IGFRI geared up to meet new challenges

The IGFRI was established in 1962 with the aim to fulfill the needs for organised research at national level and lead in development, assessment and refinement of technology in the field of forage/pasture production and utilization under different agro-ecological situations. Five scientific divisions namely, Plant Improvement, Grassland Management, Soil Science and Agronomy, Plant-Animal Relationship and Weed Ecology were created in 1966. During Vth Plan Seed Technology Division and Agricultural Engineering Division in addition to a Regional Station at Manasbal (J&K) were added. Further expansion during the subsequent five year plans led to creation of two more Regional Stations (Dharwad in Karnataka and Avikanagar in Rajasthan) and a total number of twelve Divisions.

The shifting emphasis towards multi-disciplinary mission oriented research programme and with the aim to consolidate the physical resources and sharing of the facilities, the Institute has recently been re-organised into seven research divisions namely, Crop Improvement, Crop Production, Grassland and Silvipastoral Management, Plant-Animal Relationship, Seed Technology, Farm Implement & Processing and Economics and Extension.

The Institute is presently working on the following Thrust Areas:

* Collection, evaluation and introduction of native and exotic germplasm through exchange, surveys and explorations.

* Development of high yielding, stress tolerant, disease and pest resistant forage plant varieties for different farming systems and situations.
* Farming systems based fodder production technology with emphasis on nutrient economy by introducing legumes and biofertilizers.
* Amelioration and management of problem soils for sustained productivity.
* Agro-silvipasture - based forage production systems for degraded lands and various farming situations.
* Grazing resource inventory and investigations to improve and manage grazing lands for enhanced biomass.
* Post-harvest technology for efficient conservation and utilization of herbage for optimum animal production.
* Enrichment of crop residues and stover.
* Forage seed multiplication, processing and storage.
* Research and development for optimizing the rural resource inputs in achieving economically viable crop-livestock enterprises.

**INDO-UK Collaborative Project activities:**

Dr. Bhag Mal, Director, IGFRI, Jhansi along with five Principal Scientists and Heads of Divisions, Dr. Vinod Shankar, Dr. S.T. Ahmad, Dr. S.N. Zadoo, Dr. V.S. Upadhyay, Dr. R.K. Tyagi, visited UK and the Netherlands during July - August, 1996 to have an overview of research management and planning in various research Institutes. Besides, visiting IGER, visit to NIAB, NRI, ODI, Wye College, Twye Ford Seeds in England, MLURI, Scotland and ICRA, Netherlands were also arranged.

Three IGFRI scientists namely Dr. R.S. Upadhyay, Dr. J.P. Singh and Dr. A.K. Patra joined back after receiving training from UK on 17.9.96 under this programme.

Ms. Victoria Tubb, Gaynor Hourigan from University of Wales visited IGFRI during Aug. - Sept., 1996 to study library and documentation services at this Institute.

Dr. B. K. Misri, Sr. Scientist (Eco. Botany), proceeded to U. K. for six week training in pasture seed production on Aug. 30, 1996.

**Visits:**

Amore Mengle from Afar. Pastoral Dev. Project, Ethiopia, visited the Institute on Aug. 7-8, 1996 to obtain information on the developed technology in establishment and improvement of forage resources.

Dr. S.S. Parihar, Senior Scientist visited Spain to participate in the 1st World Congress on Allelopathy - A Science for the future, held at Univ. of Cadiz during Sept. 16-20, 1996.
Dear Readers,

Every organisation is structured to work on some definite aims and objectives to achieve the targetted goals. The organisational structure and operations are dynamic in nature. Changes in people and organisation, result in changes in 'capabilities of people'. Similarly, redefined goals and objectives need the matching organisational structure and essentially the efficient work force - the ones who work for the organisation as a 'career' and not as a 'job'. This again is reciprocal to the ground realities in organisation.

The success or failure of an organisation primarily depends on the intellectual and systems capabilities rather than on its physical assets. The organisation should be able to harness the professional intellect - cognitive knowledge, practical proficiency, instinctive perception and creative motivation. They at the same time, should also review its human resource functions to assess how effective they are in matching personal aspirations of the individuals working for the organisation. This would create a positive feeling amongst the employees of being cared and will then perceive themselves as valued entities of the organisation.

The re-organisation recently carried out at this Institute is aimed at effective implementation of multi-disciplinary and system oriented research approach, consolidation of available resources and sharing of facilities. Placement of human resource is attempted in a way to harness the achievable output. The team selection is done while taking care of the competencies of its members in different areas of activities and motivation of the individuals. The evaluation and not the revolution would be the guiding principle.

