

National Symposium
On
Agroforestry for Environmental Services, Livelihood Security and Climate
Resilient Agriculture: Challenges and Opportunities
3rd – 5th December, 2011

National Symposium was organized by Indian Society of Agroforestry (ISAF) and National Research Centre for Agroforestry (NRCAF) during December 3-5, 2011 at Jhansi. In total about 200 submissions were received from ICAR Institutes, State Agricultural Universities, State Forests Departments, NGOs, Industries and others covering more than 20 States/ Union territories of India. The submitted paper were reviewed and published as 'Abstract & Souvenir' and distributed to the delegates at the time of the event. Financial support for the symposium has been received from Indian Council of Agricultural Research, NABARD and other agencies. During symposium, six technical sessions were organized wherein participants made oral or poster presentations under the Four themes viz. i) Agroforestry for sustained system productivity, ii) Agroforestry for environmental challenges and climate change mitigation, iii) Climate Resilient agriculture, and iv) Extension, socio-economic and policy aspects in agroforestry. Inaugural function was graced by Dr. A. K. Singh, DDG (NRM) ICAR, New Delhi. Dr. J.C. Dagar, ADG (Ag/AF) from ICAR, New Delhi also participated and was present during all the three days.

Major Recommendations

The major recommendations of the symposium are as below;

1. Agroforestry is contributing significantly in meeting the deficits of fuel, fodder, pulpwood, timber, accelerating economic growth, helping in poverty alleviation, women empowerment and livelihood support in several ways. A major role for agroforestry is now emerging in the domain of environmental services such as biodiversity conservation, watershed protection, carbon sequestration and mitigating climate change effects. Therefore, the country requires urgently a forward looking Agroforestry Policy to address these issues.
2. Tree Improvement programmes need to be strengthened. Use of molecular markers and other biotechnological tools for selection of superior genotypes and clonal propagation are to be utilized.
3. There is a need to develop extension linkages and networking in agroforestry through KVKs, Line departments and NGO with special emphasis on specific extension programmes in agroforestry.

Forthcoming Events

- ICAR-Industry Day -28th February,2012
- Agricultural Education Day-28th February,2012
- **izf''k{k.k dk;Zdze –tuojh** 7-9, 11-13 & 17-18, 2012

4. Agroforestry based watershed development programmes to be promoted on large scale for sustainable development of natural resources and rehabilitation of wastelands and preservation of coast line and mangroves.
5. Spatial technologies like GIS/GPS and Remote Sensing may be used to assess area under agroforestry systems in different agro-climatic regions of India
6. National Research Centre for Agroforestry may be upgraded to a National Institute for developing agroforestry technologies based on sustainable agroforestry practices for different agro-climatic zones in India.

Awards of ISAF

At the time of National Symposium Dr. K.G. Tejwani Award was given by the Indian Society of Agroforestry to Dr. J.C. Dagar, ADG(AF/Agron.),ICAR, New Delhi received **Dr. K.G. Tejwani Award for Excellence in Agroforestry Research and Development (2010 - 11)**. The award consists of cash prize of Rupees Ten Thousand and a Citation.

Publications released during Symposium

On 3rd December, 2011 at the time of Inaugural function of National Symposium following publications were released by the chief guest:

- **Silvipasture in India: Present Perspectives and Challenges Ahead:** D.R. Palsaniya, S.K. Dhyani and P. Rai, published by Scientific Publishers (India), Jodhpur (Raj.)

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Important dates for celebration of events at the Centre during 2012 and onwards

In compliance with ICAR HQs directives, following dates have been fixed after through discussions for observance in 2012 onward.

S. No.	Events	Dates
1	Institute's Annual Day/Foundation Day	8 th May
2	Farm Innovator's Day	23 November
3	ICAR-Industry Day	28 th February
4	Agricultural Education Day*	28 th February

*(to sensitize the public with regard to opportunities in agriculture and agricultural education in the form of 'open house' through the day, students' debate and essay competition, skits, pamphlets and inviting prominent public figures in the area).

