

OFFICE OF THE ADDITIONAL DIRECTOR GENERAL OF METEOROLOGY
(RESEARCH) PUNE 411 005.

PROGRESS REPORT FOR THE MONTH OF NOVEMBER 2015

1. MAIN EVENTS-

- 1.1 Shri B. Mukhopadhyay, LACD ADGM(R) attended CAGM/CAS international Conference on Atmospheric Chemistry and Agricultural Meteorology on 2nd Nov.2015 at Pune.
- 1.2 Shri B. Mukhopadhyay, LACD ADGM(R) attended the conference on “10th Biennial Flagship Conference Agri. Corp 2015 as a Chairperson and Panel member on 3rd November 2015 for session “Emerging Technologies for Value Addition and Risk Mitigation” at Mumbai.
- 1.3 Shri B. Mukhopadhyay, LACD ADGM(R) was on tour to Kolkata from 5th to 6th November 2015 to attend workshop on POSCO (ERLDC) on 6th November Joint Workshop and Meeting (Power System Operation Corporation).
- 1.4 Dr. L.S. Rathore, DGM was on tour to Pune during 1-7 for attending CAGM/CAS International Conference on Atmospheric Chemistry and Agricultural Meteorology.
- 1.5 Shri B Mukhopadhyay, LACD ADGM(R) attended “Foundation Day” function 2015 of IITM, Pune on 17.11.2015.
- 1.6 A Revised Committee constituted for the preparation of RFP for the “Digitization of Autographic Charts”, has been forwarded to HQrs., New Delhi for accord of approval.
- 1.7 Hqrs. accorded approval for the proposal submitted by Dr. JUN Matusmoto, Tokyo Metropolitan University, JAPAN for the digitisation of data for the period 1891 -1946 from IMD publication “Daily Rainfall of India”, in collaboration with IITM, Pune. The same has been conveyed to Dr. JUN Matsumoto with copies to IITM.
- 1.8 Supply order was issued to M/s Toshwin Analytical (P) Ltd. for the purchase of UV-Visible spectrophotometer.
- 1.9 RFP for development of “Fully Integrated user friendly software for Processing and Quality Control of Upper Air data” has been sent to HQ for approval.
- 1.10 EKI Energy Services Ltd., Indore accepted the work order for the tender “Hiring Consultancy Services for Obtaining ISO 9001: 2008 Certification for Climate

Division”, at IMD, Pune.

2. **INTER DEPARTMENTAL MEETINGS** - NIL

3. **DEPARTMENTAL AND OTHER MEETINGS**

3.1 The 318th Science Committee Meeting was held on 30th November 2015 at 1130hrs. IST in the Conference Room.

Dr. A. K. Srivastava, Scientist ‘E’ gave a scientific presentation on “Circulation Anomalies during JAS month of 2015 vis a vis same for few other El-Nino years”.

4. **RESEARCH** –

- Chemical Analysis of Precipitation Samples has completed as follows:

- 50 samples for pH & Conductivity.
- 30 samples analysed for Calcium.
- 30 samples analysed for Magnesium.
- 30 samples analysed for Potassium.
- 30 samples analysed for Ammonium.
- 30 samples analysed for Sodium.

- Aethlometer was installed at Pune.

5(A) **SPECIAL SERVICES**

5.1 Input for framing reply to the following parliamentary Questions were communicated to DGM (NWFC), New Delhi.

- i) Lok Sabha priority unstarred question Dy. No. 1955 due for answer on 02-12- 2015 regarding “Monsoon” .
- ii) Rajya Sabha priority unstarred question Dy No. 1983 due for answer on 02-12-2015 regarding “Weather Forecast”.
- iii) Rajya Sabha priority unstarred question Dy No.U 592 due for answer on 03-12-2015 regarding “Country Record in predicting rain”.

5.2 Input from Climate Division of O/o ADGM (R) have been forwarded to HQrs. for inclusion in MoES Annual Report 2015.

5.3 Input from Climate Division of O/o ADGM (R), have been forwarded to HQrs. for inclusion in Quarterly IMD News for June- September 2015

5(B) ROUTINE ACTIVITIES –

(i) Services -

5.4 Four weekly and cumulative Standardized Precipitation Index (SPI) maps were prepared for the weeks ending 28.10.15, 4.11.15, 11.11,15 and 18.11.15 supplied for use in Agromet Advisory Services Bulletin.

5.5 Monthly and cumulative Standardized Precipitation Index (SPI) maps were prepared for the month ending October 2015 for use in Climate Diagnostic Bulletin of India.

5.6 Five Drought Out look Maps for the period of Oct 22-28, 29 Oct.-4 Nov., 5-11 Nov.,12-18 Nov.and 19-25 Nov.2015 were prepared and uploaded on IMD Pune Website.

5.7 Five weekly aridity reports and maps for the period Oct.,22-28, 29 Oct.-4 Nov., 5-11, 12-18 and 19-25 Nov. 2015 were prepared and uploaded on IMD Pune website. The same has also been sent to AAS, Agrimet Division.

