



A Quarterly Newsletter of Nepal Agricultural Research Council (NARC)

Vol. 21 No.3

July - September, 2014

## Prime Minister visited NARC exhibition stall

A two-days exhibition on Science and Technology was held at National Science Museum, Kirtipur, Kathmandu,

Nepal organized by Ministry of Science, Technology and Environment on 17-18 September 2014 (1-2 Ashwin 2071). Rt. Honourable Prime Minister, Mr. Sushil Koirala inaugurated the exhibition by switching on the electronic display monitor. Hon. Member of Constitution Assembly, Mr. Rajan KC; Hon. Member of National Planning Commission, Dr.

Bharatendu Mishra ; Secretary, Ministry of Science, Technology and Environment, Dr. Krishna Chandra Poudel; Senior officials from Ministry of Science, Technology and Environment Journalists and many



*Rt. Honourable Prime Minister, Mr. Sushil Koirala observing NARC exhibition stall at Science and Technology Exhibition, Kirtipur*

others participated in the opening ceremony chaired by Chief Secretary, Government of Nepal, Mr. Lilamani

Paudel. Secretary, Ministry of Science, Technology and Environment, Dr. Krishna Chandra Poudel welcomed all the participants and highlighted the objectives of the exhibition.

Rt. Honourable Prime Minister Mr. Sushil Koirala visited NARC exhibition stall displayed on National Science Museum. He

interestingly asked different queries and took keen interest on displayed technologies and obtained information from respective scientists.

## Eleventh National Agricultural Technical Working Group (NATWG) Meeting Organized

Outreach Research Division of Nepal Agricultural Research Council (NARC) organized 11th national agricultural technical working group meeting at Singh Durbar Plaza, Kathmandu on July 6, 2014 (22 Asadh 2071).



*Participants of 11th NATWG Meeting at Singhdurbar Plaza Kim. contd in page 2*

### IN THIS ISSUE

- Prime Minister visited NARC exhibition stall
- 11th NATWG Meeting organized
- Interaction Programme with Farmers held
- 3rd Trimester and Annual Progress Review Meeting held at RARS, Khajura
- Control of Parthenium weeds using Mexican beetles found in Nepal
- Regional Agriculture Communication Workshop organized
- High level Meeting of Technologies and future Strategies for Flood Prone Rice Production Areas held
- Stakeholder Consultation Meeting on Agriculture Insurance and Agro-Advisory
- AgLEARN Workshop held at Nepalgunj
- Training, Workshop/Seminar, Study and Tours
- 3rd Trimester and Annual Progress Review Meeting held
- Pandey obtained Ph.D. Degree

*contd of page 1*

The programme was inaugurated by Mr. Jaya Mukunda Khanal, Secretary of Ministry of Agriculture Development and chaired by Dr. Dil Bahadur Gurung, Executive Director of NARC. Dr. Hira Kaji Manandhar, Director (Planning and Coordination), NARC gave welcome speech and highlighted the objective of the meeting.

National status report on agriculture technology dissemination and adoption in Nepal was presented by Dr. Yubak Dhoj Joshi, Director General of Department of agriculture; National status report on livestock technology dissemination and adoption in Nepal was presented by Dr. Damodar Sedhain from Department of Livestock Services and National status report on food technology and quality control situation in Nepal was delivered by Ms. Jeevan Prabha Lama, Director General of Department of food technology and quality control. Dr. Deepak Bhandari, Chief of Outreach Research Division, NARC presented paper on recently verified technologies and issues for research and extension. The programme was moderated by Mr. Ram Bahadur Bhujel, Chief of Communication, Publication and Documentation Division. Participants were divided into four different groups to prepare & present recommendations in different field for action. Mr. Yagya Prasad Giri, Dr. Ram Chandra Adhikari, Dr. Krishna Prasad Paudyal and Mr. Tej Bahadur Subedi as group coordinator presented recommendations of their respective groups.

