

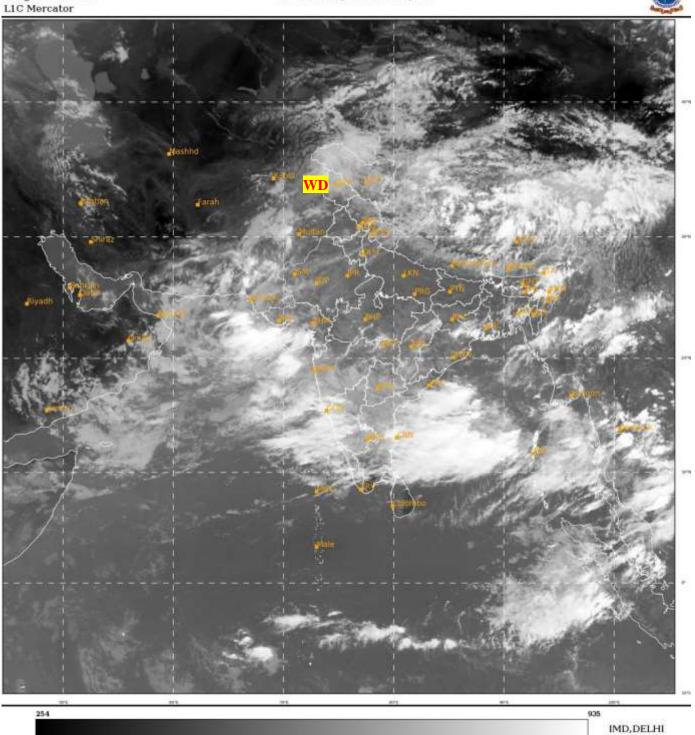
## भारत मौसम विज्ञान विभाग पृथ्वी विज्ञान मंत्रालय India Meteorological Department Ministry of Earth Sciences



# SATELLITE BULLETIN BASED ON SATELLITE IMAGERIES AND PRODUCTS 23.07.2023 TIME 0600 UTC

SAT : INSAT-3D IMG IMG\_TIR1 10.8 um 23-07-2023/(0600 to 0627) GMT 23-07-2023/(1130 to 1157) IST





TCIN50 DEMS 230600 SATELLITE BULLETIN BASED ON INSAT-3D PIC OF 230600 UTC (.) REGION COVERED BETWEEN LAT 50.0°N TO 35.0°S AND LONG 40.0°E TO 125.0°E (.)

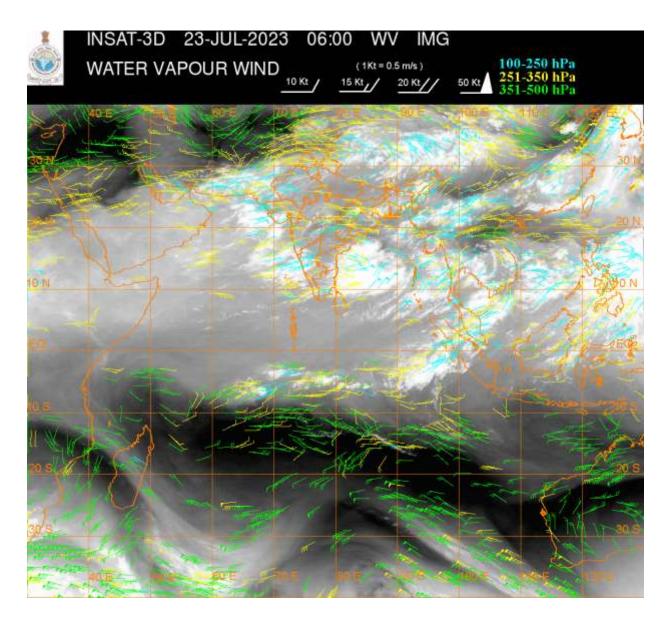
# **SALIENT FEATURES:-**

## WESTERN DISTURBANCE (WD):-

SCT MULTILAYERED CLOUDS OVER N PAK J&K LADAKH & N/HOOD IN ASSW WD OVER THE AREA (.)

