

**F. No. 3-1/ 2019-20-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: 19.06.2019

**SUBJECT: MINUTES OF THE MEETING OF THE CROP WEATHER WATCH GROUP HELD ON  
14.06.2019.**

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

- *The All-India level rainfall during the week i.e. 06<sup>th</sup> June, 2019 – 12<sup>th</sup> June, 2019 has been 49% 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 78% in Central India, by 54% in East & North East India, by 24% in South Peninsula and by 16% in North West India.*
- *The cumulative rainfall in the country during the pre monsoon season i.e. 01<sup>st</sup> June, 2019 to 12<sup>th</sup> June, 2019 has been 45% 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 70% in Central India, 51% in East and North East India, 24% in South Peninsula and 11% in North West India.*
- *For monsoon season 01.06.2019 to 12.06.2019 out of 36 met sub-divisions, 2 met sub-divisions constituting 7% of the total area of the country has received large excess/excess rainfall, 5 met sub-divisions constituting 11% of the total area of the country has received normal rainfall, 28 met sub-divisions constituting 78% of the total area of the country has received deficient/large deficient rainfall and 1 met sub-division constituting 3% of the total area of the country has received no rain.*
- *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 13<sup>th</sup> June, 2019 has been 29.19 BCM as against 28.01 BCM on 13.06.2018 (last year) and 28.97 BCM of normal (average of the last 10 years) storage. Current year's storage is 104% of last year's storage and nearly 101% of average of last 10 year's storage.*
- *All-India progressive procurement of Rice as on 14.06.2019 for 2018-19 was at 425.36 lakh tonnes against the procurement of 356.05 lakh tonnes in the corresponding period of last year. The procurement of wheat for the Rabi Marketing Season (RMS) 2019-20 was 340.00 lakh tonnes against the procurement of 350.60 lakh tonnes in the corresponding period of RMS 2018-19.*

## 1. Pre Monsoon Season (March – May) during the week ending 12<sup>th</sup> June, 2019

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

- **Rainfall during the week (06<sup>th</sup> June, 2019 to 12<sup>th</sup> June, 2019)** Rainfall was large excess/excess in 3 met sub-divisions, normal in 4 met sub-divisions, deficient/large deficient in 28 sub-divisions and no rain in 1 met sub-division out of 36 meteorological sub-divisions.
- **Cumulative rainfall (01<sup>st</sup> June, 2019 to 12<sup>th</sup> June, 2019)** Rainfall was large excess/excess in 2 met sub-divisions, normal in 5 met sub-divisions and deficient/large deficient in 28 sub-divisions out of 36 meteorological sub-divisions and no rain in 1 met sub-division 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 (12.06.2019)				Cumulative (01.06.19 to 12.06.19)			
	(in mm)		Devi- ation (%)	Cate- gory	(in mm)		Devi- ation (%)	Cate- gory
	Actual	Normal			Actual	Normal		
North-West India	10.3	12.2	-16	N	16.2	18.2	-11	N
Central India	5.8	25.8	-78	LD	10.7	35.8	-70	LD
South Peninsular India	26.8	35.3	-24	D	41.5	54.3	-24	D
East & North-East India	34.2	74.2	-54	D	56.5	114.7	-51	D
Country as a whole	15.8	31.2	-49	D	25.8	46.6	-45	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> June, 2019 to 12<sup>th</sup> June, 2019**

No. of Sub-Divisions with rainfall	For the period from 1 <sup>st</sup> June to					
	11 JUN 2014	10 JUN 2015	15 JUN 2016	14 JUN 2017	13 JUN 2018	12 JUN 2019
Large Excess	-	-	-	09	11	01
Excess	03	11	06	09	10	01
Normal	05	06	10	10	05	05
<b>Total</b>	<b>08</b>	<b>17</b>	<b>16</b>	<b>28</b>	<b>26</b>	<b>07</b>
Deficient	10	07	14	08	06	11
Large Deficient	-	-	-	00	04	17
Scanty	18	12	06	-	-	-
No rain	00	00	00	00	00	01
<b>Total</b>	<b>28</b>	<b>19</b>	<b>20</b>	<b>08</b>	<b>10</b>	<b>29</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>(-) 44</b>	<b>0%</b>	<b>(-) 19%</b>	<b>18%</b>	<b>19%</b>	<b>(-) 45%</b>