Success Story

Changes in Scenario of Jogaldara Hill, Ahmednagar, Maharashtra

A Phule Technique: By Continuous Contour Trench

- 1. Name of the University:** M. P. K. V., Rahuri, Dist : Ahmednagar Maharashtra State
- 2. Name of the Farmer:** Shri . Genuji Bhimaji Kurkute
- 3. Category of the Farmer:** Medium Farmer
- 4. Details of the success story:**

Shri. Genuji Bhimaji Kurkute a person from middle level farmer's family made sincere and continuous effort for the development of Jogaldara hilly area of Jachakwadi of Akola Tahasil in Ahmednagar District of Maharashtra State and succeed to change the whole scenario of Gajanan valley of Jogaldara hill with the help of his hard working B. Sc.(Agri) son Mr. Balasaheb Genuji Kurkute.

He was very much interested in farming hence and to make fulfill his ideas, he visited so many places, exhibition, Kisan melas ,rallies of farmers, research station, Agricultural Colleges and Agriculture University of Maharashtra and other States. He purchased 35 acre of mountainous hilly land of Sahaydri ranges at Akole and Sangmner Taluka in Ahmednagar District locally known as Jogaldara hill. He contacted the Scientists of Mahatma Phule Krishi Vidyapeeth, Rahuri, and discussed regarding the development of Jogaldara hill by adopting soil conservation techniques for development of huge hilly, undulated area by tree plantation, intercropping, suitable crops, supplemental irrigation system etc. When he visited MPKV headquarters, observed continuous contour trenches (CCT) developed by AICRP on Agroforestry and decided to adopt this techniques at Jogaldara hill.

Before implementing the development work, he got surveyed all the 35 ha area with the help of experienced Engineer. After survey of near about 272 feet gradient of hill, he adopted CCT techniques for plantation of different fruit trees. Initially he planted pomegranate (Var. Mridula and Bhagava) fruit trees on 18 ha hilly area, thereafter, he planted custard apple (Balanagar) on 12 ha area and more than 500 fruit trees of mango (Keshar) and aonla (Krishna, Kanchan, Narendra-7 etc.).

The plantation of pomegranate was done on 3 x 3 m spacing and used only organic manure in the plantation. The vermicompost was produced at his own farm by using fallen leaves, FYM and waste garbage. The leaf fall around the stem of tree and grasses used as feed for the earthworm, make vermicompost at the root zone for direct utilization by the plant. After plantation for better survival of plantation during summer season supplementary irrigation was very much essential . He constructed one water tank of 1.8 lakh litres capacity and purchases drip irrigation system in consultation with Jain Irrigation by submitting project proposal to 'National Horticulture Board' for financial assistance in the name of "Gajanan Valley High Tech Project". Thereafter, he has established 3 bore wells at suitable locations and all these three bore wells were interlinked with each other. The capacity of each of these bore well are 12.5 HP, 7.5 HP & 5 H.P. These three bore wells continuously lifting water, for collection in storage water tank. Shri Kurkute emphasized the benefits of CCT techniques in getting water throughout the year. The main , sub main and laterals of drip irrigation system was attached to the main storage water tank, from where the water is lifted at the peak point of hill through 15 hp electric pump .

6. Contributions made to farmer's income/social status :

He got 20 kg average yield of Pomegranate per tree and the rate of fruit at Mumbai market was ` 30 to 35/kg that means he obtained ` 600-700 /tree/caret. Accordingly from one hectare area he received near about `5to 6 lakhs. Similarly, from Custard apple he got ` 4 to 5

lakhs per hectare. Shri. Kurkute had obtained ` 40 lakhs Bank loan and within 6/7 year he refunded up to Rs. 30 lakhs to bank and till to date only ` 10 lakhs is outstanding . According to his experience due to fluctuation in market rate and expenditure on labour the fruit farming with proper utilization of CCT techniques is far better than vegetable farming.

