned Scientist of the department.

(Ravindra Kumar)
Head of Department

Department of Vegetable Science
C.S. Azad Univ. of Agri. & Technology, Kanpur-208024

No.: VGS /51 /2020-21 Dated: May 30, 2020

Proceedings of the Research Advisory Committee Meeting (*Rabi*) held on 7th January, 2020 under the chairmanship of Director, AES.

At the outset, Officer-in-charge, Vegetable Section welcomed to the chairman, Heads of other discipline and members of the committee. Officer-in-charge also presented salient research achievements made during 2019. Dr. Sanjiv Kumar Singh, Assistant Professor presented Action Taken Report of last year's research programme. The research programmes of different vegetable crops for *Rabi* season were presented by the respective crop scientists. The decision taken by RAC are being reflected here as under –

- In project No. 2 Dr. C.B. Singh Gangwar desired to draw calumm for three years average yield data.

(Action - Dr. K. P. Singh)

- In project No. 3 Dr. Mahak Singh suggested to mention maturity days in their topic.

(Action - Dr. K. P. Singh)

- In project No. 6 Dr. Mahak Singh pointed out about Dr. S.P. Sachan, then house decided to write advisor COe (Vegetable) with their name.

(Action - Dr. K. P. Singh)

- In project No. 10 and 11 Chairman directed to conclude the experiment and select best lines to test in further experiment on the basis of insect pest and disease data.

(Action - Dr. S. K. Singh)

- In project No. 12 Chairman suggested to collaborate Dr. R. K. Pal to take insect and nematode data in poly house.

(Action - Dr. K. P. Singh)

- In project No. 14 and 15 the senior members has suggested to modify the experiment.

Remaining projects of all other crops were discussed and approved with desired modifications. The vote of thanks was given by the Dr. Rajiv, Jr. Agronomist.

Encl: List of participants

(D.P. Singh)
Officer In-charge

Letter No. & Dated: Above
Copy to the followings

1- Director, AES.
2- Prof. & Head Department of GPB and Soil Science.
3- Technical Secretary to the Vice Chancellor for information to Hon'ble Vice Chancellor.

(D.P. Singh)

(233)

Directorate of Research

C. S. Azad University of Agriculture & Technology, Kanpur-208002

Ref. 505 /DR/2020
Dated: 22 Sept, 2020

Circular

Departmental Research Advisory Committee and Zonal Research Extension Advisory Committee meetings will be held as per schedule given below to discuss and finalize research programmes for ***Rabi* 2020-21**. The scheduled of dates should be adhered to.

S.N	Faculty/Discipline	Date & Time
A.	**Faculty of Agriculture**	
1	Vegetable Science	01.10.2020 at 10:30 AM
2	Horticulture	03.10.2020 at 10:30 AM
3	Agril. Biochemistry	05.10.2020 at 10:30 AM
4	Agronomy	06.10.2020 at 10:30 AM
5	Entomology	07.10.2020 at 10:30 AM
6	Crop Physiology	08.10.2020 at 10:30 AM
7	Seed Science & Technology	09.10.2020 at 10:30 AM
8	Soil Science and Agril. Chemistry	12.10.2020 at 10:30 AM
9	Plant Pathology	13.10.2020 at 10:30 AM
10	**ZREAC Central Plain Zone, Daieepnagar**	14.10.2020 at 10:30 AM
11	Soil Conservation & Water management and Forestry	15.10.2020 at 10:30 AM
12	**ZREAC South Western Semi Arid Zone, Kalai Aligarh**	16.10.2020 at 10:30 AM
13	Genetics and Plant Breeding	17.10.2020 at 10:30 AM
14	Agriculture Extension	19.10.2020 at 10:30 AM
15	Animal Husbandry and Dairying	20.10.2020 at 10:30 AM
16	Agril. Economics & Statistics	21.10.2020 at 10:30 AM
B.	**Faculty of Home Science**	
1	Food Science & Nutrition	22.10.2020 at 10:30 AM
2	Family Resource Management	
3	Extension Communication & Management	
4	Human Development	
5	Textile & Clothing	
C.	**Faculty of Agril. Engineering & Technology**	23.10.2020 at 10:30 AM

(H.G. Prakash)
Director Research

Copy forwarded to following for information and necessary action.

1. HoD(s)/In charges of Departments/Sections with request to please inform all the scientists of concern subject working in Scheme/KVKs.
2. In charges Rabi Cereal, Oilseed, Legume and Vegetable Sections
3. Officer In charge of all NARP Research Stations
4. Project In charge Tobacco, Sorghum, Cotton & Paddy
5. Director Seed & Farms
6. Director Extension with request to please inform to Head of all KVKs of the Zone to ensure their participation in ZREAC meetings.
7. Dean, Faculty of Agriculture
8. Dean, Faculty of Home Science
9. Dean, Faculty of Agril. Engineering & Technology Etawah
10. In-charge PME Cell Directorate of Research
11. T S to V C for kind information of Hon'ble Vice Chancellor.
12. Guard file Directorate of Research

22/9/2020

(H.G. Prakash)
Director Research

Proceeding of Research Advisory Committee Meeting of Agronomy: *Rabi* (2020-21)

To finalize the technical programme for conducting field experiments of *rabi* 2020-21. Research Advisory Committee Meeting of Agronomy discipline was held on dated 05.11.2020 in the committee room of the Department of Agronomy of this university. The following Officers / Scientist were present in the meeting.

S. No.	Name	Designation
1.	Dr. H.G.Prakash	Director, Agricultural Experiment Station
2.	Dr. Sanjeev Kumar	Prof. & Head, Dept. of Agronomy
3.	Dr. Karam Husain	Chief Agronomist AICRP-IFS & HoD CP
4.	Dr Ajay Dubey	Prof. & JDR
5.	Dr U.K. Tripathi	Prof. & Head, Dept. of Plant Pathology
6.	Dr. R.A.Yadav	Professor, EBR Section & Director DSF
7.	Dr. D.D.Yadav	Professor, Dept. of Agronomy
8.	Dr. A.K.Srivastava	Professor, Dept. of Agronomy
9.	Dr. Dhanajai Singh	Professor, Dept. of Agronomy
10.	Dr. V.K.Verma	Professor, Dept. of Agronomy
11.	Dr. G. S. Parihar	Professor, Paddy Non-Plan, Dept. of GPB
12.	Dr. Naushad Khan	Professor, AICRP (Agromet).
13.	Dr. M. Z. Siddiqui	Professor, Dept. of Agronomy
14.	Dr. Jagdish kumar	Asso. Professor, EBR Section
15.	Er S. K. Sachan	Asso. Professor, Dept. of Agronomy
16.	Er. Lal Mani	Asstt. Professor, Dept. of Agronomy
17.	Dr. Anjani Kr Singh	Asstt. Professor, Dept. of AES
18.	Dr. Y.K. Singh	Asstt. Professor, Dept. of Agronomy
19.	Dr. Uma Shankar Tiwari	Asstt. Soil Chemist, AICRP-IFS
20.	Shri S. N. Pandey	Agrometeorologist
21.	Dr. Rajiv	Assistant Agronomist, Veg. Science
22.	Shri Vishram Singh	Asstt. Professor, Dept. of Agronomy
23.	Sri Raj Veer Singh	Assistant Agronomist, Oil Seed Section
24.	Dr. Rakesh Kr Singh	Asstt. Professor, Dept. of AES
25.	Dr A.K. Katiyar	Asstt. Professor, Dept. of SCWM
26.	Dr. Jitendra Singh	Scientist, Agronomy (D. E.)
27.	Dr C.B. Singh	Field Man, Agro meteorology

Meeting was started with the welcome address of Professor and Head Department of Agronomy, Dr. Sanjeev Kumar. He welcomed Director, AES (Chairman) as well as all the participants of different departments of the university. While welcoming, to Director AES and scientists fraternity Professor Sanjeev Kumar emphasized to take up need based research

considering the importance of resource conservation, residue recycling and climate change. He stressed that burning of crop residue create hazard to the soil and pollute the environment, hence, it should be recycled after processing. He emphasized the need of Natural resource management and Natural farming beside that record of nutrient status of the soil before recommending the doses of fertilizer for all crops.

