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Executive Director of NARC Appointed

Dr. Dhruva Raj Bhattarai has been designated as the acting Executive Director of the NARC effective from 2080/02/31. Dr. Bhattarai is specialized in Horticulture science. His main works are focused on the development of vegetable farming technology. He has a long time experience in the field of agricultural research and



development. Before this appointment, he was the Director, Crop and Horticulture Research. He was also the chief of National Outreach Research Centre before. Dr. Bhattarai has a number of publications in the national and international journal. He has also published a number of Books related to his discipline. He has a good understanding of improving agriculture research system according to present need of farmers and encouraging scientist for need based research.

नेपाल कृषि अनुसन्धान परिषदका कार्यवाहक कार्यकारी निर्देशक नियुक्त

नार्कका कायममुकायम कार्यकारी निर्देशकमा डा. ध्रुवराज भट्टराई नियुक्त हुनुभएको छ। २०८०/०२/३१ देखि लागु हुने गरी सो पदमा नियुक्त गरिएको हो। कृषि अनुसन्धान र विकासको क्षेत्रमा लामो समयको अनुभव भएका डा. भट्टराई बागवानी विषयका विशेषज्ञ हुनुहुन्छ। तरकारी खेतीको प्रविधि विकासमा वहाले लामो काम गरिसक्नु भएको छ। यसअघि वहा निर्देशक, बाली तथा बागवानी अनुसन्धान र राष्ट्रिय बाह्य अनुसन्धान केन्द्रका

प्रमुखको पदमा बसेर आफ्नो कार्यक्षमता प्रस्तुत गरिसक्नुभएको छ। नवनियुक्त कार्यकारी निर्देशकका राष्ट्रिय तथा अन्तर्राष्ट्रिय जर्नलमा धेरै प्रकाशनहरूका साथै आफ्नो विषयसंग सम्बन्धित पुस्तकहरू पनि प्रकाशित भएका छन्। कृषि अनुसन्धानलाई समय अनुसार सुदृढीकरण गरि किसानको आवश्यकताअनुसार प्रविधिको विकासका साथै वैज्ञानिकहरूलाई उत्प्रेरित गर्नुपर्ने वहाको धारणा रहेको छ।

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National Rice Day-2080 Celebrated

The 20th National Rice Day was celebrated on the premises of the National Agronomy Research Centre, Khumaltar, Kathmandu on 15th Asar, 2080. It was jointly organized by Nepal Agricultural Research Council and Department of Agriculture.



Rice transplanting by Senior Officials at Khumaltar

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The slogan for the Rice day was "Climate-adapted farmers' Technology for Increased production of rice". Rice is the staple food of the Nepalese people, which has largest contribution in the AGDP. The main purpose of this planting ceremony is to motivate the farmers in rice production, ensure the food security of the Nepalese people and ultimately be self-reliant in rice production.

Minister for Agriculture and Livestock Development, Dr Bedu Ram Bhusal was the chief guest of the ceremony. Dr Bhusal inaugurated the ceremony by transplanting rice with a rice transplanter. Secretary for MoALD, Dr Deepak Kharal, Director General from DoA, Executive Director, NARC, Officers from the Ministry, NARC and farmers joined as the guest of the day.

२०औँ राष्ट्रिय धान दिवस भव्यताका साथ सम्पन्न

नेपाल कृषि अनुसन्धान परिषद् र कृषि विभागको संयुक्त आयोजनामा असार १५, २०८० मा राष्ट्रिय बाली विज्ञान अनुसन्धान केन्द्र, खुमलटारको प्रांगणमा २०औँ राष्ट्रिय धान दिवस मनाइयो। यस वर्षको धान दिवसको नारा "जलावायु अनुकूलित कृषक मैत्री प्रविधि, धान उत्पादनमा वृद्धि" रहेको छ। यस समारोहको मुख्य उद्देश्य किसानलाई धान उत्पादनमा उत्प्रेरित गर्ने, सबै जनताहरूलाई खाद्य सम्पन्नताको अधिकार सुनिश्चित गर्ने

