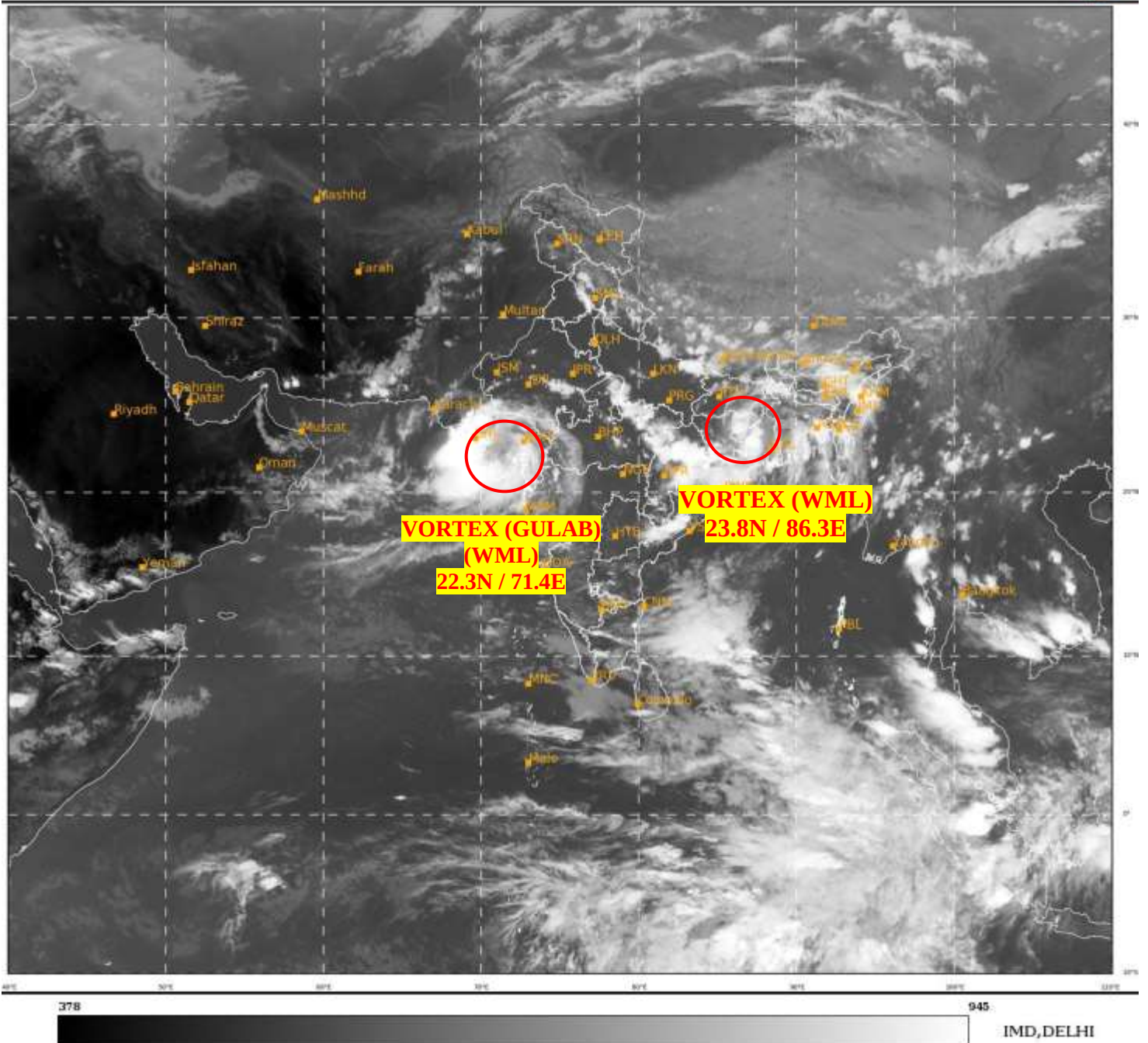




**SATELLITE BULLETIN BASED ON SATELLITE**  
**IMAGERIES AND PRODUCTS**  
**29.09.2021 TIME 1200 UTC**

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

29-09-2021/(1200 to 1226) GMT  
29-09-2021/(1730 to 1756) IST



TCIN50 DEMS 291200

SATELLITE BULLETIN BASED ON INSAT-3D PIC OF 291200 UTC (.)