### **Interaction Programme with Farmers held**

An interaction programme with farmers on 'Hybrid Maize' was held at Wakal, Kavrepalanchowk district organized by Agriculture Botany Division of NARC on 31 August, 2014 (15 Bhadra 2071). Since last two years field trial of hybrid maize developed by National Maize Research Program, Rampur and Agriculture Botany Division, Khumaltar was conducted at farmer's field. Seven hybrid maize varieties were tested under Co-ordinated Farmers Field Trial-Hybrid (CFFT-H) and the same number of hybrid varieties were tested under Regional Farmers Field Trial-Hybrid (RFFT-H) told Dr. Shambhu Prasad Khatiwada, Chief of Agriculture Botany Division. The seeds of these varieties were distributed among farmers @ 1kg seed per farmer and the two years data were evaluated. Among different varieties Khumal Hybrid-2 was liked by majority of the farmers at Wakal site. This variety was recommended this year by Agriculture Botany Division. Khumal hybrid-2 is resistance to leaf blight and Gray leaf spot disease like other Indian hybrid varieties of maize according to Mr. Narayan Dhama, Senior Scientist of Agriculture Botany Division. There was no incidence of insect pest in the leaf and stem in this variety at farmers' field. It yielded more than 5 tons/ha. at farmer's field. Some of the special features of this variety are stay green during harvest, very compact cob covered up to top and very good taste as local maize. The bread of this maize variety is very tasty and liked by various local people. More than 20 farmers participated in the interaction programme.

### **3<sup>rd</sup> Trimester and Annual Progress Review Meeting held at RARS, Khajura**

The third trimester and annual progress review meeting of Mid & Far Western Development Region of fiscal year 2070/71 was held at RARS, Khajura on August 8, 2014 (Shrawan 23, 2071). The programme was jointly organized by Regional Agricultural Research Station (RARS), Banke and RARS, Doti. Dr. Yajna Gajadhar Khadka, Director (Crop and Horticultural Research), NARC, and Joint – Secretary, Mr. Ram Prasad Pulami, Ministry of Agricultural Development jointly inaugurated the programme watering a flower pot. The inauguration session was chaired by The Regional Director, Dr. Ishwori Prasad Gautam, RARS, Banke. Dr. Dil Prasad Sherchan, former Director (Crop and Horticultural Research), NARC and Dr. Meghraj Tiwari, The Director, Mountain Agricultural Research Institute (MARI) were guests of honour in the programme. Progress and achievements of fiscal year 2070/71 was presented by Mr. Ram Bahadur Khadka on behalf of RARS, Banke and Mr. Hari Kumar Parsain on behalf of RARS, Doti during the inauguration session.

During his address, the joint-secretary, Mr. R.P. Pulami, pointed out that agricultural research should be able to generate market oriented technologies. He praised the breeding of Radha-4 rice variety which is widely accepted by farmers in terai belt including indian border states. The chief guest of the programme, Dr. Y.G. Khadka, stressed the need of laboratories of each faculty to generate and validate the technologies developed. Dr. Khadka praised the RARS, Banke and RARS, Doti personnel for achievements they have made with the limited resource available. The chairperson of the inauguration session, Dr. I.P. Gautam, requested for more resources to conduct the additional research activities at RARS, Nepalgunj, Banke.

Second session of the one day programme was chaired by The Director, Crop and Horticultural Research, Dr. Y.G. Khadka. Six presentations from Agricultural Research Stations (ARS) and commodity research programmes of the region Surkhet, Salyan, Dailekh, Rajikot, Vijayanagar and Sheep and Goat Research Program, Guthichaur, Jumla presented their annual progress report during the second session.

Dr. Khadka pointed out in the closing session that the NARC research proposals should spell out the real field based problems and should be able to address the genuine problems of the farmers. There were total 48 participants including farmer, extension worker, scientist and technical and administrative staffs from NARC, RARS, ARS and commodity programs in the programme.