## THUNDERSTORM / CONVECTIVE ACTIVITY:-

MODERATE TO INTENSE THUNDERSTORM / CONVECTIVE ACTIVITY OBSERVED OVER S GUJ KRNTK S GWB E ASSAM (.)



#### **CLOUDS DESCRIPTION WITHIN INDIA:-**

#### **NORTH:-**

SCT LOW/MED CLOUDS WITH EMBDD WK TO MOD CONVTN OVER LADAKH J&K HP UTRKND PJB HARY ADJ NW UP (.) SCT LOW/MED CLOUDS OVER DLH REST UP (.)

## EAST:-

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

## **WEST:-**

SCT TO BKN LOW/MED CLOUDS WITH EMBDD INT TO V INT CONVTN OVER S GUJ (MINIMUM CTT MINUS 75 DEG CEL ) (.) SCT LOW/MED CLOUDS WITH EMBDD MOD TO INT CONVTN OVER S MP D MAHA GOA AND WK TO MOD CONVTN OVER RAJ N GUJ (.) SCT LOW/MED CLOUDS OVER REST MP (.)

#### **SOUTH:-**

SCT TO BKN LOW/MED CLOUDS WITH EMBDD MOD TO INT CONVTN OVER KRNTK COTL AP RYLSM KER TN LKSDP ILS ANDAMAN & NICOBAR ILS (.) SCT TO BKN LOW/MED CLOUDS WITH EMBDD WK TO MOD CONVTN OVER TLNGN (.)

#### **ARABIAN SEA:-**

SCT TO BKN LOW/MED CLOUDS WITH EMBDD INT TO V INT CONVTN OVER EAST ARSEA GULF OF KUTCH GULF OF CAMBAY (.) SCT LOW/MED CLOUDS WITH EMBDD MOD TO INT CONVTN OVER LKSDP ILS AREA AND WK TO MOD CONVTN OVER REST ARSEA (.)

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

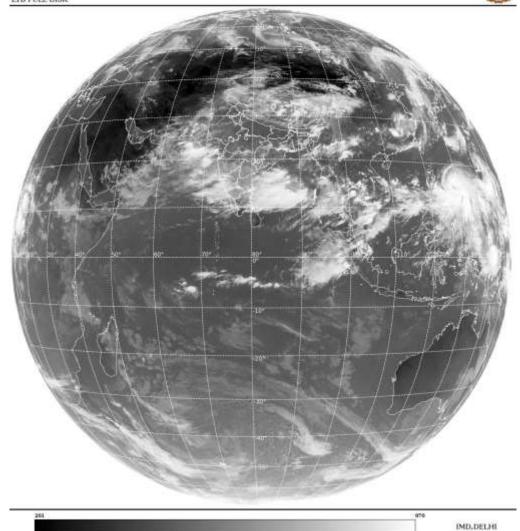
SCT TO BKN LOW/MED CLOUDS WITH EMBDD INT TO V INT CONVTN OVER CENTRAL ADJ SOUTH BAY (.) SCT LOW/MED CLOUDS WITH EMBDD MOD TO INT CONVTN OVER REST BAY ANDAMAN SEA GULF OF MARTABAN AND TENASSERIM COAST (.)

#### **CLOUDS DESCRIPTION OUTSIDE INDIA:-**

SAT : INSAT-3D IMG Thermal Infrared1 Count 10.8 um L18 FULL DISK

23-07-2023/(0600 to 0627) GMT 23-07-2023/(1130 to 1157) IST





SCT LOW/MED CLOUDS WITH EMBDD MOD TO INT CONVTN OVER PAK NEPAL BHUTAN TIBET CHINA YELLOW SEA EAST CHINA SEA MYANMAR THAILAND GULF OF THAILAND CAMBODIA LAOS VIETNAM SUMATRA STR OF MALACCA MALAYSIA BORNEO SOUTH CHINA SEA CELEBES ILS & SEA PHILIPPINES SULU SEA AND OVER INDIAN OCEAN BET LAT 5.0N TO 8.0S LONG 65.0E TO 100.0E (.)

