

**F. No. 3-1/ 2015-16-CFCC-E&S**  
**GOVERNMENT OF INDIA**  
**MINISTRY OF AGRICULTURE AND FARMERS WELFARE**  
**DEPARTMENT OF AGRICULTURE, COOPERATION AND FARMERS WELFARE**  
**(CROP FORECAST COORDINATION CENTRE)**

Room No. 344-A, Krishi Bhawan, New Delhi  
Dated: 26.04.2016

**SUBJECT: MINUTES OF THE MEETING OF THE CROP WEATHER WATCH GROUP HELD ON 22.04.2016.**

**Summary observations of the Group on Agenda Items**

- **Details of the mean maximum and minimum temperature during the week 14<sup>th</sup> April, 2016 to 20<sup>th</sup> April, 2016 were as under:-**

**Maximum Temperature**

- *Above normal by 4 to 6<sup>o</sup>C over many parts of Himachal Pradesh, Punjab, Jharkhand, some parts of Bihar, Gangetic West Bengal, Odisha and isolated pockets of Jammu and Kashmir, East Uttar Pradesh, Chhattisgarh, North Interior Karnataka and by 2 to 4<sup>o</sup>C over rest of the country except Coastal Karnataka, Sub-Himalayan West Bengal and Sikkim, Manipur, Mizoram, Tripura, many parts of Gujarat, Konkan and Goa, West Rajasthan, Assam and Meghalaya, Nagaland, West Madhya Pradesh, Coastal Andhra Pradesh, Andaman & Nicobar Islands and Lakshadweep, some parts of Bihar, Odisha, Madhya Maharashtra, North Interior Karnataka, Tamil Nadu, Kerala and isolated pockets of Jammu & Kashmir, Jharkhand, Rayalaseema where it was normal to near normal.*
- *Below normal by 2 to 4<sup>o</sup>C over many parts of Arunachal Pradesh, some parts of Assam and Nagaland.*

**Minimum Temperature**

- *Above normal by 4<sup>o</sup>C over many parts of West Uttar Pradesh, Haryana & Delhi, some parts of Uttarakhand, Rajasthan, East Uttar Pradesh and isolated pockets of Punjab Himachal Pradesh, Madhya Pradesh, Telangana, North Interior Karnataka and Rayalaseema and by 2 to 4<sup>o</sup>C over Jharkhand, Marathwada, Mizoram and Tripura, many parts of Punjab, Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Bihar, Gangetic West Bengal, Vidarbha, East Madhya Pradesh, Chhattisgarh, Rayalaseema, Tamil Nadu and Kerala, some parts of Jammu & Kashmir, Rajasthan, Gujarat, Madhya Maharashtra, Odisha, Sub-Himalayan West Bengal, Manipur, Interior Karnataka, Telangana, Andaman & Nicobar Islands and isolated pockets of West Madhya Pradesh, Assam & Meghalaya.*
- *Normal to near normal in remaining parts of the country.*

