



# मौसम विज्ञान विभाग समाचार IMD NEWS

INDIA METEOROLOGICAL DEPARTMENT  
(Ministry of Earth Sciences)

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## हिन्दी दिवस समारोह

मुख्यालय में दिनांक 01.09.2014 से 16.09.2014 तक हिन्दी पखवाडा मनाया गया। इस दौरान विभिन्न हिन्दी प्रतियोगिताओं जैसे निबंध रूपांतरण, हिन्दी टंकण, हिन्दी श्रुतलेखन, हिन्दी आशुभाषण, एवं हिन्दी वाद विवाद प्रतियोगिता का आयोजन किया गया एवं हिन्दी दिवस समारोह 16 सितम्बर 2014 को वृष्टि सभागार में आयोजित किया गया। समारोह की अध्यक्षता मौसम विज्ञान के महानिदेशक डॉ लक्ष्मण सिंह राठौड़ ने की। समारोह का शुभारम्भ महानिदेशक महोदय,, डॉ लक्ष्मण सिंह राठौड़, डॉ. एल. आर मीणा, वैज्ञानिक एफ, श्री ए. के. शर्मा, वैज्ञानिक एफ द्वारा सयुक्त रूप से दीप प्रज्ज्वलित करके किया गया। मौसम विज्ञान के महानिदेशक ने अपने अध्यक्षीय भाषण में कहा कि हिन्दी पखवाडा / हिन्दी दिवस के आयोजन का मुख्या उद्देश्य सरकारी कार्य में हिन्दी को बढ़ावा देना है। अध्यक्ष महोदय ने विभाग के सभी कार्मिकों को कार्यालय का कार्य अधिक से अधिक हिन्दी में करने की सलाह दी तथा राजभाषा विभाग द्वारा निर्धारित किए गए लक्ष्यों को प्राप्त करने के लिए और अधिक प्रयास करने का अनुरोध किया एवं राजभाषा के प्रचार-प्रसार में अपना अमूल्य योगदान देने पर भी जोर दिया।



महानिदेशक का अध्यक्षीय भाषण



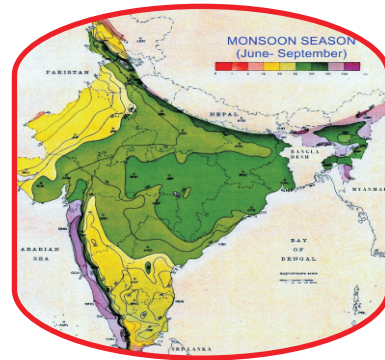
मौसम मंजूषा का विमोचन

इस समारोह में हिन्दी प्रतियोगिताओं के विजेताओं को नकद पुरस्कार और प्रमाण पत्र प्रदान किए गए। अखिल हिन्दी दिवस के अवसर पर माननीय गृह मंत्री श्री राजनाथ सिंह द्वारा भेजे गए संदेश को सुश्री रेवा शर्मा ने सभागार में पढ़कर सुनाया और हिन्दी दिवस की शुभकामनाएँ दी। इसके बाद विभागीय हिन्दी गृह पत्रिका मौसम मंजूषा के 19 वें अंक का महानिदेशक महोदय द्वारा विमोचन किया गया।

वर्ष 2013-2014 में हिन्दी में सबसे अधिक पत्राचार करने के लिए श्री आर. पी. लाल, वैज्ञानिक ई बजट एवं योजना, नई दिल्ली को राजभाषा चल-शील्ड प्रदान की गई इस समारोह में बाल कलाकारों और विभाग के कार्मिकों द्वारा मनोहर नृत्य, रोचक एवं ज्ञानवर्द्धक सांस्कृतिक कार्यक्रम भी प्रस्तुत किया गया।



महानिदेशक द्वारा प्रमाण पत्र लेते कु. राजलक्ष्मी



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## INTERNATIONAL ASSIGNMENTS

**Ms. Maduri M. Musale**, S.A., ADGM(R), Pune was tour to attend ICTP IITM COLA Targeted Training Activity TTA Challenges in Monsoon Prediction, Trieste, Italy during the period 23 June to 4 July, 2014.

**Shri B. Mukhopadhyay**, LACD, ADGM(R) attended TECO and a meeting of WMO-CCL-16 at Heidelberg, Germany from 29 June to 10 July.

