



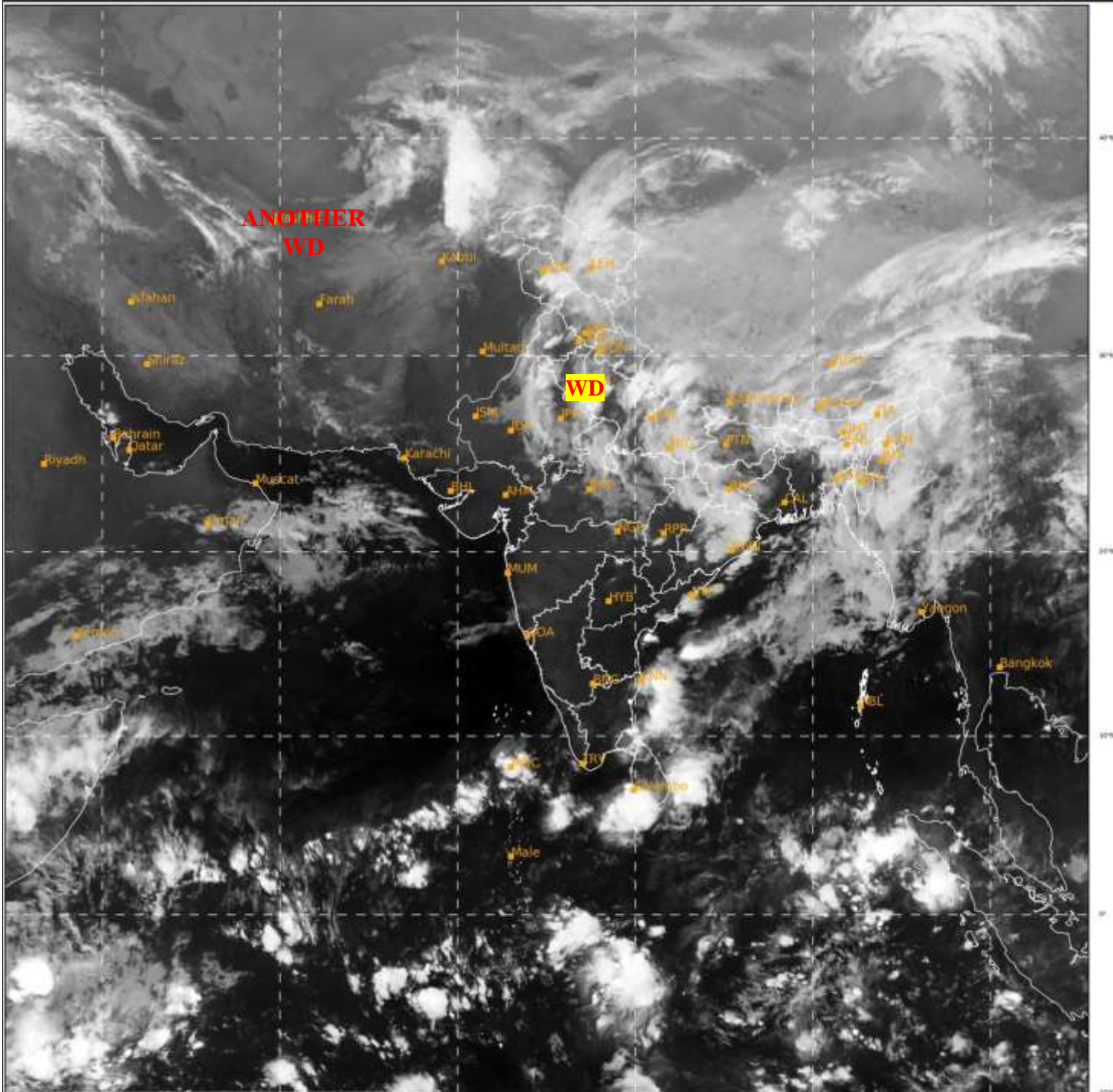
भारत मौसम विज्ञान विभाग  
पृथ्वी विज्ञान मंत्रालय  
India Meteorological Department  
Ministry of Earth Sciences



**SATELLITE BULLETIN BASED ON SATELLITE  
IMAGERIES AND PRODUCTS**  
**20.03.2023 TIME 0000 UTC**

SAT : INSAT-3D IMG  
IMG\_TIR1 10.8 um  
LIC Mercator

20-03-2023/(0000 to 0026) GMT  
20-03-2023/(0530 to 0556) IST



527

940

IMD, DELHI

TCIN50 DEMS 200000

SATELLITE BULLETIN BASED ON INSAT-3D PIC OF 200000 UTC (.)