- *In the pre-monsoon season, weekly Rainfall for the country as a whole during the week 14<sup>th</sup> April, 2016 to 20<sup>th</sup> April, 2016 was 20% lower than Long Period Average (LPA). Rainfall (% departure from LPA) in the four broad geographical divisions of the country during the above period was higher by 24% in East & North East India and lower by 26% in North West India, 94% in Central India, 85% in South Peninsula*
- *The cumulative rainfall in the country during the winter season i.e. 01<sup>st</sup> March, 2016 to 20<sup>th</sup> April, 2016 was 6% lower than Long Period Average (LPA). Rainfall (% departure from LPA) in the four broad geographical divisions of the country during the above period was lower by 1% in East & North East India, 24% in Central India, 63% in South Peninsula and higher by 10% in North West India.*
- *Out of 36 met sub-divisions, 15 met sub-divisions constituting 44% of the total area of the country has received excess/normal rainfall, 21 met sub-divisions constituting 56% of the total area of the country has received deficient/scanty rainfall.*
- *Central Water Commission monitors 91 major reservoirs in the country which have total live capacity of 157.80 BCM at Full Reservoir Level (FRL). Current live storage in these reservoirs as on 21<sup>st</sup> April, 2016 was 34.08 BCM as against 52.18 BCM on 21.04.2015 (last year) and 45.08 BCM of normal (average storage of the last 10 years) storage. Current year's storage is 65% of the last year's storage and 76% of the normal storage.*
- *The All Commodities inflation rate based on Wholesale Price Index (WPI) on a point to point basis for the month of March, 2016, increased to (-) 0.85% from the level of (-) 0.91 in the month of February, 2016. The inflation rate was (-) 2.33% during the corresponding period of last year.*
- *The Primary Articles inflation rate based on Wholesale Price Index (WPI) on a point to point basis for the month of March, 2016, increased to 2.13% from the level of 1.58% in the month of February, 2016. The inflation rate was (-) 0.17% during the corresponding period of last year.*
- *The inflation for non-food items has increased to 8.09% from the previous month's level of 5.88% and for the food items has increased to 3.73% from the previous month's level of 3.35%.*
- *Among the foodgrains, Rice has increased to 0.60% from the previous month's level of (-) 1.63%, Cereals 2.47% from the previous month's level of 1.11%, Wheat 3.02% from the previous month's level of 2.78% and Pulses has decreased to 34.45% from the previous month's level of 38.84%.*
- *All-India progressive procurement of Rice as on 22.04.2016 for the marketing season 2015-16 was 312.53 lakh tonnes against the procurement of 264.83 lakh tonnes upto the corresponding period of last year.*
- *All-India progressive procurement of Wheat as on 22.04.2016 for the marketing season 2016-17 was 157.35 lakh tonnes against the procurement of 59.37 lakh tonnes upto the corresponding period of last year.*
- *Availability position of seeds and fertilizers has been found satisfactory.*

## 1. Pre-Monsoon Season (March – May) during the week ending on 20<sup>th</sup> April, 2016

Sub-division-wise daily distribution of rainfall and minimum temperature are shown in Table-1.1

- **Rainfall during the week (14<sup>th</sup> April, 2016 to 20<sup>th</sup> April, 2016)** Rainfall was excess/normal in 06, deficient/scanty in 18 and no rain in 12 out of 36 meteorological sub-divisions.
- **Cumulative rainfall (01<sup>st</sup> March, 2016 to 20<sup>th</sup> April, 2016)** Rainfall was excess/normal in 15 and deficient/scanty in 21 out of 36 meteorological sub-division.

**Table-1.2: Weekly and Cumulative Rainfall in four regions of the country<sup>1</sup>**

Region	Week Ending (20.04.2016)				Cumulative (01.03.16 to 20.04.16)			
	(in mm)		Devi- ation (%)	Cat.	(in mm)		Devi- ation (%)	Cate- gory
	Actual	Normal			Actual	Normal		
North-West India	5.7	7.7	-26	D	76.0	69.0	10	N
Central India	0.1	2.4	-94	S	12.0	15.8	-24	D
South Peninsular India	1.3	8.3	-85	S	11.5	31.2	-63	S
East & North-East India	32.7	26.4	24	E	133.7	135.4	-1	N
Country as a whole	7.2	9.1	-20	D	51.0	54.5	-6	N

E: Excess, N: Normal, D: Deficient, S: Scanty, NR: No Rain.

Source: India Meteorological Department, New Delhi

**Table – 1.3: Category wise comparative distribution of Sub-division (cumulative rainfall) and All-India Percentage Rainfall Departure for the last five years since: 1<sup>st</sup> March to**

No. of Sub-Divisions with rainfall	<i>For the period from 1<sup>st</sup> March to</i>					
	20 APR 2011	18 APR 2012	17 APR 2013	23 APR 2014	22 APR 2015	20 APR 2016
Excess	09	03	02	16	29	06
Normal	06	11	07	06	06	09
<b>Total</b>	<b>15</b>	<b>14</b>	<b>09</b>	<b>22</b>	<b>35</b>	<b>15</b>
Deficient	15	11	11	08	01	11
Scanty	04	09	13	06	00	10
No rain	02	02	03	00	00	00
<b>Total</b>	<b>21</b>	<b>22</b>	<b>27</b>	<b>14</b>	<b>01</b>	<b>21</b>
Data Inadequate	00	00	00	00	00	00
<b>TOTAL</b>	<b>36</b>	<b>36</b>	<b>36</b>	<b>36</b>	<b>36</b>	<b>36</b>
<b>All-India % Rainfall Deviation</b>	<b>(-) 12%</b>	<b>(-) 33%</b>	<b>(-) 45%</b>	<b>(-) 5%</b>	<b>96%</b>	<b>(-) 6%</b>