**TOO 23/1230 HRS IST=** 

NNNN

# **LEGEND:-**

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

|                    | ISOL | ISOLATED (LESS THAN 25%) |
|--------------------|------|--------------------------|
|                    | SCT  | SCATTERED (25 TO 50%)    |
| CLOUD DISTRIBUTION | BKN  | BROKEN (51 TO 75%)       |
|                    | SLD  | SOLID (GREATER THAN 75%) |
| CLOUDS TOP         | CTT  | CLOUD TOP TEMPERATURE    |
| TEMPERATURE        |      |                          |

| CONVECTION  WK CONVTN  WEAK CONVECTION  (CTT GREATER THAN -25    C)  MOD CONVTN  MODERATE CONVECTION  (CTT BETWEEN -25    CT 0 -40    C)  INT CONVTN  INTERSSE CONVECTION  (CTT BETWEEN -41    CT 0 -70    C)  VINT CONVTN  VERY INTENSE CONVECTION  (CTT LESS THAN -70    C)  WITH CONVTN  WEAK CONVECTION  (CTT BETWEEN -41    CT 0 -70    C)  VINT CONVTN  VERY INTENSE CONVECTION  (CTT LESS THAN -70    C)  (CTT LESS THAN -70    C)  WITH CONVENT OF THE WEAK CONVECTION  (CTT LESS THAN -70    C)  (CTT LESS THAN -70    C)  WITH CONVENT OF THE WEAK CONVECTION  (CTT LESS THAN -70    C)  (CTT LESS THAN -70    C)  WITH CONVENT OF THE WEAK CONVECTION  (CTT LESS THAN -70    C)  (CTT LESS THAN -70    C)  WITH CONVENT ON CONVENTION  COTT ARE THE WEAK CONVECTION  (CTT BETWEEN -40    C)  (CTT GREATER THAN -25    C)  WITH CONVENTION  (CTT BETWEEN -40    C)  CTT GETWEEN -40    C)  WITH CONVENTION  (CTT BETWEEN -40    C)  WITH CONVENTION  (CT BETWEEN -40    C)  WITH CONT -40    C)  WITH CONVENTION  (CT BETWEEN -40    C)  WITH CONVENTION  (C |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INT CONVTN   INTENSE CONVECTION (CTT BETWEEN -25 CT TO -40 C)   INT CONVTN   INTENSE CONVECTION (CTT BETWEEN -41 CT TO -70 CT)   V INT CONVTN   VERY INTENSE CONVECTION (CTT LESS THAN -70 CT)   METEOROLOGICAL   ARUPR   ARUNACHAL PRADESH   SUB- DIVISIONS, STATES & UNION TERITORIES   COTL AP   COASTAL ANDHRA PRADESH   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   MAHA   MAHARASHTRA   MAHA   MAHARASHTRA   MAHA   MAHARASHTRA   MANI   MANIPUR   MEGHA   MEGHALAYA   MIZO   MIZORAM   MIP   MADHYA PRADESH   MRTHWD   MARATHWADA   NAGA   NAGALAND   N COTL AP   NORTH COASTAL ANDHRA   PRADESH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| INT CONVTN   INTENSE CONVECTION (CTT BETWEEN -41   C TO -70   C)   V INT CONVTN   VERY INTENSE CONVECTION (CTT LESS THAN -70   C)   RETEOROLOGICAL SUB-DIVISIONS, STATES & UNION TERITORIES  BHR BIHAR   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   MAHO MIZO MIZORAM   MP MADHYA PRADESH   MRTHWD MARATHWADA   NAGA NAGALAND   N COTL AP NORTH COASTAL ANDHRA   PRADESH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| WINT CONVEN (CTT LESS THAN -70 C)  METEOROLOGICAL SUB- DIVISIONS, STATES & UNION TERITORIES  COTL AP  COSTAL ANDHRA PRADESH  COTL AP  COASTAL ANDHRA PRADESH  COTL KRNTK  COASTAL ANDHRA PRADESH  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  MAHARASHTRA  MANI  MANI  MANI  MANI  MEGHA  MEGHA  MIZO  MIZORAM  MIP  MACHAL PRADESH  MRTHWD  MARATHWADA  NAGA  NAGALAND  N COTL AP  NORTH COASTAL ANDHRA  PRADESH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| METEOROLOGICAL SUB- DIVISIONS, STATES & UNION TERITORIES  BHR BIHAR CHHATTISGARH COTL AP COASTAL ANDHRA PRADESH  COTL KRNTK COASTAL CRISSA 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 MAHARASHTRA MANI MANIPUR MEGHA MEGHALAYA MIZO MIZORAM MP MADHYA PRADESH MRTHWD NCOTL AP NCOTL AP NCOTL AP NCOTL AP NORTH COASTAL ANDHRA PRADESH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| METEOROLOGICAL SUB- DIVISIONS, STATES & UNION TERITORIES  BHR  BHR  CHTGH  CHHATTISGARH  COTL AP  COASTAL ANDHRA PRADESH  COTL KRNTK  COASTAL GRISSA  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  MAHARASHTRA  MANI  MANI  MANIPUR  MEGHA  MEGHALAYA  MIZO  MIZORAM  MP  MACHAL PRADESH  MRTHWD  MRATHWADA  NAGA  NAGA  NAGALAND  NORTH COASTAL ANDHRA  PRADESH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| STATES & UNION TERITORIES  CHTGH 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 MAHARASHTRA MANI MANIPUR MEGHA MEGHALAYA MIZO MIZORAM MP MADHYA PRADESH MRTHWD MAGALAND N COTL AP NORTH COASTAL ANDHRA PRADESH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| TERITORIES  CHTGH 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 MAHA MAHARASHTRA MANI MANI MANIPUR MEGHA MEGHALAYA MIZO MIZORAM MP MADHYA PRADESH MRTHWD NAGA NAGA NAGALAND N COTL AP NORTH COASTAL ANDHRA PRADESH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 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 MAHAA MAHARASHTRA MAHA MANI MANI MANIPUR MEGHA MEGHALAYA MIZO MIZORAM MP MADHYA PRADESH MRTHWD MARATHWADA NAGA NAGALAND N COTL AP NORTH COASTAL ANDHRA PRADESH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| COTL ORS  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  MAHA  MAHAA  MAHARASHTRA  MANI  MANI  MANI  MEGHA  MEGHALAYA  MIZO  MIZORAM  MP  MADHYA PRADESH  MRTHWD  NAGA  NAGALAND  N COTL AP  NORTH COASTAL ANDHRA  PRADESH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| GUJ 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 MAHA MAHARASHTRA MANI MANI MEGHA MEGHALAYA MIZO MIZORAM MP MADHYA PRADESH MRTHWD NCOTL AP NORTH COASTAL ANDHRA PRADESH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| HARY DLH DELHI HP HIMACHAL PRADESH J&K JAMMU AND KASHMIR JHRKND JHARKHAND KER KERALA KKN KONKAN LKSDP LAKSHADWEEP M MAHA MADHYA MAHARASHTRA MAHA MANI MANIPUR MEGHA MEGHALAYA MIZO MIZORAM MP MADHYA PRADESH MRTHWD NCOTL AP NORTH COASTAL ANDHRA PRADESH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| DLH HP HIMACHAL PRADESH J&K JAMMU AND KASHMIR JHRKND JHARKHAND KER KERALA KKN KONKAN LKSDP LAKSHADWEEP M MAHA MAHAA MAHARASHTRA MANI MANIPUR MEGHA MEGHALAYA MIZO MIZORAM MP MADHYA PRADESH MRTHWD N COTL AP NORTH COASTAL ANDHRA PRADESH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| JHRKND  KER  KERALA  KKN  KONKAN  LKSDP  LAKSHADWEEP  M MAHA  MAHA  MAHARASHTRA  MAHA  MANI  MANIPUR  MEGHA  MEGHALAYA  MIZO  MIZORAM  MP  MADHYA PRADESH  MRTHWD  NAGA  NAGA  NAGA  NAGALAND  N COTL AP  NORTH COASTAL ANDHRA  PRADESH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| M MAHA MAHARASHTRA MAHA MANI MANI MEGHA MEGHALAYA MIZO MIZORAM MP MADHYA PRADESH MRTHWD MARATHWADA NAGA NAGALAND N COTL AP NORTH COASTAL ANDHRA PRADESH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| MAHA