र धानमा आत्मनिर्भर बनाउने रहेको थियो।

कृषि तथा पशुपन्छी विकासमन्त्री डा.बेदुराम भुसाल प्रमुख अतिथि रहेको सो कार्यक्रमको उद्घाटन राइस ट्रान्सप्लान्टरबाट धान रोपेर गरिएको थियो। सो दिवसको अतिथिको रूपमा मन्त्रालयका सचिव डा दीपक खराल, विभागका महानिर्देशक, नार्कका कार्यकारी निर्देशक, मन्त्रालयका अधिकारीहरू र किसानहरूको सहभागिता थियो।

31st National Summer Crop Workshop Organized

The 31st National Summer Crop Workshop organized by the Crops and Horticulture Research Directorate of the Nepal Agricultural Research Council (NARC) was held at the Directorate of Agriculture Research (DOAR), Gandaki Province, Lumle on July 2-3, 2023. The workshop included paper and poster presentations, group work sessions, and opening and closing ceremonies. The workshop's opening session was presided over by Dr. Dhruba Raj Bhattarai, the Executive Director of NARC, with Mr. Sahadev Prasad Humagai, the Secretary of the Ministry of Agriculture and Land Management, Gandaki Province, as the esteemed chief guest. The opening session featured coordinators' and disciplinary reports presented.

Parallel session of paper and poster presentation were conducted at Rampur and Lumle, with a total of 111 papers including research articles, coordinators' reports, and disciplinary center's reports. These sessions



provided a platform for researchers to present their findings and engage in valuable discussions with their peers and experts in the field.

३१ औँ राष्ट्रिय बर्षेबाली कार्यशाला गोष्ठी सम्पन्न

नेपाल कृषि अनुसन्धान परिषद् (नार्क) को बाली तथा बागवानी अनुसन्धान निर्देशनालयले आयोजना गरेको ३१ औँ राष्ट्रिय बर्षेबाली कार्यशाला गोष्ठी कृषि अनुसन्धान निर्देशनालय, गण्डकी प्रदेश, लुम्लेमा जुलाई २-३, २०२३ मा सम्पन्न भएको थियो। कार्यशालामा कार्यपत्र र पोस्टर प्रस्तुतिकरण, समूहगत, उद्घाटन र समापन सत्र संचालन गरिएको थियो। कार्यशालाको उद्घाटन सत्रको अध्यक्षतामा नार्कका कार्यकारी निर्देशक डा. धुवराज भट्टराईको गर्नु भएको थियो भने हुमागाई प्रमुख अतिथिका रूपमा गण्डकी

प्रदेशको कृषि तथा भूमि व्यवस्था मन्त्रालयका सचिव सहदेवप्रसाद रहनु भएको थियो। उद्घाटन सत्रमा संयोजक र बिषयगत प्रतिवेदन प्रस्तुतिकरण गरिएको थियो।

समानान्तर रूपमा रामपुर र लुम्लेमा कूल १११ संयोजक प्रतिवेदन, बिषयगत, कार्यपत्र र पोस्टर प्रस्तुतिहरू गरिएको थियो। यी सत्रहरूले अनुसन्धानकर्ताहरूलाई उनीहरूको निष्कर्षहरू प्रस्तुत गर्न र आफ्ना क्षेत्रका विशेषज्ञहरूसँग महत्वपूर्ण छलफलहरूमा संलग्न हुनको लागि एक प्लेटफर्म प्रदान गरेको थियो।

Minister for Agriculture and Livestock Development Visited DoAR, Lumle

Honorable Minister, Dr. Bedu Ram Bhusal, Minister for Agriculture and Livestock Development was visited Directorate of Agricultural Research (DoAR), Gandaki Province, Lumle, Kaski on 17-18 June 2023 (2-3 Asar 2079). Minister was welcomed and presented achievement and research activities by the Director of DoAR, Lumle, Dr. Kalika Prasad Upadhyay. Director DoAR, Lumle handed over the publication and publication published by

DoAR Lumle, Kaski. Honorable Minister observed the experiments and research activities conducted by DoAR, Lumle, Kaski.

During his visit, Secretary of Ministry of Agriculture and Livestock Development (Agriculture) Dr. Govinda Prasad Sharma and Secretary (Livestock) Dr. Deepak Kumar Kharal were present.