REGION COVERED BETWEEN LAT 50.0°N TO 35.0°S AND LONG 40.0°E TO 125.0°E (.)

**SALIENT FEATURES:-**

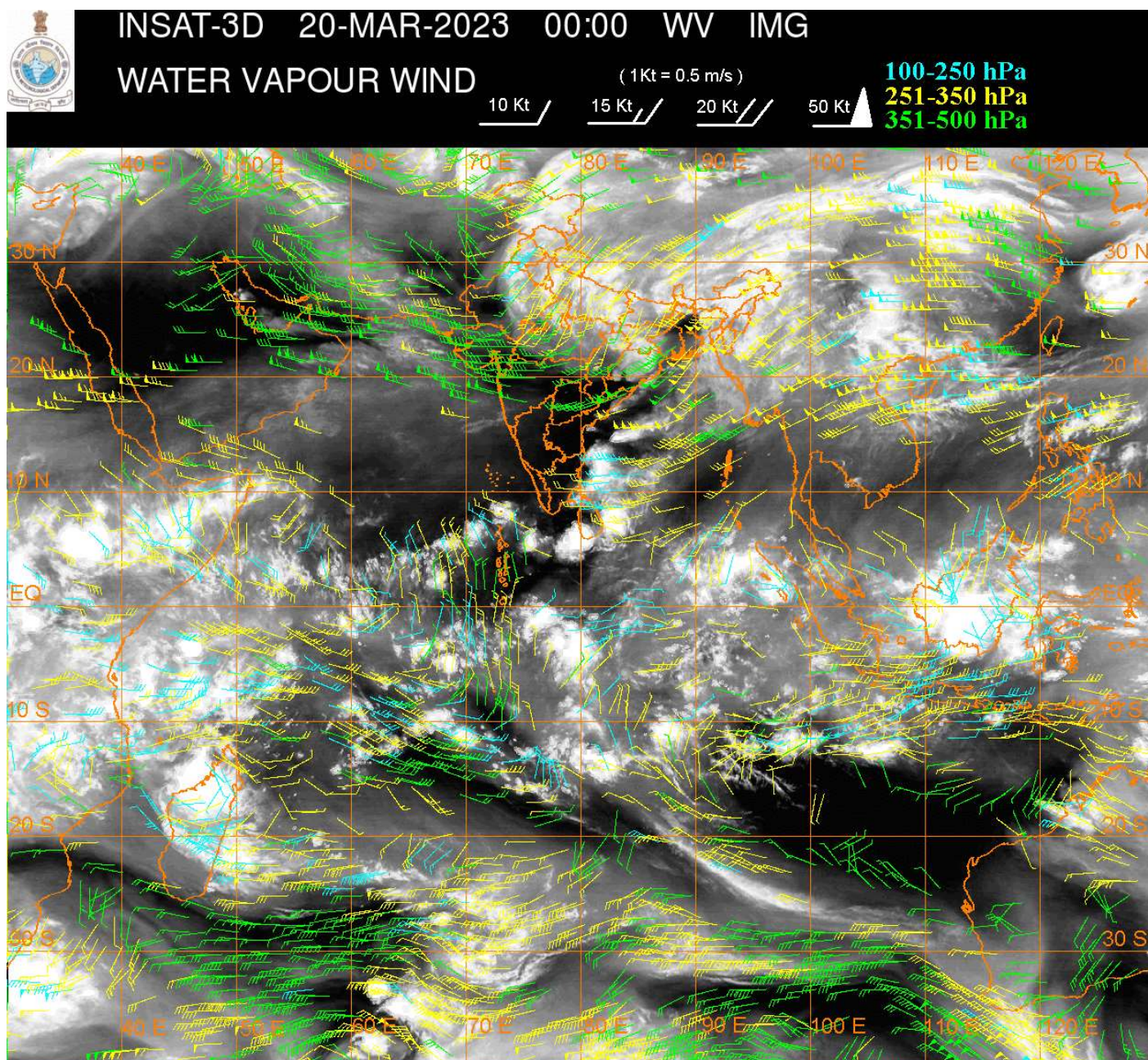
**WESTERN DISTURBANCE (WD):-**

SCT TO BKN MULTILAYERED CLOUDS OVER LADAKH J&K HP UTRKND PJB HARY DLH RAJ MP UP NEPAL TIBET ADJ CHINA IN ASSW **WD** OVER THE AREA (.)

