

Proceedings of Fourth Meeting of Research Council of Agriculture University, Kota

Proceedings of the 4th Meeting of Research Council of Agriculture University, Kota held on 24th Feb, 2021 at ATMQIC conference Hall, Agriculture University, Kota.

The Fourth Meeting of Research Council of Agriculture University, Kota was held on 24th Feb, 2021 at Agriculture University, Kota and following members and invitees were present:

S. No.	Name	Designation
1.	Prof. D.C. Joshi	Hon'ble Vice-Chancellor, AU, Kota and Chairman
2.	Prof. D.K. Yadav	Expert Invitee; ADG (Seed), ICAR, New Delhi (online)
3.	Dr. Pratap Singh	Director Research, AU, Kota
4.	Dr. Ramavtar Sharma	Jt. Director (Agriculture/Horticulture), Kota Division
5.	Dr. Ashok Kumar	Head, ICAR-IISWC, Dadwada, Kota
6.	Dr. S.K. Jain	Director Extension Education, AU, Kota/Prof.& Head, Dept. of Postharvest Technology, CH&F, Jhalawar
7.	Dr. M.C. Goyal	Director, PME, AU, Kota
8.	Dr. (Mrs.) Mamta Tiwari	Director HRD, AU, Kota
9.	Dr. M.C. Jain	Dean /Prof.& Head, Dept. of Horticulture, COA, Kota
10.	Dr. I.B. Maurya	Dean & Head, Dept. of Vegetable Science, CH&F, Jhalawar
11.	Dr. Ashutosh Mishra	Director Education, AU, Kota & Head, Dept. of Floriculture & landscaping, CH&F, Jhalawar
12.	Dr. Jitendra Singh	Director Students Welfare & Head, Dept. of Fruit Science, CH&F, Jhalawar
13.	Dr. J.M. Dhakar	Addl. Director (Seed & Farms), AU, Kota & O/I MAF, Kota
14.	Dr. N.L. Meena	Zonal Director Research, ARS, Kota
15.	Dr. L.K. Dashora	ICAR-Emirateus Prof.
16.	Dr. Baldev Ram	Assoc. Prof. & Head, Dept. of Agronomy, COA, Kota
17.	Dr. S.C. Sharma	Assoc. Prof. & Head, Dept. of Gen. & Pl. Breeding, COA, Kota
18.	Dr. K.M. Gautam	Technical Advisor, HVC, AU, Kota (Special invitee)
19.	Dr. Mahendra Singh	Sr. Scientist & Head, KVK, Kota (Co-opted member)
20.	Dr. B.L. Meena	Nodal Officer Zone IIIB and Sr. Scientist & Head, KVK, Sawai Madhopur (Special invitee)
21.	Er. I.N. Mathur	Nodal Officer Website, AU, Kota
22.	Dr. S.L. Yadav	O/I, ARSS, Khanpur, (Special invitee)
23.	Dr. H.P. Meena	Farm Incharge, Sultanpur Farm, Kota (Special invitee)
24.	Dr. Chaman Jadon	Asstt. Dir. Res., AU, Kota (Special invitee)
25.	Dr. D.L. Yadav	Asstt. Prof., DOR, AU, Kota (Special invitee)
26.	Dr. Rajendra Kr. Yadav	Asstt. Prof., DOR, AU, Kota (Special invitee)

At the outset, Dr. Pratap Singh, Director Research, AU, Kota and Member Secretary of Research Council welcomed Prof. D.C. Joshi Hon'ble Vice-Chancellor & Chairman of Research Council, Dr. D.K. Yadav, ADG (Seed), ICAR, New Delhi, distinguished invitees and members of the Research Council.

In his opening remarks, the Hon'ble Vice-Chancellor Prof. D.C. Joshi said that most of the research of the university is only through AICRPs, which are working well and developed 11 new varieties. The university is also doing well in seed production aspect with

average annual production of about 14000 qt seed of different crops. However, there are great challenges ahead to sustain and improve the research outcome. Scientist are required to focus on newer techniques of experimentation and data analysis. HVC suggested that in addition to programme of AICRPs region specific research projects be formulated. Prof. Joshi also suggested to take up collaborative research projects with other universities, ICAR institutes, industry and other agencies. If required, appropriate MoUs be signed.