## Control of Parthenium weeds using Mexican beetles found in Nepal

*Parthenium hysterophorus* L. is a noxious weed commonly called carrot weeds and become worst weed of urban and rural areas of Nepal. It is considered one of the world's most invasive weed. Contact with this



*Beetles defoliating Parthenium plants*



*Another stage of defoliation of Parthenium*

plant causes dermatitis and respiratory malfunction in humans, dermatitis in cattle and domestic animals, due to the presence of toxin parthenin. This foreign weed is increasingly becoming a problem in road sides, protected forest, pasture and fallow land in Nepal. Now it is found all areas of the country from east to west and terai to hills. The weed was believed to come in Indian subcontinent via wheat seed in 1950s from USA. In India, it is locally known as Congress Grass or Gajar Ghans. It was first present as a contaminant in imported wheat. It can trigger allergies and is a common cause of

pollen allergy. This weed dispersed all-round the country and has become a matter of headache for farmers, scientists, ecologists, medical and veterinary practitioners due to it's wide spread effect in farming system, bio-diversity, human and livestock health.

*Zygogramma bicolorata* Pallister is an important bio-control agent of this weed. It was first introduced to India in 1984 from Mexico that's why also known as Mexican beetle.



*Beetles and Parthenium plants*

Mr. Ram Bahadur Khadka, Scientist, Regional Agriculture Research Station (RARS), Khajura, Nepalgunj, Banke, Nepal in his schedule of technical visit found the Mexican beetle at Gulariya Municipality, Bardiya, Mid-Western Nepal, at completely defoliated parthenium plants in April 26, 2014 and about 7 copulating pairs of adult beetles were collected in plastic container and kept in the adult parthenium plants making cage around it at the station in Khajura. The beetles have completely defoliated the plants inside the net and population was increased upto 1000. Now it has been maintained in glass/ screen house with relay cropping of parthenium once after defoliation.

Beetles have completely defoliated the parthenium plants as in photo. This is an encouraging result of works carried out by Mr. Khadka which in future would help to control parthenium biologically through rearing Mexican beetles and releasing them in parthenium affected areas and around.

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## **Regional Agriculture Communication Workshop Organized**

A day long regional level agricultural communication workshop on current situation and challenges of agricultural technology transfer in the country was successfully organized at Regional Agriculture Research Station (RARS), Tarhara, Sunsari on July 10, 2014 (26 Asadh 2071).

The conventional practice of extension service has not been enough to disseminate agricultural technologies in an efficient manner to the rural community. Farmers are still seeking timely information at various aspects of production inputs and information on advance technology in agricultural production. It is great challenges for grass root workers to communicate agricultural technologies to each and every individual farmer. In the changing scenario, mass media has pivotal role to transfer agricultural technologies on time to rural community. In this context the regional workshop was organized to assess the views and individual concern of the different stakeholders including journalists, extensionists, researchers and farmers to formulate an action plan for effective technology transfer to the rural community.

Five papers were presented during the session and the presenters were Mr. Bedanand Chaudhary, Mr. Manoj Thakur, Mr. Ram Sogarith Sah, Mr. Yam Pradhan and Mr. Prabhat Jha. The program was chaired by Mr. Bedanand Chaudhary, Regional Director of Regional

Agriculture Research Station, Tarhara, Sunsari. More than sixty participants attended the workshop from different sectors especially, representative from Regional Directorate of Agriculture, Eastern Development Region; representative from Regional Directorate of Livestock Service of eastern region ; representative from District Agriculture Development Office (DADO) of Jhapa, Sunsari, Morang, Saptary, Siraha , Udaipur and representative from District livestock Service office of Sunsari and Morang districts. The other participants were agricultural scientists and Senior technicians from Agriculture Research Station, Pakhribas, National Citrus Research Programme, Paripatle and progressive farmers from outreach sites of RARS, Tarhara. The media persons and reporters from different media houses of eastern region also attended the workshop. The leader farmers from RARS command area of six districts of Eastern Terai also participated in the workshop.

