



Government of India
Earth System Science Organization
Ministry of Earth Sciences
India Meteorological Department

Dated: 09 August, 2018

Current Weather Status and Outlook for next two weeks (9 to 22 August, 2018)

Highlights of the past week (02 to 08 August, 2018)

Southwest Monsoon

- **Forecast for the Second Half of the Southwest Monsoon Season:** Quantitatively, the rainfall for the country as a whole during the second half of the season (August and September) is likely to be 95% of Long Period Average (LPA) with a model error of $\pm 8\%$. The rainfall during August 2018 is likely to be $96 \pm 9\%$ of LPA and expected to be higher than predicted in June.
- A Low pressure area formed over northwest Bay of Bengal & neighbourhood in the 2nd half of the week, subsequently concentrated into a Depression and crossed north Odisha –West Bengal coasts and weakened into a Well Marked Low Pressure Area over Chhattisgarh & neighbourhood at the end of the week. It caused fairly widespread to widespread rainfall activity with heavy to very heavy and extremely heavy falls over eastern parts of Central India.
- During the week, southwest monsoon was below normal over all the four regions of India. It was excess over 3, normal over 8 and deficient to large deficient over 25 sub-divisions of Country.

Weekly Rainfall Scenario (02 to 08 August, 2018)

During the week, rainfall was below Long Period Average (LPA) by 33% over the country as a whole. Details are given below:

Regions	Actual Rainfall (mm)	Normal Rainfall (mm)	% Departure from LPA
Country as a whole	43.2	64.6	-33%
Northwest India	47.9	54.5	-12%
Central India	35.9	79.2	-55%
South Peninsula	26.6	42.1	-37%
East & northeast India	70.3	80.5	-13%

The Meteorological sub-division-wise rainfall for the week is given in **Annexure I**.

Monsoon Seasonal Rainfall Scenario (01 June to 08 August, 2018)

For the country as a whole, cumulative rainfall during southwest monsoon 2018 upto 08 August, 2018 was below LPA by 10%. Details of the rainfall distribution over the four broad homogeneous regions of India are given below:

Regions	Actual Rainfall (mm)	Normal Rainfall (mm)	% Departure from LPA
Country as a whole	474.8	526.7	-10%
Northwest India	336.7	350.2	-4%
Central India	552.0	579.2	-5%
South Peninsula	412.4	427.5	-4%
East & northeast India	655.0	878.1	-25%

Cumulative seasonal rainfall is given in **Annexure II**.

Chief synoptic conditions as on 09 August, 2018

- A low pressure area lies over central parts of north Madhya Pradesh and neighbourhood.
- The axis of monsoon trough at mean sea level passes south of its normal position.
- **A fresh low pressure area is likely to form over northwest Bay of Bengal and neighbourhood around 13th August.**
- A cyclonic circulation lies over southeast Rajasthan & neighbourhood between 1.5 km & 5.8 km above mean sea level tilting southwards with height.
A cyclonic circulation lies over west central Bay of Bengal & adjoining south Coastal Andhra Pradesh at 7.6 km above mean sea level.

Large scale features as on 09 August, 2018

- The ENSO(EI Niño–Southern Oscillation) neutral conditions continued to prevail over equatorial Pacific Ocean and the latest MMCFS(Monsoon Mission Coupled Forecasting System) forecast indicates that ENSO neutral conditions are likely to persist during the monsoon season.
- Currently, neutral IOD (+0.05°C) conditions are prevailing over equatorial Indian Ocean. Neutral IOD conditions are likely to prevail during next 2 weeks.
- Madden Julian Oscillation (MJO) index is in Phase-6 with high amplitude, it is likely to move in Phase-7 with high amplitude towards end of next one week.
- The real time MISO forecast of IITM, MoES based on 08 August indicates that the MISO index is currently located in phase 8 (southern tip and peninsular India) with amplitude < 1. It is likely to move gradually to phase 1 (Peninsula and adjoining central India) with decreasing amplitude during next two weeks.