The eminent expert, Dr. D.K. Yadav, ADG (Seed), ICAR, New Delhi emphasized on the following points and suggested that:

- In short time, the university has done tremendous work by releasing 11 varieties and congratulate the entire team of research.
- Dr Yadav, told that AU, Kota has done a appreciated work on pulses by breeding higher yielding new varieties. But still, there is requirement of good varieties in cereals and oilseed crops especially soybean.
- He also focused on soil health issues. There is requirement of crop diversification and replacement of Rice/Soybean cropping pattern.
- Soybean crop production issue can be solved by raised-bed furrow system, developing short duration variety and high yielding varieties.
- Dr. Yadav also discussed about climate change issues and suggested that a contingency plan should be ready for this. Heat & drought tolerance varieties in summer, also to be developed and included.
- Integrated farming system is better option for enhancing income of farmers. In place of one hectare, one acre models also may be developed for small holding farmers.
- Protected cultivation is one of the ways, in which the University can play an important role in training component.
- Mechanized agriculture farm should be further developed by appropriate land and water management and mechanization.
- Higher value crops like quinoa, chia should be introduced for research.
- Bio-fortified varieties of specific crops should be introduced.
- Publication of university should improve by doing region specific work and publish it on high impact factor journals.
- Target should be to demonstrate new varieties at farmers field for getting more indent.
- Externally funded projects should be submitted by scientists to different agencies such as DBT, DST, MoFPI, ICAR, so that the research infrastructure can be strengthened along with the improvement in human resources.

Dr. Pratap Singh, Director Research, presented the following agenda items before the house.

• **Agenda item No. AUK/RC-4/2021/1: Confirmation of the proceedings of the 3rd meeting of Research Council held on 15.01.2020**

The proceedings of 3rd meeting of Research Council was discussed and confirmed by the house.

• **Agenda item No. AUK/RC-4/2021/2: Action Taken Report on the recommendations /suggestions of the 3rd meeting of Research Council**

Dr. Pratap Singh, Director Research, presented the action taken report, progress made during the stipulated period *i.e.*, 16th January 2020 to 23rd Feb, 2021. All the fifteen agenda items were resolved and notified *vide letter viz.*; i. To confirm the proceedings of the 3rd meeting of Research Council held on 15th January, 2020 by *vide letter* No. DR/AUK/2020/2215-35, *dt.* 02.06.2020 ii To report the action taken of recommendations/suggestions of the 3rd meeting of Research Council No. DR/AUK/2020/2215-35 *dt.*02.06.2020,iii. Reviewed and approved in 3rd meeting of Research Council, iv. Subject wise committee have been formed by *vide letter* No.DR/AUK/2020/547-68 *dt.*04.05.2020, v. Testing fee of biochemical parameters analysis of university laboratories approved by *vide letter* No. DR/AUK/2020-21/151-81-89 *dt.*25.01.2021, Vi. Brand name and trade of seed and other product of AU, Kota could not be complete by A.D. (Seed and Farm) and is under progress. vii. Proposal for nomenclature of the varieties developed by the AU, Kota approved by *vide letter* No.DR/AUK/2020-21/15199-207 *dt.*25.01.2021, vii. Conductance of rainfed/ other related need-based trial at ARSS, Akhlera/Khanpur/Sultanpur approved by *vide letter* No.DR/AUK/2020/2194-214 *dt.*02.06.2020, ix. New project under RKVY 2019-20 approved x. approval of private sponsored project for year 2018-19 have been approved xi. Reporting of ZREAC meeting and proceedings approved by *vide letter* No.DR/AUK/2020/2361-82 *dt.*05.06.2020, xii. Proposal of link officers for outside research station approved by *vide letter* No.DR/AUK/2020-21/15190-98 *dt.*25.01.2021, xiii. Monthly research meeting at different research unit organized in online and offline mode as per by *vide letter* No.DR/AUK/2020/2236-56 *dt.*02.06.2020, xiv. Research topic post graduate students have been approved by *vide letter* No.DR/AUK/2020/2319-39 *dt.*05.06.2020, xv. Proposal for purchase a vehicle for ZDR, ARS, Kota, O/I MAF, Kota and A.D. (Seed and Farms) under progress at university level.

The house discussed on the different matters, action taken report on various recommendations/suggestions made in the 3rd meeting of Research Council which were resolved and approved by the house.