Dr. H.G. Prakash, Director, AES in his chairman addresses said that only variety development will not be sufficient achievement unless the whole package of practices is developed and made available to the farmers along with the judicious management of natural resources under changing climatic situations. He emphasizes the need of hour is to study about soil health as well as crop geometry and its growth pattern with different irrigation schedules. It can be done with collaboration of scientist of different disciplines to study about bio-fortification, multiple cropping and solid waste management of cow dung as well as urine. He also emphasizes the problem of heavy metals in organic manures. Dr. Y.K.Singh will provide literature regarding role of organic manure in relation to heavy metal build up in soil. At the end he appreciated the HoD for organising RAC in time to discuss programme before execution.

At the end chairman advised the scientist to pool their wisdom in depth with enthusiasm and deep discussion to formulate the strategies for elevating sustainable agriculture production technologies. He showed confidence on scientist of varied back grounds, experience and knowledge to address the matters that is lying before the nation.

Review of previous meeting :-

Convener of the meeting Dr M.Z. Siddiqui circulated the proceeding of previous RAC – Rabi, 2018-19 meeting held on 01.11.2018 to the members vide letter no. AGR/EN 82 /2019 dated 27.04.2019 were reviewed. Since, there was no communication received from any members hence the proceeding was confirmed. He also requested to the scientists to send compliance report in time, so the action taken report can be prepared before next meeting as mentioned by JDR.

Discussion on Research programmes :-

Plan research programme were present first one by one, non-plan research programme planned by M.Sc.(Ag) and PhD students under the supervision of faculty members were taken later. The entire research programme was presented on power point by the concerned faculty members/scientists and was discussed at length. The decision taken is here as under.

Agro meteorology (ICAR) /FASAL/GKMS

Programme of Agro-meteorology (ICAR) presented by Dr S.N. Pandey. He emphasized the role of climate and related constraints for successful production of crops. He presented data regarding annual actual rainfall and also elaborated rainfall pattern of last forty years of U.P. district wise. He also elaborated decadal temperature variability of Kanpur region. He presented results of two experiments and reported performance two experiments under different schemes.

Exp. No. 1 – Studies on Maize - Wheat cropping system in relation to weather.

The result of the experiment discussed and experiment will be continued.

Action: Agro-meteorologist

Exp. No. 2 – Studies on Rice – Wheat cropping system in relation to weather.

The result of the experiment discussed and experiment will be continued.

Action: Agro-meteorologist

Professor Sanjeev Kumar Nodal Officer of FASAL & GKMS presented programme on AAS (Agro Advisory Services) and emphasized the role of weather on crop production specially growth and yield potential decision here taken as follows-

Exp. No. 3 – Programme of Gramin Krishi Mausam Seva

Discussed and approved with the suggestion that these service should be made available to timely to the farmers. **Action: Professor Sanjeev Kumar**

Exp. No. 4 – Forecasting of Agricultural output using Agro-metrology and land based observation (FASAL).

The experiment was discussed and approved.

Action: Professor Sanjeev Kumar

Wheat and Barley (plan & non-plan)

Total twelve experiments were presented by Dr. R.A. Yadav wheat Agronomist. He presented results of four experiments in plan (ICAR) and one in non-plan as well as three in CE wheat four experiments of barley plan (ICAR).

Wheat (Plan)

Exp. No.1 - Performance of new wheat genotypes under irrigated conditions (New experiment).

Experiment discussed and approved. **Action: Wheat Agronomist**

Exp. No.2 - Optimization of nitrogen doses for high yield potential under North-Central plain zone.

The result of the experiment discussed and experiment will be continued.

Action: Wheat Agronomist

Exp. No. 3 – Exploring timely sowing of wheat in NEPZ through surface seeding, seed priming and seed rate under rice-wheat system (New experiment).

Experiment discussed and approved. **Action: Wheat Agronomist**

Exp. No. 4 –Maximising the wheat productivity by fine tuning sowing time and fertilizer rates (New experiment).

Experiment discussed and approved. **Action: Wheat Agronomist**

Wheat (Non-plan)

Exp. No. 1 -Bio-fortification of wheat through Zn and Iron application (New exp.).

Experiment discussed and approved. **Action: Dr Jagdish Kumar**

Centre of Excellence for wheat

Exp. No.1- Studies on organic and inorganic weed management practices on growth and yield of wheat.

Result of the experiment discussed and experiment concluded.

Action: Wheat Agronomist

Exp. No.2- Studies on performance of wheat genotypes under different environment.
Result of the experiment discussed and experiment concluded.

Action: Wheat Agronomist

Exp. No.3- Effect of fertilizer and plant growth regulators on growth, development and yield of different varieties of wheat.
Result of the experiment discussed and experiment concluded.

Action: Wheat Agronomist

Barley (Plan)

Exp. No.1 - Effect of irrigation on productivity of barley (New experiment).
Result of the experiment discussed and experiment will be continued.

Action: Barley Agronomist

Exp. No.2 - Effect of Zn application on quality and productivity of barley.
Result of the experiment discussed and experiment will be continued.

Action: Barley Agronomist

Exp No.3 – Yield maximization of barley through integrated nutrient supply and PGRs application (New experiment).
Result of the experiment discussed and experiment concluded.

Action: Barley Agronomist

Exp. No.4 – Productivity enhancement through adjusting sowing dates and barley.
Result of the experiment discussed and experiment concluded.

Action: Barley Agronomist

Integrated Farming System Research

Technical programme of Integrated Farming System Research was presented by Dr U.S. Tiwari, Jr soil chemist, AICRP-IFS. He presented the results of different experiments including OFR as well as IFS model established at main centre. The experiments were presented as of follows:

Exp. No. 1 – Identification of cropping system module for different farming system.
The result of the experiment discussed and experiment will be continued.

Action: Scientist of AICRP-IFS

Exp. No. 2 – Sustainable resource management for climate smart IFS.
The result of the experiment discussed and experiment will be continued.

Action: Scientist of AICRP-IFS

On Farm Research

Exp. No. 1- On farm crop response to plant nutrients in predominate cropping system and their impact on crop livestock human continuum (OFR- 1).
The result of the experiment was discussed and experiment will be continued.

