

**F. No. 3-1/ 2018-19-CFCC-ES**  
**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: 28.05.2019

**SUBJECT: MINUTES OF THE MEETING OF THE CROP WEATHER WATCH GROUP HELD ON  
24.05.2019.**

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

- *In the pre monsoon season, at All-India level, the rainfall during the week i.e. 16<sup>th</sup> May, 2019 – 22<sup>nd</sup> May, 2019 has been 34% lower than Long Period Average (LPA). Rainfall in the four broad geographical divisions of the country during the above period have been higher than LPA by 48% in North West India but lower than LPA by 63% each in Central India & South Peninsula and 38% in East & North East India.*
- *The cumulative rainfall in the country during the pre monsoon season i.e. 01<sup>st</sup> March, 2019 to 22<sup>nd</sup> May, 2019 has been 23% lower than Long Period Average (LPA). Rainfall in the four broad geographical divisions of the country during the above period have been lower than LPA by 49% in South Peninsula, 31% in North West India, 8% in Central India and 11% in East & North East India.*
- *For pre monsoon season 01.03.2019 to 22.05.2019 out of 36 met sub-divisions, 5 met sub-divisions constituting 20% of the total area of the country has received large excess/excess rainfall, 7 met sub-divisions constituting 19% of the total area of the country has received normal rainfall, 24 met sub-divisions constituting 61% of the total area of the country has received deficient/large deficient rainfall.*
- *Central Water Commission monitors 91 major reservoirs in the country which have total live capacity of 161.99 Billion Cubic Meter (BCM) at Full Reservoir Level (FRL). Out of these, 76 reservoirs with FRL capacity of 120.44 BCM have irrigation potential. Live storage in the 91 major reservoirs as on 23<sup>rd</sup> May, 2019 has been 33.56 BCM as against 29.53 BCM on 23.05.2018 (last year) and 32.27 BCM of normal (average of the last 10 years) storage. Current year's storage is 114% of last year's storage and nearly 104% of average of last 10 year's storage.*
- *All-India progressive procurement of Rice as on 24.05.2019 for 2018-19 was at 416.41 lakh tonnes against the procurement of 346.63 lakh tonnes in the corresponding period of last year. The procurement of wheat for the Rabi Marketing Season (RMS) 2019-20 was 330.31 lakh tonnes against the procurement of 336.75 lakh tonnes in the corresponding period of RMS 2018-19.*

## 1. Pre Monsoon Season (March – May) during the week ending 22<sup>nd</sup> May, 2019

➤ **Sub-Division wise Weekly Rainfall Forecast is shown in Table-1.1**

- **Rainfall during the week (16<sup>th</sup> May, 2019 to 22<sup>nd</sup> May, 2019)** Rainfall was large excess/excess in 5 met sub-divisions, normal in 2 met sub-divisions, deficient/large deficient in 27 sub-divisions and no rain in 2 met sub-divisions out of 36 meteorological sub-divisions.
- **Cumulative rainfall (01<sup>st</sup> March, 2019 to 22<sup>nd</sup> May, 2019)** Rainfall was large excess/excess in 5 met sub-divisions, normal in 7 met sub-divisions, deficient/large deficient in 24 sub-divisions out of 36 meteorological sub-divisions.

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

Region	Week Ending (22.05.2019)				Cumulative (01.03.19 to 22.05.19)			
	(in mm)		Devi- ation (%)	Cate- gory	(in mm)		Devi- ation (%)	Cate- gory
	Actual	Normal			Actual	Normal		
North-West India	10.4	7.0	48	E	71.1	102.5	-31	D
Central India	1.5	4.1	-63	LD	29.5	32.2	-8	N
South Peninsular India	7.4	19.8	-63	LD	49.6	98.1	-49	D
East & North-East India	26.4	42.5	-38	D	273.7	308.8	-11	N
Country as a whole	9.3	14.1	-34	D	85.2	110.9	-23	D

LE: Large Excess, E: Excess, N: Normal, D: Deficient, LD: Large Deficient, 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, 2019 to 22<sup>nd</sup> May, 2019**

