



Monsoon Watch

- **The well marked low pressure area** over northwest Bay of Bengal & adjoining West Bengal and Odisha coasts concentrated into a **Depression** and lay centred at 0830 hours IST of today, the 21st July 2018 over the northwest Bay of Bengal near latitude 21.0°N and longitude 88.0°E, about 120 km east-southeast of Balasore, 90 km south-southeast of Digha and 130 km east-northeast of Chandbali. It is very likely to move west-northwest wards and cross north Odisha and West Bengal coast between Chandbali and Digha, close to Balasore around evening of today, the 21st July 2018.
- The axis of monsoon trough at mean sea level now passes through Anupgarh, Jaipur, Shivpuri, Tikamgarh, Varanasi, Jamshedpur, centre of depression over northwest Bay of Bengal and thence southeast wards to eastcentral Bay of Bengal.

- Spatial rainfall distribution and monsoon activity is enclosed. **(Table-1)**
- Latest Satellite Image of INSAT 3-D is enclosed. **(Fig-1)**

Seasonal Rainfall (in mm) on 21 July, 2018

Region	Actual	Normal	% Dep. from Long Period Average
All India	345.4	357.6	-3%
East & Northeast India	431.1	654.2	-34%
Northwest India	192.2	210.8	-9%
Central India	439.2	381.9	15%
South Peninsula	354.8	304.8	16%

Weather Forecast (valid upto 1430 hours IST of 26 July, 2018)

- Meteorological Sub-divisionwise 5-day rainfall forecast is enclosed. **(Table-2)**
- Sub-division wise rainfall recorded from 0830 IST of yesterday to 0830 IST of today is enclosed. **(Annexure-1)**

Warning (Fig-2)

21 July (Day 1):

Heavy to very heavy rain at a few places with extremely heavy fall at isolated places very likely over Odisha; **heavy to very heavy rain with extremely heavy fall at isolated places very likely** over Chhattisgarh; **heavy to very heavy rain at a few places** over Uttarakhand and **at isolated places** over Haryana, Chandigarh & Delhi, West Uttar Pradesh, East Rajasthan, East Madhya Pradesh, Vidarbha, Jharkhand, Gangetic West Bengal, Gujarat region, Konkan & Goa, Coastal Andhra Pradesh, Telangana, Coastal Karnataka and South Interior Karnataka and **heavy rain at isolated places** over Himachal Pradesh, Punjab, East Uttar Pradesh, West Rajasthan, West Madhya Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch, Madhya Maharashtra, North Interior Karnataka, Tamilnadu and Kerala.

♦ **Squally wind speed reaching 45-55 kmph gusting to 65 kmph** is very likely over along & off Odisha & West Bengal coasts, adjoining Bangladesh, coast and over north Bay of Bengal and gradually decrease thereafter.

♦ Sea condition will be rough to very rough along & off Odisha & West Bengal coasts, adjoining Bangladesh coast and over north Bay of Bengal. **The fishermen** are advised not to venture into north Bay of Bengal along & off Odisha & West Bengal coasts and adjoining Bangladesh coast.

22 July (Day 2):

♦ **Heavy to very heavy rain at a few places with extremely heavy fall at isolated places very likely** over Chhattisgarh; **heavy to very heavy rain with extremely heavy fall at isolated places very likely** over Odisha, East Madhya Pradesh and Vidarbha; **heavy to very heavy rain at isolated places** over Uttarakhand, West Madhya Pradesh, Jharkhand, Konkan & Goa, Telangana, Coastal Karnataka and South Interior Karnataka and **heavy rain at isolated places** over Jammu & Kashmir, Himachal Pradesh, Haryana, Chandigarh & Delhi, West Uttar Pradesh, West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat region, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh, North Interior Karnataka, Tamilnadu and Kerala.

23 July (Day 3):

◆ **Heavy to very heavy rain at isolated places** very likely over Madhya Pradesh, Vidarbha, Madhya Maharashtra, Konkan & Goa, Coastal & South Interior Karnataka and **heavy rain at isolated places** over Punjab, East Rajasthan Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Gujarat region, Marathwada, Telangana, North Interior Karnataka and Kerala.

24 July (Day 4):

◆ **Heavy to very heavy rain at isolated places** likely over East Rajasthan and Gujarat region; **heavy rain at isolated places** over West Madhya Pradesh, Saurashtra & Kutch, Madhya Maharashtra, Konkan & Goa, Coastal & South Interior Karnataka and Kerala.

25 July (Day 5):

◆ **Heavy to very heavy rain at isolated places** likely over East Rajasthan and Gujarat region; **heavy rain at isolated places** over Saurashtra & Kutch, Konkan & Goa, Coastal & South Interior Karnataka and Kerala.

Weather Outlook for subsequent 2 days (from 1430 IST of 26 July to 1430 IST of 28 July, 2018)

- Fairly widespread to widespread rainfall likely along west coast and over Northeast, East & adjoining Central India and Andaman Islands.
- Scattered to fairly widespread rainfall activity likely over Northwest India.
- Isolated to scattered rainfall over the rest of the country.

Legend:

Probability of occurrence	Terminology	Probability of occurrence	Terminology
Less than 25%	unlikely	51-75%	Very likely
25-50%	likely	Above 75%	Most likely

Note: Next report will be issued at 1800 hours IST of 22 July, 2018.