Forecast for next two week

Weather systems & associated Precipitation during Week 1(09 to 15 August, 2018) and Week 2 (16 to 22 August, 2018)

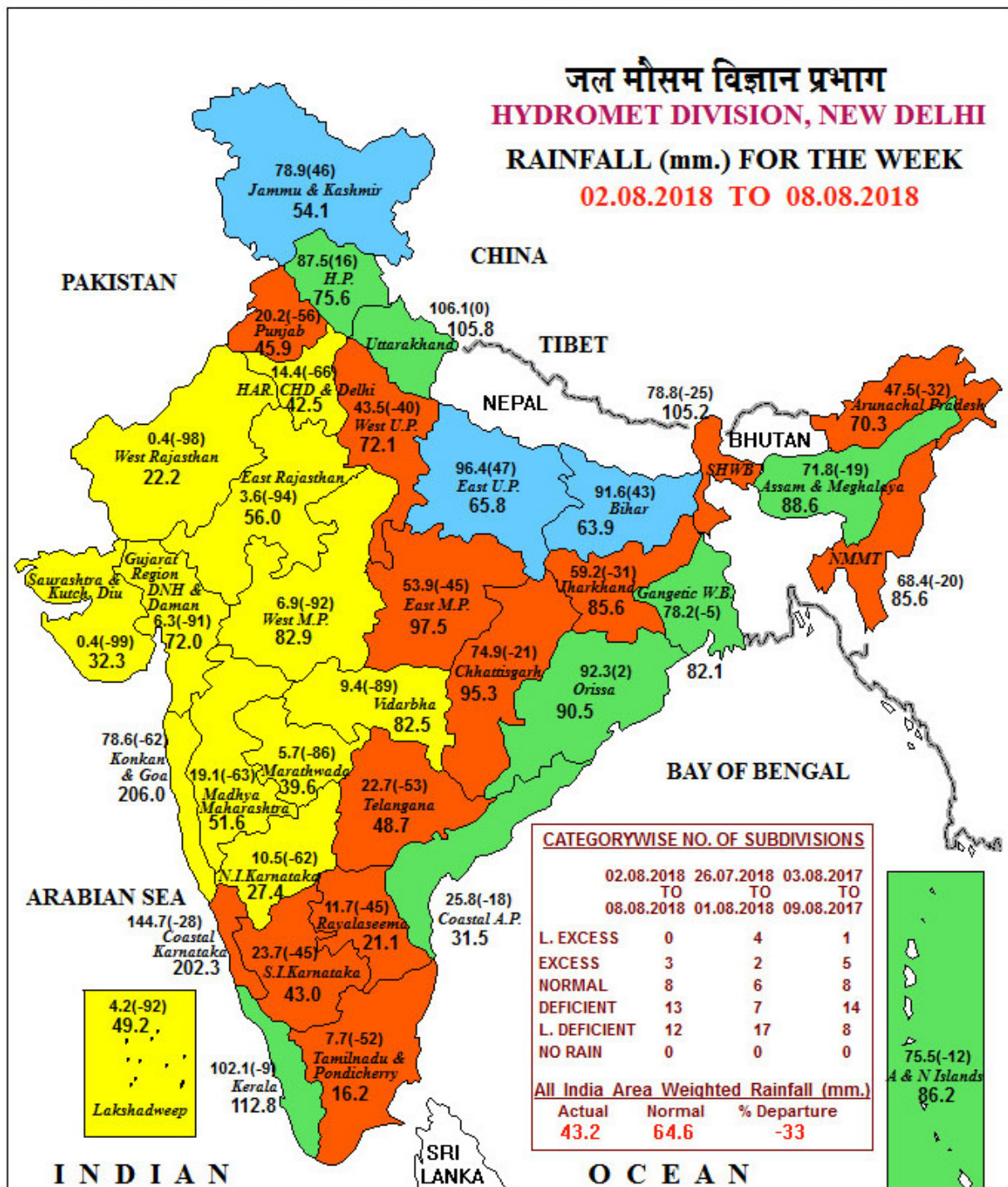
- **Under the influence of a fresh low pressure area, which is likely to form over northwest Bay of Bengal & neighbourhood around 13th August and strong southerly winds from Bay of Bengal to northeastern states**, fairly widespread to widespread rainfall with heavy to very heavy rainfall at isolated places very likely over northeastern states, West Bengal, Odisha, Jharkhand, Chhattisgarh, Bihar, East Uttar Pradesh, Uttarakhand, Himachal Pradesh during most days of the 1st week.
- Fairly widespread to widespread rainfall with heavy rainfall at isolated places is also very likely along west coast during most days of the 1st week.
- Scattered to fairly widespread rainfall activity is very likely to occur over remaining parts of the country outside West Rajasthan, Gujarat state, Marathwada, Telengana, Rayalaseema and Tamilnadu, where light isolated rainfall is very likely to occur during the 1st week (**Annexure III**).
- **Overall rainfall activity is likely to be normal to above normal rainfall activity is very likely to confine over most parts of northwest (excluding Rajasthan) & east India and extreme south Peninsula during 1st week.**
- **During week 2, rainfall scenario likely to improve further and normal to above normal rainfall activity is very likely to confine over northwest (except Uttar Pradesh), central and east India (Annexure VI).**