SCT MULTILAYERED CLOUDS OVER E IRAN ADJ N AFGAN AND N/HOOD IN ASSW **ANOTHER WD** OVER THE AREA (.)

## THUNDERSTORM / CONVECTIVE ACTIVITY:-

INTENSE THUNDERSTORM / CONVECTIVE AVTIVITY OBSERVED OVER J&K PJB NW RAJ (MINIMUM CTT **MINUS 65** DEG CEL) UP (MINIMUM CTT **MINUS 75** DEG CEL) N CHTGH ORS JHRKND BHR SHWB (MINIMUM CTT **MINUS 60** DEG CEL) SHWB SKM NE STATES (MINIMUM CTT **MINUS 60** DEG CEL) (.)



## CLOUDS DESCRIPTION WITHIN INDIA:-

### NORTH:-

SCT TO BKN LOW/MED CLOUDS WITH EMBDD INT TO V INT CONVTN OVER N UP (MINIMUM CTT **MINUS 75** DEG CEL) (.) SCT TO BKN LOW/MED CLOUDS WITH EMBDD MOD TO INT CONVTN OVER LADAKH J&K HP UTRKND S UP (MINIMUM CTT **MINUS 65** DEG CEL) AND WK TO MOD CONVTN OVER HARY DLH (.)

### EAST:-

SCT BKN LOW/MED CLOUDS WITH EMBDD MOD TO INT CONVTN OVER N CHTGH ORS JHRKND BHR SHWB SKM NE STATES & BD (.) SCT LOW/MED CLOUDS WITH EMBDD ISOL WK TO MOD CONVTN OVER S CHTGH W GWB (.) SCT LOW/MED CLOUDS OVER E GWB (.)

### WEST:-

SCT LOW/MED CLOUDS WITH EMBDD MOD TO INT CONVTN OVER N RAJ N MP AND ISOL WK TO MOD CONVTN OVER S RAJ S MP E VID (.) ISOL TO SCT LOW/MED CLOUDS OVER GUJ REST MAHA (.)

### SOUTH:-

SCT LOW/MED CLOUDS WITH EMBDD ISOL WK TO MOD CONVTN OVER N COTL AP N TLNGN COTL TN (.) SCT LOW/MED CLOUDS OVER RYLSMA S COTL AP KER REST TN LKSDP ILS ANDAMAN & NICOBAR ILS (.)

**ARABIAN SEA:-**

SCT LOW/MED CLOUDS WITH EMBDD MOD TO INT CONVTN OVER SE ARSEA & COMORIN AREA (.) SCT LOW/MED CLOUDS WITH EMBDD ISOL WK TO MOD CONVTN OVER NORTH ADJ WC ARSEA AND ALSO OVER SW ARSEA (.)

