

**Proceedings of the 5<sup>th</sup> Meeting of Research Council of Agriculture  
University, Kota held on 28<sup>th</sup> May, 2024 at Conference Hall, Agriculture  
University, Kota.**

The Fifth Meeting of Research Council of Agriculture University, Kota was held on 28<sup>th</sup> May, 2024 in the Conference Hall of Agriculture University, Kota and following members and invitees were present:

1	Dr. A.K. Vyas	Hon'ble Vice-Chancellor, AU, Kota	<b>Chairman</b>
2	Dr. A.K. Mishra	Former PC, AICRP on Subtropical Fruits and Head, Division of Crop Protection, CISH, Lucknow	Eminent Expert
3	Dr. Sunil Kumar	Director, ICAR-IIFSR, Modipuram, Meerut	Eminent Expert
4	Dr. Ramavtar Sharma	Principal Scientist, Genetics, CAZRI, Jodhpur	Co-opt member
5	Dr. A.A. Murkute	Principal Scientist, ICAR-CCRI, Nagpur, Maharashtra	Co-opt member
6	Dr. Shakir Ali	Head, ICAR-IISWC, Research Centre, Kota	Co-opt member
7	Sh. A.K. Sharma	Addl. Director (Agriculture), Kota Division	Member
8	Dr. I.B. Maurya	Dean & Head, Deptt. of Vegetable Science, CH&F, Jhalawar	Member
9	Dr. M.C. Jain	Dean & Head, Deptt. of Horticulture, College of Agriculture, Kota	Member
10	Dr. Jitendra Singh	Director Students Welfare & Head, Deptt. of Fruit Science, CH&F, Jhalawar	Member
11	Dr. S.K. Jain	Director Ext. Edu., AU, Kota & Head, Deptt. of Postharvest Technology, CH&F, Jhalawar	Member
12	Dr. Ashutosh Mishra	Director Education, AU, Kota & Head, Deptt. of Floriculture & Landscaping, CH&F, Jhalawar	Member
13	Dr. M.C. Goyal	Director, PME & PRO, AU, Kota	Member
14	Dr. Mahendra Singh	Director HRD, AU, Kota	Member
15	Dr. N.L. Meena	Dean, College of Agriculture, Hindoli	Member
16	Dr. N.R. Koli	Additional Director (Seed & Farms), AU, Kota	Member
17	Dr. Preeti Verma	Assoc. Prof. & Head, Deptt. of Genetics & Plant Breeding, COA, Kota	Member
18	Dr. B.S. Meena	Assoc. Prof. & Head, Deptt. of Agronomy, COA, Kota	Member
19	Dr. K.C. Meena	Assoc. Prof. & Head, Deptt. of Ext. Edu. & Communication, COA, Kota	Member
20	Dr. M.K. Sharma	Assoc. Prof. & Head, Deptt. of Soil Science & Agri. Chem., COA, Kota	Member
21	Dr. C.B. Meena	Assoc. Prof. & Head, Deptt. of Plant Pathology, COA, Kota	Member
22	Dr. B.K. Patidar	Assoc. Prof. & Head Deptt. of Entomology, COA, Kota	Member



23	Smt. Sunita Daga	Registrar, AU, Kota	Invitee
24	Sh. Ramdhan Raigar	Comptroller, AU, Kota	Invitee
25	Dr. Arjun Kr. Verma,	O/I MAF, Kota	Invitee
26	Sh. Pradeep Kumar	Asstt. Prof. (Agronomy), O/I, ARSS, Aklera	Invitee
27	Dr. R.S. Naroliya	Farm Incharge, Sultanpur Farm (Acting)	Invitee
28	Dr. B.L. Dhaka,	Nodal Officer Zone III B (SS&H, KVK, Sawai Madhopur)	Invitee
29	Dr. K.M. Sharma	Tech. Cell I/c, ARS, Kota	Invitee
30	Dr. Ramraj Meena	Assoc. Prof., ARS, Kota	Invitee
31	Dr. Chaman K. Jadon	Asstt. Prof. DOR, AU, Kota & P.I., MIDH	Invitee
32	Dr. R. K. Yadav	Asstt. Prof. ARS, Kota	Invitee
33	Dr. Pratap Singh	Director Research, AU, Kota	<b>Member Secretary</b>

At the outset Dr. Pratap Singh, Director Research and Member Secretary welcomed Chairman, distinguished experts, co-opt members and all members of the Research Council. He briefed the house about significant achievements of the University and objectives of the research council. Thereafter, with the permission of the Chair following agenda items were presented :

<b>AUK/RC-5/2024/1</b>	<b>Confirmation of the proceedings of the 4<sup>th</sup> Research Council meeting held on 24.02.2021</b>
<b>Resolution</b>	The proceedings of 4 <sup>th</sup> meeting of Research Council held on 24.02.2021 were presented for confirmation by the house. Since, no any remark/ observation has been received so far, it was resolved to confirm the proceedings of 4 <sup>th</sup> meeting of Research Council.
<b>AUK/RC-5/2024/2</b>	<b>Action Taken Report on the proceedings of the 4<sup>th</sup> meeting of Research Council</b>
<b>Resolution</b>	The action taken report on the proceedings of the 4 <sup>th</sup> meeting of Research Council held on 24.02,2021 was presented, which was unanimously accepted and approved by the council.
<b>AUK/RC-5/2024/3</b>	<b>Review of research work (Crop, Horticulture &amp; Forestry) (Jan. 2021 to March, 2024)</b>