Action: Scientists of AICRP-IFS

Exp. No. 2- Diversification of existing farming systems under marginal households conditions (OFR- 2).
The result of the experiment was discussed and experiment will be continued to see the impact.

Action: Scientists of AICRP-IFS

Exp. No. 3- On farm evaluation of farming systems modules for improving the profitability of small and marginal farmers (OFR- 3).

The result of the experiment discussed and experiment will be continued to see the impact.

Action: Scientists of AICRP-IFS

Vegetable (ICAR)

Dr. Rajiv, Jr. Agronomist vegetable (plan) presented results of two experiments.

Exp. No. 1- Organic production of spinach beet.

The result of the experiment discussed and experiment will be continued.

Action: Jr. Agronomist Vegetable

Exp. No. 2- Studies on the shift of planting dates in view of the rising temperature and correlation of yield with temperature of tomato

The result of the experiment discussed and experiment will be continued.

Action: Jr. Agronomist Vegetable

AICRP Linseed

Dr M.F.Hussain was not present in the meeting due to some personal problem although he sent the programme of research experiments conducted with their findings.

Exp. No. 1- Weed management with new herbicides in irrigated linseed.

The result of two years presented and experiment will be continued.

Action: Jr. Agronomist Linseed

Exp. No. 2- Effect of micro-nutrients on growth and yield of linseed under limited irrigation.

The result of two years presented and experiment will be continued.

Action: Jr. Agronomist Linseed

Exp. No. 3- Effect of foliar application of growth regulator in enhancing productivity and profitability of linseed.

The result of two years presented and experiment will be continued.

Action: Jr. Agronomist Linseed

Water Management (Non-Plan)

Exp. No. 1- Effect of Sowing methods, N-levels scheduling irrigation on growth and yield of late sown Wheat for central plain zone of U.P.

The result of the experiment discussed and experiment will be continued.

Action – Dr. Sanjeev Kumar

Exp. No. 2- Effect of irrigation schedules and different doses of nitrogen on wheat crop in central plain zone of U.P.

The result of experiment discussed and experiment will be continued.

Action – Dr. M.Z. Siddiqui

Exp. No. 3- Effect of irrigation schedules and nutrient management on wheat crop in central plain zone of U.P.

The result of experiment discussed and experiment will be continued.

Action – Dr. M.Z. Siddiqui

Organic farming (Non-Plan)

Exp. No. 1- Effect of tillage practices on growth, yield and quality of wheat in organic and inorganic cultivation.

The experiment discussed and approved.

Action –Dr. Sanjeev Kumar & Dr. D.D. Yadav

Exp. No. 2- Performance of different varieties of cereals, pulses and oilseed (*rabi* season) in established crop cafeteria at SIF.

The experiment discussed and approved.

Action –Dr. Sanjeev Kumar & Dr. M.Z. Siddiqui

M.Sc./Ph.D. research of Students

Exp. No. 1- Effect of different irrigation frequencies in conjunction with bio-fertilizers on productivity of late sown wheat under limited water availability.

The experiment discussed and approved.

Action – Ph.D. Students of Dr. Sanjeev Kumar

Exp. No. 2- Study on effect of moisture conserving polymers and integrated nutrient management on productivity and water use efficiency in wheat under limited water availability.

The experiment discussed and approved.

Action – M.Sc. Students of Dr. Sanjeev Kumar

Exp. No. 3- Effect of moisture conservation practices, seed inoculation and application of zinc on productivity, profitability, quality and moisture use efficiency of Chick pea (*Cicer arietenum* L.).

The experiment discussed and approved.

Action – Ph.D. Students of Dr. Ram pyare

Exp. No. 4- Studies on evaluation of resource conservation practices for sustainability in yield of wheat (*Triticum aestivum* L.).

The experiment discussed and approved.

Action – Ph.D. Students of Dr. V.K.Verma

Exp. No. 5- Weed management practices on yield potential of wheat (*Triticum aestivum* L.) in central plain zone of U.P.

The experiment discussed and approved.

Action – Ph.D. Students of Dr. Naushad Khan

Exp. No. 6- Response of nutrient management in Citronella, Lemongrass & Palmarosa intercropping with Tomato.

The experiment discussed and approved.

Action – Ph.D. Students of Dr. A.K.Srivastava

****
****
***

At the end Head of Agronomy suggested following points:

- The entire scientist should be present during meeting that will help in learning new innovative ideas. **Action: All Scientist**
- Initial nutrient status of the soil should also be indicated with recommendation of the fertilizer doses. **Action: All Scientist**
- Scientist should do frequent visits to their site of experimentation for better monitoring of their experiment. **Action: All Scientist**
- Participatory research programme of Agronomists should be implemented **Action: All Scientist**

Meeting ended with vote of thanks proposed by the convenor of the meeting to Director (A.E.S), HoD Agronomy and Heads of various departments as well as all Teachers/Scientists from other departments/Schemes for active participation in fruitful discussion and suggestion during meeting.

(Sanjeev Kumar)
Head, Dept. of Agronomy

No. AGR-EN 679 /2021 04/02/21 of dated

Copy forwarded to the following for information and necessary action:

1. Director, Agril. Experiment Station.
2. Dean, College of Agriculture.
3. Director, Extension.
4. Concerned Scientist/Agronomist.
5. T. S. to V. C. for kind information to Hon'ble Vice – Chancellor.

(Sanjeev Kumar)
Head, Dept. of Agronomy

Proceeding of Research Advisory Committee Meeting for Rabi,2020-21 held on Nov. 25,2020 in committee room, Department of Crop Physiology.

A meeting of Research Advisory Committee was held on Nov.25,2020 at 11:00 AM to discuss and finalize the research Programme for Rabi,2020-21 in which following Scientists were participated in aforesaid meeting.

1. Dr. Karam Husain, Head, Department of Crop Physiology
2. Dr. Mohd. Sameem,Asstt. Director Research
3. Dr. Manoj Mishra, Asstt. Director Research
4. Dr. U.K.Tripathi, Head, Deptt. of Plant Pathology
5. Dr. M.Z. Siddiqui,Professor,Deptt. of Agronomy
6. Dr. U.D. Awasthi,Asstt. Professor,Deptt. of Soil Conservation
7. Dr. C.B. Verma, Asstt. Professor, Deptt. of Crop Physiology
8. Dr. S.P.Kushwaha, Asstt. Professor,Deptt. of Crop Physiology
9. Dr. M.A. Khan, Asstt. Professor, Deptt. of Crop Physiology
10. Dr. D.K.Tripathi, Asstt. Professor, Deptt. of Crop Physiology
11. Dr. O.P. Singh, Asstt. Professor,Deptt. of Crop Physiology
12. Dr. A.K. Diwedi, Asstt. Professor, Deptt. of Hoticulture
13. Dr. Nand Kumar, Asstt. Professor, Deptt. of Agril. Biochemistry
14. Dr. Geeta Rai,Asstt. Professor,Legume section
15. Parwej Alam, Asstt. Professor,Seed Science & Technology
16. Dr. S.B.Pandey, Asstt. Professor,Deptt. of Soil Science & Agri. Chemistry
17. Sri Arun Srivastava, Computer, Deptt. of Crop Physiology

At the outset the programme was started with the warm welcome of Head of the department Dr. Karam Husain to Assistant Director Research, all participating HOD's and scientist. He presented significant Achievements and priortity areas of research of the department. Dr. Sameem,ADR, discussed on compliance report of last year, Individual scientist presented his report. All the points were discussed in the house thoroughly. After discussion following recommendations were emerged out.