Table-1

SUB-DIVISIONWISE RAINFALL DISTRIBUTION & MONSOON ACTIVITY 21 JULY 2018

S.NO.	METEOROLOGICAL SUB-DIVISIONS	DISTRIBUTION	ACTIVITY
1	Andaman & Nicobar Islands	ISOL	WEAK
2	Arunachal Pradesh	SCT	NORMAL
3	Assam & Meghalaya	FWS	NORMAL
4	Naga, Mani, Mizoram & Tripura	FWS	WEAK
5	Sub-Him. W. Bengal & Sikkim	WS	NORMAL
6	Gangetic West Bengal	FWS	NORMAL
7	Odisha	WS	VIGOROUS
8	Jharkhand	FWS	NORMAL
9	Bihar	FWS	NORMAL
10	East Uttar Pradesh	FWS	NORMAL
11	West Uttar Pradesh	SCT	NORMAL
12	Uttarakhand	SCT	WEAK
13	Haryana Chandigarh & Delhi	SCT	WEAK
14	Punjab	ISOL	WEAK
15	Himachal Pradesh	FWS	WEAK
16	Jammu & Kashmir	SCT	WEAK
17	West Rajasthan	SCT	NORMAL
18	East Rajasthan	FWS	ACTIVE
19	West Madhya Pradesh	SCT	WEAK
20	East Madhya Pradesh	ISOL	WEAK
21	Gujarat region D.D. & N. Haveli	WS	VIGOROUS
22	Saurashtra Kutch & Diu	SCT	WEAK
23	Konkan & Goa	WS	NORMAL
24	Madhya Maharashtra	FWS	NORMAL
25	Marathawada	FWS	NORMAL
26	Vidarbha	FWS	WEAK
27	Chhattisgarh	WS	ACTIVE
28	Coastal Andhra Pradesh	FWS	ACTIVE
29	Telangana	WS	NORMAL
30	Rayalaseema	ISOL	WEAK
31	Tamilnadu & Puducherry	ISOL	WEAK
32	Coastal Karnataka	WS	NORMAL
33	North interior Karnataka	FWS	NORMAL
34	South interior Karnataka	FWS	NORMAL
35	Kerala	WS	NORMAL
36	Lakshadweep	WS	
LEGENDS		SCT	SCATTERED / FEW PLACES (26% to 50%)
WS	WIDE SPREAD / MOST PLACES (76-100%)	ISOL	ISOLATED / ONE OR TWO PLACES (up to 25%)
FWS	FAIRLY WIDE SPREAD / MANY PLACES (51% to 75%)	DRY	NO RAINFALL
* ACTIVE (R/F $1\frac{1}{2}$ - 4 times the normal with WS/FWS, at least 2 stations should be 5 cm. along west coast & 3 cm. elsewhere)			
** VIGOROUS (R/F More than 4 times the normal with WS/FWS, at least 2 stations should be 8 cm. along west coast & 5 cm. elsewhere)			