Dr. Singh informed the house that presently 14 regular AICRPs and 06 voluntary AICRPs centres, 01 MIDH (seed spices- coriander, garlic etc.), 01 Neonicotinoid project, 13 RKVY projects (9 ongoing + 4 New), 01 ICRISAT project on pigeonpea (2023), 01 NBB Project, 01 NABARD Project on *Trichoderma* popularization & trainings (2023), 01 Seed project, 01 Oilseed hub (Soybean) and 82 Sponsored projects are functional at different centres/units.

#### **(A) Review of research work (Crop Research)**

Dr. Pratap Singh, Director Research, and Member Secretary of the Council presented the progress of research programs (Field crops) from Jan. 2021 - March 2024.

The salient accomplishments are enlisted below: -

- Twelve varieties of different crops developed and identified/released by CVRC/SVRC viz., Kota Urd 4, Kota Urd 5, Kota Urd 6 of Urdbean; Kota Alsi 6, Kota Baran Alsi 6 of linseed; Kota Masoor 4, Kota Masoor 6 of lentil; and Kota



Kabuli Chana 2, Kota Kabuli Chana 3, Kota Kabuli Chana 4, Kota Desi Chana 2, Kota Desi Chana 3 of chickpea during the reporting period.

- Twenty eight new varieties of different crops were also recommended for the zone V through ZREAC.
- Seventy two production technologies developed and recommended for the zone V during 2021-2024 (crop improvement: 25, crop production: 31, crop protection: 16).
- During Jan. 2021 - March 2024, seed production farms under various research units & produced 43886 q seeds of various categories of different *kharif* and *rabi* crops.
- Agricultural Research Station organised & conducted 859 front line demonstrations on farmers' field on new varieties and production technologies of various crops for enhancing the field crops productivity in comparison to farmers' practices. This station organized 20 field days programmes with 639 farmer's participation.
- One training was organized on '**Broad Bed Furrow in Soybean**' on 30<sup>th</sup> Nov. to 01<sup>st</sup> Dec., 2022 by eminent expert Dr. D.V. Singh, Ag. Engg., IISR, Indore.
- Training on '**Biomass management and its utilization**' were conducted at AU, Kota (3-4 Feb.2023) and at IARI New Delhi (14-15 June 2023) in which eminent expert Dr. Shiv Dhar Mishra, PS-Agronomy, IARI, New Delhi interacted with the scientists and farm Managers and shared his experience.
- University made provision of cash award of Rs. 10,000/- to 20,000/- and appreciation certificate for bringing externally funded project costing more than Rs. 50 Lakh as an incentive and provided cash award of Rs. 7,000-10,000 to the first author for publishing research paper in journals having NAAS rating of 7 and above.
- AU, Kota has done MOU with MPUAT, Udaipur, IMD New Delhi, ICRISAT Hyderabad, Dhanuka Agritech Pvt. Limited New Delhi, ICAR-NBPGR New Delhi, ICAR-NRCSS Ajmer, SR-OFRTC Kota, ICAR-IASRI New Delhi, Dr. YSPUH&F, Nauni-Solan, Jagannath University Jaipur and MGUVV Sankara Drug Chhatisgarh.

#### (B) Review of research work (Horticulture Crops)

Dr. I.B. Maurya, Dean, CH&F, Jhalawar presented the progress of research programs (Horticultural crops) from Jan. 2021 - March 2024.

He informed that a total number of 7 on going/ completed research projects handled out of which 03 AICRP (AZF, potato, seed spices), 2 RKVY projects, 2 Private/Sponsored projects and 1 NAHEP-IG (2018-2022).

The salient accomplishments are enlisted below: -

- AUK jurisdiction area contributes 43% in fruits and 15.74 % in spice area in the state.
- Jhalawar- Max. area under mandarin (23900 ha, 99%).
- Sawai Madhopur- Max. area in guava (9742 ha, 76%).
- Baran- 1<sup>st</sup> in area & production in Garlic (20452 ha, 42 %) AUK-80 %.
- Jhalawar-1<sup>st</sup> in area & production in coriander (54230 ha, 62%) AUK-93%
- Thirty horticultural technologies developed and recommended for the zone V during 2021-2024 (crop improvement: 06, crop production: 11 and crop protection: 13)
- Presented the outcome of student research (M.Sc./ Ph.D.) on Mandarin, Mosambi, Citrus, Pomegranate, Jamun, Custard Apple, Protected cultivation and Hydroponics, Chrysanthemum, gladiolus and Marigold.
- The year wise production of planting materials is 2 to 4 lakh / year.



- Area increased under protected cultivation from nil in 2010 to 70-75 ha in 2024 in Hadauti region along with socio- economic development of farmers with a net income of Rs. 20-30 L/ha per annum.
- Popularization of strawberry ( Var. Winter Dawn) cultivation in the region.