The major role that I see for myself now, is to maintain the dynamic balance in conflict resolution, to channelise the input and output and for substitution to create a positive impact on the direction of change to meet the aspirations of our clientele.

Bhag Mal

(BHAG MAL)
The Institute took up the challenge of rehabilitating the wastelands in two villages of Datia (MP) and Jhansi (UP) districts. The work started with the physiographical followed by socio-economic survey to identify the causes of creation of the wasteland. The major causes - the rain water and soil loss through run-off, over grazing and tree felling were attended to by adopting appropriate measures.

**Break through: Greening of Wastelands**
More than 1.2 lakh seedlings of over thirty multi-purpose tree species selected on the basis of suitability and utility to the local needs were planted in an area of about 850 ha. The space between the trees was planted with perennial rainfed pasture grasses and legumes. The local participation was maintained throughout these activities.

The fodder produced was sufficient for local needs and was distributed to farmers on cut and carry system (head load). The success of this programme has paved the way for many more such activities in the future.
Networking on Fodder Seeds - Production and Distribution: Recommendations of the Workshop

The workshop on "Networking of Fodder Seed Production - Distribution" sponsored by NDDB, Anand during March 25-28, 1996 was organised at Indian Grassland and Fodder Research Institute, Jhansi, to formulate the modus operandi to meet the huge demand of quality fodder seeds of the Dairy cooperatives in the country. A total of 40 delegates from National Dairy Development Board, IGFRI, ICAR, SFCI, NSC, IIFM and Department of AH & Dairying, Govt. of India, New Delhi including 25 delegates from Seed producing/marketing units managed by the Dairy Coop. Federation Unions participated. Proceedings of individual technical sessions and recommendations adopted were presented in the Plenary Session and after thorough discussions the following recommendations were adopted.

MAJOR RECOMMENDATIONS:

Production and Coordination:

<table>
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<tr>
<th>Agency</th>
<th>Activity</th>
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<tr>
<td>1. IGFRI &amp; A ICRPFC</td>
<td>Co-ordination for production and timely supply of Breeder Seeds of all fodder crops, grasses and legumes.</td>
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<tr>
<td>2. IGFRI/NDDB</td>
<td>Co-ordination for foundation and Certified Fodder Seed Production of cultivated crop varieties, monitoring and distribution.</td>
</tr>
<tr>
<td>3. IGFRI/NDDB</td>
<td>Production and monitoring of the seed production of range grasses, legumes, fodder trees and shrubs.</td>
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Research:

Establishing seed certification standards and reviewing the existing standards, development of efficient farm machinery for collection and processing of seeds, anthracnose and weed control studies in Sytlozanthes and Cuscuta eradication in Lucerne, to identify efficient seed production niches for different fodder crops and development of promising sudex hybrids need to be promoted.
संस्थान राजभाषा कार्यान्वयन समिति के तत्तायावधान में दिनांक 16-21 सितंबर, 1996 तक हिंदी सपाटा का आयोजन किया गया। संस्थान के विभिन्न विभागों, अनुभागों एवं विभागों द्वारा राजभाषा हिंदी में दिखाये गये कार्यों का मूल्यांकन कर पुरस्कार की घोषणा की गई। सपाटा के दौरान दिनांक 16-9-96 को अधिक से अधिक कार्य अधीन में करने का संकल्प लिया गया।

सपाटा का विविध उद्धारण को मुख्य अधिकारी प्रो. रमेश चन्द्र यादव, निदेशक, बुद्धलखण्ड अभियंत्रण एवं प्रौढोपयोगी संस्थान, ओरेंज हार्ट दिखाया गया। अपने उद्धारण भाषण के दौरान मुख्य अधिकारी ने राजभाषा हिंदी के प्रयोग पर वचन देते हुए कहा कि वैज्ञानिक क्षेत्र में हमें हिंदी में कार्य करना चाहिए। उद्धारण समारोह के अवसर पर अपने अध्यक्षीय भाषण में संस्थान को निदेशक डॉ. नाग मल ने सभी अधिकारियों एवं कर्मचारियों से हिंदी में अधिक से अधिक कार्य करने का आदेश किया।

संस्थान में कर्मचारियों एवं अधिकारियों के लिए हमें सपाटा के अंतर्गत हिंदी निबंध, नरेशदा टिप्पणी लेखन, कविता पाठ, भाषा एवं हस्त-परिहास प्रतियोगिताओं संगठित की गई।