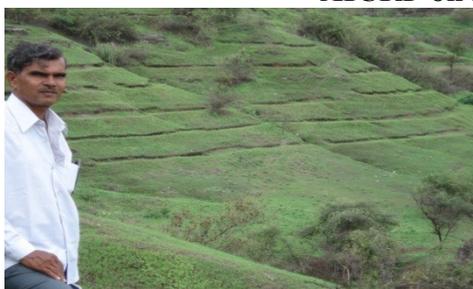
7. Impact

Now the Jogaldara hill became a visiting spot to the new agri-entrepreneurs, students from the Agriculture Colleges, Farmers from the neighboring villages/ Districts. Shri Kurkute made a mile stone by adopting technology developed by Mahatma Phule Krishi Vidyapeeth, Rahuri and put forth an example that , show middle level farmers can change the whole scenarios of such mountainous, undulating, hilly region of our country.

8. Other related information

The CCT technique advocated by AICRP on Agroforestry Centre at Rahuri helped farmers to conserve water and utilize it when needed for growth and productivity of perennial crops.

D.B. Lad, N.A. Jadhav and C. J. Sonawane
AICRP on Agroforestry, M.P.K.V., Rahuri, Maharashtra.



Continuous Contour Trench in Jogaldara Hill

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INSTITUTE JOINT STAFF COUNCIL

Institute Joint Staff Council (IJSC) meeting was held on 17th December 2011 under the Chairmanship of Director Dr. S. K. Dhyani and various issues related to staff welfare were thoroughly discusses.

WOMEN CELL

A meeting of Women Cell was held on 17th December, 2011 under the Chairmanship of Director Dr. S. K. Dhyani at NRCAF Jhansi. Gender equality and congenial environment in the office was appreciated by members.

INSTITUTE MANAGEMENT COMMITTEE (IMC)

Fifteenth IMC meeting was held on 31st December, 2011 at NRCAF Jhansi under the chairmanship of Dr. S. K. Dhyani, Director, NRCAF, Jhansi. Dr. A. K. Handa Pr. Scientist presented brief research achievements of NICRA project and Dr. R. K. Tewari Pr. Scientist presented HRD actives of the Centre during 2011. Thereafter, the agenda items were placed and discussed in the meeting. The meeting was attended by the members (Dr. D. R. Malviya, Head, Seed Tech, IGFRI, Jhansi; Dr. R. K. Tewari; Dr. Rajendra Prasad, Pr. Scientists, NRCAF, Jhansi; Sh. J. N. Mathur, Jt. Director Agriculture, Jhansi (U.P.); Dr. S. N. Pandey, Director, Taragram, Jhansi and invitees (Sh. P. K. Pandey, AF&AO, IGFRI, Jhansi; Sh. S. B. Sharma, A F & AO ; Dr. Rajeev Tiwari, Sr. TO, NRCAF, Jhansi). Sh. Dalbir Singh Rawat, AAO acted as a Member Secretary of the meeting.

NEW SCIENTIST

Sh. K. Rajarajan, Scientist (Genetics & Plant Breeding) joined the Centre in the month of December, 2011 through ARS.

FIELD DAYS

Centre organized four Field Days in following villages under FPARP programme during the period:

Date	Place
22 nd October,2011	Village- Binvara , District – Tikamgarh (M.P.)
22 nd November,2011	Village- Hastinapur, District- Jhansi (U.P.)
3 rd December,2011	NRCAF, Jhansi (U.P.)
27 th December,2011	Village- Domagore, District- Jhansi (U.P.)

INFRASTRUCTURE FACILITY

Hon'ble Dr. A. K. Singh, DDG (NRM) ICAR, New Delhi along with Dr. J.C. Dagar, ADG (AF/Agron.), ICAR, New Delhi visited the Centre on 3rd December, 2011. The DDG(NRM) laid Foundation stone of Temperature Gradient Tunnel (TGT) under NICRA Project the facility to monitor impact of varying regime of temperature on growth, biomass and productivity.