Cyclogenesis:

- No cyclogenesis likely over Indian Ocean during next one week.

Next weekly update will be issued on next Thursday i.e. 16 August, 2018

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LEGEND: ■ L. EXCESS (+60% OR MORE) ■ EXCESS (+20% TO +59%) ■ NORMAL (+19% TO -19%)
■ DEFICIENT (-20% TO -59%) ■ L. DEFICIENT (-60% TO -99%) ■ NO RAIN (-100%) NO DATA

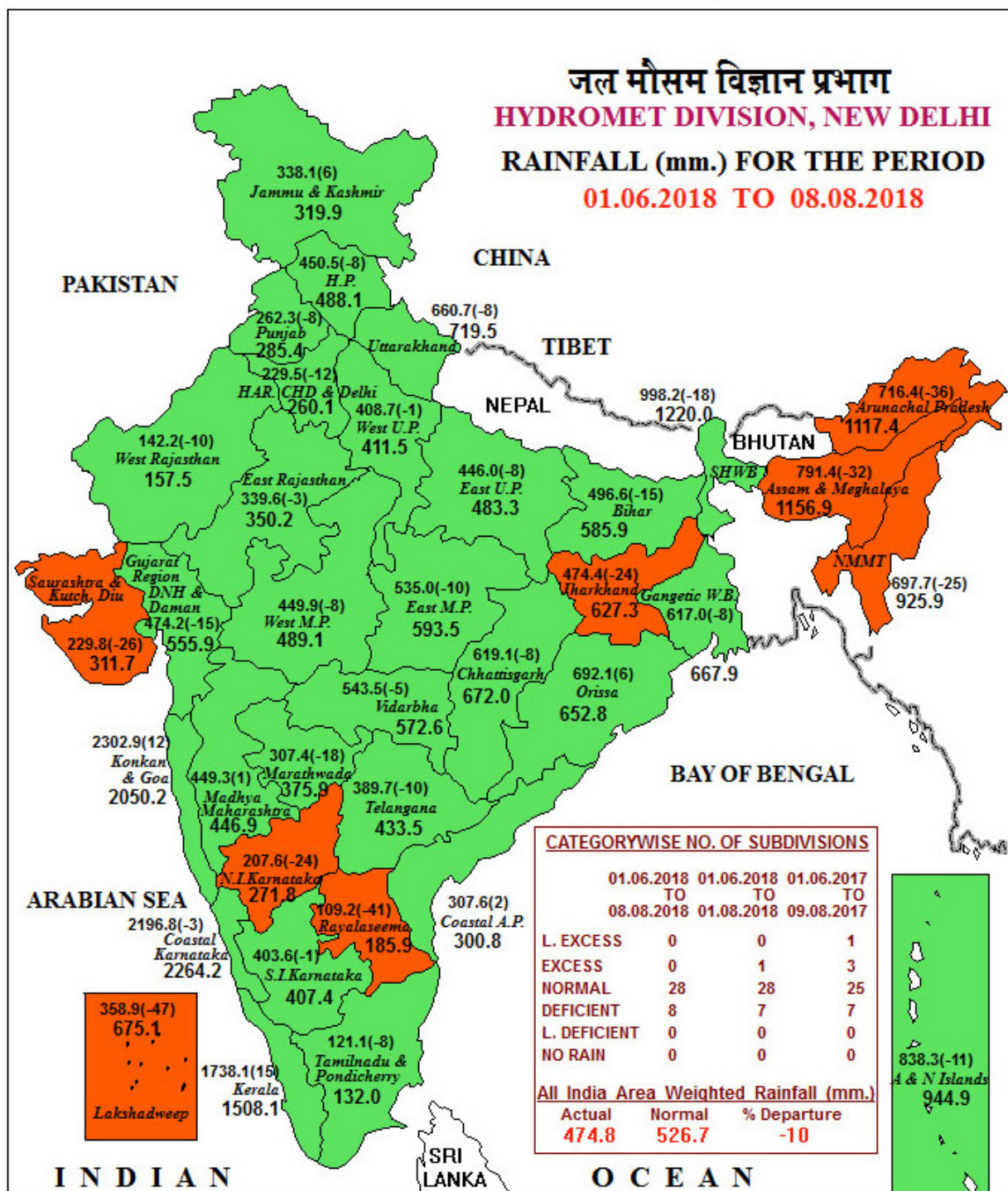
NOTES:

(a) Rainfall figures are based on operational data.

(b) Small figures indicate actual rainfall (mm.), while bold figures indicate Normal rainfall (mm.)
 Percentage Departures of Rainfall are shown in Brackets.

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Annexure III

METEOROLOGICAL SUB-DIVISIONWISE WEEKLY RAINFALL FORECAST & Wx. WARNINGS-2018

Sr. No	MET.SUB-DIVISIONS	09 AUG	10 AUG	11 AUG	12 AUG	13 AUG	14 AUG	15 AUG
1	ANDAMAN & NICO.ISLANDS	FWS	WS	WS	WS*	FWS*	FWS	FWS
2	ARUNACHAL PRADESH	FWS	FWS*	WS*	WS*	FWS	FWS	SCT
3	ASSAM & MEGHALAYA	FWS*	WS*	WS*	WS	FWS	FWS*	FWS
4	NAGA.MANI.MIZO.& TRIPURA	FWS*	WS*	WS*	FWS	FWS	FWS*	FWS
5	SUB-HIM.W. BENG. & SIKKIM	SCT	FWS	FWS*	WS*	WS*	WS	FWS
6	GANGETIC WEST BENGAL	SCT	SCT	FWS	WS*	WS*	WS	WS
7	ODISHA	SCT	SCT	FWS*	FWS*	FWS*	FWS	FWS*
8	JHARKHAND	SCT	SCT	WS	WS**	WS*	FWS	FWS
9	BIHAR	ISOL	SCT	WS*	WS*	WS	FWS	FWS
10	EAST UTTAR PRADESH	SCT	FWS	WS**	WS**	WS*	FWS*	FWS
11	WEST UTTAR PRADESH	SCT	FWS	WS*	FWS*	FWS*	SCT*	SCT
12	UTTARAKHAND	FWS	WS*	WS**	WS**	WS**	WS**	WS*
13	HARYANA CHD. & DELHI	SCT	SCT	FWS*	SCT	SCT	FWS	FWS
14	PUNJAB	SCT	SCT	FWS	SCT	SCT	SCT	SCT
15	HIMACHAL PRADESH	FWS	FWS	WS*	WS**	WS**	FWS*	FWS*
16	JAMMU & KASHMIR	FWS	SCT	FWS	FWS*	WS*	FWS	SCT
17	WEST RAJASTHAN	FWS*	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
18	EAST RAJASTHAN	WS*	FWS	ISOL	ISOL	ISOL	ISOL	ISOL
19	WEST MADHYA PRADESH	WS*	FWS*	SCT	SCT	SCT	SCT	SCT
20	EAST MADHYA PRADESH	WS*	WS	FWS	FWS*	FWS*	FWS	SCT
21	GUJARAT REGION D.D. & N.H.	FWS*	SCT	ISOL	ISOL	ISOL	ISOL	SCT
22	SAURASTRA KUTCH & DIU	FWS*	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
23	KONKAN & GOA	WS*	WS	WS	WS	WS	WS*	WS
24	MADHYA MAHARASHTRA	FWS	SCT	SCT	SCT	SCT	SCT	SCT
25	MARATHAWADA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	SCT
26	VIDARBHA	FWS	SCT	SCT	SCT	SCT	SCT	SCT
27	CHHATTISGARH	FWS	FWS	FWS*	WS**	WS*	WS	FWS*
28	COASTAL ANDHRA PRADESH	SCT*	ISOL	ISOL	SCT	SCT	SCT	SCT
29	TELANGANA	SCT	SCT	ISOL	ISOL	ISOL	SCT	SCT
30	RAYALASEEMA	SCT	ISOL	ISOL	ISOL	SCT	SCT	ISOL
31	TAMILNADU & PUDUCHERRY	SCT**	ISOL*	SCT	SCT	ISOL	ISOL	ISOL
32	COASTAL KARNATAKA	WS**	WS*	WS	WS	WS*	WS*	WS*
33	NORTH INT.KARNATAKA	FWS	SCT	SCT	SCT	FWS	FWS	SCT
34	SOUTH INT.KARNATAKA	FWS**	FWS*	FWS	FWS	FWS	FWS*	FWS*
35	KERALA	WS**	WS*	WS	WS	WS*	WS*	WS*
36	LAKSHADWEEP	FWS	FWS	FWS	FWS	FWS	FWS	SCT

