

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



IMD, DELHI

# SATELLITE BULLETIN BASED ON SATELLITE IMAGERIES AND PRODUCTS 16.12.2021 TIME 2100 UTC

16-12-2021/(2100 to 2126) GMT SAT: INSAT-3D IMG IMG\_TIR1 10.8 um 17-12-2021/(0230 to 0256) IST L1C Mercator

TCIN50 DEMS 162100 SATELLITE BULLETIN BASED ON INSAT-3D PIC OF 162100 UTC (.) REGION COVERED BETWEEN LAT 50.0°N TO 30.0°S AND LONG 40.0°E TO 125.0°E (.)

# **SALIENT FEATURES:-**

# **WESTERN DISTURBANCE (WD):-**

SCT MULTILAYERED CLOUDS OVER EXT N PAK J&K LADAKH HP N TIBET ADJ CHINA AND N/HOOD IN ASSW WD OVER THE AREA (.)

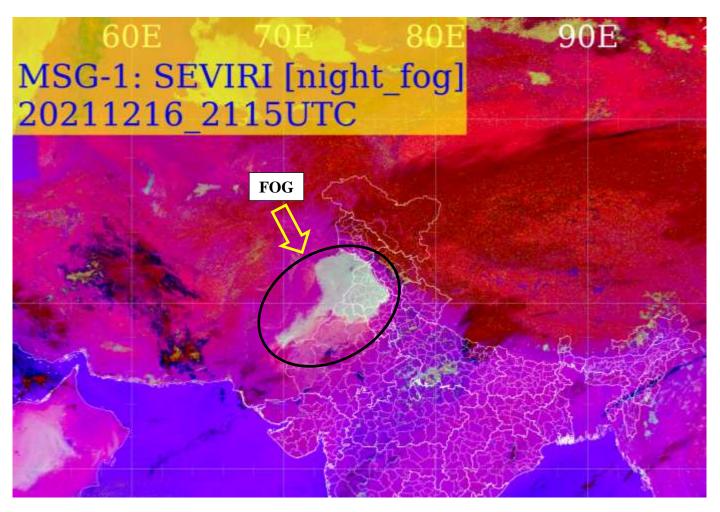
SCT MULTILAYERED CLOUDS OVER PERSIAN GULF IRAN AND N/HOOD IN ASSW ANOTHER WD OVER THE AREA (.)

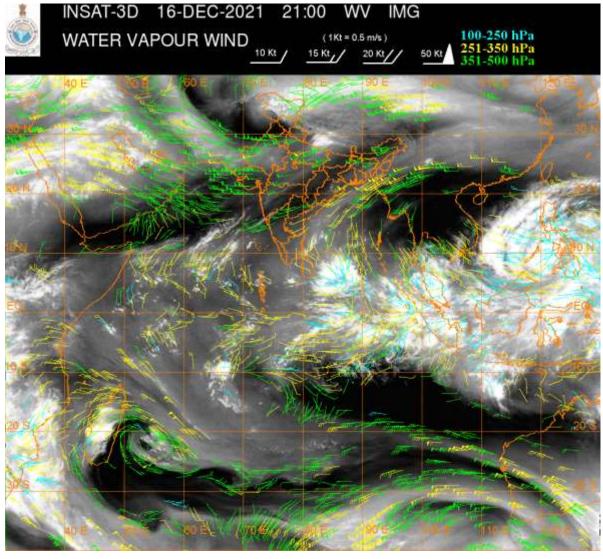
# **CONVECTION OVER SOUTH BAY ADJ EQUATORIAL INDIAN OCEAN:-**

CONVECTION OVER CENTRAL PARTS OF SOUTH BAY ADJ EQUATORIAL INDIAN OCEAN PERSISTS DURING LAST 06 HOURS (.) MINIMUM CTT MINUS 93 DEG C (.)

#### **FOG/LOW CLOUDS:-**

METEOSAT-8 RGB NIGHT FOG PRODUCT AT 2115 UTC INDICATES SCT FOG/LOW CLOUDS OVER EXT S J&K PJB W HARY NW & EXT SW RAJ AND E PAK (.)





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

## **NORTH:-**

SCT LOW/MED CLOUDS WITH EMBDD MOD TO INT CONVTN OVER LADAKH N J&K AND WK TO MOD CONVTN OVER S J&K N & SE HP N UTRKND UP (.) ISOL LOW/MED CLOUDS OVER S UTRKND EXT SE HARY (.)

