



# NEWS LETTER

## DEPARTMENT OF FORESTRY

INDIRA GANDHI KRISHI VISHWAVIDYALAYA, RAIPUR, C.G.

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**Dr.Lalji Singh**  
**Prof & Head**  
**Department of Forestry**

### FROM THE DESK OF HEAD OF DEPARTMENT

At the outset I would like to thank Honorable Vice-Chancellor Dr.S.K.Patil for bringing out the News letter by each and every department of the University. This will not only provide an opportunity to highlight the achievements every then and now rather it will also help to keep each department in momentum and progressive mode.

Department of forestry was established in the year 1994 with the aim to promote the avenues of forestry education in the state and develop into a leading department to cater the growing needs of teaching, research and extension, contribute significantly for the sustainable development of Forests and Environment. The mission of the department are as follows 1) to impart quality education and develop human resources to meet the increasing demands in forestry and allied sectors; 2) to undertake basic and applied research in Forestry for developing technologies and solutions needed for sustainable managements of forests and environment, 3) to impart extension services and consultancies to state agricultural, forest departments, public sector units, farmers, industries, NGOs and entrepreneurs and 4) to mainstream linkages and networking with national and International Institutes of Forestry and Allied disciplines to synergize the teaching and research areas. The commencement of PG and Ph.D. programme started respectively in the years 1997 and 2002. Priority research area of the department are Forest Ecology & Biodiversity Conservation; Agroforestry Technologies; Wasteland Development; Tree Improvement; Remote Sensing Applications; Non Timber Forest Products; Ethno Forestry ; Medicinal & Aromatic plants ;Climate Change Mitigation and Adaptations and National Agroforestry Policy 2014. Faculties of the department have handled 31 externally funded research projects. At present 4 research projects are going on in the department of which two are externally funded and two are university funded.

(Lalji Singh)

### Visit of accreditation team from ICFRE for assessment of teaching, research and extension activities of Forestry department IGKV, Raipur during 28-29 November 2016

ICFRE Accreditation team led by Dr. Ram Prasad Ex. PCCF M.P. and Dr. Anil Negi Scientist ICFRE Dehradun visited IGKV, Raipur on 28 & 29 November 2016 to evaluate the Forestry programme. An interactive meeting in the Chairmanship of Hon'ble Vice-Chancellor Dr. S.K.Patil with the visiting team was organized on 28<sup>th</sup> November 2016. During the meeting Dean, DRS, DES, DI and all faculty members of the department were present. Prof. & Head Department of Forestry presented the brief appraisal of the Department. During the meeting feedback from Hon'ble Vice-Chancellor, Dr. S.K.Patil, team members Dr. Ram Prasad, Dr. Negi, Dean, DRS and DI were received for the improvement, strengthening and upgrading the department. Later accreditation team assessed the different activities and achievements of last five year *i.e.* 2010-15 and seen the research and academic activities and gave



very valid suggestion to upgrade the Department of Forestry to College of Forestry and increase the intake of M.Sc. and Ph.D. students because the forest cover of Chhattisgarh is 41%. Therefore, there is need to pressing need to produce high level of trained human resource in forestry so as to manage the forest, making the suitable forest policy, conserving the forest and management in a scientific manners. Later team visited the field of Centre of Excellence on NTFP and MAP, RRL Laboratory, Laboratory of Soil Microbiology and Bio-control Lab followed by the visit of State Forest Research Institute. On 29<sup>th</sup> November 2016 team visited the KVK Dhamtari and Dugli Forest range under Dhamtari Forest Division to evaluate the progress of student's research.

At the end of 2 days visit team has recommended to sanction a budget of Rs. 2 crore from ICFRE to IGKV, Raipur for development of Forestry education in Chhattisgarh.



**Awareness programme conducted on 6-7 Feb 2017 regarding sustainable harvesting and scientific collection methods of NTFP at village Satbhaniya, Sihawa Shamtari, CG**

Dr. R.K. Prajapati, Professor Forestry visited at Sihawa, village Satbahniya along with M.Sc. & Ph.D. students and interacted with the tribal woman stake holder of NTFP and given lecture on methods of scientific collection, processing and value addition techniques of Non-Timber Forest Products.