No. of Sub-Divisions with rainfall	For the period from 1 <sup>st</sup> March to					
	21 MAY 2014	20 MAY 2015	25 MAY 2016	24 MAY 2017	23 MAY 2018	22 MAY 2019
Large Excess	-	-	-	01	02	02
Excess	14	29	05	04	06	03
Normal	11	06	16	13	11	07
<b>Total</b>	<b>25</b>	<b>35</b>	<b>21</b>	<b>18</b>	<b>19</b>	<b>12</b>
Deficient	09	01	11	11	13	14
Large Deficient	-	-	-	07	04	10
Scanty	02	00	04	-	-	-
No rain	00	00	00	00	00	00
<b>Total</b>	<b>11</b>	<b>01</b>	<b>15</b>	<b>18</b>	<b>17</b>	<b>24</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>(-) 3%</b>	<b>53%</b>	<b>(-) 3%</b>	<b>(-) 5%</b>	<b>(-) 13%</b>	<b>(-) 23%</b>

Source: IMD

➤ Sub-division-wise 5 days rainfall forecast from 24<sup>th</sup> May, 2019 to 28<sup>th</sup> May, 2019 is shown in Table 1.4

1. North-west India - Uttar Pradesh, Rajasthan, Haryana, Chandigarh and Delhi, Punjab, Uttarakhand, Himachal Pradesh, and Jammu and Kashmir.

Central India - Madhya Pradesh, Chhattisgarh, Maharashtra, Odisha, Goa and Gujarat.

South Peninsula - Andhra Pradesh & Telangana, Karnataka, Tamil Nadu & Puducherry, Kerala, A & N islands and Lakshadweep.

East & North East India - Bihar, Jharkhand, West Bengal, Sikkim, Assam, Arunachal Pradesh, Meghalaya, Nagaland, Manipur, Mizoram and Tripura.