**Shri B. Mukhopadhyay**, LACD, ADGM(R) Pune attended the WMO Conference on Climate Services-Building CLIPS Legacy during 30 June to 2 July 2014 followed by 16<sup>th</sup> Session of WMO Commission for Climatology (CCL)Heidelberg, Germany during the period 3 to 8 July, 2014.

**Shri D. K. Malik**, Scientist 'E', New Delhi to attended the Technical Conference on Meteorological and Environmental Instruments and Methods of Observations (TECO-2014) St. Petersburg, Russian Federation during the period from 7-9 July 2014.

**Dr. S. K. Roy Bhowmik**, Sc.F, IMD, New Delhi deputed as Head Theoretical Division for a period of three years w.e.f. 13 July, 2014 in SAARC Meteorological Research Centre, Dhaka, Bangladesh.

**Shri J. K. S. Yadav**, Sc.D, IMD, Pune participate International Training Course on WMO Indian System (WIS) and Tehran GISC WMO Tehran, Islamic Republic of Iran during the period 4-6 August, 2014.

**Shri R. R. Mali**, DDGM (SI) participated in the extraordinary session of the Commission for Basic Systems of WMO held at Asuncion, Paraguay during 8-12 September 2014.

**Dr. N. Chattopadhyay**, DDGM (Agrimet) attended CAgM Management Group meeting and GFCS Implementation Meeting in Geneva, Switzerland organised by WMO, during 25 September to 1 October.

**Dr. N. Chattopadhyay**, Sc.E, IMD, Pune to participated in first CAgM Management Group Meeting at WMO H.Q. & 2<sup>nd</sup> co-ordination meeting on implementation of Global framework of Climate services (FGCS), Geneva, Switzerland during the period 29 September to 1<sup>st</sup> October, 2014.

**Dr. M. Mohapatra**, Sc.E, Dr. Kamaljit Ray, Sc.E, New Delhi, Shri C. S. Tomar, Sc.D, participated in International Workshop on Dvorak Technique and Tropical Cyclone Forecasting, Muscat, Oman during the period 28 September to 2<sup>nd</sup> October, 2014.

## MEETINGS

**Dr. Geeta Agnihotri**, Director participated in State level committee meeting to monitor "Crop weather watch & Drought Monitoring" at Vidhan Soudha, Bangalore on 14<sup>th</sup> July.

**Dr. N. Chattopadhyay**, DDGM (Agrimet), Pune participated and discussed with delegations from Nepal for on the establishment of AAS in Nepal on 14 to 15 July 2014 at New Delhi.

**Shri B. Puttanna**, Director-In-Charge participated in State level Committee on Crop Weather watch & Drought Monitoring meeting held with Additional Chief Secretary and Development Commissioner at Vidhana Soudha on 21 and 28 July.

**Dr. Jayanta Sarkar**, Scientist 'E' M.C. Ahmedabad attended three meetings with Hon'ble Chief Minister of Gujarat Smt. Anandiben Patel at Gandhinagar on 24, 31<sup>st</sup> July and 9 September regarding to Rainfall Scenario during Monsoon 2014 over the Gujarat State.

**Dr. N. Chattopadhyay**, DDGM (Agrimet) and Dr. K. Ghosh, Scientist D attended a meeting for Scientific applications of 'INSAT-3D data, data quality and validation and the road map for future' organized by SAC Ahmadabad on 30<sup>th</sup> and discussed on 'Establishment of state-of-art ET network in the country in collaboration with Space Application Centre (SAC) on 31 July 2014.

**Dr. S. C. Sahu**, Sc-E M.C. Bhubaneswar, participated attended meeting of the first state level steering committee for Ministry of Agriculture on Climate Change Knowledge Network for Indian Agriculture (CCKN-IA) and delivered lecture on "An overview on weather observations & forecast suggested contribution to CCKN-IA" at Bhubaneswar on 05 August 2014.

**Dr. R. K. Jenamani**, Scientist 'E' attended MoES a Brain Storming Meeting on "Development of meso scale models severe weather forecast system" on 8-9 August organized by IMS, H.Q. New Delhi.



**Shri R. Balasubramanian**, Scientist 'D' attended the Quarterly Review Meeting for review of the IMD-NABARD project at KVK Washim on 4 September 2014.

**Dr. M. Mohapatra**, Scientist 'E' visited INCOIS, Hyderabad on 11 September 2014 to participate in a working group meeting on Ocean data and product utilization.

**Mrs. Reva Sharma**, Senior Hindi Officer participated quarterly meeting for Rajbhasha implementation committee at MoES Delhi on 25<sup>th</sup> September.