**(C) Review of research work (Forestry Crops)**

On behalf of Dr. S.B.S. Pandey, Dr. I.B. Maurya, Dean, CH&F, Jhalawar progress of research programs ( Forestry crops) from Jan. 2021 - March 2024.

- He informed that there is immense potential of developing Mandrin based Agroforestry systems, in Hadauti region. The potential forest species for the region are Dhok, Shisham, Karanj, Tendu, Kaith, Gurjan, Rohini, Lakshmi Taru, Teak and Chironji
- He informed regarding Research work on forest products, gum exudation from *Acacia senegal*, conservation and management of Wildlife, etc.

**(D) Review of Seed Production Program**

Dr. N.R. Koli, Additional Director (Seed & Farms) presented the land utilization pattern and overall seed production scenario (year/season wise, centre wise, crop wise) of the AU, Kota. He informed that during the year 2021-22 to 2023-2024, total seed production (breeder, TL & other) from different units of the university was 43886 q with 10765 q BS.

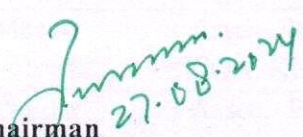
<b>AUK/RC-5/2024/5</b>	<b>To approve the dissertation fee for student others than the Agriculture University, Kota</b>
<b>Resolution</b>	The proposal regarding “dissertation fee for the students other than Agriculture University, Kota ” was discussed and finally resolved and approved by the house that the dissertation work fees for three months Rs. 15000/- and for six months Rs. 25000/- is proposed for the students other than the university on pathological aspects under Bio pesticide unit (Trichoderma Lab) at ARS, Kota. The matter is to be put up in the forthcoming meeting of the finance committee of the University. <b>(Action: ZDR/DR)</b>
<b>AUK/ RC-5/ 2024/6 (Reporting item)</b>	<b>ZREAC recommendations for information of Research Council.</b>
<b>Resolution</b>	Confirmed
<b>AUK/ RC-5/ 2024/7 (Reporting item)</b>	<b>Ongoing &amp; New Projects under RKVY (Jan. 2021 to March 2024) for the information of the council.</b>
<b>Resolution</b>	The house expressed satisfaction on the ongoing/ new projects under RKVY.
<b>AUK/ RC-5/ 2024/8 (Reporting item)</b>	<b>Adhoc and sponsored Projects (Jan. 2021 to March 2024) for the information of the council.</b>
<b>Resolution</b>	The house expressed satisfaction on the Adhoc and sponsored Projects (Jan. 2021 to March 2024).

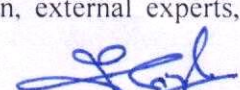


After the presentations of all the agenda items, the Chairman of the council invited the suggestions from eminent experts and all the members of the council for further strengthening the research program of the University and following decisions were taken.

S.No.	Decisions	Action
1.	Efforts shall be made to undertake the research on crop diversification, especially HDPS of fruit crops like guava, fig, jackfruit, aonla, bael etc. and for this MoU may be done with ICAR- CISH, Lucknow, ANDUAT, Ayodhya.	DoR/ Dean, CH&F/ DPME
2.	Research on novel technologies viz. shading of plants for cutting direct solar radiation, water and nutrient balancing, hydroponics, polyembryonic seed production, mutagenesis, etc. shall be undertaken.	DR/ ZDR
3.	Research on crop diversification under protected cultivation shall be undertaken.	Dean, CH&F
4.	Work on processing and marketing of strawberry should be done for sustainable strawberry cultivation in the region	Dean, CH&F
5.	Possibilities shall be explored to work on conservation of green water, subsoiling to break hard pan, BBF technique for crop raising, carbon sequestration and use of conservation furrow technique. These technologies shall also be transferred to farmer's fields after validation.	DR/ ZDR
6.	Focus shall be given on research on integrated crop management practices and resource conservation technologies.	DR/ZDR
7.	Research work on use of AI/ ML in Agriculture shall be initiated.	DR/ ZDR
8.	Impact assessment of research technologies should be carried out through external agency.	DPM&E
9.	Research programs shall be planned as per farmer's feedback problems.	DR/ZDR
10.	Enhancement of breeder seed production of kharif crops particularly soybean & urdbean to fulfill the DAC indent.	ADR (Seed)
11.	Efforts shall be made to enhance breeder seed production and popularization of newly released varieties of AU, Kota.	ADR (Seed)
12.	A training program on 'How to prepare a winning project' shall be organized for scientists of the University.	DHRD
13.	Scientists should be given incentive for paying publication charges in journals with NAAS rating above 12 and the pattern of ICAR may be adopted. For this a committee may be constituted to recommend the modalities.	HRD/DR/ Comptroller
14.	A document on "Major research accomplishments during last one decade" shall be prepared.	DR
15.	The meeting of the Research council shall be organized annually.	DR

The meeting ended with vote of thanks to the chairman, external experts, special invitees and all members.

  
Chairman  
Research Council

  
Director Research &  
Member Secretary, Research Council