**Table: 1.1**

<b>METEOROLOGICAL SUB-DIVISIONWISE WEEKLY RAINFALL FORECAST &amp; Wx. WARNINGS-2019</b>								
<b>Sr. No</b>	<b>MET.SUB-DIVISIONS</b>	<b>23 MAY</b>	<b>24 MAY</b>	<b>25 MAY</b>	<b>26 MAY</b>	<b>27 MAY</b>	<b>28 MAY</b>	<b>29 MAY</b>
1	ANDAMAN & NICO.ISLANDS	FWS	FWS	FWS	FWS	WS	WS	WS*
2	ARUNACHAL PRADESH	WS*	WS	FWS	FWS	FWS	FWS	FWS
3	ASSAM & MEGHALAYA	WS***TS	WS***	WS*	WS	FWS	FWS*	FWS*
4	NAGA.MANI.MIZO.& TRIPURA	WS**TS	WS**	WS	FWS	FWS	FWS	FWS
5	SUB-HIM.W. BENG. & SIKKIM	WS*TS	FWS <sup>TS</sup>	FWS <sup>TS</sup>	FWS	FWS	WS*	WS
6	GANGETIC WEST BENGAL	ISOL <sup>TS</sup>	ISOL	ISOL	ISOL <sup>TS</sup>	ISOL <sup>TS</sup>	ISOL	SCT <sup>§</sup>
7	ODISHA	ISOL <sup>TS</sup>	ISOL <sup>TS</sup>	ISOL <sup>⚡TS</sup>	ISOL <sup>⚡TS</sup>	ISOL <sup>⚡TS</sup>	ISOL	SCT <sup>§</sup>
8	JHARKHAND	ISOL <sup>TS</sup>	ISOL <sup>⚡TS</sup>	ISOL <sup>⚡</sup>	ISOL <sup>⚡</sup>	ISOL <sup>⚡</sup>	ISOL	ISOL <sup>§</sup>
9	BIHAR	ISOL <sup>TS</sup>	ISOL	ISOL	ISOL <sup>TS</sup>	ISOL <sup>TS</sup>	ISOL <sup>§</sup>	ISOL <sup>§</sup>
10	EAST UTTAR PRADESH	ISOL <sup>⚡DS/TS</sup>	D <sup>⚡</sup>	D	D	D	D	D
11	WEST UTTAR PRADESH	ISOL <sup>DS/TS</sup>	ISOL <sup>DS/TS</sup>	D	D	D	D	D
12	UTTARAKHAND	SCT <sup>TS</sup>	SCT <sup>TS#</sup>	ISOL	ISOL	ISOL	ISOL	D
13	HARYANA CHD. & DELHI	SCT <sup>DS/TS</sup>	ISOL <sup>DS/TS</sup>	D	D	D	D	D
14	PUNJAB	SCT <sup>DS/TS</sup>	ISOL <sup>DS/TS</sup>	D	ISOL	D	D	D
15	HIMACHAL PRADESH	FWS <sup>TS#</sup>	FWS <sup>TS</sup>	ISOL	ISOL	ISOL	ISOL	D
16	JAMMU & KASHMIR	WS <sup>TS</sup>	FWS <sup>TS</sup>	ISOL	SCT	ISOL	ISOL	D
17	WEST RAJASTHAN	ISOL <sup>DS/TS</sup>	ISOL	D	D	D	D	D
18	EAST RAJASTHAN	ISOL <sup>DS/TS</sup>	ISOL	D	D	D	D	D
19	WEST MADHYA PRADESH	ISOL <sup>⚡TS</sup>	D <sup>⚡</sup>	D <sup>⚡</sup>	D	D	ISOL	D
20	EAST MADHYA PRADESH	ISOL <sup>⚡TS</sup>	D <sup>⚡</sup>	D <sup>⚡</sup>	D	D	ISOL	D
21	GUJARAT REGION D.D. & N.H.	D	D	D	D	D	D	D
22	SAURASTRA KUTCH & DIU	D	D	D	D	D	D	D
23	KONKAN & GOA	ISOL	D	D	D	D	D	D
24	MADHYA MAHARASHTRA	ISOL <sup>⚡</sup>	D <sup>⚡</sup>	D	D	D	D	D
25	MARATHAWADA	ISOL	D	D	D	D	D	D
26	VIDARBHA	ISOL <sup>⚡+</sup>	D <sup>⚡</sup>	D <sup>⚡</sup>	D <sup>⚡</sup>	D <sup>⚡</sup>	D <sup>⚡</sup>	D <sup>⚡</sup>
27	CHHATTISGARH	ISOL <sup>⚡TS</sup>	ISOL <sup>⚡TS</sup>	D <sup>⚡</sup>	D <sup>⚡</sup>	D <sup>⚡</sup>	D <sup>⚡</sup>	ISOL <sup>⚡</sup>
28	COASTAL ANDHRA PRADESH	ISOL <sup>TS</sup>	ISOL <sup>TS</sup>	ISOL	ISOL	ISOL	ISOL	ISOL
29	TELANGANA	ISOL <sup>⚡TS</sup>	ISOL <sup>⚡</sup>	ISOL <sup>⚡</sup>	D <sup>⚡</sup>	D	D	D <sup>⚡</sup>
30	RAYALASEEMA	ISOL <sup>⚡TS</sup>	ISOL <sup>⚡</sup>	ISOL	ISOL	ISOL	ISOL	ISOL
31	TAMILNADU & PUDUCHERRY	ISOL <sup>⚡</sup>	ISOL <sup>⚡</sup>	ISOL <sup>TS</sup>	ISOL* <sup>TS</sup>	ISOL	ISOL	ISOL <sup>§</sup>
32	COASTAL KARNATAKA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
33	NORTH INT.KARNATAKA	ISOL <sup>TS</sup>	ISOL	ISOL	D	D	D	D
34	SOUTH INT.KARNATAKA	FWS* <sup>TS</sup>	SCT* <sup>TS</sup>	FWS* <sup>TS</sup>	SCT*	ISOL	D	ISOL
35	KERALA	SCT <sup>TS</sup>	SCT <sup>TS</sup>	SCT	ISOL	SCT	ISOL	ISOL
36	LAKSHADWEEP	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
<b>LEGENDS:</b>								
<b>WS</b>	WIDE SPREAD / MOST PLACES (76-100%)			<b>FWS</b>	FAIRLY WIDE SPREAD / MANY PLACES (51% to 75%)			
<b>SCT</b>	SCATTERED / FEW PLACES (26% to 50%)			<b>ISOL</b>	ISOLATED (up to 25%)		<b>D/DRY</b>	<b>NIL RAINFALL</b>
* Heavy Rainfall (64.5-115.5 mm)		** Heavy to Very Heavy Rainfall (115.6-204.4 mm)			*** Extremely Heavy Rainfall (204.5 mm or more)			
• FOG		* SNOWFALL		# HAILSTORM		⚡ HEAT WAVE (+4.5°C to +6.4°C)		⚡ SEVERE HEAT WAVE (> +6.4)
§ THUNDERSTORM WITH SQUALL/GUSTY WIND			DS/TS DUST/THUNDERSTORM		⚡ COLD WAVE (-4.5°C to -6.4°C)		⚡ SEVERE COLD WAVE (< -6.4)	