1.1 Approved

2.1 Approved. with the remark that date of harvesting should be mentioned and All observation should be recorded as per approved programme.

2.2 Approved. with the remark that date of harvesting should be mentioned and All observation should be recorded as per approved programme.

3.1 Concluded (Chickpea :-Experiment was conducted during three rabi season 2017-18, 2018-19 and 2019-20. In micro plot of the department. On the mean basis, application of 3.0kg/ha hydrogel+100ppm salicylic acid excelled all the treatment with 12.69g//plant yield but it was closely followed by 3.0 kg/ha hydrogel, 12.24 g/plant.

3.2 Approved with remark that the word rainfed should be replaced with limited irrigation in the title.

4.1 Approved

4.2 Approved

4.3 The meeting ended with the vote of thank expressed by Head of the department to all the participants for their active participation in the discussion during the course of RAC meeting and sparing time for such a academic as well as research activity.

(Karam Husain)
Head
Deptt.of Crop Physiology

No. C.P. 815 Dated: ~~Nov~~ 02-12-.2020

Copy to:-

1. Director, A.E.S.
2. Dean, College of Agriculture.
3. Technical secretary to Hon'ble Vice-Chancellor for information to Hon'ble Vice-Chancellor
4. All concerned HOD.

(Karam Husain)
Head
Deptt.of Crop Physiology

Directorate of Agricultural Experiment Station
Diary No. 2252 /DR/20
Date 25/11/2020
C.S. Azad University of Agriculture and Technology, Kanpur

Department of Entomology

C.S. Azad University of Agriculture & Technology, Kanpur-2

No.ENT- 322/2020-21 Dated: 18.11.2020

Proceeding of Research Advisory Committee of Rabi 2020-21 held on 28.10.2020 in the department of Entomology under the chairmanship of Director, AES.

The following faculty members were present in the meeting.

Sl. No.	Name	Designation	Department
1.	Dr. H.G. Prakash	Director (AES)	Directorate of Research
2.	Dr. D.R. Singh	HOD	Department of Entomology
3.	Dr. Mohd. Shamim	Asstt. Prof.	Directorate of Research
4.	Dr. Mahak Singh	HOD, GPB	GPB
5.	Dr. Y.P. Malik	Professor	Entomology
6.	Dr. A.S. Srivastava	Asstt. Professor	--do--
7.	Dr. Ram Singh Umrao	Asstt. Professor	--do--
8.	Dr. D.K. Singh	,,	Oil Seed
9.	Dr. R.K. Dwivedi	,,	Entomology
10.	Dr. R.K. Pal	,,	Vegetable Science
11.	Dr. S.P. Kushwaha	,,	Crop Physiology
12.	Dr. Fazal Ahmad	,,	Entomology
13.	Dr. R.K. Singh	,,	Deptt. of Horticulture
14.	Dr. A.K. Singh	,,	Entomology
15.	Dr. Anjani Kumar Singh	,,	Deptt. of Economics
16.	Dr. S.B. Pandey	,,	SAC
17.	Dr. U.K. Tripathi	HOD	Plant Pathology
18.	Dr. V.P. Bajpai	Asstt. Professor	SST
19.	Dr. Sanjeev Kumar	HOD	Agronomy

In the begning Prof. & Head Dr. D.R. Singh welcome the Director, AES and all the faculty members, representatives of different department. He elaborated the challenges faced by the farmers in present & also discussed the niche area of entomological discipline. He presented the significant achievement of previous Rabi trials year 2019-20. The proposed research programmes were presented by concerned scientists. The decisions were taken after thorough & critical discussions are mentioned as below-

Project No. 1- Presented by Dr. D.R. Singh & Approved as such.

Project No. 2- Presented by Dr. Y.P. Malik & Approved as such.

Project No. 3- Presented by Dr. Ram Singh Umrao & continued as such.

Project No. 4- Presented by Dr. R.K. Dwivedi & Approved as such and Dr. R.K. Pal is engaged as a collaborator.

Project No. 5- Presented by Dr. A.S. Srivastava. It was suggested that field rats & house rats must differentiate and elaborate separately.

Sri Manoj Mishra

18/11/2020

17.11.2020

Project No. 6- Presented by Dr. A.S. Srivastava & Approved as such.

Project No. 7- Presented by Dr. Fazal Ahmad & Approved as Such.

Project No. 8 & 9- Submitted by Dr. Sriddha Saxena. It was decided by committee that both the projects (Project no. 8 & 9) must be merged and species wise data must be made available.

Regarding technical programme of oilseed Entomology, project no. 1, 2 and 3 were approved as such, presented by Dr. D.K. Singh.

In project no. 4 it was suggested by Dr. Mahak Singh that a local check must be included, however local variety DRMR 1J-31 supplied by DMR Bharatpur is being used as a check.

Project no. 5 and 6 were approved as such.

Rabi research trials presented by Dr. R.K. Pal in project no. 1 it was suggested by Dr. Dharm Raj Singh, HOD Entomology/ Dean, college of Agriculture that the methodology of per cent leaf damage must be included. Another valuable suggestion was also given that the inclusion of the study of important insect pest of pea i.e. pea pod borer, E*tiella zinkenella*.

Other project nos. 2, 3 & 4 were approved as such.

Before presentation Director, AES gave few valuable suggestions which are need of the hour, viz-

1. While preparing reports, documentation must be showing as header/ footer.
2. For submitting new projects, emphasis must be given on economic viability & they must be farmers centric.
3. Projects on priorities are surveys & monitoring of insect pests of regional importance.
4. Priorities must lie on the study of secondary hosts also.

After presentation of research programme Dr. D.R. Singh Prof. & Head mentioned that most of the faculty members are engaged in teaching and they are devotedly by persuing research work & extension activities of the university at districts, blocks as well village levels.

The meeting ended with the vote of thanks by Dr. Ram Singh Umrao, Asstt. Prof. of the department.

CS

18/11/2020

Director
Agril. Experiment Station
C. S. A. Univ. of Agric. & Tech
KANPUR

17.11.2020

(Dharm Raj Singh)
Head
Deptt. of Entomology

Department of Genetics and Plant Breeding,
C.S. Azad University of Agriculture and Technology, Kanpur-208 002

No.: GPB- 832 /2020-21 Dated: November 27, 2020

1. Chief Cerealist, Rabi Cereal Section
2. Economic Botanist Legume Section
3. Economic Botanist Oilseed Section
4. Incharge, AICRP (Rapeseed Mustard)
5. Incharge, AICRP (Tobacco), Araul
6. Incharge, Forage
7. Concerned Crop Breeder through their Incharges (Rapeseed mustard Breeder, Linseed Breeder, Fieldpea/Chickpea Breeder, Lentil Breeder, Barley Breeder and Wheat Breeder)
8. All the teachers of the Department

Kindly find enclosed herewith the proceedings of Research Advisory Committee Meeting of *Rabi* 2020-21 held on November 02-03, 2020 for your information and further necessary action.