5.8 Two Biweekly Aridity maps and reports for the period 22 Oct.-4, 5-18 2015 have been prepared and issued to DGM New Delhi, IITM, Pune, and Ministry of Agriculture, New Delhi.

Work regarding publication –

5.9 Climate Diagnostic Bulletin of India for September 2015 and Monsoon Season (June-September) 2015 have been brought out.

5.10 Printing process of Disastrous Weather Events 2013 and 2014 is in progress.

5.11 Work related with preparation of Climatological summary of Delhi state is in progress. Draft for climatological summaries of 6 districts have been prepared.

5.12 Work related to preparation of maps for “Climatological Atlas of India”, is in progress.

5.13 A paper entitled “Heat Islands over Mumbai as revealed by auto recorded thermograph data” by A.K.Srivastava, James Voogt, S R Kshirsagar and Kavita Srivastava , accepted for publication in *J. Earth Syst. Sci.* (Impact factor: 1.51)

- 5.14 Nearby 70% work of following publication has been completed.
“Normals of Radiation Parameters over India (1971-2000)”

Work regarding Forecast –

a) Data Supply –

- Monthly Surface Climat Broadcast Data for 37 Indian stations for the month of October 2015 was sent to DGM (NHEC) and DGM (Telecom), New Delhi on 4-11-2015.
- Monthly Checked Surface Climat Data of 35 Indian stations for month of September 2015 was sent to the Editor, ‘Monthly Climatic data for the World’ NCDC, USA and SMRC Dhaka, Bangladesh.

DETAILS OF DATA ENQUIRY / SUPPLIED:

• Departmental	7
• Commercial	9
• Registered	6
• Research	8
• Free of cost	8

SUPPLY OF DATA

Aeronautical Climatological Summary for Chennai for the period 2006-2010 sent to DGM New Delhi, RMCs , DDGM(SI) Pune, and library.

a. UNDER REGISTRATION:

- (i) Daily rainfall data 15 Stations for period 1980 to Latest Supplied to Tata Dhan Academy Madrai.
- (ii) Daily surface (T-2/3) data for Surat Stations for the period 2012 to 2014 supplied to Sardar Vallabhbai National Institute of Technology, Surat.
- (iii) Daily surface (T-/III) data for 8 stations for the period 2000 to 2014 supplied to Dr Krishan. Gopal, N I T., Kurukshetra.
- (iv) Daily rainfall data for 9 stations for the period 1969 to 2010 supplied to Dr. Dhorde, N Wadia College, Pune.
- (v) Daily surface Table 2/3 data for 3 stations for the period 1969 to 2008 supplied to Prof. Mallikarjun, Shri Venkateshwara University, Tirupati.
- (vi) Daily rainfall data for 22 stations for the period 2007 – 2015 supplied to Shri Rahul Todmal, Vidya Pratishthan, ASC College, Baramati.

(c) Data Supplied Free of cost

- (i) Daily ET and WIND speed data for 115 stations for the period 1969 to latest supplied to Dr Subodh Kumar Shah, IITM, Pune.
- (ii) Monthly T-2 data for New Delhi station for the period 1961 – 2010 supplied to Shri Amit Bhattacharya, Times of India, N. Delhi.

(d) Electronic Processing :

- i) Monthly Climat Temp data (CT) for October 2015 sent to NHEC, New Delhi for National Broadcast & Monthly Checked Climat Temp data (CCT) sent to SSP section for further transmission to NCDC, USA and SAARC, Bangladesh.
 - ii) Processing of RS and RW data of 00 & 12 UTC for 35 and 34 stations respectively of May 2005 is in progress.
 - iii) Processing of Climat Temp data of 2013 (00 & 12 UTC) for 20 stations is in progress.
 - iv) Processing of RS/RW data (SAMEER) in the new CLISYS format for January 2009 is in progress.
 - v) Following rainfall data received in soft form have been converted into archival format.
 - a) CHHATISGARH (State Rain Gauge) 2015 (Jan-May)
 - b) MC SRINAGAR (DRMS) Oct -2013 to Dec -2014
- Electronic processing of 2050 records of autographic data, 90,414 records of surface data
 - Upper air RS/RW data 21,514 records were processed and merged in master files of the archives.
 - 100 corrections were carried out in rescue data.
 - 158 corrections were carried out which were received from time to time from different RMCs/MCs containing daily surface data.
 - 77,190 upper-air data (up to April 2005) records were uploaded in Clisys.
 - Radiation data for following parameters of WRDC stations have been scrutinized and processed.

Type of data (Parameters)	Period	Station Months
Global	August - 2015	5(12)
Diffuse	August - 2015	5(12)
Global	September-2015	4(12)
Diffuse	September-2015	4(12)

- Scrutiny, keying and Data processing of radiation data (Global and Diffuse parameters) of Non WRDC stations for the year 2011 is in progress.