कृषि अनुसन्धान निर्देशनालाय, लुम्लेमा कृषि तथा पशुपंक्षी मन्त्रिको भ्रमण

माननीय कृषि तथा पशुपन्छी विकास मन्त्री डा .बेदुराम भुसालले कृषि अनुसन्धान निर्देशनालय ,गण्डकी प्रदेश, लुम्ले, कास्की मिति २-३ असार २०७९ मा भ्रमण गर्नुभएको भयो। कृषि अनुसन्धान निर्देशनालय ,लुम्लेका निर्देशक डा .कालिकाप्रसाद उपाध्यायले माननीय मन्त्रीलाई स्वागत गर्नुका साथै निर्देशनालायको उपलब्धि तथा अनुसन्धान गतिविधि प्रस्तुत गर्नु भएको थियो । उक्त अवसरमा निर्देशनालायद्वारा प्रकाशित प्रकाशनहरू निर्देशकले

माननीय मन्त्रीलाई हस्तान्तरण गर्नु भएको थियो। माननीय मन्त्रीज्यूले कृषि अनुसन्धान निर्देशनालय, लुम्ले, कास्कीले गरेको अनुसन्धान गतिविधिहरूको अवलोकन गर्नु भएको थियो।

उहाँको भ्रमणका क्रममा कृषि तथा पशुपन्छी विकास मन्त्रालय सचिव (कृषि) डा .गोविन्दप्रसाद शर्मा र सचिव (पशुपालन) डा . दीपककुमार खरालको सहभागिता रहेको थियो ।

Travelling Seminar Organized

Travelling seminar was conducted by a multidisciplinary team associated with senior-scientists, technical officers, administrative staffs, senior officer and planning officer from MoALD and journalists as well. The main objective of the seminar was to observe actual performance and outputs of program and to create environment of formal and informal interaction with the concerned stakeholders. To cover the wide range of research activities and the program travelling seminar was divided into two teams. One of the teams visited the Horticultural

Research Station, Malepatan and Fishery Research Station, Begnas from 2080-3-14 to 2080-3-17 while another team visited the National Goat Research Program from 2080/03/18 to 2080/03/20.

The traveling seminar successfully provided participants with valuable knowledge and practical insights of different research activities of the respective offices.

ट्राभेलिंग सेमिनार सम्पन्न

कृषि तथा पशुपंक्षी विकास मन्त्रालयका वरिष्ठ अधिकृत, योजना अधिकृत, नार्कका वरिष्ठ वैज्ञानिक, वैज्ञानिक, प्राविधिक अधिकृत, प्रशासनिक कर्मचारी र पत्रकारहरूको सहभागितामा नेपाल कृषि अनुसन्धान परिषद्ले Travel Seminar सम्पन्न गरेको छ। सेमिनारको मुख्य उद्देश्य विभिन्न अनुसन्धान गतिविधिहरूको नतिजा वा प्रभाव देखाउनुका साथै सम्बन्धित सरोकारवालाहरूसँग औपचारिक र अनौपचारिक अन्तर्क्रियाको गर्नु थियो। विभिन्न ठाउँमा अनुसन्धान गतिविधि र क्रियाकलाप संचालन भएकाले सेमिनारलाई दुई समुहमा विभाजित गरि भ्रमण तालिका तयार गरिएको थियो। एक समुहद्वारा २०८०/०३-१४ देखि २०८०-३-१७ सम्म बागवानी अनुसन्धान केन्द्र, मालेपाटन र



मत्स्य अनुसन्धान केन्द्र, बेगनासको भ्रमण गरेको थियो भने अर्को समुहले २०८०/०३/१८ देखि २०८०/०३/२० सम्म राष्ट्रिय बाखा अनुसन्धान कार्यक्रमको भ्रमण गरेको थियो ।

यस सेमिनारले सहभागीहरूलाई विभिन्न अनुसन्धान गतिविधि, ज्ञान र व्यावहारिक अन्तर्दृष्टि प्रदान गर्न सफल भएको मानिएको छ ।