Source: IMD

### ➤ Sub-division-wise 5 days rainfall forecast from 14<sup>th</sup> June, 2019 to 18<sup>th</sup> June, 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>13 JUN</b>	<b>14 JUN</b>	<b>15 JUN</b>	<b>16 JUN</b>	<b>17 JUN</b>	<b>18 JUN</b>	<b>19 JUN</b>
1	ANDAMAN & NICO.ISLANDS	FWS*	FWS*	FWS*	FWS*	WS*	WS	WS
2	ARUNACHAL PRADESH	ISOL <sup>TS</sup>	SCT <sup>TS</sup>	FWS	WS*	WS	WS	WS
3	ASSAM & MEGHALAYA	SCT <sup>TS</sup>	FWS <sup>TS*</sup>	WS*	WS*	WS*	WS*	WS*
4	NAGA.MANI.MIZO.& TRIPURA	FWS <sup>TS</sup>	WS <sup>TS*</sup>	WS*	WS*	WS	WS	WS
5	SUB-HIM.W. BENG. & SIKKIM	SCT*	SCT	FWS*	FWS <sup>TS**</sup>	WS <sup>TS</sup>	FWS	WS
6	GANGETIC WEST BENGAL	SCT <sup>TS</sup>	SCT <sup>TS</sup>	ISOL	ISOL	SCT <sup>TS</sup>	ISOL	ISOL
7	ODISHA	SCT <sup>TS</sup>	SCT <sup>TS</sup>	SCT <sup>TS</sup>	SCT <sup>TS</sup>	FWS <sup>TS</sup>	SCT	SCT
8	JHARKHAND	ISOL <sup>TS</sup> ⚡	ISOL <sup>TS</sup> ⚡	ISOL <sup>TS</sup> ⚡	ISOL <sup>TS</sup>	SCT	ISOL	ISOL
9	BIHAR	ISOL <sup>TS</sup>	ISOL <sup>TS</sup>	ISOL	ISOL	SCT <sup>TS</sup>	FWS	FWS
10	EAST UTTAR PRADESH	ISOL <sup>TS</sup>	ISOL	ISOL	ISOL <sup>TS</sup>	SCT <sup>TS</sup>	ISOL	ISOL
11	WEST UTTAR PRADESH	ISOL <sup>TS</sup>	DRY	ISOL <sup>TSDS</sup>	SCT <sup>TS</sup>	SCT <sup>TS</sup>	ISOL	ISOL
12	UTTARAKHAND	ISOL	DRY	ISOL	SCT <sup>TS#</sup>	WS <sup>TS#</sup>	SCT	SCT
13	HARYANA CHD. & DELHI	ISOL ⚡	DRY	ISOL <sup>TSDS</sup>	SCT <sup>TS</sup>	SCT <sup>TS</sup>	ISOL	ISOL
14	PUNJAB	ISOL	DRY	SCT <sup>TSDS</sup>	SCT <sup>TS</sup>	SCT <sup>TS</sup>	ISOL	ISOL
15	HIMACHAL PRADESH	SCT	DRY	ISOL	FWS <sup>TS#</sup>	WS <sup>TS#</sup>	SCT	ISOL
16	JAMMU & KASHMIR	ISOL	DRY	ISOL	FWS <sup>TS#</sup>	WS <sup>TS#</sup>	SCT	SCT
17	WEST RAJASTHAN	SCT <sup>TSDS</sup> ⚡	ISOL <sup>TSDS</sup> ⚡	ISOL <sup>TSDS</sup> ⚡	ISOL	SCT <sup>TS</sup>	SCT	ISOL
18	EAST RAJASTHAN	ISOL <sup>TSDS</sup>	ISOL <sup>TSDS</sup>	ISOL <sup>TSDS</sup>	ISOL	SCT <sup>TS</sup>	SCT	SCT
19	WEST MADHYA PRADESH	ISOL <sup>TS</sup> ⚡	DRY ⚡	ISOL <sup>TSDS</sup> ⚡	ISOL <sup>TS</sup> ⚡	ISOL	ISOL	ISOL
20	EAST MADHYA PRADESH	ISOL <sup>TS</sup> ⚡	ISOL ⚡	DRY ⚡	ISOL ⚡	ISOL	ISOL	ISOL
21	GUJARAT REGION D.D. & N.H.	FWS <sup>TS*</sup>	FWS*	SCT	SCT	SCT	SCT	ISOL
22	SAURASTRA KUTCH & DIU	WS <sup>TS***</sup>	WS <sup>***</sup>	FWS <sup>**</sup>	FWS*	FWS*	FWS	ISOL
23	KONKAN & GOA	WS*	WS*	WS*	WS*	WS*	WS*	WS*
24	MADHYA MAHARASHTRA	ISOL <sup>TS</sup>	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
25	MARATHAWADA	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