MAHARASHTRA  MANI MANIPUR  MEGHA MEGHALAYA  MIZO MIZORAM  MP MADHYA PRADESH  MRTHWD MARATHWADA  NAGA NAGALAND  N COTL AP NORTH COASTAL ANDHRA PRADESH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| MANI MANIPUR  MEGHA MEGHALAYA  MIZO MIZORAM  MP MADHYA PRADESH  MRTHWD MARATHWADA  NAGA NAGALAND  N COTL AP NORTH COASTAL ANDHRA PRADESH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| MEGHA MEGHALAYA MIZO MIZORAM MP MADHYA PRADESH MRTHWD MARATHWADA NAGA NAGALAND N COTL AP NORTH COASTAL ANDHRA PRADESH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| MIZO MIZORAM  MP MADHYA PRADESH  MRTHWD MARATHWADA  NAGA NAGALAND  N COTL AP NORTH COASTAL ANDHRA PRADESH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| MP MADHYA PRADESH  MRTHWD MARATHWADA  NAGA NAGALAND  N COTL AP NORTH COASTAL ANDHRA PRADESH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| MRTHWD MARATHWADA  NAGA NAGALAND  N COTL AP NORTH COASTAL ANDHRA PRADESH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| NAGA NAGALAND  N COTL AP NORTH COASTAL ANDHRA PRADESH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| N COTL AP NORTH COASTAL ANDHRA PRADESH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| N COTL AP NORTH COASTAL ANDHRA PRADESH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| PRADESH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ORS ORISSA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| PJB PUNJAB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| RAJ RAJASTHAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| RYLSM RAYALASEEMA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| SAU & KUTCH SAURASHTRA & KUTCH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| SHWB SUB-HIMALAYAN WEST BENGAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| SIK SOUTH INTERIOR KARNATAKA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| SKM SIKKIM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| TLNGN TELANGANA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| TN TAMIL NADU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| TRP TRIPURA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| UP UTTAR PRADESH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| UTRKND UTTARAKHAND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| VID VIDHARBHA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

| 1             | CHWD         | CUD HIMAT AWAN WEST DENICAT |
|---------------|--------------|-----------------------------|
|               | SHWB         | SUB HIMALAYAN WEST BENGAL   |
|               | GWB          | GANGETIC WEST BENGAL        |
|               | ARSEA        | ARABIAN SEA                 |
|               | ILS          | ISLANDS                     |
| MISCELLANEOUS | ASSW         | IN ASSOCIATION WITH         |
|               | ASSTD        | ASSOCIATED                  |
|               | LLC          | LOW LEVEL CIRCULATION       |
|               | <b>EMBDD</b> | EMBEDDED                    |
|               | N/HOOD       | NEIGHBOURHOOD               |
|               | EXT          | EXTREME                     |
|               |              |                             |