## Pre-Cyclone Meet

A meeting was held in IMD on 23 and 24 September, 2014 with participation of representatives from IMD, NCMRWF, IAF, Indian Navy, NDMA, MDM, NDRF, IIT Delhi and Central Water Commission to evaluate the current status of preparedness and plan further for ensuing cyclone season October to December, 2014.

### Officer-in-Charges Meet



RMC Chennai, DDGM addressing the O/In-charges

An interactive session was organized at RMC, Chennai for officers-in-charge of various units of the region. They were briefed about the surface, upper air and remote sensing based atmospheric science data generation, processing and archiving capabilities, tools available for promoting research, papers published by research scholars and officers of RMC Chennai and academic interactions with Departments of University of Madras and other academic institutions.

### CELEBRATION

#### Independence Day



68<sup>th</sup> Independence was celebrated on 15<sup>th</sup> August 2014 at H.Q. IMD, New Delhi, all RMC's and MC's as well as other sub-offices situated at remote places of the country. The national tricolor flag was hoisted by concerned heads/officer in charges of the offices.

#### Hindi Diwas at sub offices



Hindi Diwascelebration at RMC Chennai

Hindi Diwas and Hindi Pakhwara was celebrated in the office of ADGM(R), Pune RMC's, MC's and other sub-offices of the department. It was celebrated in Regional Meteorological

Centre, Chennai from 15<sup>th</sup> to 29<sup>th</sup> September, 2014. The inaugural function was held on 15<sup>th</sup> September. Dr. K. Murali, Head, Hindi Vidhyalaya, Chennai, Chief Guest, delivered the inaugural address. Various competitions were held for the staff members. During the fortnight, two day workshop was conducted for the staff members at RMC Chennai on 24-25 September 2014.



Prize distributin , Hindi Diwas at MC Goa

MC Goa celebrated the Hindi Pakhwara from 1<sup>st</sup> to 15<sup>th</sup> September by conducting different competitions for the officers and staff and Hindi Dewas was celebrated on 24<sup>th</sup>. On this date the Chief Guest, Smt. Meena Srivastav, Asst. Director, Official Language and Chief Commissioner, Income Tax Department, Bangalore and Goa were present, the winners were given prizes. distributed the prizes.

#### Sadhbhavna Diwas



Shri B. Puttanna, Sci. 'E' administering pledge

The birth anniversary of late Prime Minister of India Shri Rajiv Gandhi on 20<sup>th</sup> August, is observed as "Sadhbhavna Diwas" nation-wide every year. The theme of the Sadbhawana Diwas 2014 was to promote national integration and communal harmony among people of all religions, languages and regions. The idea behind observance of Sadbhavana Diwas is to eschew violence and to promote goodwill among the people. On this occasion Sadbhwana pledge was administered to all the employees of department.

### WORKSHOPS

**Shri V. K. Soni**, Sc. 'D' attended a workshop on "Evaluation of Research for Planning the 34<sup>th</sup> ISEA organized on 2-3 July, 2014 at NCAOR, Goa. and gave a presentation on IMD future plan for 34<sup>th</sup> ISEA programme.

**Shri U. R. Joshi**, Scientist 'E' attended workshop on 'Use of Uniform Modeling Language for inter operability of National Data Registry' organized by DST at K SC ST, Bengaluru from 16-18<sup>th</sup> July.

**Smt. V. K. Mini**, Director participated in the workshop on "Climate Resilient Infrastructure Services" in "Panaji Sustainable Initiatives Conclave" organised by Corporation of City, Panaji on 26<sup>th</sup>.

**Shri Ashok Kumar Sharma**, Sc-F attended the "Users workshop on INSAT-3D Utilization for Science and application" at SAC, Ahmadabad on 30 July.

**Dr. M. Mohapatra**, Scientist-E, RSMC participated in INSAT-3D inset workshop organised by ISRO at Ahmedabad on 30<sup>th</sup> July 2014.

सुश्री रेवा शर्मा वरिष्ठ हिंदी अधिकारी ने भारतीय उष्णदेशीय मौसम विज्ञान संस्थान पुणे द्वारा दिनांक 30, 31 जुलाई को पुणे में आयोजित राष्ट्रीय हिंदी वैज्ञानिक संगोष्ठी में भाग लिया ।



**Shri S. B. Thampi**, Scientist 'E' and **Dr. S. Balachandran**, Scientist 'E' a workshop on Integrating Climate Change Concerns into Development Programmes' on 19 August 2014 organised by Dept. of Environment at MS Swaminathan Research Foundation, MSSRF Chennai.