• **Agenda item No. AUK/RC-4/2021/3: Review of research work of the year 2019-20.**

Dr. Pratap Singh, Director Research, presented the salient research progress & achievements from Jan 2020 to Feb 2021. He informed the house that during the reporting period, sincere efforts were made to bring new research projects from different funding agencies. 14 regular AICRPs and 06 voluntary AICRPs centres, 01 Enhancing breeder seed production of pulses-NFSM, 01 Mission of Integrated Development of Horticulture, 01 Neonicotinoid & honeybee, 01 BRNS (BARC), 19 RKVY, 02 Oilseed (Soybean & Mustard) seed hub, 01 seed project on soybean and 42 different product testing projects were conducted at different centres/units under Directorate of Research, Agriculture University, Kota. He informed the house that 11 varieties of different crops have been developed and identified by CVRC/SVRC *viz.*,

Kota Urd 3 (KPU 524-65), Kota Urd -4 (KPU 12-1735) of Urdbean , Kota Matar-1 (KPF 101) for field pea, RKG 13-515 (Kota Desi Chana-1), RKGK 13-271 (Kota Kabuli Chana 1) Kota Kabuli Chana 2 (RKG 13-499) for chickpea, RKL 605-03 (Kota Masoor 3) Kota Masoor- 4(RKL 58F 3715) for lentil, Kota Barani Alsi-5 (RL 29005), Kota Barani Alsi-6 (RL 15584), Kota Alsi-6 (RL 15584) for Linseed were recommended for the state and different parts of India. Similarly, 10 developed varieties of different crops were also recommended for the zone V through ZREAC. He also informed the house that higher production and profitability can be achieved through the adoption of crop production and protection technologies of field as well as horticultural crops. Out of 31 production technologies; 21 of crop improvement, 06 of crop production, 04 of crop protection & horticultural for different crops (field and horticultural crops) have been developed and recommended for the zone V.

- Similarly, progress on new innovations in Agriculture University, Kota viz., grafting techniques for mass queen production of honeybee, production technologies of Makhan grass (Rye grass), production technologies of Quinoa & Chia, studies on new crops Drumstick, Chandrasoor, orchard intensification, works on IFS model, water management technologies, etc. He also presented the progress of various viable unit of AU, Kota like honeybee processing unit, phytosanitary lab., soil and water testing lab.
- He also presented the progress of land development works at various Research stations, total revenue generation by seed and other means, IFS, *Maharishi Parashar Sodh Peeth/organic block*, AZF and Choronji project of RKVY.
- During the last one years (Jan 2020 to Feb 2021) under various research units & seed production farms have produced 9774 q seeds of various categories (breeder seed production, TL & other) of different *kharif* and *rabi* crops.
- Dr. N.L. Meena, Zonal Director Research, Agricultural Research Station, Kota presented the salient research achievements of agro-climatic Zone-V. Dr. Meena informed about the filled & vacant staff position of teaching & non-teaching up to Feb. 2021. He also appraised the research facilities available at the station (Phytosanitary lab, Honeybee processing lab, Soil & Water testing Lab and Plant Health Clinic), 31 technologies generated either varietal development; crop production & crop protection including horticultural technologies which were incorporated in the package of practices, newly generated technologies transferred to ATC for further verification of field testing, seed production, extension activities and research priorities. He also informed the house detailed features of 11 developed varieties & 10 different crop varieties with silent features; 06 crop productions, 04 crop protections including horticultural technologies generated, commercialized and included in the package of practices for the south-eastern humid plain zone of Rajasthan (Zone V).
- During the year 2020 (Kharif 2019), this station produced quality breeder seed production of 125.7 q and in Rabi-2019-20 total seed production was 1394.24q. Out of which, breeder seed (97.49 q), certified seed (150 q) and truthful labelled seed (1146.75 q). This station demonstrated 249 front line demonstrations to the farmers' field in a cluster mode approach to show the worthy impact of new variety with full package technology for enhancing the field crops productivity in comparison to

farmers' practices. This station organized 19 field days and trainings programmes on various aspects viz., Production Techniques of different crops, beekeepers under RKVY & SCSP, ASQI etc. in which 738 farmers' and Extension workers were benefited. Various human resource management and academic scaling activities were done by ARS scientists (29) to participated in QRT, conference, seminar, symposium, workshop, trainings on short courses, summer & winter school etc. and strengthens the university research & extension in a form of publications (Total 70) in various referred journals (34), technical bulletins & folders (10), training manuals and popular articles (08) for the dissemination on latest developed production technologies to the stakeholders. He also presented that his 78% teaching staff in actively involved in teaching work assigned by COA, Kota. He also presented the financial progress of the station and infrastructure development works viz; land development (7.00 ha.) seed godown, threshing floor & implements shed etc under various projects. ZDR also presented the development work done under RKVY projects like seed godown, irrigation channel covered trashing floor, and gravel road. ZDR also presented net income Rs. 9308189/- by different units of ARS, Kota.