Source: IMD

1. North-west India - Uttar Pradesh, Rajasthan, Haryana, Chandigarh and Delhi, Punjab, Uttaranchal, Himachal Pradesh, and Jammu and Kashmir.  
Central India - Madhya Pradesh, Chhattisgarh, Maharashtra and Gujarat

South Peninsula - Andhra Pradesh, Karnataka, Tamil Nadu & Pondicherry, Kerala and Lakshadweep.

North-east India - Bihar, Jharkhand, Orissa, West Bengal, Sikkim, Assam, Arunachal Pradesh, Meghalaya, Nagaland, Manipur, Mizoram, Tripura, and Andaman and Nicobar Islands.

Table: 1.1

METEOROLOGICAL SUB-DIVISIONWISE DAILY INTENSITY OF MINIMUM & MAXIMUM TEMPERATURES (14-20 APRIL 2016)																
SN.	SUB-DIVISIONS	MINIMUM TEMPERATURE							MAXIMUM TEMPERATURE							
		14 APR	15 APR	16 APR	17 APR	18 APR	19 APR	20 APR	14 APR	15 APR	16 APR	17 APR	18 APR	19 APR	20 APR	
1	ANDAMAN & NICOBAR ISLANDS	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
2	ARUNACHAL PRADESH	N	N	N	N	N	N	N	N	N	N	MBN	AN	N	N	N
3	ASSAM & MEGHALAYA	N	N	N	N	N	N	N	N	N	N	MBN	BN	N	N	N
4	NAGA.MANI.MIZO.&TRIPURA	N	N	N	N	N	N	N	N	N	N	BN	N	N	ABN	N
5	SUB-HIMA.WEST BEN. & SIKKIM	N	N	N	N	N	AN	AN	AN	N	N	ABN	BN	AN	N	N
6	GANGETIC WEST BENGAL	N	AN	N	AAN	AAN	AN	AN	AN	N	N	AAN	AN	AAN	N	N
7	ODISHA	N	N	N	AN	AN	N	N	N	N	N	AAN	N	AN	AN	N
8	JHARKHAND	AN	AN	AAN	AAN	MAN	AAN	AAN	AAN	N	N	AAN	MAN	MAN	MAN	MAN
9	BIHAR	N	AN	N	N	N	N	AAN	AAN	N	N	AAN	N	N	AN	N
10	EAST UTTAR PRADESH	N	N	N	AN	AAN	N	N	N	N	N	AN	AAN	MAN	MAN	AAN
11	WEST UTTAR PRADESH	N	N	AAN	AN	AAN	N	N	N	N	N	AN	AAN	AAN	AAN	AAN