**Dr. P. C. S. Rao**, Scientist 'D' participated through SKYPE about Met Area VIII(N) and the Quality management approach in Continuous Improvement for Marine Weather Information Services in the Second Maritime Safety Services Enhancement Workshop organized by WMO during 18-22 August 2014 at Wellington, New Zealand.

**Shri B. Puttanna**, Scientist 'E' attended a Workshop on "Atmospheric Science" at National Degree College Basavangudi, Bangalore on 25 August, 2014.

**Shri J. P. Gupta**, Scientist 'E' attended a seminar on Climate Change and Agrometeorological Advisories to the farmers on 15<sup>th</sup> September organized by Akhil Bharat Dalit Vikas Parishad, Lucknow. He delivered on Vital role of IMD on Agromet Advisory Services.

**Dr. N. Chattopadhyay** attended workshop on capacity building for Crop Insurance on 19<sup>th</sup> September 2014 organised at Mumbai by Institute of Actuaries of India

### Workshop on Crop Simulation Modelling

IMD in collaboration with Rajasthan Agricultural Research Institute, Durgapura, Jaipur (KNAU, Jobner) organized a working group meeting cum workshop on use of crop simulation model for decision making and yield forecasting at Jaipur during 15<sup>th</sup> to 19<sup>th</sup> September 2014. Sixteen Technical officers from AMFUs participated in this workshop.

### Workshop on Severe Weather Events



A workshop on users' meet related to severe weather events was organized on 8 July 2014 at Pantha Nivas, Bhubaneswar. Shri jugal Kishore Mohapatra, IAS, Chiefsecretary, Govt. of Odisha was the Chief Guest and Dr. L. S. Rathore, DGM, IMD, New Delhi, presided over the meeting. Shri P. K. Mohapatra, IAS, SRC, Dr. D. Pradhan, DDGM, RMC Kolkata, Dr. A. K. Sharma, DDGM (A & S), New Delhi, and other scientist of the department, attended the meeting. Dr. M. Mohapatra delivered a lecture on severe weather monitoring and forecasting in this workshop.

### Enhanced and Unique Cyclonic Activities



A two day workshop on 'Enhanced and Unique Cyclonic Activity during 2013' was organised by Cyclone warning Division, India Meteorological Department, New Delhi on 24 & 25 July 2014 at New Delhi. It was participated by 80 delegates from various institutes of the country including the renowned scientists in the field. 54 papers were presented in the workshop on various themes. A book of abstract and a book on Climatology of Jammu and Kashmir were released by Prof. S. K. Dube, Vice Chancellor, Amity University, Rajasthan, who was the chief guest during the inaugural session. A number of recommendations has been adopted for future action so as to improve further the cyclone forecast and warning services of IMD.

### AWARDS AND HONOURS

#### Leadership for 34<sup>th</sup> ISEA, programme

NCAOR, Goa organized a meeting National Coordination Committee for Polar Research (NCPP) under the Chairmanship of Dr. Shailesh Nayak, Secretary, MoES, New Delhi on 28<sup>th</sup> July, 2014 at MoES, New Delhi. Shri K. C. Bhindwar, A. M.-I for participation in the meeting and discussed the programme. It is honour for the department that Shri K. C. Bhindwar, A.M.-I given the Leadership responsibility for 34<sup>th</sup> ISEA Bharti team.

### President's Award



*Shri M.R. Kalve receiving the citation from the Hon'ble President*

The article 'Safalta Ka Mull Mantra Samay Ka Sadupyog' authored by Shri M. R. Kalve was adjudged as second prize by Rajbhasha. On the occasion of Hindi diwas 14<sup>th</sup> September Shri M.R. Kalve received the prized from the Hon'ble President of India which consist of a Citation and cash prize of Rs. 20,000/- which is not only honour for him but it is the honour for IMD also.