(e) Data retrieval

- 31,32,504 met-data records were retrieved and supplied to various users on request during this month.

DATA PROCESSED/ MERGED / RETRIEVED:

- No of records processed - 90,414
- No of records retrieved - 31,32,504
- No of enquiries received - 155
- No of enquiries replied - 62
- No of parties to whom data supplied - 32
- No of letters pending - 61

(f) Revenue Collected:

- 06 publications were sold to five extra-departmental office against payment of Rs. 7,725/-.
- M/s Total IT Solutions Pvt. Ltd, New Delhi refunded Rs. 1,35,111/- towards cost of missing issues of journals – 2014.
- A total amount of Rs. 7191/- has been received from seven parties for the CD of monthly rainfall data series for districts, States, Met subdivisions and country as a whole for the period 1901-2010.
- An amount of Rs. 2,68,370/- was collected towards the supply of data.

Data archival –

- (i) About 505243 records of Global Marine Data for the period 2013-2015 received from GCC for as third quarter of 2015 collective were downloaded and sent to NDC for archival.

- (ii) Keying of Days Summary data of Antarctica for the months of November and December 2010 completed. Synoptic and Day summary data 2010 will be sent to NDC for processing and archival.
- (iii) RS/RW data for April 2005 has been archived in NDC.
- (iv) Climat Temp data for the year 2012 has been archived in NDC.

6. **WORKSHOP/SEMINARS – NIL**

7. **TRAINING :**

- 7.1 One day training was imparted to 21st batch of Met-II trainees of Instrumentation and Communication in Air Pollution on 23.11.15.
- 7.2 Dr. P. Guhathakurta, Sc. 'E' had delivered a lecture on "Impact of climate change on existing WR Projects", on 19th Nov,2015 at Central Water Commission, National Water Academy, Khadakwasla, Pune.
- 7.3 Dr. P. Guhathakurta, Sc. 'E' had taken classes for the Met-II, batch No. 21 for the Agricultural stream on drought climatology and monitoring.
- 7.4 Shri. I. J. Verma, Scientist-E delivered lectures to Met-II trainees (Batch No. 21) in Agrimet Division.
- 7.5 Dr. A.K.Srivastava, Scientist 'E' delivered regular lectures on, "Climate Science", in Forecasters Training and Advance Courses at Meteorological Training Institute at Pashan, Pune.

8. **MODERNISATION OF SUPPORT FACILITIES- NIL**

9. **TOURS/MAINTENANCE TOURS – NIL**

10. **IMPLEMENTATION OF OFFICIAL LANGUAGE POLICIES-NIL**

11. **MATERIAL MANAGEMENT NIL**

12. **MANPOWER MANAGEMENT :**

- 12.1 Smt. S.S. Nair, AO III promoted as AO II and transferred to DDGM(SI) office w.e.f. 2.11.2015.
- 12.2 Dr. A.K. Srivastava, Scientist E transferred to MC Jaipur under RMC New Delhi w.e.f. 30.11.2015.

12.3. Shri P.G. Rajadhyaksha, A.M.I retired from Govt service on attaining the age of superannuation w.e.f. 30.11.2015.

13. **BUDGET AND PLANNING** – NIL

14. **PRINTING AND PUBLICATION** NIL

15. **LIBRARY AND PUBLICATIONS**

1 No. of books /publications added to the Library :

a. Books : 2

b. Publications : --

2. No. of outsider persons to whom library facilities were extended : 8

3. 05 publications were supplied to 02 departmental office.

4. Parcel of WMO publications along with cost statement , meant for use at Air H.Q. New Delhi, was handed over to AFS Lohgaon official.

5. DGM's financial sanction for Rs. 16,99,071/- towards renewal of subscription of journals is still awaited.

6. 25 CDs of "110 Years of (1901-2010) Monthly Rainfall Data Series for Districts, states Met Subdivisions and all India" have been received from H.S. for sale and supply.

16. **OTHER POINTS** :

16.1 Monitoring of signals of various parameters to be used for the preparation of winter precipitation over North India and monsoon forecast 2016 was in progress.

16.2 Tour programmes / briefing of 325 visitors visiting to IMD, Pune offices from different organizations / institutions were arranged.

16.5. Agreed to the proposal of RMC Nagpur for establishing new part time observatory at Gadchiroli.

16.6 Letter of RMC Nagpur forwarded to DDGM(SI) Pune for installation of AWS at Harda district, Madhya Pradesh.

16.7. Inspection statement for the months of July 2015 and August 2015 prepared and forwarded to DGM(OS), New Delhi.

(B. MUKHOPADHYAY)
Looking after current duties of
Additional Director General of
Meteorology (Research)

ADGM(R) UOI NO GP-42001/ dt Pune-5; the Dec. 2015

Copy to :-

D.G.M. New Delhi.

(Smt. S.R. NAIK)
Admin Officer III
for ADGM(R)

ADGM(R) UOI NO GP-42001/ Dated Pune-5;the Dec. 2015