26	VIDARBHA	ISOL ⚡	ISOL ⚡	ISOL <sup>TS</sup> ⚡	SCT <sup>TS</sup> ⚡	ISOL	ISOL	ISOL
27	CHHATTISGARH	ISOL <sup>TS</sup> ⚡	ISOL <sup>TS</sup> ⚡	ISOL <sup>TS</sup> ⚡	ISOL <sup>TS</sup> ⚡	ISOL <sup>TS</sup>	SCT	ISOL
28	COASTAL A. PR. & YANAM	ISOL <sup>TS</sup> ⚡	ISOL <sup>TS</sup> ⚡	ISOL <sup>TS</sup> ⚡	SCT <sup>TS*</sup> ⚡	SCT	SCT	SCT
29	TELANGANA	ISOL ⚡	ISOL ⚡	ISOL ⚡	ISOL ⚡	ISOL	SCT	SCT
30	RAYALASEEMA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
31	TAMIL. PUDU. & KARAICAL	ISOL <sup>TS</sup> ⚡	ISOL <sup>TS</sup> ⚡	ISOL <sup>TS</sup> ⚡	ISOL ⚡	ISOL	ISOL	ISOL
32	COASTAL KARNATAKA	WS <sup>**</sup>	WS*	WS*	WS*	WS*	WS*	WS*
33	NORTH INT.KARNATAKA	SCT <sup>TS*</sup>	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
34	SOUTH INT.KARNATAKA	SCT*	SCT*	SCT	SCT	SCT	SCT	SCT
35	KERALA & MAHE	WS*	WS	FWS	FWS	WS*	WS*	WS*
36	LAKSHADWEEP	FWS	FWS	FWS	FWS	FWS	FWS	FWS
<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	14-Jun Today	15Jun Sat	16Jun Sun	17Jun Mon	18Jun Tue
1. Andaman & Nicobar Islands	FWS	FWS	FWS	WS	WS
2. Arunachal Pradesh	SCT	FWS	WS	WS	WS
3. Assam & Meghalaya	FWS	WS	WS	WS	WS
4. N. M. M. & T.	WS	WS	WS	WS	WS
5. S.H. West Bengal & Sikkim	SCT	FWS	FWS	WS	WS
6. Gangetic West Bengal	SCT	ISOL	ISOL	SCT	SCT
7. Odisha	SCT	SCT	SCT	FWS	FWS
8. Jharkhand	ISOL	ISOL	ISOL	SCT	SCT
9. Bihar	ISOL	ISOL	ISOL	SCT	SCT
10. East Uttar Pradesh	ISOL	ISOL	ISOL	SCT	SCT
11. West Uttar Pradesh	DRY	ISOL	SCT	SCT	SCT
12. Uttarakhand	DRY	ISOL	SCT	WS	WS
13. Haryana, Chd & Delhi	DRY	ISOL	SCT	SCT	SCT
14. Punjab	DRY	SCT	SCT	SCT	SCT
15. Himachal Pradesh	DRY	ISOL	FWS	WS	WS
16. Jammu & Kashmir	DRY	ISOL	FWS	WS	WS
17. West Rajsthan	ISOL	ISOL	ISOL	SCT	SCT
18. East Rajasthan	ISOL	ISOL	ISOL	SCT	SCT
19. West Madhya Pradesh	DRY	ISOL	ISOL	ISOL	ISOL
20. East Madhya Pradesh	ISOL	DRY	ISOL	ISOL	ISOL
21. Gujarat Region	FWS	SCT	SCT	SCT	SCT
22. Saurashtra & Kutch	WS	FWS	FWS	FWS	FWS
23. Konkan & Goa	WS	WS	WS	WS	WS
24. Madhya Maharashtra	ISOL	ISOL	ISOL	ISOL	ISOL
25. Marathawada	DRY	DRY	DRY	ISOL	ISOL
26. Vidharbha	ISOL	ISOL	SCT	ISOL	ISOL
27. Chhattisgarh	ISOL	SCT	SCT	SCT	SCT
28. Coastal A. P. & Yanam	ISOL	ISOL	SCT	SCT	SCT
29. Telangana	ISOL	ISOL	ISOL	ISOL	ISOL
30. Rayalaseema	ISOL	ISOL	ISOL	ISOL	ISOL
31. T.N.,Puducherry & Karaikal	ISOL	ISOL	ISOL	ISOL	ISOL
32. Coastal Karnataka	WS	WS	WS	WS	WS
33. North Interior Karnataka	ISOL	ISOL	ISOL	ISOL	ISOL
34. South Interior Karnataka	SCT	SCT	SCT	SCT	SCT
35. Kerala & Mahe	WS	FWS	FWS	WS	WS
36. Lakshadweep	FWS	FWS	FWS	FWS	FWS