EVALUATED 1ST PHASE OF I.W.M. P. WATERSHED OF AGRA MANDEL

Dr. R. K. Tewari, Pr. Scientist ; Dr. Ramesh Singh, Sr. Scientist and Sh. N. Gurunathan , Scientist of the Centre visited the different districts of Agra Mandel from 17th to 20th December, 2011 for Evaluation of First phase work of I.W. M. P. Watershed.

DOMAGOR-PAHUJ WATERSHED VISITS

Hon'ble Dr. A. K. Singh, DDG (NRM) ICAR, New Delhi along with Dr. S.K. Dhyani, Director, NRCAF, Jhansi visited Domagor Pahuj Watershed Project on 3rd December, 2011. They also visited one of the demonstration trial under FPARP phase-II and appreciated use of rainport for vegetable cultivation in village Nayakhera.

HUMAN RESOURCE DEVELOPMENT

- Dr. Ajit, Sr. Scientist participated in the Second Workshop cum Installation Training Programme from 2nd to 3rd November, 2011 held at IASRI, New Delhi.
- Dr. Badre Alam, Sr. Scientist participated, as a ICAR nominee, in the DST sponsored training programme on “Climate Change and Carbon Mitigation” from 14th to 18th November, 2011 held at ICFRE, Dehradun.
- Dr. Badre Alam, Sr. Scientist participated in the “Interaction Meet with Scientists Trained Abroad in Frontier Areas of Agricultural Sciences” from 28th to 30th November, 2011 organized by NAIP, ICAR at NASC Complex, New Delhi .
- Dr. Ram Newaj, Pr. Scientist; Dr. Ajit & Dr. R. H. Rizvi, Sr. Scientists participated in the “High Power Review Committee Meeting of NICRA Project” during 12th to 13th December, 2011 held at NAS Complex, New Delhi.
- Sh. K. B. Sridhar, Scientist participated in the ICAR Sponsored Winter School on “Advances in Micropropagation of Horticulture Crops” from 1st to 21st December, 2011 organized by Centre for Biotechnology and Molecular Biology, College of Horticulture, KAU, Thirure (Kerala)

VISIT ABROAD

Sh. N Gurunathan, Scientist participated in the (a) Training cum Workshop on “Communicating Forest Research- Marking Science Work for Policy and Management” from 4th to 5th November, 2011 at Chinese Academy of Forestry, Beijing (China) and (b) 2nd Asia-Pacific Forestry Week from 7th to 11th November, 2011 at China National Convention Centre, Beijing, China sponsored by+ IUFRO-SPDC, Austria.

VISITORS

- Hon'ble Dr. A K Singh, DDG (NRM), ICAR, New Delhi.
- Dr. P S Pathak, Ex. ADG (AF), ICAR, New Delhi.
- Dr. J C Dagar, ADG (AF), NRM Division, ICAR, New Delhi.
- Dr. U.C. Sharma, Ex-Nat. Coordi., NATP, Jammu (J&K).
- Dr. J. P. Chandra, WIMCO Ltd., Rudrapur, Distt. U.S. Nagar (Uttarakhand).
- Mr. Pyare Lal, Chief Executive, Pragati Biotechnologies, Jalandhar (Punjab).
- Dr. A K Bisaria, Chief Conservator of Forest, Gwalior (M. P.).
- Dr. N P Malkania, Ex. PC, AICRP on FC, IGRI, Jhansi (U.P.).
- Dr. K S Dadhwal, Director, CSWCR&TI, Dehradun (Uttarakhand).
- Dr. R. Deb Roy, Ex. Director, NRCAF, Jhansi (U.P.).

- Dr. S. A. Farooqi, Director (A), IGFRI, Jhansi (U.P.).