- Dr. J.M. Dhakar, O/I MAF, Kota presented the scenario of land utilization pattern, out of 485 ha area 305 ha is being under cultivation. The seed production scenario during last one years are *asrabi* season 2019-20 (4906 q), *inkharif 2020* (52.70 q), and Zaid seed production (10.25 q). He also informed the house about creation of new cultivated land in the various fields for the production of additional breeder seed. He insured the house that our target is to increase the cultivated area and double our breeder seed production as well as income in next three years. He also presented the infrastructure and development works like boundary wall, land development, etc under RKVY. The chairman instructed to O/I, MAF, Kota for transferring of seed testing equipments from Khanpur to MAF, Kota and installed these at earliest. (**Action to be taken by O/I, MAF, Kota/ARSS, Khanpur**).
- Dr. S.L. Yadav presented on behalf of Sh. Pradeep Kumar, O/I ARSS, Aklera and presented the land utilization pattern of ARSS, Aklera where quality seed production programmes being carried out in the *kharif*, *rabi* and *zaid* seasons. The quality seed production scenario of one year of ARSS, Aklera are summarized as *kharif* season (314 q), *rabi* season (568 q), *zaid* season (29 q) and total production (911 q) and informed about current position of seed & expected production for *rabi* 2020-21. He also elaborated the two experiments being carried out under volunteer centre of AICRP on Dryland Agriculture and results are summarized as; nutrient management in soybean based double cropping system under residual moisture revealed that Soybean-chickpea gave highest system productivity (3666 kg/ha) & application of nutrient 50 % RDF (inorganic) + 50 % through FYM + sulphur @ 10 kg/ha gave maximum soybean seed yield; Another experiment on Evaluation of tillage practices and moisture conservation practices on for soybean-mustard cropping system under dry and conditions, further revealed that BBF method of two row gave the maximum soybean system productivity (2926 kg/ha) over different moisture conservation practices. He also showed the house for the creation of infrastructure facilities at the

centre under RKVY project viz farm gravel road 1.8 km, RCC irrigation canal 251m and boundary wall 1150m. He informed the house about other developmental activities like organization of farmers' trainings under MIDH and 70 farmers participated. He also highlighted financial position of the centre in the reporting period. He also informed the house that about planning of farm development works viz; expansion of guava orchard 1 ha, land levelling of 36 ha and storage godown.

- Dr. S.L. Yadav, O/I ARSS, Khanpur presented the land utilization pattern of Khanpur where quality seed production programmes being carried out in the *kharif* and *rabi* season. The quality seed production scenarios of last 1 years of ARSS, Khanpur are summarized as *kharif* season (427 q), *rabi* season (876.74 q) and zaid season (31.68 q) and informed about current position of seed & expected production for *rabi* 2020-21. He also highlighted financial progress (revolving fund position) of centre. He also informed future plan for infrastructure development and renovation of farm buildings, etc.
- Dr. Harphool Meena, I/c Sultanpur Farm, Kota informed the house that AU, Kota got the Sultanpur farm from GOR only for five years (on lease) for breeder seed production, due to farm on lease, unable to develop any new infrastructure facilities. Dr. Meena presented the progress of land utilization pattern, out of 21.5 ha area 18.0 ha is being under cultivation. The seed production scenario during last 2 seasons are as in *rabi* 2019-20 (992 q), in *kharif* 2020 (167 q) and generated gross income about 51.8 lakhs. He also thanked to Director Research, ZDR and other O/Is for providing farm implements and other support for seed production programme. He also informed that efforts will be done to receive this farm from GOR to AU, Kota. The chairman/HVC emphasized for taking breeder seed production programmes and do sincere efforts to receive the farm from Govt.
- Dr. J. M. Dhakar, Addl. Director (Seed & Farms), AU, Kota presented the over view of seed production scenario of the university. He also draws attention of the house that during *rabi*-2019-20 & *kharif*-2020, total seed production (breeder, TL & other) was 11854.08q and 1492 q were produced by the university research & KVK farms. He presented the sown area of *rabi* 2019-20. He also requested to the house to provide facilities viz; separate vehicle for effective monitoring of seed production programmes, additional technical staff and contingency budget. HVC suggested to Addl. Director (Seed & Farm) and O/I, MAF, Kota that to resolve the major constraints of *kharif* seed production especially for soybean and try to increase the indent of all crops.