Mr. Ram Bahadur Bhujel, Chief of CPDD, warmly welcomed all the participants and highlighted the objective of workshop. Finally, a group was formed to assign a task to recommend some strategies for effective communication and dissemination approach to transfer improved agriculture technologies to our farmers and other clients in the future. Senior farmer Mr. Tulsi Baral inaugurated the workshop.

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## **High Level Meeting on Technologies and Future Strategies for Flood Prone Rice Production Areas**

A one day meeting was concerted by Nepal Agriculture Research Council (NARC), Seed Quality Control Center (SQCC) and International Rice Research Institute (IRRI) with the theme “Inducing different technologies and developing future strategies to increase rice production in flood prone areas” at NARC, Singhdurbar Plaza, Kathmandu.

Climate change is one of the important factors hindering to agriculture production. Agriculture environment is changing these days which results to an array of lose as it has adverse effect on agriculture. Irregular rainfall, excessive temperature, drought, flood are the outcomes of climate change that leads to great impact on agriculture production at one hand and it creates a urgent need for farmers to identify alternative opportunities to mitigate from such climatic hazards at the other hand.

Recently, Sukha dhan- 4, Sukha dhan 5, Sukha dhan 6 are released and recommended to farmers for drought areas and similarly varieties like Swarna sub- 1 and Sambha Mahsuli sub-1 was recommended for submergence areas of rice cultivation. These varieties should be massively communicated through different means to farmers of such vulnerable areas. The emphasis was given to execute all sorts of necessary technology dissemination strategies to provide rescue to farmers in drought prone areas and the technologies should reach on time to farmer’s field. The meeting was chaired by Dr. Tek Bahadur Gurung, officiating executive director of NARC and the chief guest was Mr. Jaya Mukund Khanal, Secretary of Ministry of Agriculture Development.

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## Stakeholder Consultation Meeting on Agriculture Insurance and Agro-Advisory

A day long regional stakeholder consultation meeting on Agriculture Insurance and Agro-Advisory Bulletin jointly organized by Agriculture Environment Research Division (AERD) and Socio-economic & Agricultural Research Policy Division (SARPOD) on 6th July, 2014 (23 Asadh 2071) at Wheat Research Programme, Bhairahawa.

The main objective of the meeting was to brief and share about the PPCR/BRCH/AMIS and its programme activities to be implemented by NARC and to discuss the issues of weather and Agro-advisory bulletin in Agricultural Research and Development as well as the current issues and challenges in implementation of insurance schemes in agriculture. Similarly, procedure

to collect inputs and feedback from stakeholders on field implementation of Agro-advisory bulletin and Agricultural Insurance schemes was also the objective of the meeting.

The Pilot project for climate resilience (PPCR)/building resilience to climate hazards (BRCH)/ agriculture management information system (AMIS) is a World Bank funded project implemented by Ministry of Agriculture Development and Nepal Agricultural Research Council (NARC) as one of the implementing partners. Under NARC component three divisions are involved viz. Communication, Publication & Documentation Division (CPDD), AERD and SARPOD.

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## AgLEARN Workshop held at Nepalgunj

National Training, Progress Review and Planning Workshop of AgLEARN/USAID/RDMA project was organized in Siddharth View hotel in Nepalgunj on 22-23 August 2014 (2071/05/06-2071/05/07). It was jointly organized by Seed Science Technology Division (SSTD), Khumaltar, Lalitpur and Asian Institute of Technology (AIT), Thailand. SSTD Chief Dr. HK Upreti welcomed the participants and DR. RC Bhujel, Project Coordinator from AIT, Thailand highlighted on objectives and achievements of the project of first year.