HAPPY NEW YEAR 2012

From Director & Editorial Board

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3- 5 vDVw cj, 2011	tykxe ds vk/kkj ij izkd`frd lalk/kuksa dk	100	Hkwfe laj{k.k vf/kdkjh] Hkwfe fodkl ,oa ty lalk/ku foHkkx] egksck& f}rh;	Mkñ jekdkUr frokjh Mkñ vthr Mkñ jes" k flag Mkñ nkukjke iYklkfu;k

	izca/ku ,oa d`f`kokfudh		ftyk&egksck ¼m-iz-½	
9-11 vDVw cj, 2011	tykxe ds vk/kkj ij izkd`frd lalk/kuksa dk izca/ku ,oa d`f`kokfudh	100	Hkwfe laj{k.k vf/kdkjh] Hkwfe fodkl ,oa ty lalk/ku foHkkx] pj[kkjh&izFke] ftyk&egksck ¼m-iz-½	Mkñ jekdkUr frokjh Mkñ jes`k flag Mkñ jtk+ gSnj fjt+oh Mkñ nkukjke iYklkfu;k
15&17 uoEcj] 2011	ty lesV esa izkd`frd lalk/kuksa dk izca/ku ,oa d`f`kokfudh fodkl	100	Hkwfe laj{k.k vf/kdkjh] Hkwfe fodkl ,oa ty lalk/ku foHkkx] iuckMh] ftyk&egksck ¼m-iz-½	Mk- ,- ds- /;kuh Mkñ jekdkUr frokjh Mkñ jes`k flag Mkñ nkukjke iYklkfu;k
17&19 uoEcj] 2011	ty lesV esa izkd`frd lalk/kuksa dk izca/ku ,oa d`f`kokfudh fodkl	100	Hkwfe laj{k.k vf/kdkjh] Hkwfe fodkl ,oa ty lalk/ku foHkkx] jkB] f}rh;] ftyk&gehjiqj ¼m-iz-½	Mk- ,- ds- /;kuh Mkñ jekdkUr frokjh Mkñ jes`k flag Mkñ nkukjke iYklkfu;k
21&23 fnlEcj] 2011	ysjok ,oa jksdM+ ogh dk jjojoko rFkk dk;ksZ dk ekiu	110	Hkwfe laj{k.k vf/kdkjh] Hkwfe fodkl ,oa ty lalk/ku foHkkx] pj[kkjh&f}rh;] ftyk&egksck ¼m-iz-½	Mkñ jes`k flag Jh Mh- Mh- /kekuh Jh ,- ch- 'kekZ Jh jktsUnz flag
26&28 fnlEcj] 2011			Hkwfe laj{k.k vf/kdkjh] Hkwfe	Mkñ jekdkUr frokjh Jh ,- ch- 'kekZ Jh jktsUnz flag

			fodkl ,oa ty lalk/ku foHkkx] egksck&r`rh; ftyk&egksck ¼m-iz-½	Jh nychj flag jkor
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FIELD DAYS

Centre organized four Field Days in following villages under FPARP programme during the period:

Date	Place	Coordinators
18 th October,2011	Village- Binvara, District – Tikamgarh (M.P.)	Dr. R K Tewari, Pr. Scientist; Dr. (Er.) Ramesh Singh, Sr. Scientist; Dr. D R Palsaniya, Scientist & Sh. S P Singh Yadav, Tech. Officer
22 nd November,2011	Village- Hastinapur, District- Jhansi (U.P.)	
3 rd December,2011	NRCAF, Jhansi (U.P.)	
27 th December,2011	Village- Domagore, District- Jhansi (U.P.)	

Important dates for celebration of events at the Centre during 2012 and onwards

In compliance with ICAR HQs directives, following dates have been fixed after through discussions for observance in 2012 onward.

S. No.	Events	Dates
1	Institute's Annual Day/Foundation Day	8 th May
2	Farm Innovator's Day	23 rd November
3	ICAR-Industry Day	28 th February
4	Agricultural Education Day*	28 th February

*(to sensitize the public with regard to opportunities in agriculture and agricultural education in the form of 'open house' through the day, students' debate and essay competition, skits, pamphlets and inviting prominent public figures in the area).