Fig-1

Latest Satellite Image of INSAT 3-D 21 July 2018

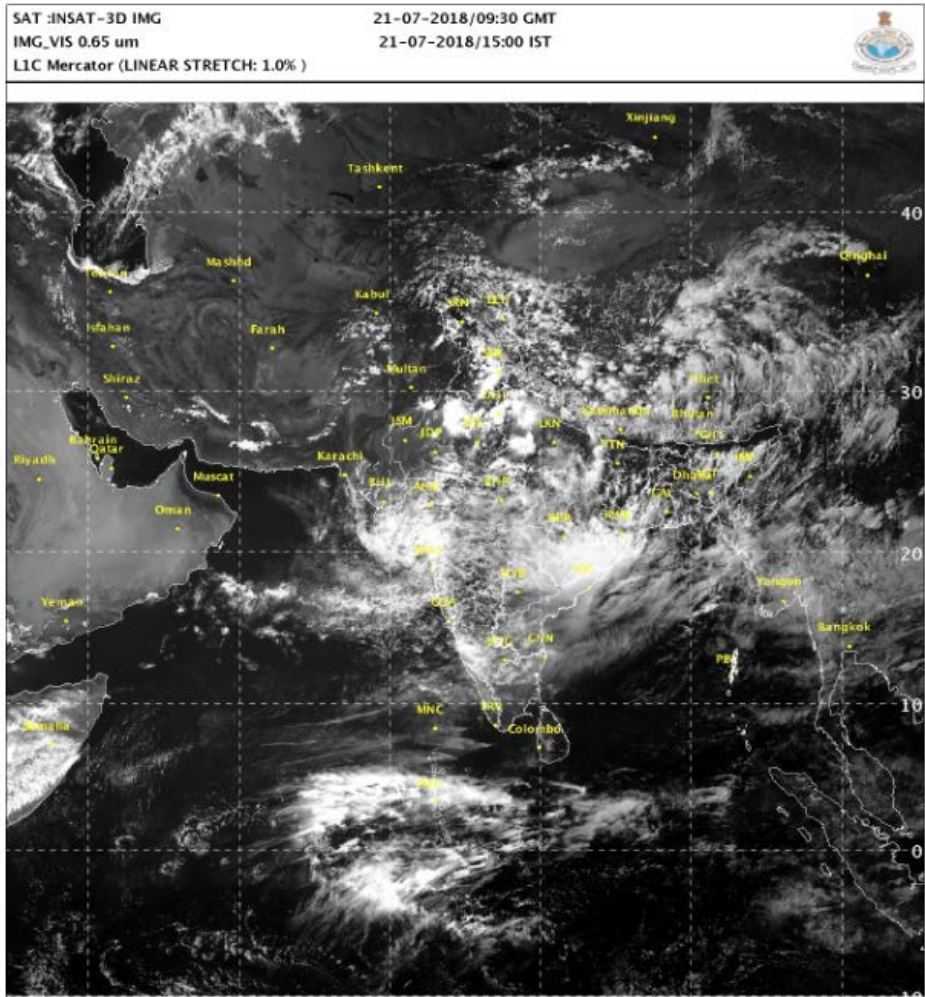


Table-2

5-Day Rainfall Forecast 2018

Met-Sub-Division	21-Jul Today	22Jul Sun	23Jul Mon	24Jul Tue	25Jul Wed
1. Andaman & Nicobar Islands	SCT	FWS	FWS	FWS	FWS
2. Arunachal Pradesh	SCT	SCT	FWS	FWS	SCT
3. Assam & Meghalaya	FWS	FWS	FWS	SCT	SCT
4. N. M. M. & T.	FWS	FWS	FWS	SCT	SCT
5. S.H. West Bengal & Sikkim	FWS	WS	WS	FWS	FWS
6. Gangetic West Bengal	WS	WS	FWS	FWS	FWS
7. Odisha	WS	WS	FWS	FWS	SCT
8. Jharkhand	WS	WS	FWS	FWS	SCT
9. Bihar	FWS	FWS	FWS	FWS	FWS
10. East Uttar Pradesh	WS	FWS	FWS	SCT	SCT
11. West Uttar Pradesh	WS	FWS	FWS	FWS	FWS
12. Uttarakhand	WS	WS	FWS	FWS	FWS
13. Haryana, Chd & Delhi	WS	WS	FWS	FWS	FWS
14. Punjab	FWS	FWS	WS	WS	SCT
15. Himachal Pradesh	WS	WS	WS	WS	FWS
16. Jammu & Kashmir	SCT	FWS	FWS	FWS	FWS
17. West Rajsthan	SCT	SCT	SCT	SCT	FWS
18. East Rajasthan	WS	WS	FWS	FWS	WS
19. West Madhya Pradesh	FWS	WS	WS	FWS	SCT
20. East Madhya Pradesh	WS	WS	WS	SCT	SCT
21. Gujarat Region	WS	FWS	FWS	WS	WS
22. Saurashtra & Kutch	FWS	SCT	SCT	FWS	FWS
23. Konkan & Goa	WS	WS	WS	WS	WS
24. Madhya Maharashtra	FWS	WS	WS	FWS	FWS
25. Marathawada	SCT	WS	WS	SCT	SCT
26. Vidharbha	WS	WS	WS	SCT	SCT
27. Chhattisgarh	WS	WS	WS	SCT	SCT
28. Coastal Andhra Pradesh	FWS	FWS	SCT	ISOL	ISOL
29. Telangana	WS	WS	WS	SCT	SCT
30. Rayalaseema	ISOL	ISOL	ISOL	ISOL	ISOL
31. Tamilnadu & Puduchery	ISOL	ISOL	ISOL	ISOL	ISOL
32. Coastal Karnataka	WS	WS	WS	WS	WS
33. North Interior Karnataka	FWS	FWS	FWS	SCT	SCT
34. South Interior Karnataka	FWS	FWS	FWS	FWS	FWS
35. Kerala	WS	WS	WS	WS	WS
36. Lakshadweep	WS	WS	WS	WS	WS

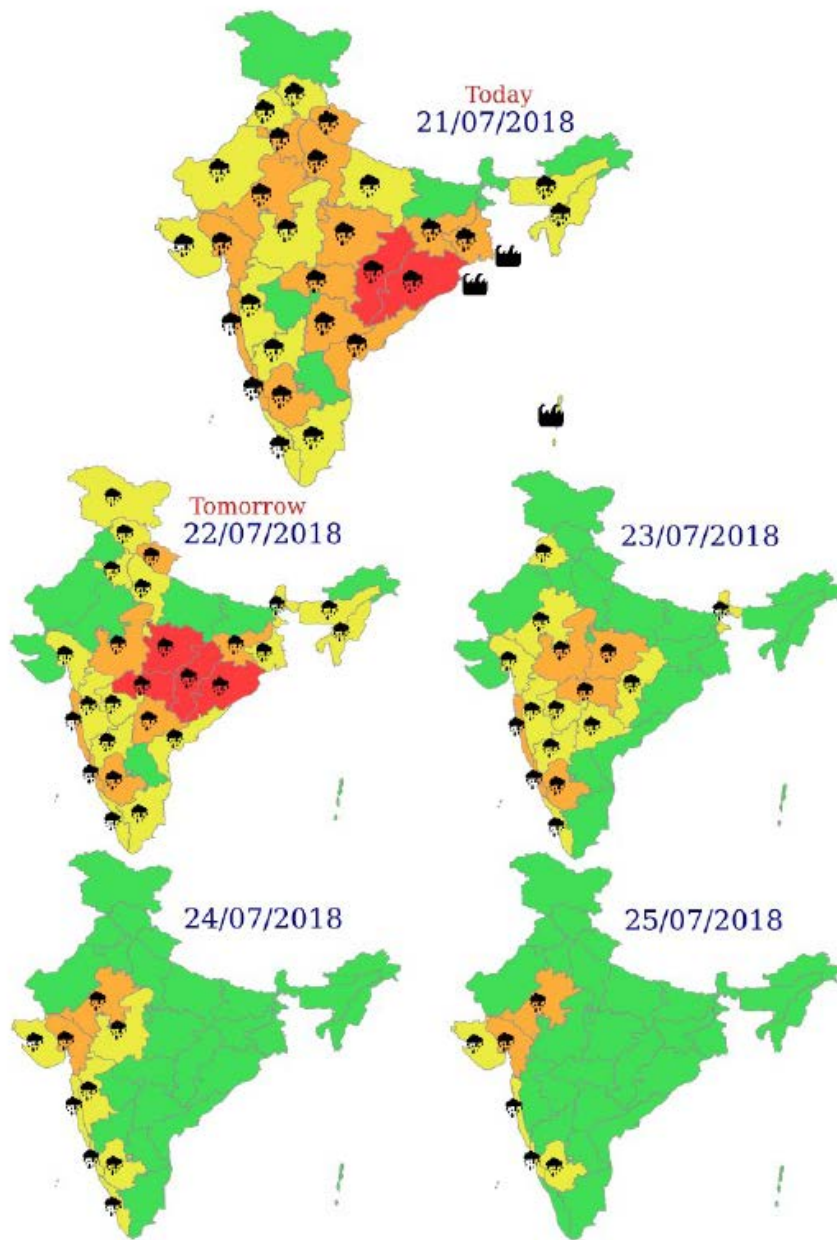
% Station Reporting Rainfall

% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespred (FWS/ Many Places)	1-25	isolated (ISOL)
No Rain	Dry		

* Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day
 For more details kindly visit www.imd.gov.in or contact : +91 11 24631913, +91 11 24629798

Fig-2

Warning



Most Vigil (Take Action)		Keep Vigil (Be prepared/updated)	
Be aware (Be updated)		No Warning	

Heavy Rain	Heavy Snow	Thunderstorm	Dust Storm
Strong Winds	Visibility	Cyclone	Squall/ Hail
Frost	Cold Wave	Heat Wave	Sea State

Significant amounts of rainfall (in cm)
(From 0830 hours IST of yesterday to 0830 hours IST of today)
21 July 2018