**Selection of sites for M.Sc. and Ph.D. students for their thesis work at Dugli, Jabbara, Nagri and Sihawa of Dhamtari Forest Division of Chhattisgarh**



**Students thesis work on herbal and aromatic plant species under Agroforestry system**



**Karanj based Agroforestry**



**Mangium based Agroforestry**



**Oil extraction of Muskidana**

**Achievement of students**

Mr. Abhishek Raj, Ph.D. student has qualified the National Eligibility Test conducted by ASRB on 1st August, 2016 in the Discipline of Agroforestry for eligibility of Lectureship/Assistant Professorship.

## Externally funded Research Project

- Dr. Lalji Singh, PI National Carbon POOL (NCP) – Vegetation Carbon Pool (VCP) Funded by NRSC Hyderabad, Period from August 2015-Aug 2018, Budget: Rs.12. 74 5 lac.
- Dr. M.N.Naugraiya, PI & PS of CGCOST mini research project on “*Exploration of genetic diversity in Bamboo species in Baster plateau of Chhattisgarh*” CCOST/MRP/2015/ 1796 dated 03.11.2015).

## Ongoing research work of M.Sc. & Ph.D. Students

Names of Students	Thesis Title
<b>Ph.D.</b>	
Mr. Abhishek Raj	Effect of Site Quality on Biomass, Productivity and Storage and Sequestration of Carbon in Sal ( <i>Shorea robusta</i> ) in Tropical Deciduous Forest of Chhattisgarh.
Mr. Pratap Toppo	Studies on Tendu ( <i>Diospyros melanoxylon Roxb.</i> ) leaves mycoflora causes decay during storage and its Management through Botanicals in bidi Leaves of dry tropical forest of Chhattisgarh.
<b>M.Sc.</b>	
Mr. Tumesh K. Koshle	Growth and yield of organically grown Aswagandha ( <i>Withania somnifera</i> (L). Dunal) under Karanj, <i>Pongamia pinnata</i> based Agroforestry System in CG
Mr. Lokesh K. Chandrakar	Impact of Intercropping on growth and Productivity of Muskdana ( <i>Abelmoschus moschatus</i> Medic.) under <i>Acacia mangium</i> based Multitier Agroforestry system in Chhattisgarh.
Ms. Varsha Bhagat	Impact of intercropping on growth and yield of Brinjal [ <i>Solanum melongena</i> , (L)] under Karanj ( <i>Pongamia pinnata</i> ) Based Agroforestry system.
Ms. Kusum Banjara	Effect of auxin (IBA and NAA) on rooting of stem cutting of <i>Terminalia arjuna</i> (Roxb.) Wight & Arn. and <i>Terminalia catappa</i> (Linn.)
Mr. Shashank Gaurav	Biomass and Carbon Budget Along the Gradient of Disturbance in Tropical Deciduous Forest.
Mr. Shyam Singh Dugga	Species Composition, Regeneration and Diversity of Tree Layer in Varying site Quality of Tropical Mixed Deciduous Forest.
Mr. Yashwant Ratre	Comparative Analysis of Biomass Storage in an Age Series of Teak Plantation.
Mr. Pankaj K. Chandel	Documentation of Non-Timebr Forest Products Collection, Processing and Value Addition of Dhamtari Forest Area of Chhattisgarh.
Mr Md.Nuruj Jaman Islam	Selection & evaluation of elite trees from the progenies of <i>Dalbergia sissoo</i> Roxb. raised in plains of Chhattisgarh
Mr. Pankaj Gupta	Status of Minor Forest Producing Woody species in Khairagarh, Chhuikhadan and Gandai forest ranges of Khairagarh forest division in Chhattisgarh.
Mr. Shalabh Gupta	Status of Minor Forest Producing Woody species in Salhewara, North Bortalab and South Bortalab forest ranges of Khairagarh forest division of Chhattisgarh.
<b>M.Sc. degree Awarded</b>	
Ms. Subhadra Chandrawanshi	Impact of intercropping on growth productivity and oil yield of patchouli ( <i>Pogostemon cablin</i> Benth.) under multitier <i>Acacia mangium</i> based agroforestry system in Chhattisgarh
Ms. Veijneng Haokip	Biomass, carbon stock and carbon sequestration potential in <i>Acacia nilotica</i> - paddy based traditional agroforestry system
Mr. Nalish Anchal	Studies the Status of Minor Forest Producing Woody Species in Rajnandgaon, Baghnadi and Khuji Forest Division of Chhattisgarh.