REGION COVERED BETWEEN LAT 50.0°N TO 30.0°S AND LONG 40.0°E TO 125.0°E (.)

**SALIENT FEATURES:-**

**VORTEX (GULAB) OVER SAURASHTRA & N/HOOD:-**

VORTEX (**GULAB**) OVER SAURASHTRA & N/HOOD CENTRED WITHIN HALF A DEGREE OF **22.3N / 71.4E** (.) ASSTD SCT TO BKN LOW/MED CLOUDS WITH EMBDD INT TO V INT CONVTN OVER GUJ GULF OF CAMBAY GULF OF KUTCH NORTH MADHYA MAHA (MINIMUM CTT MINUS **93** DEG C) AND MOD TO INT CONVTN OVER N KKN SW MP S RAJ (.)

**VORTEX (WML) OVER NE JHRKND & N/HOOD:-**

VORTEX (**WML**) OVER NE JHRKND & N/HOOD CENTRED WITHIN HALF A DEGREE OF **23.8N / 86.3E** (.) ASSTD SCT TO BKN LOW/MED CLOUDS WITH EMBDD INT TO V INT CONVTN OVER JHRKND W GWB & N/HOOD (.) MINIMUM CTT MINUS **85** DEG C (.)





INSAT-3D 29-SEP-2021 12:00 WV IMG

WATER VAPOUR WIND

(1Kt = 0.5 m/s)