12	UTTARAKHAND	N	N	N	N	MAN	MAN	MAN	AAN	N	N	AAN	AN	AN	AN	AN
13	HARYANA CHAND. & DELHI	AN	N	AAN	N	N	N	N	AAN	N	N	AN	AN	AN	AN	N
14	PUNJAB	AN	N	N	AAN	N	N	N	AAN	N	N	AN	AN	AN	AN	AAN
15	HIMACHAL PRADESH	N	N	AAN	N	N	N	N	N	N	N	AN	AN	AN	AN	AAN
16	JAMMU & KASHMIR	N	N	AAN	MAN	N	N	N	N	N	N	AN	AN	AN	AN	N
17	WEST RAJASTHAN	N	N	AAN	AAN	AAN	N	AN	AN	N	N	AN	AN	AN	AN	N
18	EAST RAJASTHAN	N	AAN	AAN	AAN	AAN	N	AN	AN	N	N	AN	AN	AN	AN	N
19	WEST MADHYA PRADESH	N	AN	N	N	N	N	N	AAN	N	N	AN	AN	AN	AN	N
20	EAST MADHYA PRADESH	N	AN	N	AAN	N	N	N	AAN	N	N	AN	AN	AN	AN	AAN
21	GUJARAT REGION D.D. & N.H.	N	AN	N	AN	N	N	AN	N	N	N	AN	AN	AN	AN	N
22	SAURASTRA KUTCH & DIU	N	AN	N	AAN	N	N	N	N	N	N	AN	AN	AN	AN	N
23	KONKAN & GOA	N	N	N	N	N	N	N	N	N	N	AN	AN	AN	AN	N
24	MADHYA MAHARASHTRA	AN	N	N	N	N	N	AAN	N	N	N	AN	AN	AN	AN	N
25	MARATHAWADA	N	N	N	AN	N	N	AAN	N	N	N	AN	AN	AN	AN	N
26	VIDARBHA	N	N	N	N	N	N	AAN	N	N	N	AN	AN	AN	AN	N
27	CHHATTISGARH	N	N	N	N	AAN	AN	AN	N	N	N	AN	AN	AN	AN	N
28	COASTAL ANDHRA PRADESH	AN	AN	N	N	N	N	N	N	N	N	AN	AN	AN	AN	N
29	TELANGANA	N	AAN	AAN	AAN	N	N	N	AN	N	N	AN	AN	AN	AN	N
30	RAYALASEEMA	N	AN	N	AN	N	N	N	N	N	N	AN	AN	AN	AN	N
31	TAMILNADU & PUDUCHERRY	AAN	AN	N	N	AN	AN	AN	AN	N	N	AN	AN	AN	AN	N
32	COASTAL KARNATAKA	N	N	N	N	N	N	N	N	N	N	AN	AN	AN	AN	N
33	NORTH INTERIOR KARNATAKA	AN	AN	N	N	AAN	N	N	N	N	N	AN	AN	AN	AN	N
34	SOUTH INTERIOR KARNATAKA	AN	AN	N	N	N	N	N	N	N	N	AN	AN	AN	AN	N
35	KERALA	AAN	AN	N	AN	AN	AN	AN	AN	N	N	AN	AN	AN	AN	N
36	LAKSHADWEEP	N	N	N	N	N	N	N	N	N	N	AN	AN	AN	AN	N