Executive Director made a visit to China

Acting Executive Director of NARC, Dr. Dhruva Raj Bhattarai along with the Planning Chief of NARC, Dr Tek Prasad Gotame made a visit to Emieshan City of Sichuan province, China recently. The visit was scheduled from 6th to 8th July, 2023. The objective of the visit was to participate in the 1st council of the International Mountain Agriculture Science and Technology Innovation Alliance (IMASTIA) and to extend the collaboration with Sichuan Academy of Agricultural Sciences (SAAS) and other Chinese institutions



कार्यकारी निर्देशकको चिन भ्रमण

नार्कका कार्यवाहक कार्यकारी निर्देशक डा. ध्रुवराज भट्टराई र योजना प्रमुख डा. टेकप्रसाद गोतामेद्वारा ६ देखि ८ जुलाई, २०२३ मा चीनको सिचुवान प्रान्तको एमिएसान सहरको भ्रमण गरिएको छ । भ्रमणको उद्देश्य अन्तर्राष्ट्रिय पर्वतीय कृषि विज्ञान तथा प्रविधि आविष्कार गठबन्धन (IMASTIA) को पहिलो परिषद्मा भाग लिनुका साथै सिचुआन एकेडेमी अफ एग्रिकल्चरल साइन्सेज (SAAS) र अन्य चिनियाँ संस्थाहरूसँगको सहकार्यलाई विस्तार गर्नु रहेको थियो। सम्मेलनमा पर्वतीय कृषि विज्ञान तथा प्रविधिको

for the exchange of the innovation and technologies for the rural revitalization of the mountain people. The conference further exchanged the work achievements and experiences of each member of IMASTIA in mountain agricultural science and technology innovation. The conference elected Dr. Bhattarai as a Vice-president of SAAS. The conference was fruitful for strengthening cooperation among IMASTIA countries to exchange technologies and innovations.

आविष्कारमा IMASTIA को प्रत्येक सदस्य रास्ट्रको कार्य उपलब्धि र अनुभव आदानप्रदान गरिएको थियो ।

परिषद्को वार्षिक साधारणसभाले IMASTIA को उपाध्यक्षमा नार्कका कार्यकारी निर्देशक डा.ध्रुवराज भट्टराईलाई चुनेको छ।IMASTIA राष्ट्रका सदस्य बीचको आविष्कार र प्रविधिको आदानप्रदान र यी राष्ट्रहरूबीचको समन्वयलाई सुदृढ बनाउने अर्थमा यो भ्रमण निकै फलदायी रह्यो ।

Livestock and Fisheries Breed Registration Workshop held

The livestock and fish breed registration workshop was organized by Nepal Agricultural Research Council on Ashar, 17 2080. The objectives of the workshop was to discuss and develop the protocol on the Livestock and fish breed registration. The participants in the workshop were from MoALD, DLS, Heifer

International, ILRI, and Universities. The breed registration is expected to promote the conservation of the indigenous species of the livestock and fishes in Nepal.



पशु तथा माछाका नस्ल दर्ता कार्यशाला सम्पन्न

नेपाल कृषि अनुसन्धान परिषद्ले असार १७, २०८० मा पशु तथा माछा नस्ल दर्ता कार्यशाला आयोजना गरेको थियो । कार्यशालाको उद्देश्य पशुधन तथा माछा नस्ल दर्ता सम्बन्धी प्रोटोकलको बारेमा छलफल र विकास गर्नु थियो। कार्यशालामा

कृषि तथा पशुपंक्षी विकास मन्त्रालय, पशुसेवा विभाग, हेफर इन्टरनेशनल, अन्तर्राष्ट्रिय पशु अनुसन्धान प्रतिष्ठान, र विश्वविद्यालयहरूको सहभागीता रहेको थियो। नस्ल दर्ता प्रक्रियाले नेपालमा स्वदेशी प्रजातिका पशुपन्छी तथा माछाको संरक्षण प्रवर्द्धन गर्ने अपेक्षा गरिएको छ ।

Domain Based Fertilizer Recommended for Rice, Maize and Wheat

National Soil Science Research Centre together with its collaborator USAID funded Nepal Seed and Fertilizer Project (NSAF) has made domain based fertilizer recommendation for the main crops (Rice, Maize and Wheat).