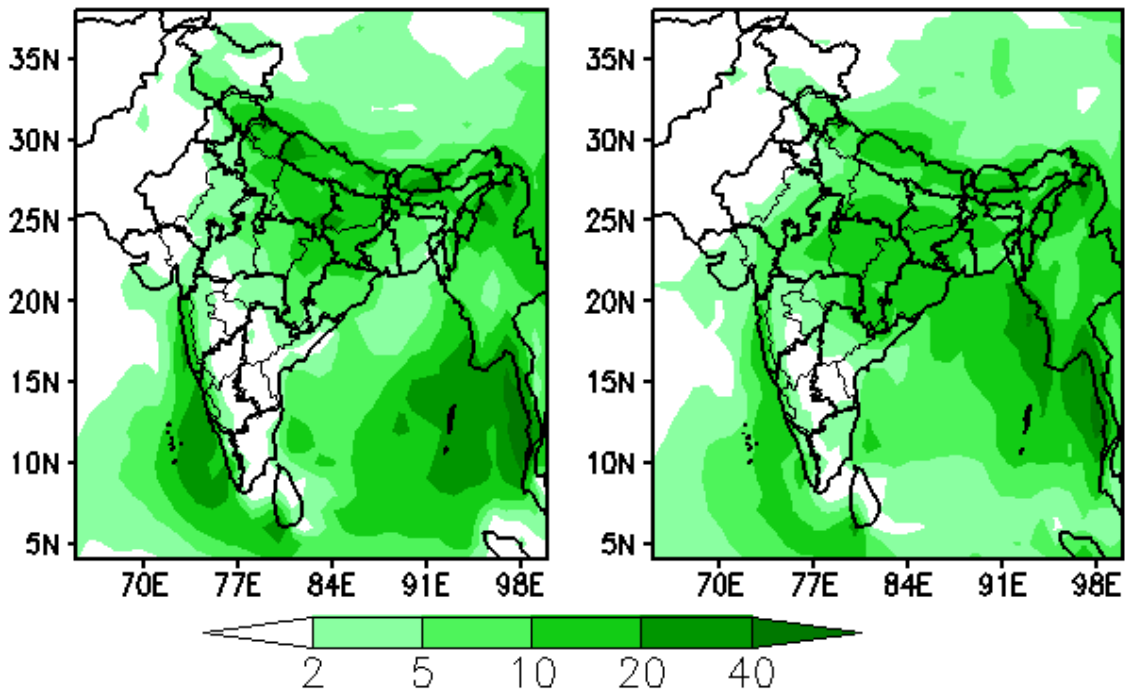
LEGENDS:

WS	WIDE SPREAD / MOST PLACES (76-100%)	FWS	FAIRLY WIDE SPREAD / MANY PLACES (51% to 75%)
SCT	SCATTERED / FEW PLACES (26% to 50%)	ISOL	ISOLATED (up to 25%)
			D/DRY
			NIL RAINFALL
* 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)
⚡ THUNDERSTORM WITH SQUALL/GUSTY WIND	DS/TS DUST/THUNDERSTORM		⬆️ SEVERE HEAT WAVE (> +6.4)
			⬇️ COLD WAVE (-4.5°C to -6.4°C)
			⬇️ SEVERE COLD WAVE (< -6.4)

Actual Rainfall (mm/day)

(Week1: 10Aug-16Aug)

(Week2: 17Aug-23Aug)



Rainfall Anomaly (mm/day)

(Week1: 10Aug-16Aug)

(Week2: 17Aug-23Aug)