LEGENDS:	
N	NORMAL (-1.5 to +1.5)°C
AN	ABOVE NORMAL (+1.8 to 3.0)°C
BN	BELOW NORMAL (-1.8 to 3.0)°C
AAN	APRECIABLY ABOVE NORMAL (+3.1 to 5.0)°C
ABN	APRECIABLY BELOW NORMAL (-3.1 to -5.0)°C
MAN	MARKEDLY ABOVE NORMAL (+5.0 °C or more)
MBN	MARKEDLY BELOW NORMAL (-5.0 °C or less)

## 2. Reservoir Status (For the week ending on 21.04.2016)

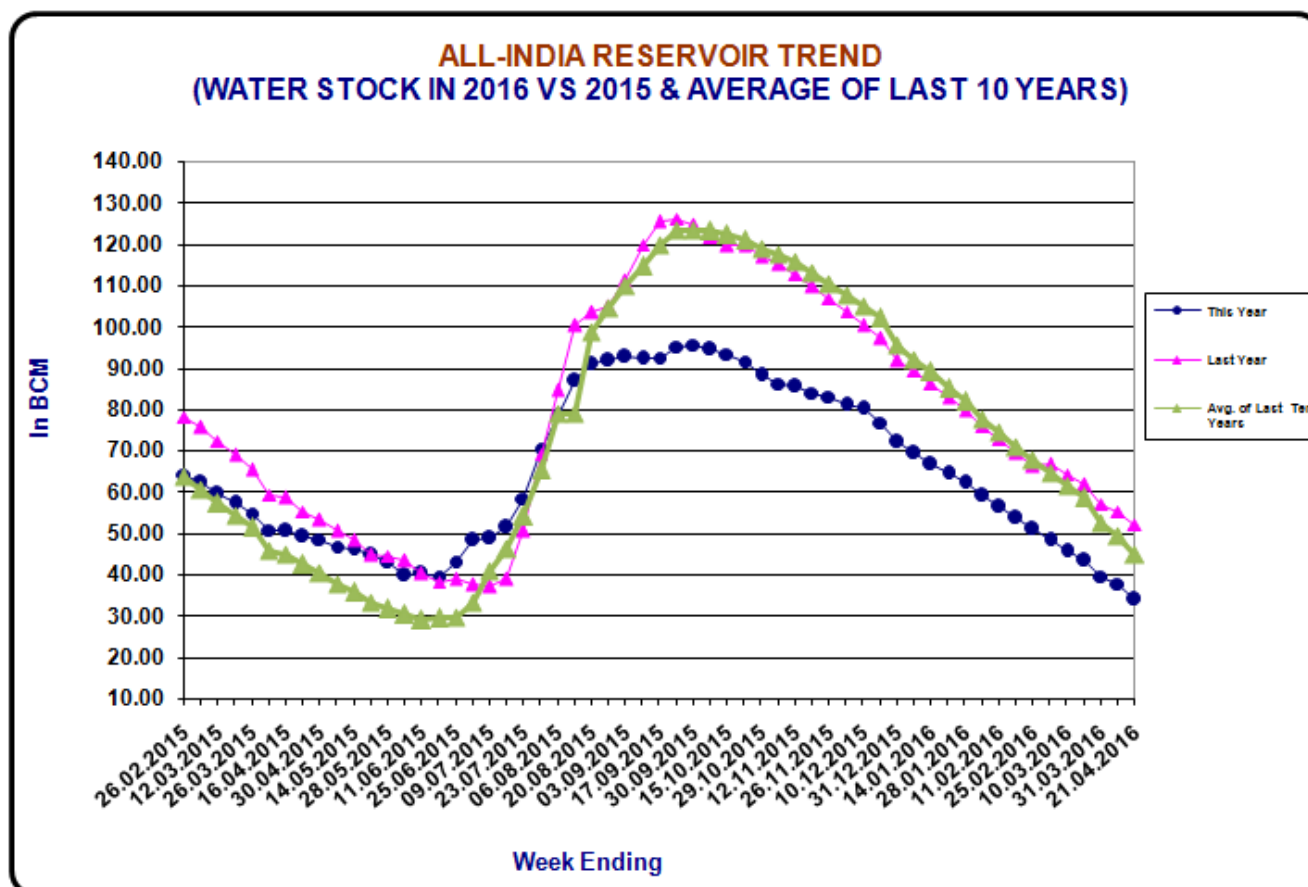
- **The Central Water Commission** monitors the live storage of **91** important/major reservoirs, having capacity at Full Reservoir Level (FRL) of **157.80** billion cubic meters (BCM), which is about 62% of total reservoir capacity in the country.
- Water stock in 91 major reservoirs **decreased to** 34.08 BCM from the previous week's level of 36.33 BCM. Current storage is **lower** than the last year's position of 52.18 BCM and the average of last 10 year's storage of 45.08 BCM.

**Table – 2.1 : For 91 major reservoirs of the country**

<u>Period</u>	Current Year's Storage as % of FRL*	Current Year's storage as % of last year	Current year as a % of 10 years average level
Current Week	22	65	76
Last Week	23	68	78
The percentage to live capacity at FRL was 33% on 21/04/2015, 38% on 21/04/2014, 30% on 21/04/2013 and 29% on 21/04/2012.			
* <i>Live storage as % to Full Reservoir Level (FRL) of 157.80 Billion Cub. Mts.(BCM)</i>			

Source: CWC

There were 30 reservoirs having storage more than 80%, 24 reservoirs having storage between 50% to 80% of Normal Storage, 23 reservoir having storage between 30% to 50%, 14 reservoir having storage upto 30% of Normal Storage and 04 reservoir having no live storage.