The recommendation of fertilizer for the first time was made long back in 1976 by Department of Agriculture. Since then no amendment was made. This was a blanket recommendation for all the domain which was not based on the biological, physical and chemical properties of the soils and crop management practices as well. The new recommended dose is based on the cropping system, types of crop and variety, existing nutrient status, moisture content of the soil.

The new recommendation was made by modelling the result of the various fertilizer trial conducted at different domain of the country by Quantitative Evaluation of the



Fertility of Tropical Soils (QUEFTS) model.

धान, मकै र गहुँका लागि क्षेत्र आधारित मलखाद सिफारिस

राष्ट्रिय माटो विज्ञान अनुसन्धान केन्द्र, NARC र सहयोगी संस्था USAID को आर्थिक सहयोगमा नेपाल बीउ तथा मल परियोजना (NSAF) को सहकार्यमा मुख्य बाली (धान, मकै र गहुँ) को लागि क्षेत्रविशेषमा आधारित रहेर मलखादको मात्रा सिफारिस गरिएको छ।

कृषि विभागले सन् १९७६मा पहिलो पटक मलखादको मात्राको सिफारिस गरेको थियो। त्यसयता कुनै पनि संशोधन हुन सकेको छैन। हालसम्म गरिएको सिफारिस माटोको जैविक, भौतिक,

रासायनिक गुण र बाली व्यवस्थापन अभ्यासहरूमा आधारित गरिएको थिएन। यसरी गरिएको सिफारिस मात्रा सबै क्षेत्रको लागि एकै किसिमको थियो। बालि प्रणाली, बालीको प्रकार र विविधता, माटोको अवस्था, क्षेत्र अनुसार माटोमा भएको खाद्यतत्व फरक हुने भएकाले सोहि अनुसार मलखादको नया सिफारिस मात्रा तय गरिएको छ। Quantitative Evaluation of the Fertility of Tropical Soils (QUEFTS) नामक मोडलबाट द्वारा देशका विभिन्न क्षेत्रमा गरिएका विभिन्न मल परीक्षणको नतिजालाई मोडलिङ गरेर नयाँ मलखाद सिफारिस गरिएको हो।