27/11/2020

(Mahak Singh)
Professor & Head

No.: GPB- 832 /2020-21 date as above.

27/11/20

Copy for the information to:

1. Dean, Faculty of Agriculture
2. Director, Agriculture Experiment Station.
3. Director, Extension
4. Director (Seed & Farms)
5. All the Heads/In charges of Departments
6. Dr. C.P. Sachan, Seed Production Officer
7. Incharge, Vegetable Section
8. TS to VC for kind information of Hon'ble Vice Chancellor

27/11/20

(Mahak Singh)
Professor & Head

27/11/20

Research Ad mmittee *Rabi* 2020
02-03/11/2020

The meeting was chaired by Dr. H.G. Prakash, Director Research. HoD welcomed all Heads , Teachers and Crop Concerned Breeders. The recommendation of this meetings are given below:

1. Wheat:

Research proramme was presented by Dr. Som Veer Singh

I. Experiment No. 1: Collection, maintenance of germplasm of wheat .
Recommendation : Approved

II. Experiment No. 2: Breeding of high yielding disease resistant varieties of wheat for different conditions.
Recommendation : Approved

III. Experiment No. 3: Breeding for salinity tolerant wheat varieties .
Recommendation : Approved

IV. Experiment No. 4: Breeding for short duration and heat tolerant wheat varieties .
Recommendation : Approved

V. Experiment No. 5: Breeding of wheat varieties for restricted irrigated timely sown (RI-TS) .
Recommendation : Approved

VI. Experiment No. 6: Station /Sectional varietal trials of wheat under timely sown irrigated condition (IR-TS) .
Recommendation : Approved

VII. Experiment No. 7: Station/Sectional varietal trials of wheat under late sown irrigated condition (IR-LS) .
Recommendation : Approved

VIII. Experiment No. 8: Station/Sectional varietal trial of wheat under restricted irrigated timely sown condition (RI-TS).
Recommendation : Approved

IX. Experiment No. 9: Production of Breeder and Nucleus seed .
Recommendation : Approved

X. Experiment No. 10: Seed production and New Entries multiplication .
Recommendation : Approved

XI. Experiment No.11: Evaluation and characterization of wheat mini core .
Recommendation : Approved

XII. Experiment No. 12: Breeding for wheat for terminal heat tolerance .
Recommendation : Approved

XIII. Experiment No. 13: Development of MAGIC lines in wheat .
Recommendation : Approved

XIV. Experiment No. 14: Breeding for Biofortification and salt tolerance .
Recommendation : Approved

2. Barley: Research programme was presented by Dr. P.K. Gupta

I. Experiment No. 1:Maintenance and, evaluation of barley germplsam under irrigated condition.
Recommendation: Approved.

II. Experiment No. 2:Breeding for rusts resistant barley varieties for timely sown irrigated conditions.
Recommendation: Approved.

III. Experiment No. 3:Breeding barley varieties for rainfed condition.
Recommendation: Approved.

IV. Experiment No. 4: Breeding for husk less barley variety.
Recommendation: Approved.

V. Experiment No. 5: Breeding for saline/alkaline soils.
Recommendation: Approved.

VI. Experiment No.6: Preliminary varietal Trial (Rainfed).
Recommendation: Approved.

VII. Experiment No. 7: Preliminary varietal trial (Irrigated).
Recommendation: Approved.

VIII. Experiment No. 8: Initial varietal trial rainfed co-ordinated.
Recommendation: Approved.

IX. Experiment No. 9: Initial varietal trial (Irrigated) co-ordinated.
Recommendation: Approved.

X. Experiment No. 10: Initial varietal trial Sal/Alk (IR) co-ordinated.
Recommendation: Approved.

Xi. Experiment No. 11: Initial varietal trial irrigated (Hulless) co-ordinated.
Recommendation: Approved.

XII. Experiment No. 12: Advance varietal trial (Irrigated) co-ordinates.
Recommendation: Approved.

3. Lentil: Research programme was presented by Dr.Manoj Katiyar

I. Experiment No. 1: Collection, evaluation and maintenance of germplsam.
Recommendation: Approved.

II. Experiment No. 2: Hybridization programme for high yielding (Small and Bold seeded) and disease resistance (Wilt and Rust) varieties in lentil.
Recommendation: Approved with suggest to limit the crosses.

III. Experiment No. 3: Preliminary varietal trials (PVT) for yield evaluation.
Recommendation: Approved .

IV. Experiment No.4: Station varietal trials (SVT-I) on small seeded types of lentil.
Recommendation: Approved .

V. Experiment No. 5: Station varietal traials (SVT-I) on bold seeded lentil.
Recommendation: Approved .

VI. Experiment No. 6: Production of nucleus and breeder seed of lentil variety.
Recommendation: Approved.

VII. Volunteer crop of All India Co-ordinated programme in MULLaRP research programme of lential.
All India Co-ordinated Varietal Trial on Lentil.
Recommendation: Approved.

4. Cihckpea: Research programme was presented by Dr.Manoj Katiyar.

I. Experiment No. 1: Collection, evaluation and maintenance of germplsam.
Recommendation: Approved.

II. Experiment No. 2: Hybridization proramme and study of segregating generation.
Recommendation: Approved.

III. Experiment No. 3: Initial yield evaluation trial of desi chickpea..
Recommendation: Approved.

IV. Experiment No. 4: Initial yield evaluation trial of chickpea Kabuli.

Recommendation: Approved.

V. Experiment No. 5:Station varietal trial-I of chickpea desi.
Recommendation: Approved.

VI. Experiment No. 6: Production of nucleus and breeder seed of chickpea variety.
Recommendation: Approved.

5. **Field pea**: Research programme was presented by Dr.Geeta Rai.

I. Experiment No. 1: Collection, evaluation and maintenance of germplsam.
Recommendation: Approved.

II. Experiment No. 2: Hybridization programme for high yielding, bold seed and disease resistant varieties in field pea (Tall & Dwarf).
Recommendation: Approved.

Iii. Experiment No. 3: Preliminary varietal trials (PVT) for yield evaluation.
Recommendation: Approved.

IV. Experiment No. 4: Station varietal trial on tall peas (SVT 1).
Recommendation: Approved.

V. Experiment No. 5: Station varietal trial on tall peal (SVT 2).
Recommendation: Approved.

VI. Experiment No. 6:Station varietal trial (SVT 1) on dwarf.
Recommendation: Approved.

VII. Experiment No. 7: Station varietal trial (SVT 2) on dwarf peas.
Recommendation: Approved.

VIII. Experiment No.8: Production of nucleus and breeder seed of field pea variety against indent.
Recommendation: Approved.