Research accomplishment & progress of DOR, ARS Kota, MAF Kota, ARSS Aklera & Khanpur, Sultanpur farm and seed production progress was presented through power point presentation by respective persons for information of the Research Council. After discussion, these were resolved and approved.

- **Agenda item No. AUK/RC-4/2021/4: New projects under RKVY.**

The proposed items and matter was discussed and it was resolved and approved seven new projects submitted under RKVY-RAFTAAR to the Jt. Secretary, RKVY, Govt. of Rajasthan for approval in the year 2021-22. **(Action: DR)**

- **Agenda item No. AUK/RC-4/2021/5: Approval of Private projects for the year 2020-21**

The proposed agenda was discussed and it was resolved and ex-post facto approval provided by the house for various sponsored private projects are taken up by the DOR. (Action: DR)

- **Agenda item No. AUK/RC-4/2021/6: Approval of research topics for post-graduate students (M.Sc.& Ph.D.)**

Research topics for post-graduate students (M.Sc.& Ph.D.) were enclosed for information of the research council. Proposed matter was discussed at length and the following suggestions were given by Chairman:-

- All the teaching faculty/guide will submit list of probable topics for research work as well as plan the research programme in advance.
- Plan out research programme as per mandate or university jurisdiction area.
- Concrete research work (Limited relevant topics and crops).
- All Dean/DE will submit/inform to the research council.
- Good quality and innovative research work should be done.

(Action: Dean COA &CH&F/DE/DR)

- **Agenda item No. AUK/RC-4/2021/7: Reporting of the ZREAC meetings and proceedings for the information of Research Council**

ZREAC meetings were held timely and their proceedings, recommendations given for inclusion in the package of practices and solutions of the feed back problems (*Kharif-2019 and 2020 &Rabi 2019-20*) were submitted for information of the Research Council. This proposed item was discussed and finally resolved and approved. (Action: ZDR)

- **Agenda item No. AUK/RC-4/2021/8: Proposal for the “Best Research Scientist Award” in field of agricultural research in the university**

The proposed “Best Research Scientist Award” in the field of agriculture research in the university was discussed and finally resolved and approved by the house that a certificate and a cash price of Rs. 11000/- will be given to the best researcher at republic or suitable event. The modus operandi will be decided by a committee constituted by the HVC, AU, Kota and format and score card etc. be finalized. This proposed item was discussed and finally resolved and approved. (Action: DR)

- **Agenda item No. AUK/RC-4/2021/9: Proposal for the “Seed Production Award” in research unit in the university**

The proposed “Seed Production Award” in seed production research units in the university was discussed and finally not approved by the house as such and may be considered in future. (Action: Add.Dir.(Seed & Farms)

- **Table Agenda No. AUK/RC-4/2021/10 : presentation of the proceedings of the research sub groups:**

All the convenors of Research Sub Group I presented, the proceedings and the chairman suggested to submit more research project especially on IFS, organic farming, incubation centre, impact analysis, High tech horticulture, protected cultivation, *etc.* and also instructed for organizing sub group II meetings at earliest.

Dr.S.K.jain, DEE told that OFTs conducted by KVKs should be presented in the ZREAC. Dir.Res. said that it is already defined system exists and OFTs and FLDs results of KVKs are presented in the ZREAC. The technical programme of OFTs are also approved by the ZREAC if presented. The CS&Hs of KVKs mostly did not attend the ZREAC meetings and DEE should ensured their participation in ZREAC meetings. Special invitees/guests, Dr.Ramavatar Sharma, Jt. Director (Agriculture/Horticulture), Kota Division and Dr. Ashok Kumar, Head, ICAR-IISWC, Dadwada, Kota were also appreciated for research efforts done by the research team and provided their valuable suggestions for more collaborative research works with other institutes.