#### **EAST:-**

SCT LOW/MED CLOUDS WITH EMBDD ISOL WK CONVTN OVER NC ORS NE GWB SKM ARUPR EXT S ASSAM N MANI & NW BD (.) ISOL TO SCT LOW/MED CLOUDS OVER EXT NW BHR REST NE STATES (.)

### **WEST:-**

SCT LOW/MED CLOUDS WITH EMBDD WK TO MOD CONVTN OVER EXT S KKN ADJ GOA (.) SCT LOW/MED CLOUDS WITH EMBDD ISOL WK CONVTN OVER SW & C RAJ MADHYA MAHA W VID (.) SCT LOW/MED CLOUDS OVER MP MRTHWD REST KKN (.)

#### **SOUTH:-**

SCT LOW/MED CLOUDS WITH EMBDD ISOL WK CONVTN OVER NW NIK EC TN NICOBAR ILS (.) SCT LOW/MED CLOUDS OVER KER REST TN (.)

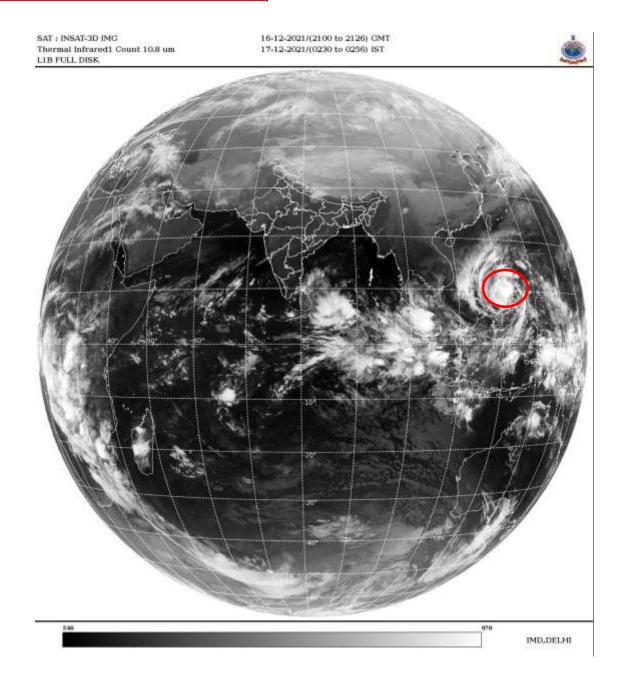
#### **ARABIAN SEA:-**

SCT LOW/MED CLOUDS WITH EMBDD MOD TO INT CONVTN OVER SOUTH ARSEA AND COMORIN (.) SCT LOW/MED CLOUDS WITH EMBDD ISOL WK TO MOD CONVTN OVER NORTH & EC ARSEA (.)

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

SCT TO BKN LOW/MED CLOUDS WITH EMBDD INT TO V INT CONVTN OVER SW ADJ SE BAY SOUTH OF LAT 9.0N AND MOD TO INT CONVTN OVER REST SOUTH BAY (.) SCT LOW/MED CLOUDS WITH EMBDD ISOL WK TO MOD CONVTN OVER NORTH BAY WC BAY AND S ANDAMAN SEA (.)

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



## **VORTEX (RAI) OVER SULU SEA & N/HOOD:-**

VORTEX (RAI) OVER SULU SEA & N/HOOD CENTERED NEAR 10.1N / 122.0E (.) INTENSITY T5.5/6.5 (.) ASSTD BKN LOW/MED CLOUDS WITH EMBDD INT TO V INT CONVTN OVER AREA BET LAT 7.0N TO 18.0N LONG 111.0E TO 124.0E AND PHILIPPINES (.)

SCT LOW/MED CLOUDS WITH EMBDD MOD TO INT CONVTN OVER SRI LANKA MALDIVES NEPAL TIBET CHINA YELLOW SEA S VIETNAM GULF OF THAILAND SUMATRA STR OF MALACCA MALAYSIA SOUTH CHINA SEA BORNEO JAVA ILS & SEA CELEBES ILS & SEA PHILIPPINES SULU SEA MADAGASCAR MOZAMBIQUE CHANNEL AND OVER INDIAN OCEAN BET LAT 5.0N TO 16.0S LONG 46.0E TO 115.0E (.)