10 Kt

15 Kt

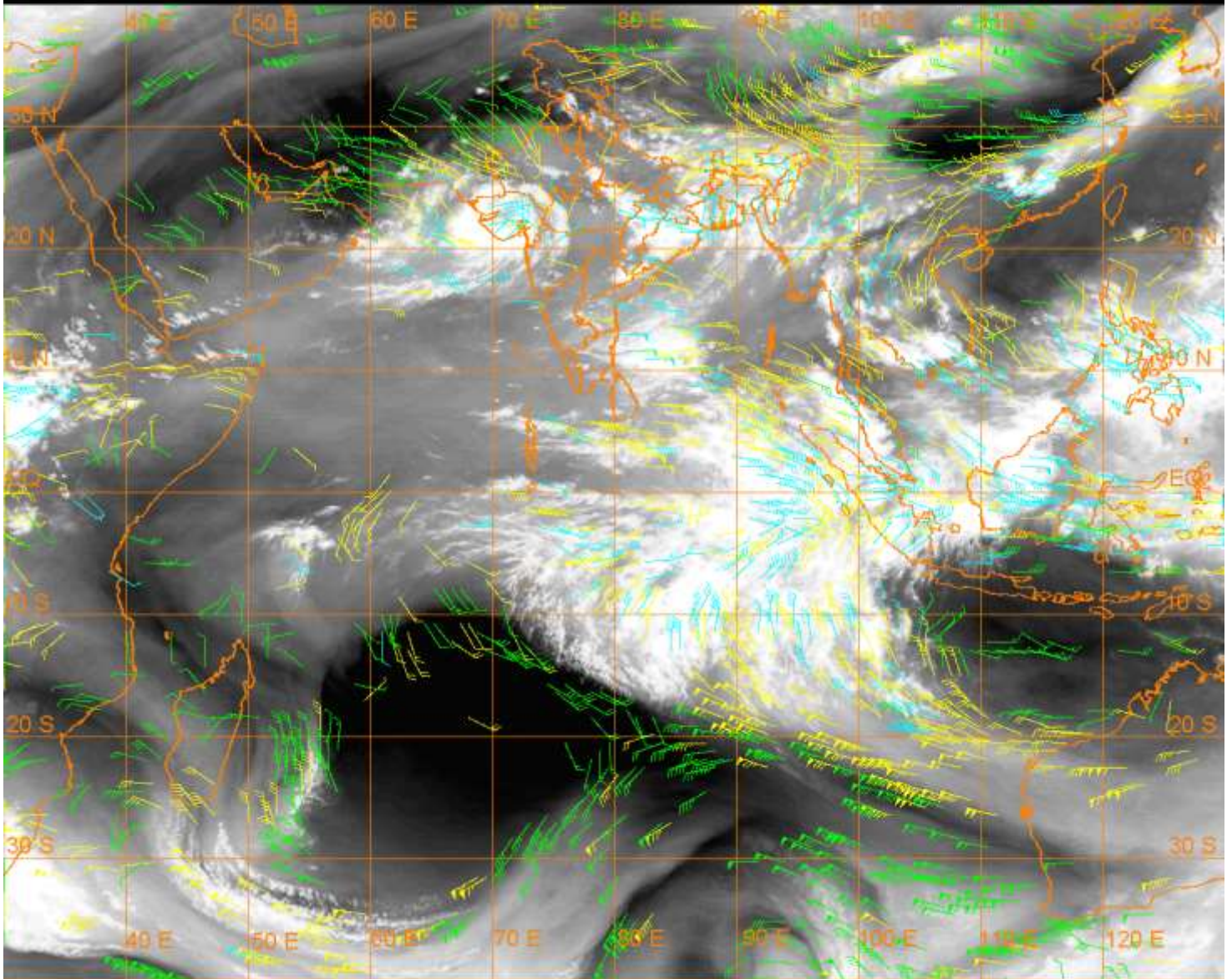
20 Kt

50 Kt

100-250 hPa

251-350 hPa

351-500 hPa



### CLOUDS DESCRIPTION WITHIN INDIA:-

#### NORTH:-

SCT LOW/MED CLOUDS WITH EMBDD INT TO V INT CONVTN OVER NE UP (.) SCT LOW/MED CLOUDS WITH EMBDD MOD TO INT CONVTN OVER W HP UTRKND SE PJB ADJ EXT N HARY REST UP (.) SCT LOW/MED CLOUDS WITH EMBDD WK TO MOD CONVTN OVER LADKAH J&K E HP (.)

#### EAST:-

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

#### WEST:-

SCT TO BKN LOW/MED CLOUDS WITH EMBDD INT TO V INT CONVTN OVER EC RAJ NW & E MP GUJ MADHYA MAHA (.) SCT LOW/MED CLOUDS WITH EMBDD MOD TO INT CONVTN OVER REST RAJ SW MP N KKN AND WK TO MOD CONVTN OVER REST MAHA GOA (.)

#### SOUTH:-

SCT LOW/MED CLOUDS WITH EMBDD INT TO V INT CONVTN OVER N COTL AP C TN (.) SCT LOW/MED CLOUDS WITH EMBDD MOD TO INT CONVTN OVER C NIK SE SIK SE TLNGN RYLSM S COTL AP AND WK TO MOD CONVTN OVER REST KRNTK KER REST TN (.) SCT LOW/MED CLOUDS OVER REST TLNGN LKSDP ANDAMAN & NICOBAR ILS (.)