Source: IMD

Table: 1.4

Met-Sub-Division	24-May Today	25May Sat	26May Sun	27May Mon	28May Tue
1. Andaman & Nicobar Islands	FWS	FWS	FWS	WS	WS
2. Arunachal Pradesh	WS	FWS	FWS	FWS	FWS
3. Assam & Meghalaya	WS	WS	WS	FWS	FWS
4. N. M. M. & T.	WS	WS	FWS	FWS	FWS
5. S.H. West Bengal & Sikkim	FWS	FWS	FWS	FWS	FWS
6. Gangetic West Bengal	ISOL	ISOL	ISOL	ISOL	ISOL
7. Odisha	ISOL	ISOL	ISOL	ISOL	ISOL
8. Jharkhand	ISOL	ISOL	ISOL	ISOL	ISOL
9. Bihar	ISOL	ISOL	ISOL	ISOL	ISOL
10. East Uttar Pradesh	DRY	DRY	DRY	DRY	DRY
11. West Uttar Pradesh	ISOL	DRY	DRY	DRY	DRY
12. Uttarakhand	SCT	ISOL	ISOL	ISOL	ISOL
13. Haryana, Chd & Delhi	ISOL	DRY	DRY	DRY	DRY
14. Punjab	ISOL	DRY	ISOL	DRY	DRY
15. Himachal Pradesh	FWS	ISOL	ISOL	ISOL	ISOL
16. Jammu & Kashmir	FWS	ISOL	SCT	ISOL	ISOL
17. West Rajsthan	ISOL	DRY	DRY	DRY	DRY
18. East Rajasthan	ISOL	DRY	DRY	DRY	DRY
19. West Madhya Pradesh	DRY	DRY	DRY	DRY	DRY
20. East Madhya Pradesh	DRY	DRY	DRY	DRY	DRY
21. Gujarat Region	DRY	DRY	DRY	DRY	DRY
22. Saurashtra & Kutch	DRY	DRY	DRY	DRY	DRY
23. Konkan & Goa	DRY	DRY	DRY	DRY	DRY
24. Madhya Maharashtra	DRY	DRY	DRY	DRY	DRY
25. Marathawada	DRY	DRY	DRY	DRY	DRY
26. Vidharbha	DRY	DRY	DRY	DRY	DRY
27. Chhattisgarh	ISOL	DRY	DRY	DRY	DRY
28. Coastal Andhra Pradesh	ISOL	ISOL	ISOL	ISOL	ISOL
29. Telangana	ISOL	ISOL	DRY	DRY	DRY
30. Rayalaseema	ISOL	ISOL	ISOL	ISOL	ISOL
31. Tamilnadu & Puducherry	ISOL	ISOL	ISOL	ISOL	ISOL
32. Coastal Karnataka	ISOL	ISOL	ISOL	ISOL	ISOL
33. North Interior Karnataka	ISOL	ISOL	DRY	DRY	DRY
34. South Interior Karnataka	SCT	FWS	SCT	ISOL	ISOL
35. Kerala	SCT	SCT	ISOL	SCT	SCT
36. Lakshadweep	ISOL	ISOL	ISOL	ISOL	ISOL