ARUNACHAL PRADESH:		SANKALAN	1	GUNUPUR	9
		MALDA	1	KOTAGARH	9
BHALUKPONG	4	MURTI	1	ATHGARH	9
BASAR	4			DHAMNAGAR ARG	9
NAHARLAGUN	3	GANGETIC WEST BENGAL:		RAYAGADA	9
		DIGHA	5	KANTAPADA ARG	9
ASSAM & MEGHALAYA:		TUSUMA	5	BANPUR	9
CHAULDHOWAGHAT	10	MIDNAPORE	4	LANJIGARH	8
N.LAKHIMPUR/LILABARI	7	MIDNAPORE(CWC)	4	MALKANGIRI	8
BARPETA	6	KHARIDWAR	4	BOLAGARH ARG	8
BEKI MATHUNGARI	5	CONTAI	3	PARADEEP CWR	8
AIE NH XING	5	PHULBERIA	3	GOPALPUR	8
DHUBRI IMD	4	BANKURA	2	BONTH	8
KAMPUR	4	MOHANPUR	2	ASTARANGA ARG	8
DHUBRI CWC	4	D.P.GHAT	2	KAPTIPADA ARG	8
BEKY RLY.BRIDGE	3	KANSABATI DAM	2	CHANDIKHOL ARG	8
CHERRAPUNJI(RKM)	3	BANKURA(CWC)	1	DHENKANAL	7
GOSSAIGAON	3	PURULIA	1	DANAGADI ARG	7
CHERRAPUNJI	3	CANNING	1	DHARMAGARH ARG	7
WILLIAMNAGAR	2	SIMULA	1	KASHINAGAR	7
TAMULPUR	2	NALHATI	1	GOP	7
SIVASAGAR	2			CHHATRAPUR	7
AMRAGHAT	2	ODISHA:		TARVA ARG	7
GHARMURA	2	BRAHMAGIRI AWS	29	KAKATPUR	7
D/MOHANBARI AERO	1	PURI	27	NAYAGARH	7
SHILLONG C.S.O.	1	JUNAGARH	26	KUJANGA ARG	7
BAHALPUR	1	TENTULIKHUNTI ARG	24	KOSAGUMDA	7
NAHAR KATIA	1	PIPILI	24	JALESWAR	7
KOKRAJHAR	1	KESINGA ARG	24	REMUNA ARG	6
GOALPARA AWS	1	KASHIPUR	22	JENAPUR	6
GOALPARA CWC	1	NARLA ARG	21	RANPUR	6
NEAMATIGHAT	1	CUTTACK	21	NIMPARA	6
PANBARI	1	JAIPATNA	21	JAIPUR	6
BIHUBAR	1	MADANPUR RAMPUR	20	KOTRAGUDA	6
KHERONIGHAT	1	SATYABADI ARG	19	AMBABHONA	6
		BHUBANESWAR AERO	19	NILGIRI	6
NAGALAND, MANIPUR, MIZORAM & TRIPURA:		KORAPUT	19	DUNGURIPALLI	6
		SIMILIGUDA AWS	19	JHORIGAM ARG	6
LUNGLEI	3	MUNDALI	17	BETANATI ARG	6
SABROOM	2	BANKI ARG	16	NIALI ARG	5
DHARMANAGAR/ PANISAGAR	2	NUAGADA ARG	15	SUKINDA	5
KAILASHAHAR AERO	1	NARAJ	14	SAMAKHUNTA AWS	5
		JEYPORE	14	BASUDEVPUR AWS	5
SHWB & SIKKIM:		BHAWANIPATNA	13	MAHENDRAGARH	5
		PARALAKHEMUNDI	12	ODAGAON ARG	5
KUMARGRAM	5	NAWARANGPUR	12	BALASORE	5
MATHABHANGA	5	SALEBHATTA ARG	12	ALIPINGAL	5
CHEPAN	4	KOREI ARG	11	JODA ARG	5
BUXADUAR	2	TITLAGARH	11	TIRTOL ARG	5
SINGLA BAZAR	2	BALIPATNA ARG	10	DIGAPAHANDI ARG	5
DAMTHANG	2	TIGIRIA ARG	10	BOLANGIR	5
BAROBHISHA	2	KRISHNAPRASAD	10	PURUSHOTTAMPUR	5
HASIMARA	2	RAJGHAT	10	BARIPADA	5
TADONG	2	JAJPUR	9	BALIKUDA ARG	5
GANGTOK	1	POTTANGI	9	GUDARI	5
CHENGMARI/DIANA	1	R.UDAIGIRI	9	DABUGAN ARG	5
ALIPURDUAR (CWC)	1	AKHUAPADA	9	KHANDAPARA	5
NH31 BRIDGE	1	BERHAMPUR	9	SINAPALI ARG	5
BAGRAKOTE	1	TANGI	9	MUNIGUDA ARG	5
				CHANDAHANDI ARG	5
				BHUBAN ARG	5