TOO 17/0330EF=

**NNNN** 

#### **LEGEND:-**

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

	ISOL	ISOLATED (LESS THAN 25%)
CLOUD DISTRIBUTION	SCT	SCATTERED (25 TO 50%)
	BKN	BROKEN (51 TO 75%)
	SLD	SOLID (GREATER THAN 75%)
CLOUDS TOP TEMPERATURE	CTT	CLOUD TOP TEMPERATURE
	WK CONVTN	WEAK CONVECTION
CONVECTION		(CTT GREATER THAN –25°C)
CONVECTION	MOD CONVTN	MODERATE CONVECTION
		(CTT BETWEEN -25°C TO -40°C)
	INT CONVTN	INTENSE CONVECTION
		(CTT BETWEEN -41°C TO -70°C)
	V INT CONVTN	VERY INTENSE CONVECTION
		(CTT LESS THAN -70°C)
METEOROLOGICAL SUB- DIVISIONS, STATES & UNION TERITORIES	ARUPR	ARUNACHAL PRADESH
	BHR	BIHAR
	CHTGH	CHHATTISGARH
	COTL AP	COASTAL ANDHRA PRADESH
	COTL KRNTK	COASTAL KARNATAKA
	COTL ORS	COASTAL ORISSA
	GUJ	GUJARAT
	GWB	GANGETIC WEST BENGAL
	HARY	HARYANA
	DLH	DELHI
	HP	HIMACHAL PRADESH