Agriculture Learning Exchange through Asia Regional Network (AgLEARN) is a special USAID project under the Regional Development Mission for Asia (RDMA) titled "Enhancing productivity and market linkages-improving the livelihoods and food security of small holders in Asia" and is a three years project outlined for July 2013 to September 2016 which is in the second year of operation. Nepal Agricultural Research Council (NARC) and Forum for Rural Welfare and Agricultural Reform for Development (FORWARD) are jointly implementing the project activities in Chitwan, Banke and Surkhet Districts. Project is working in Bangladesh, Cambodia and Nepal.

Participants of the workshop included farmers from Banke, Surkhet and Chitwan, FORWARD personnel, SSTD personnel, Communication, Publication and

Documentation Division (CPDD) chief, Agriculture Engineering Division (AED) Chief, Socio-Economic and Agriculture Research Policy Division (SARPoD) Chief, Regional Director (RD) of Regional Agriculture Research Station (RARS), Nepalgunj and related officers, Officials from Agriculture Research Station (ARS), Surkhet, Dr. Ram Chandra Bhujel and Dr. Avishek Datta from AIT, Mr. Korakod Malaiwan from Changmai University, Thailand; and representatives from agriculture development related offices. SSTD and FORWARD presented first year achievements and farmers who visited Thailand last year shared their experiences with participants. Dr. Bhujel, Dr. Datta and Mr. Malaiwan presented papers on "Integrated farming: best use of water land and labor"; "production technologies of chilli and tomato in the context of Nepal"; and Q-certification, packaging and marketing, respectively on the first day of the workshop. First session of first day was chaired by Dr. IP Gautam, RD, RARS, Nepalgunj; and second session by DR. RC Bhujel, Project Coordinator.

On second day, planning of different activities for second year of each district was carried out and program was almost finalized. Project team members also visited Bajapur (Project site of Banke District) and RARS, Khajura fields.