JAGANNATH PRASAD ARG	4	BANAIGARH AWS	2	UDAI KISHANGANJ	2
NH5 GOBINDPUR	4	GANIA ARG	2	REWAGHAT	2
JAGATSINGHPUR AWS	4	RAIGHAR ARG	2	BALTARA	2
TIKABALI	4	JAMSOLAGHAT	2	TRIBENI/BALMIKI	2
BHADRAK AWS	4	BINJHARPUR ARG	2	HUSSAINGANJ	2
UDALA	4	PARJANG ARG	2	MURLIGANJ	2
MADHABARIDA	4	KEONJHARGARH	2	BHABHUA	2
CHANDANPUR	4	HEMGIRI	2	MAHARAJGANJ	2
BISSEM-CUTTACK	4	JOSHIPUR	1	CHANPATIA	2
BINIKA	4	BARI ARG	1	DEHRI	2
K NUAGAON ARG	4	NARSINGHPUR	1	SABOUR	2
DASPALLA	4	LAHUNIPARA	1	BHAGALPUR	1
BALIGUDA	4	SONEPUR	1	HATHWA	1
BANGIRIPOSI	4	ANGUL	1	BASUA	1
SORO	4	NAKTIDEUL	1	HAYAGHAT	1
ANANDPUR	3	THAKURMUNDA	1	ISLAMPUR	1
PHULBANI	3	HIRAKUD	1	KUDRA	1
TIHIDI ARG	3	KENDRAPARA	1	SARAIYA	1
BIJEPUR	3	TIRING	1	DARAUJI	1
RAJKANIKA	3	SORADA	1	JALALPUR	1
RAGHUNATHPUR ARG	3	MANDIRA DAM	1	BAHADURGANJ	1
UMARKOTE	3	ALTUMA CWC	1	CHAPRA	1
PATTAMUNDAI	3	CHAMPUA	1	MAHUA	1
ATHMALIK	3	KAMAKHYANAGAR	1	NIRMALI	1
BHANJNAGAR	3	JAMANKIRA	1	SONO	1
TIKARPARA	3	RAJKISHORENAGAR	1	KATORIA	1
BALIMUNDALI	3	TELKOI	1		
BODEN ARG	3	JUJUMURA ARG	1	EAST UTTAR PRADESH:	
ASKA	3	REAMAL	1		
BELAGUNTHA ARG	3	KHAIRAMAL	1	PATTI	10
CHANDBALI	3	KIRMIRA ARG	1	FAIZABAD(AG)	7
GURUNDIA ARG	3	ULLUNDA ARG	1	CHUNAR	7
JHUMPURA	3			RAE BARELI CWC	6
KANKADAHAD ARG	3	JHARKHAND:		PHOOLPUR ALB	6
SALEPUR ARG	3			LUCKNOW (CR)	5
BHOGRAI	3	GHATSILA	5	AMETHI	5
GAISILET ARG	3	HUNTERGANJ	3	KAKRAHI	5
GARADAPUR ARG	3	KURU	3	SALEMPUR	5
MOHANA	3	PALKOT	3	RAMNAGAR	5
KANTAMAL	3	LATEHAR	2	MALIHABAD	5
DARINGIBADI	3	SIMDEGA	2	VARANASI-B.H.U.	5
MAHANGA ARG	3	NANDADIH	2	PRATAPGARH (T)	4
DAITARI	2	DALTONGANJ	2	GORAKHPUR	4
GHATAGAON	2	PATHARGAMA	2	RAM SANEHI GHAT TEHSIL	4
HINDOL	2	GODDA	2	PURWA	4
CHENDIPADA	2	PANKI	2	CHURK	4
RAIRAKHOL	2	LOHARDAGA	2	BIRDGHAT	4
RAIRANGPUR	2	TILAIYA	2	SORAON	3
MARSAGHAI ARG	2	RAMGARH	1	TURTIPAR	3
RAIKIA ARG	2	BISHRAMPUR	1	KHALILABAD	3
BARKOTE	2	HINDGIR	1	CHHIBRAMAU	3
NISCHINTAKOILI ARG	2	BARHI	1	HANDIA	3
KHARIAR	2	CHAKRADHARPUR	1	SHAHGANJ	3
PADAMPUR	2			GYANPUR	3
SOHELA	2	BIHAR:		H AidARGARH	3
G UDAYAGIRI AWS	2			KHERI LAKHIMPUR	3
DERABIS ARG	2	CHATIA	9	GAIGHAT (BLA FMO)	3
RENGALI	2	BHORE/BORCH	7	BANI	3
BARMUL	2	GOPALGANJ	6	VARANASI/BAB AERO	3
ATABIRA ARG	2	MOHANIA	6	LUCKNOW (HS)	3
BANARPAL ARG	2	VAISHALI	5	BANSI CWC	3
BARPALLI ARG	2	MARHAURA/AMNAR	5	REGOLI	3
TALCHER	2	RAMNAGAR	4	GHAZIPUR OBSY	3
PHIRINGIA ARG	2	PACHRUKHI	4	DUDHI	3
HARICHANDANPUR ARG	2	BAGAHA	3	BADLAPUR	3
HARABHANGA	2	BUXAR	3	SIRAUJI GAUSPUR TEHSIL	3
BOUDHGARH	2	PURNEA	2	BILGRAM	2
KANIHA ARG	2	JHAJHA	2	ROBERTSGANJ	2

SARDANAGAR	2
BALLIA OBSY	2
FURSATGANJ	2
MUKHLISPUR	2
GHOSI	2
JAUNPUR CWC	2
KANPUR TEH	2
JAUNPUR TEHSIL	2
LUCKNOW (AP)	2
SULTANPUR OBSY	2
MIRZAPUR TEHSIL	2
MAHARAJGANJ	2
KARCHHANA	2
ALLAHABAD/ PBO	2
MEJA	2
SULTANPUR CWC	2
GHAZIPUR CWC	2
UNNAO TEHSIL	1
GHORAWAL	1
HATA	1
CHANDERDEEPPGHAT	1
PHARENDA	1
BANSGAON	1
MOHAMMEDABAD (Y)	1
RAE BARELI TEHSIL	1
MUSAFIR KHANA	1
RASRA	1
RAJGHAT (VNS CWC)	1
BAHRAICH	1
DALMAU CWC	1
BASTI OBSY	1
ALLAHABAD SADAR	1
ZAMANIA	1
BASTI CWC	1
SIRATHU	1
NANPARA	1

WEST UTTAR PRADESH:

MATHURA CWC	5
KIRAWALI	5
JALESAR	5
MEERUT	3
ALIGARH	2
JASRANA	2
SAHARANPUR	2
KHAIR	2
KHAIRAGAR	1
ETAH	1
AGRA OBSY	1
MEERUT TEH	1
CHHATA	1
BHOGAON	1
MAHRONI	1

UTTARAKHAND:

HALDWANI	4
DEHRA DUN	4
LANSDOWN	3
KOTDWAR	3
HARDWAR	1
ROORKEE	1
MUNSIYARI	1
BHATWARI	1
KAPKOT	1

HARYANA CHD & DELHI:

GOHANA	3
DELHI PRESIDENT HOUSE	3
DELHI SAFDARJUNG	2
NARAINGARH	2
DELHI UNIVERSITY	2
DELHI LODI ROAD	2
DELHI LODI ROAD AWS	2
DELHI RIDGE	1
KARNAL	1
BHAWANIKHERA	1
DELHI PUSA AWS	1
TOSHAM	1
HISSAR	1
BHIWANI REV	1

PUNJAB:

FARIDKOT	3
FARIDKOT AWS	3
SAMANA	2
BALACHAUR	2
MALAKPUR	2

HIMACHAL PRADESH:

GOHAR	7
SARKAGHAT	5
KUFRI AWS	4
BANJAR	4
PALAMPUR	3
BAIJNATH	3
SHIMLA AERO	3
BIJAH	3
JANJEHLI	3
DHARMSALA	2
SIMLA	2
SARAHAN	1
DALHOUSI ALHA AWS	1
RAJGARH	1
PANDOH	1
NADAUN	1

JAMMU & KASHMIR:

JAMMU	4
GULMARG AWS	1

WEST RAJASTHAN:

BALI	8
SRIGANGANAGAR TEHSIL	7
GANGANAGAR	7
PALI	6
DESURI	4
SURATGARH	3
NAWA	3
PARBATSAR	3
MARWAR JUNCTION	3
SUMERPUR SR	2
ERINPURA/JAWAI DAM	2
KARANPUR	2
GARSANA SR	1
JASWANTPURA	1
RANIWADA SR	1
BHINMAL	1
RAISINGNAGAR	1