6. **Rapeseed-Mustard**: Research programme was presented by Dr.Mahak Singh.

a. Toria:

I. Project 1: Genetic resource management.
Recommendation: Approved.

II. Project 2: Breeding of toria varieties.
Recommendation: Approved.

III. Project 3: Nucleus/Breeder seed production of released varieties.
Recommendation: Approved.

b. Yellow Sarson:

IV. Project 4: Genetic Resource Management.
Recommendation: Approved.

V. Project 5: Breeding early maturing and high yielding varieties of yellow sarson.
Recommendation: Approved.

VI. Project 6: Nucleus /Breeding seed production of released variety.
Recommendation: Approved.

c. Indian mustard:

VII. Project 1: Genetic resource management.
Recommendation: Approved.

VIII. Project 2: Breeding mustard varieties for nomal/timely sown situation
Recommendation: Approved.

IX. Project 3: Hybridization programme.
Recommendation: Approved.

X. Project 4: Breeding for late sown situation.
Recommendation: Approved.

XI. Project 5: Breeding mustard varieties for quality .
Recommendation: Approved.

XII. Project 6: Evaluation of mustard hybrid.
Recommendation: Approved.

7. **Linseed**: Research programme was presented by Dr.Nalini Tiwari .

I. Experiment No. 1: Collection, maintenance and evaluation of linseed germplsam.
Recommendation: Approved.

II. Experiment No. 2: Breeding for high seed and fiber yield, disease and pest resistant genotypes.
Recommendation: Approved.

III. Experiment No. 3: Preliminary varietal trial (irrigated).
Recommendation: Approved.

IV. Experiment No. 1: Preliminary varietal trial (Rainfed).
Recommendation: Approved.

V. Experiment No. 5: Co-ordinated initial varietal trial (Rainfed).
Recommendation: Approved.

VI Experiment No. 6: Initial varietal trial (Irrigated).
Recommendation: Approved.

VII Experiment No. 7: Initial varietal trial (Flux).
Recommendation: Approved.

VIII Experiment No. 8: Co-ordinated Advanced varietal trial (Rainfed).
Recommendation: Approved.

IX Experiment No. 9: Advanced varietal trial (Irrigated).
Recommendation: Approved.

X. Experiment No. 10: Advanced varietal trial (Flux).
Recommendation: Approved.

XI Experiment No. 11: Production of breeder and nucleus seed.
Recommendation: Approved.

8. **Tobacco**: Research programme was presented by Dr.Arvind Srivastava.

I. Project 1: Genetic resource management.
Recommendation: Approved.

II. Project 2: Evaluation.
Recommendation: Approved.

9. **Forage**: Research programme was presented by Dr.H.C. Singh.

I. Project 1: Maintenance of diverse oat germplsam lines.
Recommendation: Approved.

II. Project 2: Hybridization programme.
Recommendation: Approved.

III. Project 3:Preliminary yield trial.
Recommendation: Approved.

IV. Project 4: Preliminary yield trial of oat under intercropping in maize.
Recommendation: Approved.

V. Project 5:Establishement of Golden Jubilee Forage Garden.
Recommendation: Approved.

Hon'ble Dean, College of Agriculture gave following suggestions:

1. All the varietal proposals must be present before University Varietal Release Committee before submitting the proposal in SVRC/CVRC.
2. All the breeders must explain the procedure of variety release in their crop concerned before university variety release committee.
3. All proposals must include data of insect pest complex duly recorded by entolmologist or disease data by pathologist.

Meeting was ended with vote of thanks given by HoD.

Prepared by

(S.K. Singh)
Asstt. Prof.

Approved

(Mahak Singh)
HoD
Professor & Head
Deptt. of Genetics & Plant Breeding
C.S.A.U., Kanpur

(H.G. Prakash)
Director, AES
Director
Agricultural Experiment Station
C.S. Azad Univ. of Agri & Tech.
Kanpur

Proceeding of the meeting of Research Advisory Committee
Rabi 2020-21
Department of Plant Pathology held on dated 13.10.2020

The following were present in the meeting:

1. Dr. H. G. Prakash, Director AES
2. Dr. U. K. Tripathi, HOD, Plant Pathology
3. Dr. Mahak Singh, HOD, GPB
4. Dr. Ved Ratan, Professor, Plant Pathology
5. Dr. A.L. Jatav, Professor, Seed Science & Technology
6. Dr. R. K. Duwivedi, Asstt. Prof., Entomology
7. Dr. S.D. Dubey, Asstt. Prof., Microbiology
8. Dr. S. B. Pal, Asstt. Prof., Directorate of Extension
9. Dr. S. K. Biswas, Professor, Plant Pathology
10. Dr. Narendra Singh, Professor, Plant Pathology
11. Dr. Rakesh Kumar Singh, Asstt. Prof., Agril. Economics & Statisitics
12. Dr. Sanjeev Yadav, Professor & Head, Agronomy
13. Dr. P. K. Singh, Professor & Officer Incharge Vegetable
14. Dr. M.R. Dabbas, Asstt. Prof., AICRIP (Potato)
15. Dr. A. K. Dubey, JDR & Officer In charge, Horticulture
16. Dr. J. B. Khan, Wheet Pathologist
17. Dr. S. N. Panday, Incharge Agromatrology
18. Dr. Nalini Tiwari, Asstt. Prof., AICRP Linseed
19. Dr. Manoj Mishra, Asstt. Director Reserch
20. Dr. Anjani Kumar Singh, Asstt. Prof., Statistics
21. Dr. Birendra Kumar, Asstt. Prof., Agriculture Economics

The meeting was started with the warm welcome of Chairman Dr. H.G. Prakash, Director AES, scientists of Plant Pathology department and other scientists of different departments by Head, Department of Plant Pathology. Director AES briefed the committee about the overall progress in research of the department during last year. Head of Department informed to the house that total 23 research projects (including Plan & non Plan) have been submitted by the scientists. Each programme was discussed thoroughly and decision/suggestions were taken as given below.

(A) Plant Pathology department (Non Plan):

Project No. 1	1. Comparative evaluation of different substrates for the production of Cyster mushroom (*Pleurotes* spp.). Approved
Project No. 2	2. Evaluation of new chemical and bio fungicides against *Fusarium oxysporum* f.sp. *ciceri* causing wilt of chickpea. Approved
Project No. 3	3. Effect of different botanicals (Extracts) as seed treatment against seed borne diseases of lentil. Approved
Project No. 4	4. Evaluation of linseed germplasm for major biotic stress (Alternaria Blight). Approved
Project No. 5	5. Validation trial of *Trichoderma* based bio-formulation against wilt disease of gram. Approved

All India Coordinated Project (Plan)

B. (i) Rabi Cereal Section (Total Experiment 8):

Wheat

Project No. 1	1. Plant Pathological Screening Nursery (PPSN). Approved
Project No. 2	2. Initial Plant Pathological Screening Nursery (IPPSN). Approved
Project No. 3	3. To monitor spread and incidence of diseases in "Wheat disease trap nursery" under natural conditions. Approved
Project No. 4	4. Crop health monitoring - Pre & Post harvest survey of wheat & barley crop. Approved
Project No. 5	5. Chemical control of wheat rust. Approved

Barley

Project No. 6	6. National Barley Diseases Screening Nursery (NBDSN). Approved
Project No. 7	7. Initial Barley Disease Nursery (IBDSN). Approved
Project No. 8	8. Elite Barley Disease Screening Nursery (EBDSN). Approved

(ii). Linseed (Total experiment-6):

Project No. 1	1. Survey of disease of linseed prevailing in the region. Approved

Project No. 2 **2.** Screening of germplasm against wilt and Alternaria blight disease of linseed. **Approved**

Project No. 3 **3.** Uniform disease nursery trial under natural condition (UDN). **Approved**

Project No. 4 **4.** Uniform disease nursery trial under natural artificial condition (UDNA) for advanced breeding lines. **Approved**

Project No. 5 **5.** Evaluation of promising entries/elite material under high inoculums pressure (ADNT). **Approved**

Project No. 6 **6.** Efficacy of plant defense inducers in the management of foliar disease in linseed. **Approved**

(iii). Potato (Total experiment-4):

Project No. 1 **1.** Monitoring of Late Blight and A2 mating type of *P. Infestans* in standing crop and tubers at harvest and after cold storage. **Approved**

Project No. 2 **2.** Surveillance of important Potato disease in the region (Pest capture plots). **Approved**

Project No. 3 **3.** Scheduling of fungicide application for the management of late blight. **Approved**

Project No. 4 **4.** Management of common scab in Potato. **Approved**

Project No. 5 **5.** Integrated Disease Management of Common Scab of Potato.