# Training, Workshop/Seminar, Study and Tours

**July- September 2014**

SN	Name	Position	Office	Subject	Duration	Country
<b>July</b>						
1.	Dr. Kiran Raj Joshi	S-4	Training and Scholarship Division	e-learning course on Green Productivity	7-10 July, 2014	Kathmandu
2.	Samaya Gaire	S-1	Monitoring & Evaluation Division	e-learning course on Green Productivity	7-10 July, 2014	Kathmandu
3.	Dr. Yagya G. Kadka	S-5	Director, Crop & Horticulture Research	Heat stress resilient for maize for south Asia through public private partnership	22-23 July, 2014	India
4.	Dr. Swayam P. Shrestha	S-4	Animal Health Division, Khumaltar	Metabolic diseases profile, shrilankia peridiniya	7-26 July, 2014	Srilanka
5.	Dr. Kirshna Pd. Paudel	S-5	Director, NARI, Khumaltar	Construction of the Asian Network for Sustainable Organic Farming Technology ( ANSOFT ) , Export Workshop AFACI Project	1-5 July, 2014	Kathmandu
6.	Dr. Keshav B. Koirala	S-4	NMRP, Rampur	Heat stress resilient for maize for south Asia through public private partnership	22-23 July, 2014	India
7.	Balram Bhandari	S-1	NMRP, Rampur	Heat stress resilient for maize for south Asia through public private partnership	22-23 July, 2014	India
8.	Tirtha Rijal	S-4	NMRP, Rampur	Heat stress resilient for maize for south Asia through public private partnership	22-23 July, 2014	India
9.	Mahendra Tripathi	S-1	NMRP, Rampur	Heat stress resilient for maize for south Asia through public private partnership	22-23 July, 2014	India
10.	Dr. Ishwari Pd Gautam	S-4	RARS, Nepalgunj	Heat stress resilient for maize for south Asia through public private partnership	22-23 July, 2014	India
11.	Jeewan Shrestha	T-6	RARS, Nepalgunj	Heat stress resilient for maize for south Asia through public private partnership	22-23 July, 2014	India
12.	Dr. Tara B. Ghimire	S-4	ARS, Surkhet	Heat stress resilient for maize for south Asia through public private partnership	22-23 July, 2014	India
13.	Keshab Pokhrel	T-6	ARS, Surkhet	Heat stress resilient for maize for south Asia through public private partnership	22-23 July, 2014	India
14.	Surya Narayan Sah	S-4	RARS, Tarahara	Development of Rice Production Techniques for increase of Self- Sufficiency of staple food in Asia.	8-12 July, 2014	Philippines
15.	Dr. Bhim Bd. Khatri	S-4	National Potato Research Program	Observation Tour	10-15 July, 2014	Bangladesh
16.	Dev Nidhi Tiwari	S-3	NRRP, Hardinath	Hybrid Rice for Developing countries	08 July- 04 August, 2014	China
<b>August</b>						
1.	Madan Raj Bhatta	S-4	National Agricultural Genetic Resource Center	Integrated management system of plant genetic Resources (IMPGR)	2-29 August, 2014	Sri Lanka
2.	Dr. Bindeshor P. Sah	S-5	Bio-Technology Division, Khumaltar	RAS5056 IAEA/RCA Regional Training Course on the Use of C-13 in Soil Organic Matter Studies and in Assessment of plant Tolerance to Abiotic Stress (Drought and Salinity)	4-8 August, 2014	China
3.	Bineshman Sakh	S-4	Bio-Technology Division, Khumaltar	RAS5056 IAEA/RCA Regional Training Course on the Use of C-13 in Soil Organic Matter Studies and in Assessment of plant Tolerance to Abiotic Stress (Drought and Salinity)	4-8 August, 2014	China
4.	Man Bahadur Shreatha	T-8	Food Research Division, Khumaltar	Development of locally-Appropriate GAP Programme and Agricultural Produce Safety Information System	19-23 August, 2014	Indonesia
5.	Sudha Sapkota	S-2	SARPOD, Khumaltar	Market Access for Food Security	18-29 August, 2014	Vietnam
6.	Dinesh B. Thapamagar	S-1	SARPOD, Khumaltar	Good Agricultural Practice for increasing farm productivity and enhancing Environmental sustainability	11-15 August, 2014	Philippines
7.	Dr. Hira Kaji Manandhar	S-4	Director, Planning and Coordination	South Asia Agricultural Science and Technology training and workshop of the exchange and cooperation consortium for agricultural science and technology in China	11-25 August, 2014	China
8.	Dr. Minnath Poudel	S-4	Director, Administrative	South Asia Agricultural Science and Technology training and workshop of the exchange and cooperation consortium for agricultural science and technology in China	11-25 August, 2014	China
9.	Ghanashyam Bhandary	S-1	NMRP, Rampur	South Asia Agricultural Science and Technology training and workshop of the exchange and cooperation consortium for agricultural science and technology in China	11-25 August, 2014	China