EAST RAJASTHAN:

MOUNT ABU	17
MOUNNTABU TEHSIL SR	17
SAWAIMADHOPUR TESIL	15
SAWAI MADHOPUR	13
SHERGARH SR	11
PRATAPGARH	10
PINDWARA	10
PATAN	10
SAJJANGARH SR	9
BHARATPUR	9
BHARATPUR TEHSIL SR	9
MALERAINADUNGER SR	9
SALLOPAT SR	9
KHUSHALGARH	8
DANTA RAMGARH	7
BAYANA	7
KUMHER SR	7
SIROHI	6
BAGIDORA SR	6
NADOTI	6
BEIR SR	5
BANSWARA SR	5
SANGANER TEHSIL SR	5
SHAHABAD	5
BAMANWAS SR	5
KOTDA SR	5
DEGOD SR	4
KISHANGANJ	4
HINDAUN	4
DANPUR	4
BARI-SADRI	4
NARAINA SR	4
BONLI	4
CHIKALI SR	4
JAIPUR AERO	4
BASWA	3
KAMAN	3
BHUNGRA SR	3
GANGRAR	3
GANGAPUR	3
JAGPURA SR	3
KARAULI	3
NAGAR SR	3
GHATOL	3
GOVINDGARH SR	3
SAPOTRA	3
RAJSAMAND	3
PIRAWA	3
SIKRAI	3
MANDAL SR	3
JHADOL SR	2
UNIARA / ALIGARH	2
KHANPUR	2
NITHUWA SR	2
GALIAKOT SR	2
NADBAI	2
RAJGARH	2
REODAR SR	2
SAMBHAR SR	2
DUNGLA SR	2
INDERGARH SR	2
SHAHPURA	2
KESARPURA SR	2
SHEOGANJ	2
TODABHIM	2
BASERI SR	2

MANGROL	2	ANAND	13	DANTIWADA	3
MAVLI	2	DHANSURA	12	ANKLAV	3
JHALARAPATAN SR	2	DAHOD	10	CHORYASI	3
TAPUKARA	2	HIMATANAGAR	10	MORVA HADAF	3
SANGOD	2	VALIA	10	TARAPUR	3
BUNDI	2	V.VIDYANAGAR SR	9	SOJITRA	3
ARTHUNA	2	NANIPALSON	9	VISNAGAR	3
CHOTHKABARWARA SR	1	DEDIAPADA	9	JHAGADIA	3
NAINWA	1	TALOD	9	GARUDESHWAR	3
LOHARIA	1	KAPRADA	9	SUBIR	3
NIWAI	1	WAGHAI	8	UMERGAM	3
ALWAR SR	1	BHARUCH	8	MAHUVA	3
CHOMU	1	MADHBUN	8	NADIAD	3
RAIPUR	1	MANDVI	8	ABAD CITY	3
ATRU SR	1	JAMBUGHODA	8	NANDOD	3
LACHMANGARH (DISTRICT:		DHARAMPUR	7	MEGHRAJ	3
ALWAR)	1	KHERGAM	7	DETROJ	3
KUMBHALGARH SR	1	SATLASANA	7	VALOD	3
GANESHPUR SR	1	VAGRA	7	PALSANA	3
MAHWA	1	SURAT CITY	7	HALOL	3
DEEG SR	1	MAHUDHA	6	UCHCHHAL	2
GIRVA SR	1	SILVASSA	6	KATHALAL	2
RAMGARHSHEKHATAN SR	1	NIZER	6	SHAHERA	2
MANOHAR THANA	1	LIMKHEDA	6	WAGHODIA	2
RUPBAS	1	MODASA	6	THASRA	2
PAHARI SR	1	PARDI	6	DAMAN	2
ANTA SR	1	KALOL(G)	6	DEODAR	2
PIPLU SR	1	VADGAM	6	BAYAD	2
BAHADURPUR SR	1	DESAR	5	PETLAD	2
SRIMADHOPUR	1	BALASINOR	5	VADALI	2
RAMGANJMANDI SR	1	AMIRGADH	5	TILAKWADA	2
PIPALDA SR	1	VANSDA	5	VADODARA	2
HURDA SR	1	DASCROI	5	IDAR	2
BANERA SR	1	WANAKBORI	5	JALALPOR	2
MALAKHERA SR	1	MALPUR	5	VIRPUR	2
KATHUMER	1	DHOLERA	5	MATAR	2
PHAGI	1	DANGS (AHWA)	5	DHANDHUKA	2
CHABRA	1	SANJELI	5	DABHOI	2
BARAN	1	FATEPURA	5	RAJPIPALA	2
GEOLA SR	1	VALSAD	5	SINOR	1
		VIJAPUR	5	POSHINA	1
WEST MADHYA PRADESH:		PALANPUR	5	GHOGHAMBA	1
THANDLA	7	VAPI	5	NAVSARI	1
DATIA-AWS	4	DHAROI COLONY	5	GANDEVI	1
RATLAM-AWS	3	KAMREJ	5	KALOL	1
PETLAWAD	2	KAPADVANJ	5	KHAMBHAT	1
SHIVPURI-AWS	2	KADANA	5	KHEDA	1
KOLARAS	2	UKAI	5	AMOD	1
BADNAWAR	2	DEESA	4	BHABHAR	1
JHABUA-AWS	2	DEVGADH BARIA	4	KANKREJ	1
NEEMUCH-AWS	1	CHIKHLI	4	SAVLI	1
CHACHODA	1	OLPAD	4	SIDDHPUR	1
KHACHROD	1	VADNAGAR	4	SHANKHESHWAR	1
KARERA	1	JHALOD	4	KADI	1
NALCHHA	1	MANSA	4	MAHEMDAVAD	1
		LUNAWADA	4	GALTESHWAR	1
EAST MADHYA PRADESH:		BODELI	4	QUANT	1
SINGRAULI-AWS	5	GODHRA	4	UNJHA	1
KARELI	2	MAHESANA	4	JOTANA	1
		BARDOI	3	KHANPUR	1
GUJARAT REGION:		SANTRAMPUR	3	GARBADA	1
UMERPADA	32	VYARA	3	NASWADI	1
SAGBARA	18	SONGADH	3	MANGROL	1
NETRANG	13	PRANTIJ	3	CHHOTA UDEPUR	1
HANSOT	13	VASO	3	DANTA	1
ANKLESHWER	13	JETPUR PAVI	3	BHILODA	1
		UMRETH	3	BAVLA	1
		BORSAD	3	KARJAN	1