**% Station Reporting Rainfall**

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

Source: IMD

## 2. Reservoir Status (For the week ending on 13.06.2019)

- **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 29.19 BCM from the previous week's level of 30.46 BCM. Current year's storage position is higher than the last year's storage position of 28.01 BCM and the average of last 10 year's storage position of 28.97 BCM.

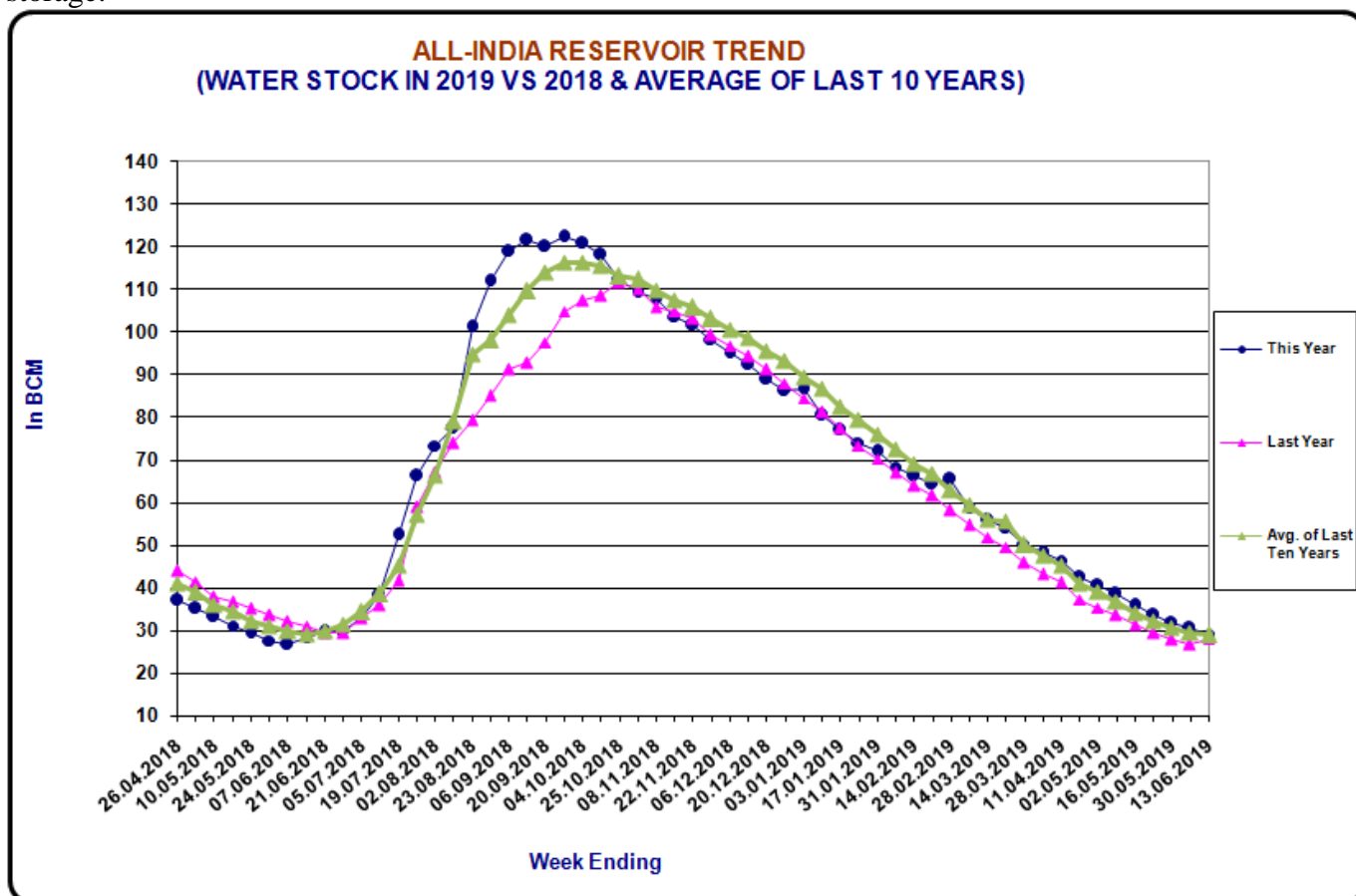
**Table – 2.1 : For 91 major reservoirs of the country**