### MoES Award



*Shri D. P. Nayak, A.M.-I Receiving the Award*

The Ministry of Earth Science celebrated its Foundation Day on 27<sup>th</sup> July 2014 at Vigyan Bhawan, New Delhi. It was chaired by which witnessed Dr. Jitendra Singh, Minister of State (Independent Charge) for Earth Sciences as Chief Guest and Prof. Govardhan Mehta, National Research Professor & Jubilant-Bhartia Chair, University of Hyderabad, Hyderabad, as the Guest of Honour. On this occasion a galaxy of Scientists and budding talents from institutions across the country were awarded and given certificates of merit. Shri Subhash Chander Bhan, Scientist 'E' and Shri Narendra Nigam, Scientist 'E' IMD – They have made outstanding contributions in Group 'A' Officers. The awards were also given to the best employee Group B, C and D employee of the department. Shri D. P. Nayak, Assistant Meteorologist Gr. I of Cyclone Warning Division was conferred Best Employee Award on this occasion.

**Dr. M. Mohapatra**, Scientist-E, RSMC acted as external examiner for Ph.D examination of a student of Gujarat University, Ahmedabad on 31<sup>st</sup> July 2014.

### LECTURES

**Dr. S. C. Sahu**, Scientist 'E', M. C. Bhubaneswar, Delivered lecture on "Climate change and implications for water conservation" sponsored by DoPT, Govt. of India at Gopabandhu Academy of Administration on 17 July 2014.

**Shri B. Puttanna**, Scientist 'E' delivered a talk on "Flood forecasting and early warning system" on 17 July 2014 at Administrative Training Institute, Mysore Govt of Karnataka.

**Shri Sonam Lotus**, Scientist 'C' delivered a lecture on 'Climate Change Reality' at a seminar organized by department of Forest, Jammu and Kashmir at SKAUST on 5<sup>th</sup> August.

**Dr. Somenath Dutta**, DDGM(Trg) has delivered a lecture on "Cyclone & Case study" on 18<sup>th</sup> July at Faculty of CBRN Protection, College of Military Engineering, Pune.

**Shri B. Mukhopadhyay**, LACD ADGM(R) delivered a talk on "New Observational System in Meteorology" at IIT Mumbai on 18<sup>th</sup> July.

**Dr. P. C. S. Rao**, Sci. "D" delivered at lecture on 'IMD's Warning Mechanism' the terminology used in warning like rains, heavy rains, very heavy rains etc. on 11<sup>th</sup> August, 2014 at YASHADA, Pune.

**Dr. P. Guhathakurta**, Scientist 'E' delivered two lectures on the topics "Rainfall analysis for different crop operations" and "Drought monitoring assessment and forecasting" in the Training Programme entitled, "Agrometeorology towards better advisories for serving and users requirements" organized by IMD in collaboration with GIZ – India at Pune from 25<sup>th</sup> to 29<sup>th</sup> August.

**Dr. Medha Khole**, DDGM(WF), Pune delivered lectures on southwest monsoon and its semi permanent systems and synoptic conditions associated with active break and withdrawal of southwest monsoon at forecasters training course held at DGM New Delhi during 1<sup>st</sup> to 6<sup>th</sup> September 2014.

**Dr. D. S. Pai**, Scientist 'E' participated and delivered a key note address at an International Conference on Data Science and Engineering held at Kochi on invitation from the Department of Computer Science, Cochin University of Science and Technology (CUSAT) on 28<sup>th</sup> August.

**Shri M. K. Gupta**, DDGM RMC Guwahati delivered an invited talk on 'Early warning system for Cyclone' and chaired on Technical session at Regional Conference on 'Geoinformatics for Early Warning of Disasters with Special Emphasis on NE Region' organised by Indian Society of Geomatics (ISG) on 18<sup>th</sup> September at NEHU Shillong.



**Dr. Jayanta Sarkar**, Scientist "E", M.C. Ahmedabad delivered a lecture on "Cyclone Early Warning System and Dissemination" in the training programme at Gujarat Institute of Disaster Management (GIDM), Gandhinagar on 7 August 2014.

**Dr. Geeta Agnihotri**, Director delivered a lecture on "Weather forecasting system during floods" on 19 September 2014 at 70<sup>th</sup> All India Waterman ship Course conducted by Home Guards and Civil Defence Academy, Bangalore.

**Dr. M. Mohapatra**, Sc-E RSMC, New Delhi delivered a lecture on tropical cyclone in a training programme on weather and climate forecasting organised by BIMSTEC (Bangladesh India Myanmar Sri Lanka Technology Cooperation) centre at NCMRWF, Noida on 28<sup>th</sup> August.

**Shri Anand Sharma**, Sc. 'E' M.C. Dehradun delivered a lecture on "Solar Radiation and Stability and instability of the atmosphere" at Doon University on 23<sup>rd</sup> and 30<sup>th</sup> August, 2014 respectively.