SN	Name	Position	Office	Subject	Duration	Country
10.	Santosh Thripathi	S-1	RARS, Nepalgunj	South Asia Agricultural Science and Technology training and workshop of the exchange and cooperation consortium for agricultural science and technology in China	11-25 August, 2014	China
<b>September</b>						
1.	Purushotam Jha	S-3	NRRP, Hardinath, Dhanusha	Standardization of stem Rust Filed Notes and germplasm Evaluation with discussion on stripe and leaf rust	Sept. 23-Oct. 3, 2014	Kenya
2.	Rajendra Pd. Yadav	T-6	NWRP, Bhairahawa	Standardization of stem Rust Filed Notes and germplasm Evaluation with discussion on stripe and leaf rust	Sept. 23-Oct. 3, 2014	Kenya
3.	Achyut Mishra	S-1	Food Research Division, Khumaltar	Analytical Technique in Nutrition, Food safety and Bio-safety	Sept. 01-14, 2014	India
4.	Srimat Shrestha	S-4	Agri- Engineering Division, Khumaltar	2nd Regional Forum on Sustainable Agricultural Mechanization in Asia and Pacific	9-11 Sept., 2014	India
5.	Dr. Yagya Gajhadar Kadka	S-5	Director, Crop & Horticulture Research	6th Annual Meeting on CSISA on Wheat Breeding"	11-12 Sept, 2014	India
6.	Janmajaya Tripathi	S-4	NWRP, Bhairahawa	6th Annual Meeting on CSISA on Wheat Breeding"	11-12 Sept, 2014	India
7.	Madan Raj Bhatta	S-4	NAGSC, Khumaltar	6th Annual Meeting on CSISA on Wheat Breeding"	11-12 Sept, 2014	India
8.	Sarala Sharma	S-4	Plant pathology Division, Khumaltar	6th Annual Meeting on CSISA on Wheat Breeding"	11-12 Sept, 2014	India
9.	Dr. Dhruva Bahadur Thapa	S-4	Agri- Botany Division, Khumaltar	6th Annual Meeting on CSISA on Wheat Breeding"	11-12 Sept, 2014	India
10.	Dr. Bhaida Nath Mahato	S-5	Plant pathology Division, Khumaltar	6th Annual Meeting on CSISA on Wheat Breeding"	11-12 Sept, 2014	India
11.	Shes Raman Upadhayay	S-4	NWRP, Bhairahawa	6th Annual Meeting on CSISA on Wheat Breeding"	11-12 Sept, 2014	India
12.	Nutan Raj Gautam	S-4	NWRP, Bhairahawa	6th Annual Meeting on CSISA on Wheat Breeding"	11-12 Sept, 2014	India
13.	Roshan Basnet	S-3	NWRP, Bhairahawa	6th Annual Meeting on CSISA on Wheat Breeding"	11-12 Sept, 2014	India
14.	Ramesh Raj Giri	S-3	NWRP, Bhairahawa	6th Annual Meeting on CSISA on Wheat Breeding"	11-12 Sept, 2014	India
15.	Dipak Pandey	S-3	NWRP, Bhairahawa	6th Annual Meeting on CSISA on Wheat Breeding"	11-12 Sept, 2014	India
16.	Dr. Dipak Bhandary	S-4	Outreach Division, Khumaltar	6th Annual Meeting on CSISA on Wheat Breeding"	11-12 Sept, 2014	India
17.	Bedananda Chaudhary	S-4	RARS, Tarahara	Workshop on Major rice pest and diseases in South Asia	15-16 Sept, 2014	India
18.	Sudeep Upadhayay	S-1	RARS, Tarahara	Study Visit on formulation and introduction of a New Food Safety Policy Regulations and Mandatory Standards	3-11 Sept, 2014	India
19.	Dr. Hari Bd. K.C.	T-7	Training and Scholarship Division	Study tour on strengthening Nepalese seed system and Market	1-10 Sept, 2014	India
20.	Chetana Manandhar	S-1	Plant pathology Division, Khumaltar	Study tour on strengthening Nepalese seed system and Market	1-10 Sept, 2014	India
21.	Sunil Aryal	S-3	Entomology Division, Khumaltar	Study tour on strengthening Nepalese seed system and Market	1-10 Sept, 2014	India
22.	Depak Adhikari	S-1	ARS, Bandipur	Bakharaharuma Kritim garbhadhan	3-9 Sept., 2014	India
23.	Devi Adhikari	S-1	ARS, Bandipur	Bakharaharuma Kritim garbhadhan	3-9 Sept., 2014	India
24.	Jagannath Banjade	S-1	RARS, Nepalgunj	Bakharaharuma Kritim garbhadhan	3-9 Sept., 2014	India
25.	Dil Bd. Gurug	T-6	Animal Breeding Division, Khumaltar	Bakharaharuma Kritim garbhadhan	3-9 Sept., 2014	India
26.	Ghanashyam Tiwari		Goat Develop Farm, Budhitola, Kailali	Bakharaharuma Kritim garbhadhan	3-9 Sept., 2014	India
27.	Suresh K. Rai	S-4	Monitoring & Evaluation Division	Seminar on food security for Developing Countries	3-12 Sept., 2014	China
28.	Ram N. Chaudhary	S-4	ARS, Pakhribas	Seminar on food security for Developing Countries	3-12 Sept., 2014	China
29.	Ram Baran Yadav	S-3	NRRP, Hardinath	Integrated Breeding multi: Year course ( IB-MYC) Year 3	15-26 Sept., 2014	Spain
30.	Ghanashyam Malla	S-3	Agri- Environment Division, Khumaltar	Forum on mitigating negative effect of climate change on agriculture.	Sept. 30-Oct 3, 2014	Indonesia
31.	Dr. Bhoj Raj Joshi	S-5	Director, NASRI	Improving Animal Genetic Resources value and productive performance in Asia	16-20 Sept. 2014	Bangladesh