% Station Reporting Rainfall

% Stations	Category	% Stations	Category
76-100	Widespread (WS/ Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespred (FWS/ Many Places)	1-25	Isolated (ISOL)
No Rain	Dry		

Source: IMD

## 2. Reservoir Status (For the week ending on 23.05.2019)

- **The Central Water Commission** monitors the live storage capacity of **91** important/major reservoirs, having capacity at Full Reservoir Level (FRL) of **161.99** Billion Cubic Meters (BCM), which is about 63% of total reservoir capacity of 257.81 BCM in the country.
- Live Storage in 91 major reservoirs decreased to 33.56 BCM from the previous week's level of 36.05 BCM. Current year's storage position is higher than the last year's storage position of 29.53 BCM and the average of last 10 year's storage position of 32.27 BCM.

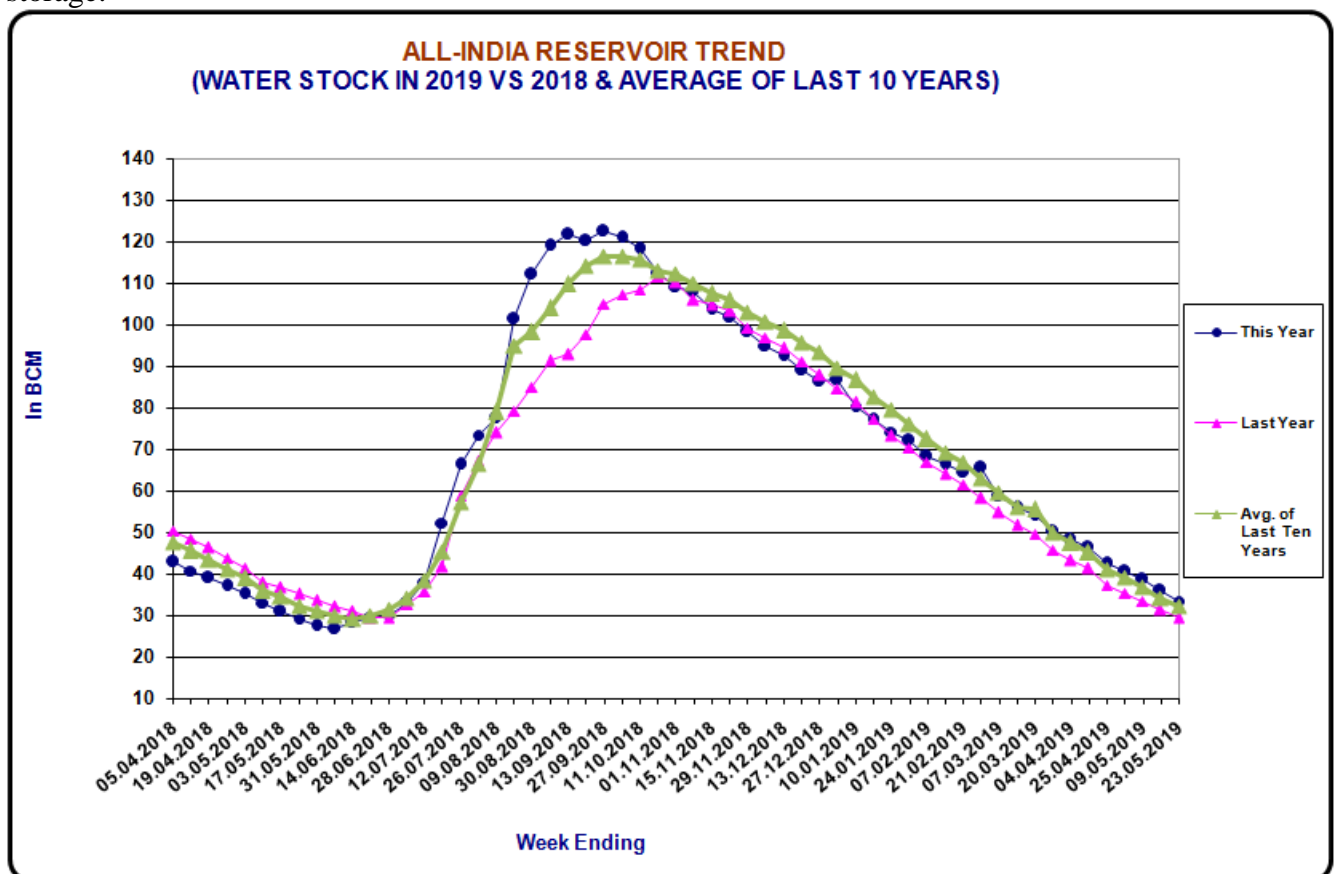
**Table – 2.1 : For 91 major reservoirs of the country**