KHEDBRAHMA	1	DAHANU - IMD OBSY	2	BILLOLI	2
JAMBUSER	1	MORMUGAO - PMO IMD	2	ARDHAPUR	2
DHANERA	1	ULHASNAGAR	2	VASMAT	2
SAURASHTRA & KUTCH:		ALIBAG - IMD PART TIME	2	KANNAD	1
		GUHAGARH	2	PARBHANI - IMD OBSY	1
		VASAI	2	JALKOT	1
GHOGHA	6	TBIA IMD PART TIME	2	PARTUR	1
LAKHTAR	5	PERNEM	2	NANDED - IMD PARTTIME	1
WADHVAN	2	SANTACRUZ - IMD OBSY	2	PATHRI	1
UMRALA	2	CANACONA	2	JALNA	1
DIU	2	MURUD	1	JAFRABAD	1
MALIA	1	PANJIM - IMD OBSY	1	BHOKARDAN	1
BARVALA	1	VENGURLA - IMD PT	1	DEGLOOR - FMO	1
TALAJA	1	HARNAI IMD OBSY	1	NILANGA	1
VISAVADAR	1			AUNDHA NAGNATH	1
TALALA	1	MADHYA MAHARASHTRA:			
BHAVNAGAR	1	AKKALKUWA	10	VIDARBHA:	
GIR GADHADA	1	MAHABALESHWAR- IMD	8	BHAMRAGAD	4
VALLABHIPUR	1	IGATPURI	7	SIRONCHA	3
		PETH	7	AHIRI	3
KONKAN & GOA:		OZHARKHEDA - FMO	6	KORPANA	2
		HARSUL - FMO	5	MAUDA	2
JAWHAR	15	RADHANAGARI	5	ETAPALLI	1
MOKHEDA - FMO	11	TALODA	5	JOITI	1
VIKRAMGAD	9	NAVAPUR	5	BALLARPUR	1
MATHERAN	9	SURGANA	5	PANDHERIKAWARA	1
KARJAT AGRI	8	TRIMBAKSHWAR	3	PATUR	1
KHALAPUR	7	SHAHUWADI	3	DEOLGAON RAJA	1
BHIRA - IMD PART TIME	7	AJRA	3	BHANDARA	1
VALPOI	6	DHADGAON/AKRANI-	3	SINDKHED RAJA	1
WADA	6	JAVALI MEDHA	3	BARSHITAKLI	1
TALASARI	6	NANDURBAR	3	ZARIZAMNI	1
KANKAVLI	6	CHANDGAD	3	CHIKHLI	1
PEN	5	PACHORA	3		
RAJAPUR	5	MULHER - FMO	2	CHHATTISGARH:	
PONDA	5	GAGANBAWADA	2		
DAPOLI AGRI	5	SINDKHEDA	2	BIJAPUR	11
KHED	4	PAUD MULSHI	2	KORBA	10
MHASLA	4	SHIRALA	2	BHOPALPATNAM	9
CHIPLUN	4	BHOR	2	SUKMA	8
BHIWANDI	4	VELHE	2	DANTEWARA	7
ROHA	4	AMBEGAON GHODEGAON	2	SARANGARH	7
POLADPUR	4	GARGOTI / BHUDARGAD	2	DEOBHOG	7
MAPUSA	4	PATAN	1	RAIGARH	6
VAIBHAVWADI	4	GIDHADE - FMO	1	JAGDALPUR	6
DABOLIM N.A.S.- NAVY	4	DINDORI	1	CHAMPA	5
QUEPEM	3	PANHALA	1	SAKTI	5
KUDAL	3	SHIRPUR	1	JANJGIR	4
PANVEL AGRI	3	KOLHAPUR/KARVIR IMD	1	NARAYANPUR	4
SANGUEM	3	VADGAON MAVAL	1	SURAJPUR	4
MULDE AGRI	3	SATNA BAGLAN	1	KONDAGAON	4
DODAMARG	3	SAKRI	1	SARAIPALI	3
LANJA	3	SINNAR	1	KATGHORA	3
URAN	3	NASHIK - IMD OBSY	1	KONTA	2
TALA	3	SATARA - IMD OBSY	1	AMBIKAPUR	2
KALYAN	3	DEVLA	1	PATHALGAON	2
MANDANGAD	3	SHAHADA	1	PALI	2
SHRIWARDHAN	3	GADHINGLAJ	1	RAMANUJGANJ	1
MURBAD	3	CHALISGAON	1	BEMETARA	1
SUDHAGAD PALI	3	AMALNER	1	GHARGHODA	1
AMBERNATH	3	AKOLE	1		
SAWANTWADI	3			COASTAL ANDHRA PRADESH:	
MANGAON	3	MARATHWADA:			
RATNAGIRI - IMD OBSY	2	MUKHED	3	PALASA	15
THANE	2	GHANSAWANGI	3	SOMPETA	12
MAHAD	2	SELU	2	MANDASA	12
PALGHAR AGRI	2	PURNA	2	TEKKALI	11
DEVGAD	2				