Recommendations: "Management of powdery mildew of Pea caused by *Erysiphae polygoni*." project concluded. On the basis of three years data it was concluded that spraying of water solution of Tridemorph (Calixin) 0.1% and Sulphax 0.3% were found most effective in minimizing the disease intensity of Powdery mildew of pea and gave higher yield also.

Director, AES suggested that each and every page of the proceeding should consist of a footer note mentioning its particular season & year.

The meeting ended with vote of thanks.

31.10.2020

(U.K. Tripathi)
Head
Plant Pathology

(H.G. Prakash)
Director
Agriculture Experiment Station
Director
Agricultural Experiment Station
C.S. Azad Univ. of Agri & Tech
Kanpur

Head
Deptt. of Plant Pathology
C S U & Tech. Kanpur

PROCEEDINGS OF RAC MEETING HELD ON 14-12-2020 FOR RABI, 2020-21
DEPARTMENT OF SOIL CONSERVATION AND WATER MANAGEMENT

A meeting was held on 14-12-2020 to finalize the research programme of Rabi 2020-21 Following ıtists/teachers were present:

.No.	Name	Designation
1.	Dr. Manoj Mishra	Asstt. Director, AES
2.	Dr. Munish Kumar	Professor, SCWM
3.	Dr. Sarvesh Kumar	Professor, SCWM
4.	Dr. Kaushal Kumar	Professor, SCWM
5.	Dr. U.D. Awasthi	Assistant Professor, SCWM
6.	Dr. A.K. Katiyar	Assistant Professor, SCWM
7.	Dr. Ravindra Kumar	Professor & Head, SAC
8.	Dr. O.P. Singh	Assistant Professor, Crop Physiology
9.	Dr. Rakesh Kumar Singh	Assistant Professor, Agril. Economics
10.	Dr. A.K. Sachan	Professor, SAC
11.	Dr. Sanjeev Kumar	Head of Agronomy
12.	Dr. S.B. Pandey	Pesticide Chemist, SAC

After warm welcome by Dr. Munish Kumar, Professor Soil Conservation to all participants in the meeting. achievements and compliance report was presented for various research programmes. During meeting, projects re presented one by one by relevant teachers given as under:

oject No. 1: Impact of hydrogel and Biofertilizer on growth and yield of linseed (*Linum usitatissimum)* under rainfed condition.

A new experiment proposed by Dr. R.P. Singh for Ph.D. scholar. Experiment presented by Dr. U.D. Awasthi and allowed to conduct with suggestion that MCP should be in-situ.

oject No. 2: Effect of micro-nutrient on growth and yield of linseed under limited water supply.

Last year M.Sc.(Ag.) trial presented by Dr. U.D. Awasthi and allowed to continue for confirmation of findings for the M.Sc.(Ag.) students.

oject No. 3: Lentil (*Lens esculenta* L.) based intercropping system as influenced by integrated nutrient management under rainfed condition

Dr. Munish Kumar proposed a new experiment for Ph.D. scholar and presented before house. It is suggested by house that give details of soil studies and allow to conduct in rabi 2020-21

oject No. 4: Barley-based Intercropping System for Productivity and Net Economic Return under rainfed condition

A new experiment presented by Dr. Munish Kumar for M.Sc.(Ag.) student. After discussion it is suggested that add observation of climatic factor i.e. temperature and humidity

oject No. 5: "Studies on chickpea (*Cicer arietinum* L.) based intercropping system under moisture stress condition"

Last year Ph.D. trial presented by Dr. Munish Kumar and house allowed to continue in rabi 2020-21.

No. 5: "Studies on chickpea (*Cicer arietinum* L.) based intercropping system under moisture stress condition"
Last year Ph.D. trial presented by Dr. Munish Kumar and house allowed to continue in rabi 2020-21.

ject No. 6: Effect of moisture conservation practices on growth, yield and barley Varieties under rainfed condition.
A new experiment for M.Sc.(Ag.) student presented by Dr. A.K. Katiyar. After discussion it is suggested that moisture conservation practices treatment M-2 should be as. Dust much created by khurpi..

ject No. 7: "Effect of transplanting time & irrigation scheduling on mentha Production and water saving".
Last year M.Sc.(Ag.) trial presented by Dr. Sarvesh Kumar and allowed to continue in rabi 2020-21.

ject No. 8: "Production potential of barley (Hordeum vulgare L.) varieties at varying fertility levels and date of sowing under moisture stress condition"
Last year Ph.D. trial presented by Dr. U.D. Awasthi and house allowed to continue in rabi 2020-21.

ject No. 9: Effect of life saving irrigation taming on production of rainfed wheat.
A new experiment planned for M.Sc.(Ag.) student by Dr. R.P. and presented by Dr. U.D. Awasthi. After discussion committee suggested that delete treatment No.-1 and add a new Hydrogel+ one irrigation

ject No. 10: "Studies on preparatory tillage, moisture conservation practices and nutrient management in barley cultivation under water stress condition"
Last year Ph.D. trial presented by Dr. Sarvesh Kumar and after discussion as well as experimentation of two year considered for concluded.

The meeting was ended with vote of thanks and concluding remarks by Dr. Sarvesh Kumar Professor of this department.

Head of Department

Department of Soil Conservation and Water Management
C.S. Azad University of Agriculture & Technology, Kanpur-208002

759 /SCWM/2020-21 Dated: 30/12 .2020

py forwarded for information & necessary action to:

Dean, Faculty of Agriculture, CSAU, Kanpur
Director, Agricultural Experiment Station, CSAU, Kanpur
Professor & Heads(s)/In -charge (s) of the Department – Agronomy, Soil Sci. & Agril. Chemistry, Plant Pathology, Entomology, Crop Physiology and Agril. Economics & Statistics
All Teachers/Scientists of the Department
T.S. to V.C. for kind information of Hon'ble Vice-Chancellor.

Head of Department

2020-2020

Proceedings of RAC Meeting of Rabi 2020-21 held on 23.10.2020
Deptt. of Soil Science & Agricultural Chemistry

The Rabi research advisory committee meeting of Department of Soil Science and Agricultural Chemistry was held on **23.10.2020** under the Chairmanship of Dr. H.G. Prakash, Director Research of the University. The following faculty members were present in the meeting.