## COLLABORATIONS

### Satyabhama University



An interactive session was convened by DDGM, RMC, Chennai on 7 August 2014 with senior scientists of RMC Chennai and Dr. B. Sheela Rani, Vice Chancellor and Scientists from Centre for Remote Sensing and Geoinformatics/ Earth and Atmospheric Sciences, Sathyabama University on possible research work under collaboration with RMC Chennai and Sathyabama University jointly

### Providing Satellite imagery

The satellite pictures of cyclones have been provided to Ms. Malini Shankar for publication in her multimedia book on Disaster Management entitled "preparing the day after".

### Agreement between WMO & IMD

An agreement signed between WMO & IMD for an international training course on "Instruments Maintenance and calibration". The syllabus for the same has been prepared and was sent to WMO for approval. This international training course was scheduled to be conducted for international/national personnel during November 2014.

### Collaboration for RONAC project

A collaborative project titled "Research on Organization of Atmospheric Convection (RONAC)" is undertaken with Space Physics Laboratory, ISRO, Thiruvananthapuram. Doppler weather radar data archived at all DWR stations of IMD will be used in this project. DDGM, RMC Chennai and Director-in-charges of CWC Visakhapatnam & CDR Machilipatnam are Co-Principal Investigators for the project and Shri S. B. Thampi, DDGM is the nodal officer for above project. About 31.3 GB of raw data of DWR Chennai was provided to Space Physics Laboratory, VSSC, Trivandrum in connections with RONAC on 20<sup>th</sup> August.

## TRAININGS

### A Training programme on 'Agrometeorology'



Agrimet Division, IMD, Pune in association with GIZ (German International Cooperation) organized 5 days customized training programme on 'Agrometeorology towards better advisories for serving end users' requirement' from 25<sup>th</sup> to 29<sup>th</sup> August 2014. Total 39 participants attended the training. Participants from State Department of Agriculture, Krishi Vigyan Kendras (KVKs) and Agromet Field Units (AMFUs) of Maharashtra, Jharkhand and Odisha participated in this training.

### Training for Engineering students

14 nos. engineering students from different Institutes have been attached for their six week summer training project in IMD (Sat. Met).

### Short Term Forecaster Training

**Shri Ajit Kumar Majhi**, AM-I and **Shri Saroj Kumar Pattanaik**, AM-II participated on "Short Term Forecaster Training" organized at NWFC New Delhi, during 01<sup>st</sup> to 6<sup>th</sup> September, 2014.

### Trainees from Naval Base, Kochi

11 trainees of Basic 'Q' Met Course and one instructor from School of Naval Oceanology and Meteorology, Naval Base, Kochi has visited RMC, Chennai during 08-11 April 2014. They were familiarised with departmental activities.

## Pre Antarctica training

Seven departmental nominees for participation in 34<sup>th</sup> ISEA for Maitri and Bharti station Antarctica have undergone Pre Antarctica training at IMD office Pune during 21<sup>st</sup> July to 8<sup>th</sup> August, 2014. They also completed Snow Acclimatization training at ITBP, Auli conducted by NCAOR, Goa.

## Farmers' Awareness Programme



Farmers' Awareness Programme on "contingent planning" were conducted at Seminar Hall, DRS Building, IGKV on 6<sup>th</sup> August 2014 under Gramin Krishi Mausam Sewa Project. About 60 farmers in and around Raipur participated in the seminar. The distinguished dignitaries covered various aspects for crop planning. Shri M. L. Sahu Scientist 'E', M.C. Raipur delivered a lecture on latest technology in weather forecasting. Professor ASRAS Sastri talked about date palm crop which is a desert crop is now grown by villagers of Durg district. This type of desert crop could not be even thought of a few years ago. Dr. Sanjay Sharma (Scientist Entomology), made presentation on insect-pests of rice crop in detail. He cautioned the farmers not to mix the different kinds of insecticides which will end up with dangerous situation. Dr. C. P. Khare (Scientist pathology) focused on symptoms and control measures of common fungal and bacterial diseases of vegetable crops and he cleared the doubts of farmers on management of diseases. Dr. S. R. Patel, HOD Dept. of Agrometeorology, IGKV Raipur, focused on climate change which occurred in the Chhattisgarh state and focused on weather based crop insurance scheme and encouraged the farmers to go for weather insurance policy to tackle unprecedented weather aberrations. The programme achieved its objectives.