## Awards / Honours / Recognitions

- Dr.Lalji Singh - Expert in Standing Selection Committee at JNKV, Jabalpur on 07 July 2016
- Dr.Lalji Singh delivered the lecture as resource person at CAZRI Jodhpur in Summer School on “Livelihood & Climate Change Mitigation & Adaptation through Agroforestry” on 17 & 18<sup>th</sup> Aug. 2016.
- Dr. Lalji Singh delivered lecture in Refresher Course on Environment on 15 &16 Sept.2016 at Guru Ghasidas Central University, Bilaspur.
- Dr.Lalji Singh - expert in the upgradation of JRF to SRF under Rajiv Gandhi National Fellowship in Department of Forestry at Guru Ghasidas University Bilaspur on 29 Dec.2016.
- Dr. M.N. Naugraiya, Chaired the session-II “Improvement Strategies with special Emphasis on Tree Genetics” in National Conference on ‘Forestry in India :Current Challenge ad Future Prospects’ at HFRI (ICFRE), Panthaghati, Shimla 15 to 18 Nov. 2016.
- Dr.R.K. Prajapati received best oral research paper presentation Award at Navasari Agriculture University Navasari, Gujarat on 23<sup>rd</sup> Dec. 2016

## Participation in Training, Seminar, Symposium, and Conference

Dr. M.N. Naugraiya	Case study: Trees outside the Forest in Raipur district of Chhattisgarh, in National Conference on ‘Forestry in India: Current Challenge ad Future Prospects’ at HFRI (ICFRE), Panthaghati, Shimla. 15 to 18 Nov 2016
Dr. R.K. Prajapati and Deepak Bogia	Seasonal variation in nutritional status of tree fodder and their utilization pattern in tribal and non tribal villages of Chhattisgarh, in 9 <sup>th</sup> NAB-National conference on New biological Researches: Opportunities and Challenges for sustainable development at Madurai Kamraj University Madurai. 11-12 August 2016
Dr. R.K. Prajapati and Subhdra Chandrwanshi	Effect of organic manure and fertilizers on growth and productivity of Patchouli ( <i>Pogostemon cablin</i> Benth.) under multitier <i>Acacia mangium</i> based agroforestry system in Chhattisgarh, in National Seminar on Forest and Tree-Based Land use system for livelihood, nutritional and environmental security organized by ISTS Solan at Navasari Agricultural university Navasari Gujarat. 21-23 Dec. 2016
Dr. S.L.Swamy	ERDAS Imagine Image Analysis and Geomedia for natural resource management at Department of Soil & Water Engineering IGKV, Raipur. 9 - 13 Jan 2017
Dr. S.L.Swamy	ARC-GIS Applications at Department of Soil & Water Engineering IGKV, Raipur. 31 <sup>st</sup> Jan. to 4 <sup>th</sup> Feb.2017

## Traditional Agroforestry practices in South Chhattisgarh region



Faculties : Dr. M.N. Naugraiya (Pr Scientist), Dr. R.K . Prajapati (Prof.), Dr. S.L. Swamy (Prof.), Shri. Pratap Toppo (AP), Smt. Sarita Bodalkar (AP) and Dr. Vijyalaxmi Kog (AP)