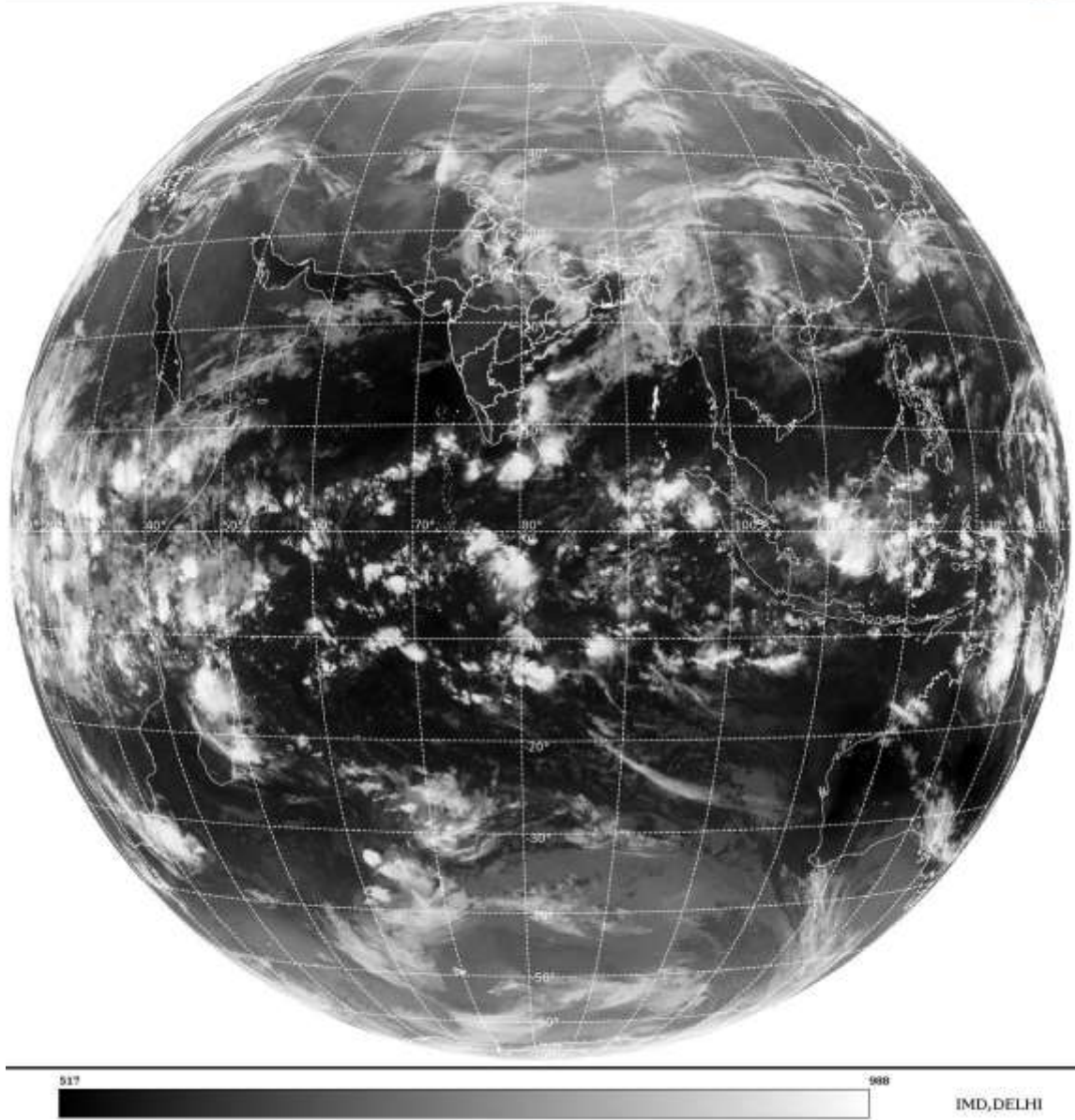
**BAY OF BENGAL & ANDAMAN SEA:-**

SCT LOW/MED CLOUDS WITH EMBDD INT TO V INT CONVTN OVER SW & WC BAY (.) SCT LOW/MED CLOUDS WITH EMBDD MOD TO INT CONVTN OVER NORTH ADJ EC BAY (.)

**CLOUDS DESCRIPTION OUTSIDE INDIA:-**

SAT : INSAT-3D IMG  
Thermal Infrared1 Count 10.8 um  
L1B FULL DISK

20-03-2023/(0000 to 0026) GMT  
20-03-2023/(0530 to 0556) IST



SCT LOW/MED CLOUDS WITH EMBDD MOD TO INT CONVTN OVER SRILANKA PALK STR GULF OF MANNAR MALDIVES EXTREME N PAK NEPAL BHUTAN TIBET CHINA MYANMAR N VIETNAM N SUMATRA STR OF MALACCA BORNEO SOUTH CHINA SEA CELEBES ILS & SEA PHILIPPINES E CHINA SEA N MADAGASCAR N MOZAMBIQUE CHANNEL AND OVER INDIAN OCEAN BET LAT 5.0N TO 16.0S LONG 40.0E TO 110.0E AND BET LAT 20.0S TO 35.0S LONG 50.0E TO 90.0E (.)

TOO 20/0650 HRS IST=

NNNN

**LEGEND:-**

<b>REGION</b>	<b>NORTH</b>	<b>J&amp;K HP PJB HARY DLH UP UTRKND</b>
	<b>EAST</b>	<b>BHR JHRKND CHTGH OR WB SKM NORTH- EAST STATES</b>
	<b>WEST</b>	<b>RAJ MP GUJ MAHA GOA</b>
	<b>SOUTH</b>	<b>TLNGN AP KRNTK KER TN LKSDP ANDAMAN &amp; NICOBAR ILS</b>