## INSTALLATIONS

### Installation of IP-PBX

An unified communication system (IP-PBX) has been installed at RMC Chennai campus replacing obsolete EPABX system for better communication within office and with outstations.

### Agrometeorological Observatory

An Agrometeorological Observatory was inaugurated on 4<sup>th</sup> August 2014 at Shreemant Shivajiraje College of Horticulture in the presence of Hon. Shreemant Ramraje Naik Nimbalkar, Executive President, Planning Commission, Government of Maharashtra. Dr. N. Chattopadhyay, DDGM (Agrimet) attended the inaugural function of 'Opening of Agro-Meteorological Observatory' at College of Agriculture, Phaltan on 4<sup>th</sup> August 2014.

## Automatic Weather Observing System



Hon. Minister MoES, inaugurating AWOS

Automatic Weather Observing System (AWOS) was installed at Sanjhi Chhat, Katra, Vaishnodevi. The system was inaugurated by the Hon. Minister for Science & Technology & Earth Sciences, Dr. Jitendra Singh on 14 September 2014. Shri A. D. Tathe, Scientist 'D' made a presentation on the AWOS with live demonstration, during the inauguration.

## AIR/TV Programme

### RSTV's Telecast Programme

Rajya Sabha TV celebrated the event of Mangalyaan entering the orbit of planet Mars with a month long coverage named as 'RSTV's Science Festival'. Under the theme 'Science in India' RSTV telecast following programme

(a) An 30 minutes duration interview of DGM on 'Advances in Cyclone Forecasting' was broadcasted on 23 August, 2014 at 10 am & 6 pm.

(b) Life Panel Discussion on 'High Impact Weather Event' with special emphasis on 'Cyclone' during 1900-2000 hrs IST of 20 August. The panellists were Dr. K. J. Ramesh, Advisor, MoES, Dr. M. Mohapatra Head RSMC and Dr. K. J. Anand Kumar, NIDM.

**Shri B. Puttanna**, Scientist 'E' has participated in an Interview on "Monsoon in the state" at All India Radio Station, Bangalore and telecasted at 1850 hrs on 8 July 2014. He also participated in live Radio Programme "Lunch Box" at All India Radio Station Bangalore on 9 July 2014.

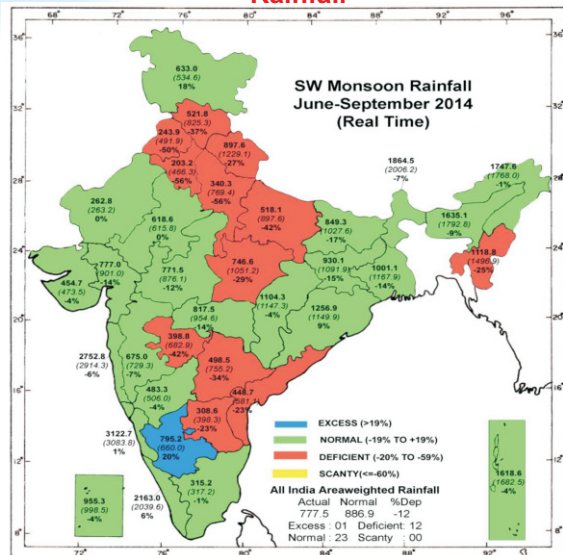
**Shri S. B. Thampi**, DDGM, RMC Chennai participated in the Doordarshan Kendra (Podhigai) discussion programme on Monsoon, Agriculture and Water Resource which was telecasted on 19<sup>th</sup> July 2014 at 2130 hrs IST.

**Dr. R. Suresh**, Sc-E, AMO Chennai talked at AIR about Tropical Cyclone, its genesis, advancement, prediction, precaution and the efforts by IMD for early warnings which were broadcast on 11<sup>th</sup> July.

**Shri Badrinath Vishnoi**, Scientist 'E' participated on a talk on 'monsoon' in AIR, Jaipur on dated 21<sup>st</sup> August.

SELIENT FEATURE OF SUMMER MONSOON

Rainfall



Sub-Divisionwise rainfall distribution

(a) For the country as a whole, the rainfall for the season (June-September) was 88% of its long period average (LPA) as against updated Long Range Forecast of 87%± 4% of LPA.