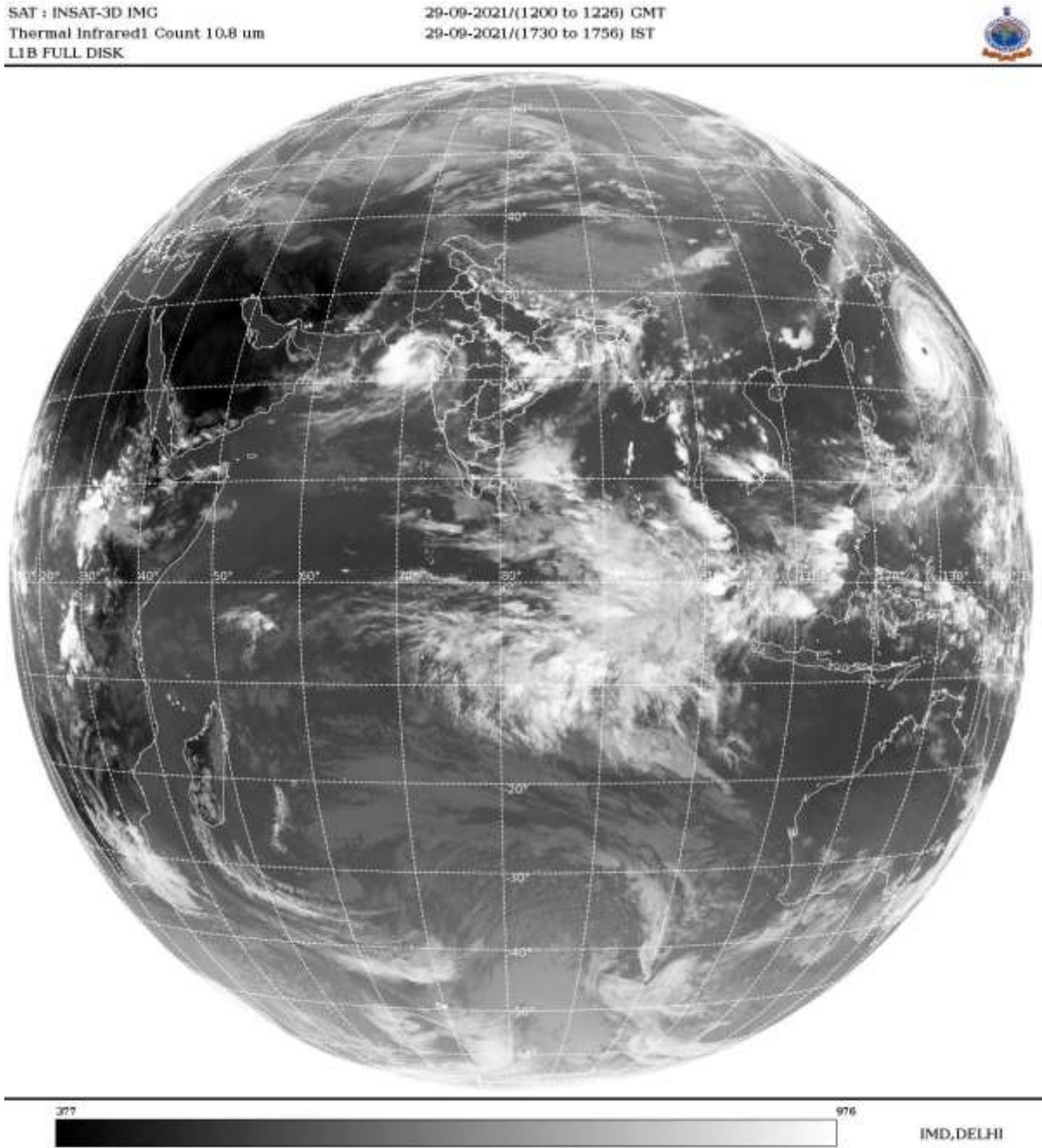
**ARABIAN SEA:-**

SCT TO BKN LOW/MED CLOUDS WITH EMBDD INT TO V INT CONVTN OVER NE ARSEA OFF GUJ COAST GULF OF KUTCH & GULF OF CAMBAY (.) SCT LOW/MED CLOUDS WITH EMBDD MOD TO INT CONVTN OVER NW ARSEA CENTRAL ARSEA SE ARSEA AND WK TO MOD CONVTN OVER COMORIN (.)

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

SCT TO BKN LOW/MED CLOUDS WITH EMBDD INT TO V INT CONVTN OVER SW BAY S ANDAMAN SEA TENASSERIM COAST (.) SCT LOW/MED CLOUDS WITH EMBDD MOD TO INT CONVTN OVER REST BAY (.)

**CLOUDS DESCRIPTION OUTSIDE INDIA:-**



SCT LOW/MED CLOUDS WITH EMBDD MOD TO INT CONVTN OVER SRI LANKA MALDIVES PAK NEPAL BHUTAN TIBET CHINA YELLOW SEA MYANMAR THAILAND GULF OF THAILAND CAMBODIA LAOS VIETNAM SUMATRA STR OF MALACCA MALAYSIA BORNEO SOUTH CHINA SEA JAVA ILS & SEA CELEBES ILS & SEA PHILIPPINES SULU SEA AND OVER INDIAN OCEAN BET LAT 5.0N TO 18.0S LONG 70.0E TO 105.0E (.)

TOO 29/1840EF=

NNNN



LEGEND:-

|        |       |                                                      |
|--------|-------|------------------------------------------------------|
| REGION | NORTH | J&K HP PJB HARY DLH UP UTRKND                        |
|        | EAST  | BHR JHRKND CHTGH ORS WB<br>SKMNORTH- EAST STATES     |
|        | WEST  | RAJ MP GUJ MAHA GOA                                  |
|        | SOUTH | TLNGN AP KRNTK KER TN LKSDP<br>ANDAMAN & NICOBAR ILS |

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

|                      |                        |                                  |
|----------------------|------------------------|----------------------------------|
|                      | <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>                   |