NIK NORTH INTERIOR KARNATAKA  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  SHWB SUB HIMALAYAN WEST BENGAL  GWB GANGETIC WEST BENGAL  ARSEA ARABIAN SEA  ILS ISLANDS  MISCELLANEOUS  ASSW IN ASSOCIATION WITH  ASSTD ASSOCIATED		J&K	JAMMU AND KASHMIR
KKN KONKAN  LKSDP LAKSHADWEEP  M 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  NIK NORTH INTERIOR KARNATAKA  ORS ORISSA  PJB PUNJAB  RAJ RAJASTHAN  RYLSM RAYALASEEMA  SAU & KUTCH  SHWB SUB-HIMALAYAN WEST BENGAL  SIK SOUTH INTERIOR KARNATAKA  SKM SIKKIM  TLNGN TELANGANA  TN TAMIL NADU  TRP TRIPURA  UP UTTAR PRADESH  UTRKND UTTARAHAND  VID VIDHARBHA  SHWB SUB BIBMALAYAN WEST BENGAL  GWB GANGETIC WEST BENGAL  ARSEA ARABIAN SEA  ILS ISLANDS  MISCELLANEOUS ASSW IN ASSOCIATED		JHRKND	JHARKHAND
LKSDP LAKSHADWEEP  M MAHA MADHYA MAHARASHTRA  MAHA MAHARASHTRA  MANI MANIPUR  MEGHA MEGHALAYA  MIZO MIZORAM  MIP MADHYA PRADESH  MRTHWD MARATHWADA  NAGA NAGALAND  N COTL AP NORTH COASTAL ANDHRA PRADESH  NIK NORTH INTERIOR KARNATAKA  ORS ORISSA  PJB PUNJAB  RAJ RAJASTHAN  RYLSM RAYALASEEMA  SAU & KUTCH  SHWB SUB-HIMALAYAN WEST BENGAL  SIK SOUTH INTERIOR KARNATAKA  SKM SIKKIM  TILNGN TELANGANA  TN TAMIL NADU  TRP TRIPURA  UP UTTAR PRADESH  UTRKND UTTARACHAND  VID VIDHARBHA  SHWB SUB HIMALAYAN WEST BENGAL  GWB GANGETIC WEST BENGAL  ARSEA ARABIAN SEA  ILS ISLANDS  MISCELLANEOUS ASSW IN ASSOCIATED		KER	KERALA
M MAHA MAHARASHTRA  MAHA MAHARASHTRA  MANI MANIUR  MEGHA MEGHALAYA  MIZO MIZORAM  MP MADHYA PRADESH  MRTHWD MARATHWADA  NAGA NAGALAND  N COTL AP NORTH COASTAL ANDHRA PRADESH  NIK NORTH INTERIOR KARNATAKA  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  SHWB SUB HIMALAYAN WEST BENGAL  GWB GANGETIC WEST BENGAL  ARSEA ARABIAN SEA  ILS ISLANDS  MISCELLANEOUS ASSW IN ASSOCIATION WITH  ASSTD ASSOCIATED		KKN	KONKAN
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MANI MEGHA MEGHALAYA MIZO MIZORAM MP MADHYA PRADESH MRTHWD MARATHWADA NAGA NAGALAND N COTL AP NORTH COASTAL ANDHRA PRADESH NIK NORTH INTERIOR KARNATAKA ORS ORISSA PJIB PUNJAB RAJ RAJASTHAN RYLSM RAYALASEEMA SAU & KUTCH SAURASHTRA & KUTCH SHWB SUB-HIMALAYAN WEST BENGAL SIK SOUTH INTERIOR KARNATAKA SKM SIKKIM TUNGN TELANGANA TN TAMIL NADU TRP TRIPURA UP UTTAR PRADESH UTRKND UTTARAKHAND VID VIDHARBHA SHWB SUB HIMALAYAN WEST BENGAL GWB GANGETIC WEST BENGAL ARSEA ARABIAN SEA ILS ISLANDS MISCELLANEOUS ASSW IN ASSOCIATION WITH ASSID ASSOCIATION WITH		М МАНА	MADHYA MAHARASHTRA
MEGHA MEGHALAYA MIZO MIZORAM MP MADHYA PRADESH MRTHWD MARATHWADA NAGA NAGALAND N COTL AP NORTH COASTAL ANDHRA PRADESH NIK NORTH INTERIOR KARNATAKA 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 SHWB SUB HIMALAYAN WEST BENGAL GWB GANGETIC WEST BENGAL ARSEA ARABIAN SEA ILS ISLANDS MISCELLANEOUS ASSW IN ASSOCIATION WITH ASSID ASSOCIATED		МАНА	MAHARASHTRA
MIZO MIZORAM  MP MADHYA PRADESH  MRTHWD MARATHWADA  NAGA NAGALAND  N COTL AP NORTH COASTAL ANDHRA PRADESH  NIK NORTH INTERIOR KARNATAKA  ORS ORISSA  PIB 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  SHWB SUB HIMALAYAN WEST BENGAL  GWB GANGETIC WEST BENGAL  ARSEA ARABIAN SEA  ILS ISLANDS  MISCELLANEOUS  MISCELLANEOUS  ASSW IN ASSOCIATION WITH  ASSTD ASSOCIATED		MANI	MANIPUR
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MRTHWD MARATHWADA  NAGA NAGALAND  N COTL AP NORTH COASTAL ANDHRA PRADESH  NIK NORTH INTERIOR KARNATAKA  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  SHWB SUB HIMALAYAN WEST BENGAL  GWB GANGETIC WEST BENGAL  ARSEA ARABIAN SEA  ILS ISLANDS  MISCELLANEOUS ASSW IN ASSOCIATION WITH  ASSTD ASSOCIATED		MIZO	MIZORAM
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NIK NORTH INTERIOR KARNATAKA  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  SHWB SUB HIMALAYAN WEST BENGAL  GWB GANGETIC WEST BENGAL  ARSEA ARABIAN SEA  ILS ISLANDS  MISCELLANEOUS  ASSW IN ASSOCIATION WITH  ASSTD ASSOCIATED		NAGA	NAGALAND