1- Dr. H.G. Prakash, Director Research
2- Dr. Ravindra Kumar , Head, Soil Science & Agril.Chem.
3- Dr. Sanjeev Yadav, HOD, Agronomy
4- Dr. Ved Ratan, Professor, Plant Pathology
5- Dr. A.K. Dubey, HOD, Hortculture
6- Dr. Anil Kumar, Professor, Deptt. Of Soil Science & Agril. Chemistry
7- Dr. Manoj Mishra, Asstt. Director, Research
8- Dr. Parwez Alam,Asstt. Prof. ,
9- Dr. Nand Kumar, Asstt. Prof. Agril. Bio chemistry
10- Dr. S.B. Pandey, Asstt. Prof. Deptt. Of Soil Science & Agril. Chemistry
11- Dr. Sushil Dimree, Asstt. Prof. Deptt. Of Soil Science & Agril. Chemistry
12- Dr. R.K. Pathak, Asstt. Prof. Deptt. Of Soil Science & Agril. Chemistry
13- Dr. S.D. Dubey, Asstt. Prof. Deptt. Of Soil Science & Agril. Chemistry
14- Dr. Devendra Singh Asstt. Prof. Deptt. Of Soil Science & Agril. Chemistry
15- Sri K.N. Singh Asstt. Prof. Deptt. Of Soil Science & Agril. Chemistry
16- Sri Vinod Kumar, Asstt. Prof., Deptt. Of Soil Science & Agril. Chemistry
17- Dr. Anjani Kumar Singh, Asstt. Prof., AES
18- Dr. Birendra Kumar, Asstt. Prof., AES
19- Dr. Arvind Srivastava, Breader, Pigeonpea Legume Section .
20- Dr. Anil Kumar Singh, Asstt. Prof., Crop Physiology

Dr. Ravindra Kumar, Head of Deptt. welcome to all members. Dr. S.D. Dubey, Asstt. Prof. presented salient achievement of different programme conducted during Rabi-2019-20. HOD highlighted about different programme and activities going on in the Deptt. like Soil Testing, Quality Testing of Pesticide and Fertilizer, etc., Bio fertilizer production, Adhoc project of micronutrient AINP on pesticides residues and Adhoc Project of IFFCO Chair Programme. During discussion, Director Research has suggested for incorporation of research achievement in extension activities for the benefit of farmers. Director research also informed that any publication with high NAAS rating of work done under approval of Research Advisory Committee, the cost will meet out by the University after proper assessment of Head of department and Director Research . The scientist will encourage through providing award by the University for his significant achievement in research/resource generation. The HOD agreed upon Director Research suggestion .

The detail programme are Rabi-2020-21 has been discussed and suggestion were welcomed . After thought full discussion the following programme were formulated:

Quality testing of Pesticides, Fertilizers, Manures and allied products .

The project were presented by Dr. S.B. Pandey and after discussion all three projects were approved as such. Director Research suggested to upload to rate list of testing fee of analysis at University Website

Soil Testing Scheme:

Sri K.N. Singh presented experiments of soil testing scheme. All Projects were approved as such.

Soil Fertility and Soil Survey:

Dr. Devendra Singh presented experiments of Soil Fertility and Soil Survey. After then gratefull discussion the Experiments of Soil fertility and soil survey approved by the house .

Microbiology:

Project No. 1 , 2 and 3 presented by Dr. S.D. Dubey and approved by the house without any modification. RAC suggested that the rate list of culture to be uploaded at the University Website.

AINP on Pesticide Residues:

Dr. S.D. Dubey, Asstt. Prof. presented the experiments of the project and approved by the house.

Adhoc project IFFCO Chair

Dr. Devendra Singh presented the experiments related to IFFCO Chair. All experiments of IFFCO Chair approved as such by the house.

The experiment on screening of rice –wheat genotypes in sodic soil , Approved.

AICRP of Micro and secondary nutrients and pollutants elements in soil and plants.

Dr. Anil Kumar presented the experiments and after discussion house approved all five experiments for its executions.

At the end of meeting Dr. Anil Kumar proposed vote of thanks to Director Research , Head of Department and Scientists gathered from inside and out side of the Department.

(Ravindra Kumar)
Head of Department

Department of Soil Science & Agricultural Chemistry
C.S.Azad University of Agri. & Technology, Kanpur-2

No. 666 /2020

Dated: 17 -12-2020

Copy forwarded for information and necessary action:

1. Dean, College of Agriculture.
2. Director, Agriculture Experiment Station.
3. All Professor & Head of the department.
4. Concerned Scientist of the department.

(Ravindra Kumar)
Head of Department

Proceedings of the Research Advisory Committee of Department of Vegetable Science, Kalyanpur, for the rabi 2020-21.

Venue - Conference room
Date - 22.10.2020

Chairman - Dr. H.G. Prakash
Co-chairman - Dr. P.K. Singh
Rapporteur - Dr. S.K. Singh

At the outset Dr. P.K. Singh, Prof. & Sectional Head, Department of Vegetable Science welcomed Dr. H.G. Prakash, Director, AES, Joint Director Research, Dean College of Agriculture Lakhimpur Kheri, Prof. and Heads of the department of Genetics & Plant Breeding and Plant Pathology and all the distinguished participants. Prof. & Sectional Head, Department of Vegetable Science briefed about the current scenario of vegetable research and asked Dr. Sanjive Kumar Singh, Assistant Professor to present Action Taken Report of last year's research programme. Afterwards, Dr. P.K. Singh invited Dr. H.G. Prakash, Director, AES to chair the session and initiate the proceeding.

The Chairman in his opening remarks suggested that for each vegetable crop important priority area must be decided by the breeder, production and protection scientists. Keeping in view, the visit of peer review team for the accreditation of the university Director, AES advocated and emphasized that all the research documents e.g. research programme, reports and proceedings should be prepared nicely. He also advised that all the equipments available in the section must be placed properly in laboratory.

Dr. P.K. Singh apprised the house that for post graduate students, available laboratory facility is not up to mark and it needs strengthening and renovations and requested Director, AES for financial support.

Chairman invited all the concerned scientists to present their research programme for year 2020-21. After indepth discussion and deliberations following suggestions were made to improve the quality of experimentation and the research outcome.

- In project No. 3 it was suggested that table pea entries KS-107 and KS-108 need to be nominated for evaluation in AICRP (VC) trials.
  (Action - Dr. K. P. Singh)
- In project No. 4 plot size should be mentioned and one susceptible check be included in the trial.
  (Action - Dr. K. P. Singh)
- In project No. 4 house suggested to record observations on disease and pest incidence.
  (Action - Dr. M.R. Dabbas and Dr. R.K. Pal)
- In project No. 8 the name of the donors and agronomic bases selected for making hybridizations programme in fenugreek should be mentioned.
- An experiment on germplasm evaluation and characterization of sponge gourd germplasm will be formulated and conducted during zaid 2020-21.
  (Action - Dr. I.N. Shukla)

The meeting ended with vote of thanks to the chair proposed by the Dr. M.R. Dabbas, Plant Pathologist.

Approved

29/10/2020

Director
Agricultural Experiment Station
C.S. Azad Univ. of Agri & Tech.
Kanpur

22.10.2020

Dr. P. K. Singh
Professor/Sectional Head
Vegetable Science
C.S.A. Univ. of Agri. & Tech. Kanpur