हिंदी के विभाग अधिकारियों द्वारा भाषणांकल के अंतर्गत राजभाषा एवं उसके उपयोग विषय पर विचार व्यक्त किया गया। डॉ. जगदीश प्रसाद अन्नोहती, अध्याय, बुद्धलखण्ड महाविद्यालय, इंडिया, डॉ. मनुजी भीवालच, विभागवाहक, हिंदी, बुद्धलखण्ड महाविद्यालय, ओरेंज एवं श्री रामचंद्र भाषानिको, लेखा निर्मल हिंदी अधिकारी, मध्य रेल, ओरेंज प्रमुख थे। विभागों ने राजभाषा का महत्व एवं राजभाषा नीतियों पर धारणा डालने वाले उनके अधिक से अधिक प्रयोग पर वचन दिये जाने की अपील की।

हिंदी सपाटा, 9666, समापन समारोह में मुख्य अधिकारी डॉ. नाग मल, निदेशक एवं संस्थान राजभाषा कार्यालय समिति ने राजभाषा कार्य मूल्यांकन समिति द्वारा घोषित व्यक्ति, विभागीय/अनुभागीय पुरस्कार वितरित किये। सपाटा के दौरान आयोजित विभिन्न प्रतियोगिताओं (भाषण, कविता पाठ, हस्त-परिहास, व्यंग्य, निबंध एवं टिप्पणी लेखन) के भी पुरस्कार वितरित किये। मुख्य अधिकारी ने अपने भाषण में हिंदी के प्रयोग पर वचन देते हुए पुरस्कृत व्यक्तियों को बधाई दी एवं अन्य से अपील की कि वे अधिक से अधिक कार्य राजभाषा में करें।

Activities:
- Monitoring and review of kharif’ 96 programmes and experiments was undertaken by the Director at the Divisional level.
- The Extension and Training Division organised Kisan Goshthi on 18.9.96 at Kadera Kalan (District Lalitpur). It was attended by a large number of farmers, Extension Officers and Scientists of the Institute.
- A training programme on “Pasture and fodder development” was organised for World Bank (IEC Programme) assisted Govt. of Tamil Nadu, A.H. Departments. Staff from July 5-12, 1996. Twenty nine officers attended the programme.
- Field demonstrations for technology transfer were laid in 15 villages including twelve in UP and three in MP area.
- Eight trainees from Forest Training School, Jhabua (MP), Twelve trainee officers from Military Farm School and research Centre, Mecrut, thirty five farmers from National Watershed Project, Tikamgarh (MP) were extended need based training by our Extension Division.
Low cost implements and machinery developed at IGFRI

* Bullock drawn multicrop seed drill (0.8 ha/day).
* Bullock drawn and tractor drawn channel cum bund former (18 and 25 ha/day, respectively).
* Weeder cum mulcher (2 ha/day).
* Pitter disc (4 ha/day).
* Seed pelleting machine for pelleting seeds of range legumes with 100-120 kg dry pellets per hour.
* Grass seed collector suitable for collecting Cenchrus seeds (0.4 ha/dry).
* Rotary grass mower (2.4 ha/dry).
* Rotary disc mower for harvesting berseem, lucerne and oat (2.6 ha/day).
* Flail mower (1.6 ha/day).
* Hay Drier (0.6t/day).

For technological or commercial information please contact: Head, Division of Agricultural Engineering, IGFRI, Jhansi.

IGFRI offers expertise in:

* Productive grass-legume pastures.
* Tree based pastures.
* Revegetation of degraded land, mine spoils, ravines etc.
* Forage based watershed production.
* Year round forages for milkshed areas.
* Livestock production and management.
* Forage conservation.

For further information kindly contact: Director, IGFRI, Jhansi

AN APPEAL

To our Readers

If you wish to share any of your experiences relating to forage production, utilization, etc. with our other readers, you are welcome to write to the editor along with photographs, if any. We would be too happy to publish them in the Newsletter.

You can reach to us in person or through mail at:
Indian Grassland and Fodder Research Institute, Gwalior Road, Jhansi - 284003,
Telephones: (0517) 440908, 444385, 444771 Fax: (0517) 440833, E-mail: IGFRI @ x 400.NICGW. NIC. IN

To our technology users

If you are facing any problem or have any query on forage production technology kindly feel free to write to editor. All the information you require would be provided through these columns.

Supervision and Guidance: Dr. Bhag Mal, Director, IGFRI, Jhansi

Editors:
S.A. Faruqui
S.N. Zadoo
A.K. Shrivastava

Compilation:
G.P. Nigam
K.P. Rao

Assistance:
Prem Chand
M.C. Jetwani

Published by: Director, IGFRI, Jhansi
Printed at: Mini Printers, Jhansi