(b) The seasonal rainfall for the country as a whole has been 88% of the LPA Long Range Forecast Observed for four broad homogeneous Regions is as follows:

- Northwest India 85% ± 8% , 79%
- Central India 94± 8% , 90%
- South Peninsula 93%± 8%, 93%
- East & Northeast India 99%± 8%, 88%

(c) Observed rainfall for the country as a whole during the month of July & August was 90% & 91% of the LPA against the forecast of 93%± 9% & 96%±9% of LPA respectively

(d) Out of the total 36 meteorological sub-divisions, 23 sub-divisions constituting 67% of the total area of the country received normal season rainfall and 12 sub-divisions received deficient season rainfall. South Interior Karnataka received excess rainfall.

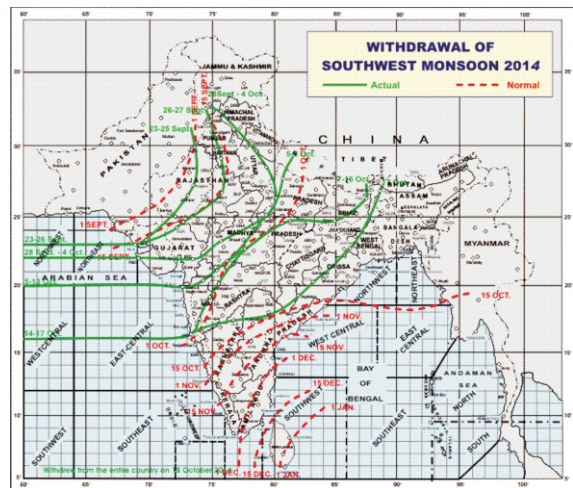
WITHDRAWAL OF MONSOON

Conditions for withdrawal

(a) Withdrawal from extreme north-western parts of the country is not attempted before 1<sup>st</sup> September.

(b) The following major synoptic features are considered for the first withdrawal from the western parts of NW India after 1<sup>st</sup> September.

- (i) Cessation of rainfall activity over the area for continuous 5 days.
- (ii) Establishment of anticyclone in the lower troposphere (850 hPa and below).
- (iii) Considerable reduction in moisture content as inferred from satellite water vapour imageries and tephigrams.



The weather over the western parts of Rajasthan remained mainly dry from 17<sup>th</sup> September. A change in the lower tropospheric circulation pattern over the region from cyclonic to anti cyclonic during 16<sup>th</sup> - 17<sup>th</sup> September also made conditions favorable for the withdrawal of southwest monsoon from the region. Subsequently, withdrawal of monsoon from northwestern most parts of the country commenced on 23<sup>rd</sup> September. It withdrew from some parts of west Rajasthan and Kutch on 23<sup>rd</sup> September and from some parts of Punjab, Haryana and Gujarat Region, some more parts of Kutch area and remaining parts of west Rajasthan on 26<sup>th</sup>. On 28<sup>th</sup> September, it further withdrew from remaining parts of Punjab, Haryana, Chandigarh & Delhi and east Rajasthan; some parts of Jammu & Kashmir, Himachal Pradesh, East Uttar Pradesh, Madhya Pradesh and Saurashtra; most parts of west Uttar Pradesh and some more parts of Gujarat Region, Kutch and north Arabian Sea. As on 30<sup>th</sup> September, the withdrawal line passed through Jammu, Una, Bareilly, Kanpur, Nowgong, Ujjain, Vadodara, Porbandar, Lat. 22°N / Long. 65°E and Lat. 22°N / Long. 60°E.

PUBLICATIONS

- “ Monsoon 2013 – A Report”, D. S. Pai and S. C. Bhan, Met. Monograph No. ESSO/IMD/SYNOPTIC MET/01-2014/15.
- “ Disastrous Weather Events - 2012” and Climate of Jammu and Kashmir.

A paper entitled “Observed changes in southwest monsoon rainfall over India during 1901-2011” by P. Guhathakurta, M. Rajeevan, D. R. Sikka and Ajit Tyagi. “International Journal of Climatology”.

A paper entitled “MJO and the cyclogenesis in Tropical South Indian Ocean” by P. Chandrashekar Rao and Archana S. Shinde, Proceedings of Second WMO International Conference on Indian Ocean Tropical Cyclones and Climate Change.

A paper entitled, “Analysis of the daily rainfall events over India using a new long period (1901-2010) high resolution (0.25 x 0.25) degree gridded rainfall data set” by D. S. Pai, Latha Sridhar, M. R. Badwaik and M. Rajeevan online in “Climate Dynamics”.

The Tropical Cyclone Operational Plan for North Indian Ocean (TCP-21), 2014 edition by RSMC, New Delhi, published by WMO. (<https://www.wmo.int>)