<b>CLOUD DISTRIBUTION</b>	<b>ISOL</b>	<b>ISOLATED (LESS THAN 25%)</b>	
	<b>SCT</b>	<b>SCATTERED (25 TO 50%)</b>	
	<b>BKN</b>	<b>BROKEN (51 TO 75%)</b>	
	<b>SLD</b>	<b>SOLID (GREATER THAN 75%)</b>	
<b>CLOUDS TOP TEMPERATURE</b>	<b>CTT</b>	<b>CLOUD TOP TEMPERATURE</b>	
<b>CONVECTION</b>	<b>WK CONVTN</b>	<b>WEAK CONVECTION (CTT GREATER THAN -25°C)</b>	
	<b>MOD CONVTN</b>	<b>MODERATE CONVECTION (CTT BETWEEN -25°C TO -40°C)</b>	
	<b>INT CONVTN</b>	<b>INTENSE CONVECTION (CTT BETWEEN -41°C TO -70°C)</b>	
	<b>V INT CONVTN</b>	<b>VERY INTENSE CONVECTION (CTT LESS THAN -70°C)</b>	
<b>METEOROLOGICAL SUB- DIVISIONS, STATES &amp; UNION TERRITORIES</b>	<b>ARUPR</b>	<b>ARUNACHAL PRADESH</b>	
	<b>BHR</b>	<b>BIHAR</b>	
	<b>CHTGH</b>	<b>CHHATTISGARH</b>	
	<b>COTL AP</b>	<b>COASTAL ANDHRA PRADESH</b>	
	<b>COTL KRNTK</b>	<b>COASTAL KARNATAKA</b>	
	<b>COTL ORS</b>	<b>COASTAL ORISSA</b>	
	<b>GUJ</b>	<b>GUJARAT</b>	
	<b>GWB</b>	<b>GANGETIC WEST BENGAL</b>	
	<b>HARY</b>	<b>HARYANA</b>	
	<b>DLH</b>	<b>DELHI</b>	
	<b>HP</b>	<b>HIMACHAL PRADESH</b>	
	<b>J&amp;K</b>	<b>JAMMU AND KASHMIR</b>	
	<b>JHRKND</b>	<b>JHARKHAND</b>	
	<b>KER</b>	<b>KERALA</b>	
	<b>KKN</b>	<b>KONKAN</b>	
	<b>LKSDP</b>	<b>LAKSHADWEEP</b>	
	<b>M MAHA</b>	<b>MADHYA MAHARASHTRA</b>	
	<b>MAHA</b>	<b>MAHARASHTRA</b>	
	<b>MANI</b>	<b>MANIPUR</b>	
	<b>MEGHA</b>	<b>MEGHALAYA</b>	
	<b>MIZO</b>	<b>MIZORAM</b>	
	<b>MP</b>	<b>MADHYA PRADESH</b>	
		<b>MRTHWD</b>	<b>MARATHWADA</b>
		<b>NAGA</b>	<b>NAGALAND</b>
<b>N COTL AP</b>		<b>NORTH COASTAL ANDHRA PRADESH</b>	
<b>NIK</b>		<b>NORTH INTERIOR KARNATAKA</b>	

	<b>ORS</b>	<b>ORISSA</b>
	<b>PJB</b>	<b>PUNJAB</b>
	<b>RAJ</b>	<b>RAJASTHAN</b>
	<b>RYLSM</b>	<b>RAYALASEEMA</b>
	<b>SAU &amp; KUTCH</b>	<b>SAURASHTRA &amp; KUTCH</b>
	<b>SHWB</b>	<b>SUB-HIMALAYAN WEST BENGAL</b>
	<b>SIK</b>	<b>SOUTH INTERIOR KARNATAKA</b>
	<b>SKM</b>	<b>SIKKIM</b>
	<b>TLNGN</b>	<b>TELANGANA</b>
	<b>TN</b>	<b>TAMIL NADU</b>
	<b>TRP</b>	<b>TRIPURA</b>
	<b>UP</b>	<b>UTTAR PRADESH</b>
	<b>UTRKND</b>	<b>UTTARAKHAND</b>
	<b>VID</b>	<b>VIDHARBHA</b>
	<b>SHWB</b>	<b>SUB HIMALAYAN WEST BENGAL</b>
	<b>GWB</b>	<b>GANGETIC WEST BENGAL</b>
	<b>ARSEA</b>	<b>ARABIAN SEA</b>
	<b>ILS</b>	<b>ISLANDS</b>
<b>MISCELLANEOUS</b>	<b>ASSW</b>	<b>IN ASSOCIATION WITH</b>
	<b>ASSTD</b>	<b>ASSOCIATED</b>
	<b>LLC</b>	<b>LOW LEVEL CIRCULATION</b>
	<b>EMBDD</b>	<b>EMBEDDED</b>
	<b>N/HOOD</b>	<b>NEIGHBOURHOOD</b>
	<b>EXT</b>	<b>EXTREME</b>