Source: Central Water Commission

### 3. Fertilizer Position:

**Table – 3.1: Requirement, Availability, Sales and Stock position of Major Fertilizers Urea, DAP, MOP, Complex and SSP during Kharif 2015-16 (As on 22.04.2016)**

*(in '000 Tonnes)*

<b>Availability / Sale / Closing Stock</b>	<b>Urea</b>	<b>DAP</b>	<b>MOP</b>	<b>Complex</b>	<b>SSP</b>
<b>Opening Stock as on 01.04.2016</b>	<b>932</b>	<b>376</b>	<b>153</b>	<b>530</b>	<b>123</b>
<b>Requirement for Kharif, 2015-16</b>	<b>14739</b>	<b>5082</b>	<b>1742</b>	<b>5368</b>	<b>3060</b>
<b>Requirement upto April, 2016</b>	<b>1845</b>	<b>711</b>	<b>171</b>	<b>521</b>	<b>369</b>
<b>Availability upto 22.04.2016</b>	<b>1776</b>	<b>509</b>	<b>168</b>	<b>730</b>	<b>156</b>
<b>Sales upto 22.04.2016</b>	<b>240</b>	<b>31</b>	<b>1</b>	<b>36</b>	<b>11</b>
<b>Closing Stock upto 22.04.2016</b>	<b>1536</b>	<b>478</b>	<b>167</b>	<b>696</b>	<b>145</b>

Source: Fertilizer Division (DAC) / Deptt. of Fertilizer

### 4. Pest & Diseases:

- Incidence of Army worm on Maize crop has been reported damaging crop considerably in Muzaffarpur district of Bihar covering 10 Acre area. Farmers were advised to take necessary control measures to prevent further spread of this pest.
- No shortage of Chemical / Bio-pesticides was reported from any State / UT.

## 5: Percentage Variations in the Wholesale Price Indices (WPI) of Major items

**Table: 5.1**

Period / commodities	Weight	Inflation (year on year)		
		March 2016	Feb. 2016	March 2015
<b>All Commodities</b>	<b>100</b>	<b>-0.85</b>	<b>-0.91</b>	<b>-2.33</b>
<b>Primary Articles</b>	<b>20.12</b>	<b>2.13</b>	<b>1.58</b>	<b>-0.17</b>
<b>(a) Food Articles</b>	<b>14.34</b>	<b>3.73</b>	<b>3.35</b>	<b>6.27</b>
<b>Cereals</b>	<b>3.37</b>	<b>2.47</b>	<b>1.11</b>	<b>0.00</b>
Rice	1.79	0.60	-1.63	0.65
Wheat	1.12	3.02	2.78	-1.19
<b>Pulses</b>	<b>0.72</b>	<b>34.45</b>	<b>38.84</b>	<b>13.22</b>
Gram	0.33	34.93	40.83	3.46
Arhar	0.13	45.00	56.31	21.41
Moong	0.08	7.04	2.82	14.00
Masur	0.05	12.16	17.49	27.00
Urad	0.10	59.82	63.74	21.89
<b>Vegetables</b>	<b>1.74</b>	<b>-2.26</b>	<b>-3.34</b>	<b>9.27</b>
Potato	0.20	3.57	-6.28	-21.50
Onion	0.18	-17.65	-13.22	36.49
Fruits	2.11	-2.13	-1.95	12.56
Milk	3.24	2.67	1.74	7.48
Egg, Meat & Fish	2.41	3.69	3.47	2.62
<b>(b) Non-Food Articles</b>	<b>4.26</b>	<b>8.09</b>	<b>5.88</b>	<b>-6.94</b>
<b>Oilseeds</b>	<b>1.78</b>	<b>3.18</b>	<b>3.65</b>	<b>-1.26</b>
Fuel & Power	14.91	-8.30	-6.40	-8.30

**Table – 6: Progressive procurement of Rice as on 22.04.2016 (lakh tonnes)**

State	Total procurement in marketing season 2014-15 (Oct. – Sept.)	Progressive Procurement as on 22.04.2016	
		In Marketing season 2015-2016	In Marketing season 2014-2015
Andhra Pradesh	35.96	32.80	18.99
Telangana	35.04	10.86	16.65
Chhattisgarh	34.23	34.42	33.55
Haryana	20.15	28.61	20.15
Kerala	3.74	3.26	2.99
Madhya Pradesh	8.07	8.49	8.07
Maharashtra	1.99	1.60	1.37
Odisha	33.57	26.77	26.53
Punjab	77.86	93.50	77.86
Tamil Nadu	10.51	9.59	8.59
Uttar Pradesh	16.98	29.10	15.42
Uttaranchal	4.65	5.97	4.29
West Bengal	20.32	12.76	13.20
All-India	320.40	312.53	264.83