ORS ORISSA PJB PUNJAB RAJ RAJASTHAN RYLSM RAYALASEEMA SAU & 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 SHWB SUB HIMALAYAN WEST BENGAL GWB GANGETIC WEST BENGAL ARSEA ARABIAN SEA ILS ISLANDS MISCELLANEOUS ASSW IN ASSOCIATED		N COTL AP	NORTH COASTAL ANDHRA PRADESH
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RYLSM 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 SHWB SUB HIMALAYAN WEST BENGAL GWB GANGETIC WEST BENGAL ARSEA ARABIAN SEA ILS ISLANDS MISCELLANEOUS ASSW IN ASSOCIATED		РЈВ	PUNJAB
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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  SHWB SUB HIMALAYAN WEST BENGAL  GWB GANGETIC WEST BENGAL  ARSEA ARABIAN SEA  ILS ISLANDS  MISCELLANEOUS ASSW IN ASSOCIATION WITH  ASSTD ASSOCIATED		RYLSM	RAYALASEEMA
SIK SOUTH INTERIOR KARNATAKA  SKM SIKKIM  TLNGN TELANGANA  TN TAMIL NADU  TRP TRIPURA  UP UTTAR PRADESH  UTRKND UTTARAKHAND  VID VIDHARBHA  SHWB SUB HIMALAYAN WEST BENGAL  GWB GANGETIC WEST BENGAL  ARSEA ARABIAN SEA  ILS ISLANDS  MISCELLANEOUS ASSW IN ASSOCIATION WITH  ASSTD ASSOCIATED		SAU & KUTCH	SAURASHTRA & KUTCH
SKM SIKKIM  TLNGN TELANGANA  TN TAMIL NADU  TRP TRIPURA  UP UTTAR PRADESH  UTRKND UTTARAKHAND  VID VIDHARBHA  SHWB SUB HIMALAYAN WEST BENGAL  GWB GANGETIC WEST BENGAL  ARSEA ARABIAN SEA  ILS ISLANDS  MISCELLANEOUS ASSW IN ASSOCIATION WITH  ASSTD ASSOCIATED		SHWB	SUB-HIMALAYAN WEST BENGAL
TLNGN TELANGANA  TN TAMIL NADU  TRP TRIPURA  UP UTTAR PRADESH  UTRKND UTTARAKHAND  VID VIDHARBHA  SHWB SUB HIMALAYAN WEST BENGAL  GWB GANGETIC WEST BENGAL  ARSEA ARABIAN SEA  ILS ISLANDS  MISCELLANEOUS ASSW IN ASSOCIATION WITH  ASSTD ASSOCIATED		SIK	SOUTH INTERIOR KARNATAKA
TN TAMIL NADU  TRP TRIPURA  UP UTTAR PRADESH  UTRKND UTTARAKHAND  VID VIDHARBHA  SHWB SUB HIMALAYAN WEST BENGAL  GWB GANGETIC WEST BENGAL  ARSEA ARABIAN SEA  ILS ISLANDS  MISCELLANEOUS ASSW IN ASSOCIATION WITH  ASSTD ASSOCIATED		SKM	SIKKIM
TRP TRIPURA  UP UTTAR PRADESH  UTRKND UTTARAKHAND  VID VIDHARBHA  SHWB SUB HIMALAYAN WEST BENGAL  GWB GANGETIC WEST BENGAL  ARSEA ARABIAN SEA  ILS ISLANDS  MISCELLANEOUS ASSW IN ASSOCIATION WITH  ASSTD ASSOCIATED		TLNGN	TELANGANA
UP UTTAR PRADESH  UTRKND UTTARAKHAND  VID VIDHARBHA  SHWB SUB HIMALAYAN WEST BENGAL  GWB GANGETIC WEST BENGAL  ARSEA ARABIAN SEA  ILS ISLANDS  MISCELLANEOUS ASSW IN ASSOCIATION WITH  ASSTD ASSOCIATED		TN	TAMIL NADU
UTRKND UTTARAKHAND  VID VIDHARBHA  SHWB SUB HIMALAYAN WEST BENGAL  GWB GANGETIC WEST BENGAL  ARSEA ARABIAN SEA  ILS ISLANDS  MISCELLANEOUS ASSW IN ASSOCIATION WITH  ASSTD ASSOCIATED		TRP	TRIPURA
VID VIDHARBHA  SHWB SUB HIMALAYAN WEST BENGAL  GWB GANGETIC WEST BENGAL  ARSEA ARABIAN SEA  ILS ISLANDS  MISCELLANEOUS ASSW IN ASSOCIATION WITH  ASSTD ASSOCIATED		UP	UTTAR PRADESH
SHWB SUB HIMALAYAN WEST BENGAL  GWB GANGETIC WEST BENGAL  ARSEA ARABIAN SEA  ILS ISLANDS  MISCELLANEOUS ASSW IN ASSOCIATION WITH  ASSTD ASSOCIATED		UTRKND	UTTARAKHAND
GWB GANGETIC WEST BENGAL  ARSEA ARABIAN SEA  ILS ISLANDS  MISCELLANEOUS ASSW IN ASSOCIATION WITH  ASSTD ASSOCIATED		VID	VIDHARBHA
ARSEA ARABIAN SEA  ILS ISLANDS  MISCELLANEOUS ASSW IN ASSOCIATION WITH  ASSTD ASSOCIATED		SHWB	SUB HIMALAYAN WEST BENGAL
ILS ISLANDS  MISCELLANEOUS ASSW IN ASSOCIATION WITH  ASSTD ASSOCIATED		GWB	GANGETIC WEST BENGAL
MISCELLANEOUS  ASSW IN ASSOCIATION WITH ASSTD ASSOCIATED		ARSEA	ARABIAN SEA
ASSTD ASSOCIATED		ILS	ISLANDS
	MISCELLANEOUS	ASSW	IN ASSOCIATION WITH
TOWLEVEL CIDCULATION		ASSTD	ASSOCIATED
LLC LOW LEVEL CIRCULATION		LLC	LOW LEVEL CIRCULATION
EMBDD EMBEDDED		EMBDD	EMBEDDED
N/HOOD NEIGHBOURHOOD		N/HOOD	NEIGHBOURHOOD
EXT EXTREME		EXT	EXTREME