PATHAPATNAM	11	NALLABELLY	5	DOMA	1
ICHCHAPURAM	10	YEDA PALLE	5	KAMMAR PALLE	1
ARAKU VALLEY	9	JAGTIAL	5	GOVINDARAOPET	1
CHINTAPALLE	8	DHAR PALLE	4	ADILABAD	1
PALAKONDA	7	PERUR	4	MORTAD	1
PADERU	7	PARKAL	4	LINGAMPET	1
KALINGAPATNAM	7	KOTHAGUDEM (DISTRICT:		CHINTHAKAM	1
KURUPAM	5	WARANGAL URBAN)	3	JULURPAD	1
BALAJIPETA	5	KARIMNAGAR	3	KONIJERLA	1
SEETHANAGARAM	4	MOGULLAPALLE	3	RANJAL	1
JIYYAMMA VALASA	4	MADNUR	3	BONAKAL	1
VEERAGHATTAM	4	BODHAN	3	DHARMASAGAR	1
THERLAM	4	PALAWANCHA	3	PALAKURTHI	1
KOMARADA	4	VENKATAPURAM	3	DORNAKAL	1
BOBBILI	4	HANAMKONDA	3	VELPUR	1
SALUR	4	GUNDALA	3	CHENNARAOPET	1
MERAKAMUDIDAM	4	THIMMAPUR	3	UTNUR	1
GARUGUBILLI	3	ASWAPURAM	3	MEDCHAL	1
BONDAPALLE	3	KALESWARAM	3	ENKURU	1
VISAKHAPATNAM	3	ATMAKURWRGL	3		
CHEEPURUPALLE	3	CHENNUR	3	TAMIL NADU & PUDUCHERRY:	
PARVATHIPURAM	3	JAKRANPALLE	3	VALPARAI PTO	2
SRUNGAVARAPUKOTA	3	ASWARAOPETA	3	G BAZAR	2
GAJAPATHINAGARAM	3	BHADRACHALAM	3	VALPARAI TALUK OFFICE	2
MENTADA	3	MANTHANI	3	NADUVATTAM	1
BHEEMUNIPATNAM	2	NARSAMPET	2	DEVALA	1
CHODAVARAM	2	KUSUMANCHI	2		
VEPADA	2	IBRAHIMPATNAM	2	COASTAL KARNATAKA:	
RANASTALAM	2	MANUGURU	2	SIDDAPURA	12
KOIDA	2	DUMMUGUDEM	2	KOLLUR	10
VIZIANAGARAM	2	MULUG	2	CASTLE ROCK	8
GARIVIDI	2	RAMGUNDAM	2	MANI	7
NELLIMARLA	2	KOTHAGUDEM (DISTRICT: B.		PANAMBUR OBSY	7
NARSIPATNAM	2	KOTHAGUDEM)	2	MULKI	7
CHINTUR	2	GUDURWRGL	2	SHIRALI PTO	7
VISAKHAPATNAM AP	2	BHUPALPALLE	2	MUDUBIDRE	7
KOYYALAGUDEM	2	DHARMAPURI	2	BANTWAL	6
VELAIRPAD	2	YELLANDU	2	MANGALURU AP OBSY	6
KUKUNOOR	2	KAMAREDDY	2	SULYA	6
PUSAPATIREGA	2	PINAPAKA	2	YELLAPUR	6
GUNTUR	2	HASANPARTHY	2	BELTHANGADI	5
VARARAMACHANDRAPUR	2	SIRSILLA	2	KUNDAPUR	5
GANTYADA	1	LUXETTIPET	2	DHARMASTHALA	5
DENKADA	1	MULAKALAPALLE	2	KADRA	5
KUNAVARAM	1	KOTGIRI	2	KUMTA	5
LAM(A)	1	KHANPUR	2	SUBRAMANYA	5
KAKINADA	1	KHANAPUR	2	KARKALA	4
TENALI	1	SARANGAPUR	2	HONAVAR OBSY	4
TUNI	1	VENKATAPUR	2	KOTA	4
ANAKAPALLE	1	TADWAI	2	SIDDAPUR	3
RAJAHMUNDRY	1	ASIFABAD	2	MANGALURU	3
YELAMANCHILI	1	BURGAMPADU	2	UDUPI	3
PRATHIPADU	1	HUZURABAD	2	GOKARNA	3
POLAVARAM	1	SADASIVANAGAR	2	MANCHIKERE	3
PEDDAPURAM	1	TEKULAPALLE	2	BANAVASI	3
DOWLESHWARAM	1	BIRKOOR	2	JAGALBET	2
		MANCHERIAL	2	KARWAR OBSY	2
TELANGANA:		BHEEMADEVARPALLE	2	HALIYAL	1
NIZAMABAD	8	GANDHARI	1		
DICH PALLE	7	CHANDRUGONDA	1	N. I. KARNATAKA:	
JULAPALLE	7	KONDRUG	1	LONDA	5
MALLIAL	6	MACHAREDDY	1	NIPPANI	1
SULTANABAD	6	BEJJANKI	1	CHIKODI	1
PEGADAPALLE	6	METPALLE	1	SULEPET	1
BHEEMGAL	6	GAMBHIRAOPET	1		
GANGADHARA	5	MUSTABAD	1		
SHAYAMPET	5	VARNI	1		
		NIRMAL	1		

S. I. KARNATAKA:

AGUMBE EMO	16
KAMMARDI	10
KOTTIGEHARA	7
KOPPA	7
BHAGAMANDALA	5
JAYAPURA	5
MADAPURA	4
MADIKERI PTO	4
SRINGERI HMS	4
KALASA	4
MUDIGERE	4
VIRAJPET	3
NAPOKLU	3
N R PURA	3
HUNCHADAKATTE	3
THALAGUPPA	3
BALEHONNUR	2
PONNAMPET PWD	2
ANAVATTI	2
BHAVIKERE AGRO	1
TYAGARTHI	1
LAKKAVALLI	1

KAMPLI	1
BHADRAVATHI	1
SARGUR	1

KERALA:

HOSDURG	9
TALIPARAMBA	7
TELLICHERY	7
IRIKKUR	6
MANANTODDY	5
KUDULU	5
VADAKKANCHERRY	4
IDUKKI	4
VYTTIRI	4
PALAKKAD	4
KANNUR	4
VADAKARA	4
KOZHICODE	3
PERINTHALAMANNA	3
NILAMBUR	3
THODUPUZHA	3
ANGADIPURAM	3
PONNANI	3
MUNNAR KSEB	2

OTTAPALAM	2
PATTEMBI	2
THRITLA	2
MANJERI	2
ALATHUR	2
MYLADUMPARA AGRI	2
ALWAYE PWD	2
KARIPUR AP.	2
AMBALAVAYAL	2
KUNNAMKULAM	1
VELLANIKKARA	1
KUPPADY	1
IRINJALAKUDA	1
HARIPAD	1
PARUMBIKULAM	1
CHERTHALA	1
KOLLAMKODE	1
PEERMADE TO	1
PIRAVAM	1
CHITTUR	1
KOCHI C.I.A.L.	1

LEGEND:

(A) / AWS--Automated Weather Station
AP--Airport
ARG--Automated Rain-Gauge
CDR--Cyclone Detection Radar
CWC--Central Water Commission

FMO--Flood Met Office
IAF--Indian Air Force
IMD--India Meteorological Department.
PBO--Pilot Balloon Obsy
PT / PTO--Part Time Observatory

PWD--Public Welfare Department
SR--State Raingauge