### 3<sup>rd</sup> Trimester and Annual Progress Review Meeting held

One day progress review meeting was organized by National Agricultural Research Institute (NARI) and National Animal Science Research Institute (NASRI) on 8 August 2014 (23<sup>rd</sup> Shrawan 2070) at Khumaltar. Executive director of NARC Dr. DB Gurung, Director of Administration Dr. MN Paudel, Director of NARI Dr. KP Paudyal, Director of NASRI Dr. BR Joshi, Chief of Monitoring and Evaluation Mr. SK Rai and Chief of Communication, Publication and Documentation Mr. RB Bhujel participated in the workshop.

Similarly Most of the Division Chief located in the Khumaltar Complex, Chief of Fisheries Division,



Participants of 3<sup>rd</sup> Trimester and Annual Progress Review Meeting F.Y. 2070/071 at NARI Hall, Khumaltar, Lalitpur

Godawari, Senior Scientists, Scientists and Technical Officers from concerning divisions also participated in the meeting. A total of 48 persons participated in the workshop. concerning division chiefs and their representatives presented annual progress report of F.Y. 2070/71. Executive Director of NARC Dr. DB Gurung stressed on the efficient use of human resources, best run of capital resources, weakness and way forward for the improvement of NARC. He further asked about the outputs gained after investment.

### Pandey obtained Ph.D. Degree

Mr. Yama Raj Pandey, Senior Scientist (S-4) of Nepal Agricultural Research Council (NARC) has obtained Ph.D. degree in Horticulture from Tribhuvan University (TU), Institute of Agriculture and Animal Sciences, Rampur, Chitwan. Dr. Pandey is the first student who submitted thesis and passed final examination under “Plan-B” program in Tribhuvan University (TU), Institute of Agriculture and Animal Sciences, Rampur, Chitwan.



His research work in his Ph.D. course was on “Enhancing Productivity and Quality of Fresh bean (*Phaseolus vulgaris* L.) through Varietal Selection and Improved Crop Management Practices”.

The objectives of his study were to (i) study variability and evaluate genotypes, (ii) the effect of sowing date and genotype, (iii) the effect of plant density and nitrogen level, (iv) the combine effect of nitrogen and phosphorus and (v) the effects of organic manures and bio-fertilizers for yield and yield contributing characters.

Among the results application of poultry manure in addition with Effective Micro-organism (EM) produced the highest fresh pod yield of 24.6 & 13.6 t/ha in pole and bush bean, respectively.

Dr. Pandey obtained his B.Sc. Agriculture from Haryana Agriculture University, Hissar, India, . He has M.Sc. Agriculture from Kasetsart University, Bangkok, Thailand in Horticulture.

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**Published by**  
Communication, Publication and Documentation Division (CPDD)  
Khumaltar, Lalitpur,  
**Phone** : (977-1) 5523041, Fax : 5521197  
**Email** : cpdd@narc.gov.np  
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