Period	Storage as % of FRL	Storage as % of last year	Storage as % of 10 year's average level
Current Week	18	104	101
Last Week	19	114	103

The percentage to live capacity at FRL was 17% on 13/06/2018, 20% on 13/06/2017, 16% on 09/06/2016 and 26% on 11/06/2015.

Source: CWC

There were 39 reservoirs having storage more than 80% of normal storage, 20 reservoirs having storage between 51% to 80%, 10 reservoirs having storage between 31% to 50% and 22 reservoirs having storage upto 30% of Normal Storage out of these 8 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 13.06.2019)**

(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 June 2019	2798	999	392	971	474
Cumulative Receipt upto 13.06.2019	5024	2215	531	1582	767
Cumulative Availability upto 13.06.2019	5637	3048	796	2863	895
Cumulative Sales upto 13.06.2019	4385	1304	362	1004	691
Closing Stock as on 13.06.2019	1252	1744	434	1859	204

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

### 4. Pest & Diseases:

- Incidence of *Mythimna separata* reported in a very small patch at **Medium** to **Severe** intensity on Rice crop in East Sikkim/South Sikkim districts of Sikkim 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 14.06.2019

Table: 6.1

(lakh tones)

State	Target in marketing season 2018-19 (Oct. – Sept.)	Progressive Procurement as on 14.06.2019	
		In Marketing season 2018-2019	In Marketing season 2017-2018
<b>Andhra Pradesh</b>	<b>52.54</b>	42.30	37.83
<b>Telangana</b>	<b>45.00</b>	51.75	35.85
<b>Bihar</b>	<b>8.00</b>	9.28	7.93
<b>Chhattisgarh</b>	<b>40.00</b>	40.80	32.07
<b>Haryana</b>	<b>39.75</b>	39.41	39.92
<b>Jharkhand</b>	<b>2.50</b>	1.53	1.43
<b>Kerala</b>	<b>3.70</b>	4.62	3.23
<b>Madhya Pradesh</b>	<b>13.00</b>	13.95	11.00
<b>Maharashtra</b>	<b>5.50</b>	4.85	1.72
<b>Odisha</b>	<b>37.00</b>	36.59	28.65
<b>Punjab</b>	<b>114.00</b>	113.34	118.39
<b>Tamil Nadu</b>	<b>14.80</b>	11.77	7.90
<b>Uttar Pradesh</b>	<b>33.00</b>	32.33	28.75
<b>Uttarakhand</b>	<b>5.00</b>	4.62	0.38
<b>West Bengal</b>	<b>31.00</b>	17.13	0.49
<b>All-India</b>	<b>448.04</b>	<b>425.36</b>	<b>356.05</b>