Training, Workshop/Seminar, Study and Tours

S.N.	Name	Position	Office	Subject	Duration	Country
1.	Mr. Mahesh Subedi	S-1	NPBGRC, Khumaltar	International Training on germplasm screening and field surveillance on wheat blast	1-10 Mar 2023	Bangladesh
2.	Mr. Sujata K.C.	T-6	NWRP, Bhairahwa	"	"	"
3.	Mr. Khemraj Pant	T-6	NWRP, Bhairahwa	Basic Wheat Improvement Training Course 2023	6 March- 2 June 2023	Mexico
4.	Dr. Shreemat Shrestha	Director	NARC, Head Office	IRRI-ICAR work plan 2023-27	9-Mar-23	Delhi, India
5.	Dr. Resham Babu Amgai	S-4	ARS, Vijaynagar, Jumla	Advancement Meeting	6-8 April 2023	Hyderabad, India
6.	Mr. Amrit Pd. Poudel	S-2	NRRP, Hardinath	"	"	"
7.	Dr. Ujjwal Kr. Kushwaha	T-6	NPBGRC, Khumaltar	"	"	"
8.	Dr. Krishna Pd. Timsina	S-4	NAPREC, Khumaltar	Improvement of Rural Agricultural Technology Extension System in Asia	24-28 April 2023	South Korea
9.	Mr Sanjeev Subedi	S-2	NAPREC, Khumaltar	"	"	"
10.	Dr. Bal Krishna Joshi	S-4	NPBGRC, Khumaltar	Global Final Meeting on knowledge sharing and R-Training Workshop	25-28 April 2023	Ethiopia
11.	Dr. Tika Ram Chapagain	S-4	NARC,Head Office	Inspectional Workshop	25-27 April 2023	Delhi, India
12.	Mr. Pradip Karki	T-6	NARC,Head Office	"	"	"
13.	Mr. Amar Bahadur Pun	S-4	NAERC, Khumaltar	"	"	"
14.	Dr. Pradip Sah	S-2	NAERC, Khumaltar	"	"	"
15.	Mr. Rameshwar Rimal	T-6	NAERC, Khumaltar	"	"	"
16.	Mr. Pankaj Gyawali	T-6	NARC, Khumaltar	"	"	"
17.	Dr. Rupa Bastola	T-6	NANRC, Khumaltar	"	"	"
18.	Mr. Rashila K.C.	T-6	NSSRC, Khumaltar	"	"	"
19.	Mr. Hem Lal Bhandari	T-5	NAERC, Khumaltar	"	"	"
20.	Dr. Surendra Lal Shrestha	S-6	NHRC, Khumaltar	Workshop & Training on Innovation & Approaches on Vegetable Breeding Technology in Asia	17-26 May 2023	Taiwan
21.	Mr.Dipendra Ghimire	T-6	NHRC, Khumaltar	"	"	"
22.	Dr. Ram Bdr. Khadka	S-1	NPPRC, Khumaltar	Horticulture Innovation Lab 2023	22-26 May 2023	Nairobi, Kenya
23.	Dr. Ranjana Rawal	S-1	NHRC, Khumaltar	"	"	"
24.	Dr. Ajay Shree Ratna Bajracharya	S-4	NERC, Khumaltar	Production Protocol of biocontrol agents for the management of invasive fall armyworm	22-26 May 2023	Bengaluru, India
25.	Ms. Resona Sinkhada	T-6	NERC, Khumaltar	"	"	"
26.	Ms. Binu Bhat	T-6	NERC, Khumaltar	"	"	"
27.	Dr. Ghanashaym Bhandari	S-2	NMRP, Rampur	"	"	"
28.	Dr. Krishna Pd. Timsina	S-4	NAPREC, Khumaltar	FBIP Final Meeting & Workshop	27-31 May 2023	Bihar, India
29.	Mr. Surya Pd. Adhikari	S-2	NAPREC, Khumaltar	"	"	"
30.	Mina Kharel	S-1	NAPREC, Khumaltar	"	"	"
31.	Dr. Dhruba Raj Bhattarai	Director	NARC,Head Office	Climate change and its Impact, International Conference	9-11 June 2023	Kashmir, India
32.	Dr. Lumanidhi Pandey	S-4	NANRC, Khumaltar	Better Utilization of rice straw for improving performance of dairy animals- Exposure visit	15-20 June 2023	Hyderabad, India

List of the people obtaining Ph.D. Degree

Mr. Nabin Rawal, Scientist (S-2) of Nepal Agricultural Research Council (NARC) has obtained Ph.D. degree in Agriculture (Soil) from Agriculture and Forestry University (AFU), Rampur, Chitwan.

His dissertation title was “**Nutrient Use Efficiency of Maize (*Zea mays L.*)- What (*Triticum aestivum L.*) Cropping System in Mid-hill of Nepal**” His findings showed that the mineralization patterns of P&K varied with the soil types and different P levels. From the study it has also been found the weathering caused a rapid fall in soil plot in all treatments due to higher temperature and moisture. Further the result also indicated that there is need for revision in fertilizer dose of hybrid maize and wheat since the response rate were more than application of existing recommended dose of N&K₂O.

Dr. Rawal had obtained his B.Sc. Ag. & M.Sc. Ag. Degree from Institute of Agriculture and Animal Sciences (IAAS), Rampur, Chitwan, Nepal.

Mr. Roman Karki, Senior Scientist (S4) of Nepal Agricultural Research Council (NARC) has obtained Ph.D. degree in Food Science from University of Otago, Dunedin, New Zealand.

His dissertation title was “**Application of Pulsed Electric Fields and Sous Vide Processing go Enhance the Quality of Beef Short Ribs**” The thesis aimed to develop novel cost-effective meat tenderization technologies to valorize low-value meat cuts. The thesis successfully identified plastic-A1 laminate as a novel SV packaging material that can be used industrially with the benefits of preserving colour and maintaining vacuum integrity during storage.

Dr. Karki had obtained his B.Tech. (Food Science and Technology) from Tribhuvan University (TU), Nepal and Master of Food Technology from Katholieke Universiteit Leuven (KU Lueven, Belgium).

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Editorial

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Mr. Jeevan Lamichhane : Scientist (S-2)

Mr. Rishi Ram Adhikari : Technical Officer (T-6)

To