The Chairman of the research council Prof. D.C. Joshi, Vice Chancellor of AU, Kota ,in his concluding remarks suggested that :

- The research should be focused on priorities as per the need of zone and modern era
(action : DR/ ZDR/All P.Is)
- IFS suitable models be developed as per need and category of the farmers.
(action : ZDR/P.I. IFS project)
- Focus on Integrated approach like production of bio-pesticides, bio-fertilizers for sustainable agriculture. **(action : ZDR/P.I. Trichoderma project)**
- *Kharif* season is problematic especially in pulse crops, therefore area can be increased in *zaid* season. **(action : Add.Dir.Seed& farms)/DR/ZDR/All O/Is)**
- Looking water logging condition in *kharif* season BBF and other technology required for seed production. **(action : Add.ir.Seed& farms)/ZDR/All O/Is)**
- Climate change scenario, sowing time may be adjust and modified and research is required. High tech research should be encouraged & should be required for high impact factor research publications. **(action : ZDR)**
- Publication part of University is still need improvement and papers should be in high impact factor journals. **(action : ZDR)**
- All the units of AU, Kota including KVKs, should take all types of seed production programmes and multilocation trials for speeding up the new varieties and production of their seeds by the concern breeders.
(action : DEE/Add.Dir.Seed& farms)/DR/ZDR/All O/Is/CSH,KVKs)
- Paddy crop may be cultivated in those field where is problem of waterlogging instead of soybean urdbean, mungbean crops. **(action : DEE/Add.Dir.Seed& farms)/ZDR/All O/Is/CSH,KVKs)**

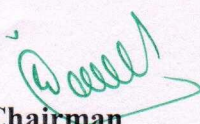
- As seed production is a great strength of this University, so quality seed and breeders seed indent should be increased at national and state levels. **(action : Add.Dir.Seed& farms)/DR/ZDR/DEE/All O/Is/CSH,KVKs)**
- Impact of variety developed should be done and impact analysis by comparing with existing variety and can be contacted with IICSWC,Dadwada. **(action : DR/ZDR)**
- Further sincere effort should be done by the breeders for indent of AU, Kota released new varieties. **(action : ZDR)**
- For soybean crop, long term solutions should be given for yield enhancement and sustainability and a strategy document should be prepared by the P.I. AICRP soybean. **(action : ZDR/P.I.,AICRP Soybean)**
- For marketing of university seed private partners may be engaged and the selling of seed, net work & commission etc. and modalities should be prepared. **(action : Add. Dir. Seed & farms)**
- Selling of other products produced by the KVKs and units, a proper mechanism should be prepared by the DEE. **(action : DEE)**
- Newly developed varieties should be popularized and be in seed chain. The efforts should be done to be included in the minikit programmes of the Ag.Dept and FLDs. Sufficient seed also be produced by the concerned breeder. **(action : Add. Dir. Seed& farms/ZDR/concerned breeder)**
- All the project incharges may be invited as special invitee in the research council meetings. **(action : DR)**
- All the Directors should be also be invited in the Board of studies meetings as special invitees. **(action :Dean / Chairman, BOS)**
- Policy for private varieties, planting material, testing and research guidelines should be prepared by a committee.**(action:DR/add.Dir.Seed&farms/Dean,CHF/COA Kota)**
- Two-year data of post graduate students will be useful for scientific and farmers community, therefore such research work output should be discussed and put forth in research sub committee. **(action : Deans / D.Edu / Convenor of RSCs)**
- Try to submit more research and other projects through external funded agencies like DBT, DST, CSIR, ICAR, NGOs, private,etc. **(action : DR/ DEE/ Add.Dir.Seed& farms /Deans/ZDR)**
- Collaboration / MOUs with another research institute should be done and encouraged. **(action : DR/ DEE/ Deans)**
- Timely preparation and submission of Annual report of each centre as well as all the projects is necessary as per the notification as already issued.**(action : DR/ Add. Dir. Seed& farms /ZDR/All O/Is/P.I.s)**
- Our zone especially Jhalawar is called as mini-Nagpur therefore, future research plan in mandarin must be necessary. **(action : Dean,CH&F/DR/ZDR)**
- During *kharif* season if crop failed due to abiotic or biotic stress therefore plan II/B (Alternative) must be prepared and kept ready for the season and coming seasons. **(action : DR/ Add.Dir.Seed& farms /ZDR/All O/Is/CSHs/Deans)**

- Thematic areas of post-graduate students research should be submitted in research council. **(action : Deans/D.Edu)**
- Certificate programme on protected cultivation should start at CHF &F, Jhalawar. **(action : Dean,CH&F)**

The meeting ended with vote of thanks to the chair and others, proposed by Dr.N.L. Meena, ZDR,ARS, Kota.



**Director Research & Secretary
Research Council**



**Chairman
Research Council**