<u>Period</u>	Storage as % of FRL	Storage as % of last year	Storage as % of 10 year's average level
Current Week	21	114	104
Last Week	22	115	106

The percentage to live capacity at FRL was 18% on 23/05/2018, 22% on 23/05/2017, 18% on 19/05/2016 and 28% on 21/05/2015.

Source: CWC

There were 46 reservoirs having storage more than 80% of normal storage, 19 reservoirs having storage between 51% to 80%, 9 reservoirs having storage between 31% to 50% and 17 reservoirs having storage upto 30% of Normal Storage out of these 6 reservoirs having no live storage.



Source: Central Water Commission

### 3. Fertilizer Position:

**Table – 3.1: Requirement, Receipt, Availability, Sales and Stock position of Major Fertilizers UREA, DAP, MOP, Complex and SSP during Kharif 2018-19 (As on 24.05.2019)**

(in '000 tonnes)

Availability/Sale/Closing Stock	Urea	DAP	MOP	Complex	SSP
<b>Opening Stock as on 01.04.2019</b>	<b>613</b>	<b>833</b>	<b>265</b>	<b>1281</b>	<b>128</b>
<b>Requirement for Kharif 2019</b>	<b>15672</b>	<b>5121</b>	<b>2038</b>	<b>5296</b>	<b>2505</b>
Estimated Requirement during May 2019	2300	802	281	650	356
Cumulative Receipt upto 24.05.2019	3443	1467	379	1040	453
Cumulative Availability upto 24.05.2019	4056	2300	644	2321	581
Cumulative Sales upto 24.05.2019	2668	594	186	478	382
Closing Stock as on 24.05.2019	1388	1706	458	1843	199

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

### 4. Pest & Diseases:

- Incidence of Fall army worm reported at low to moderate intensity on maize crop in Aizawl, Serchhip, Kolasib districts of Mizoram state, Imphal west, Imphal East, Kangpokpi, Thoubal, Bishnupur, Noney, Tamenglong districts of Manipur state, Kamrup, Morigaon, Nagaon, Darrang, Hojai, Karbi Anglong districts of Assam state and Dimapur, Kohima, Kifiri districts of Nagaland state.
- Overall intensity of pests and diseases remained below Economic Threshold Level (ETL).
- No shortage of Chemical / Bio-pesticides was reported from any State / UT.

### 5. **Availability position of seeds and fertilizers has been found satisfactory.**

## 6. Progressive procurement of Rice as on 24.05.2019

Table: 6.1

(lakh tonnes)

State	Target in marketing season 2018-19 (Oct. – Sept.)	Progressive Procurement as on 24.05.2019	
		In Marketing season 2018-2019	In Marketing season 2017-2018
Andhra Pradesh	52.54	39.54	35.77
Telangana	45.00	48.93	32.24
Bihar	8.00	9.28	7.93
Chhattisgarh	40.00	40.80	32.07
Haryana	39.75	39.41	39.92
Jharkhand	2.50	1.53	1.43
Kerala	3.70	4.53	3.19
Madhya Pradesh	13.00	13.95	11.00
Maharashtra	5.50	4.30	1.64
Odisha	37.00	34.65	25.60
Punjab	114.00	113.34	118.39
Tamil Nadu	14.80	11.61	7.38
Uttar Pradesh	33.00	32.33	28.75
Uttarakhand	5.00	4.62	0.38
West Bengal	31.00	16.58	0.42
<b>All-India</b>	<b>448.04</b>	<b>416.41</b>	<b>346.63</b>