



ABSTRACT

Disaster Management - Deficit rainfall during North East Monsoon, 2018 - Declaration of 24 Districts and 38 blocks of 7 Districts in the State of Tamil Nadu as affected by Hydrological drought - Orders - Issued.

REVENUE AND DISASTER MANAGEMENT DEPARTMENT **DISASTER MANAGEMENT WING, D.M.III (1) SECTION**

G.O. (Ms) No.91

Dated: 07.03.2019

விளம்பி-மாசி 23, திருவள்ளூர் ஆண்டு, 2050

Read:

1. Press statement of Hon'ble Chief Minister's dated 31.01.2019.
2. From the Additional Chief Secretary / Commissioner of Revenue Administration, Letter Rc.No.NC.2(2)/5987/2018, dated 04.02.2019.

ORDER:

In the letter second read above, the Additional Chief Secretary/ Commissioner of Revenue Administration has submitted the following:-

Rainfall plays a critical role in Tamil Nadu for meeting its drinking water and irrigation needs. The long term annual average rainfall is 920.9 mm and rainfall received during Winter, Summer, Southwest and Northeast monsoon Seasons account for 3%, 14%, 35% and 48% respectively. The rainfall received in two major seasons. The Southwest Monsoon (June to September) accounts for 35% of the total rainfall and Northeast Monsoon accounts for 48% of the rainfall. The rainfall received in Southwest and Northeast Monsoon ensures recharging of ground water and replenish sources of water supply schemes and enables the Government supply drinking water upto the next year's North East Monsoon. The annual rainfall during 2018 are detailed below:-

Season	Percentage to Normal Annual Rainfall	Season Normal (Rainfall in mm)	Actual (Rainfall in mm)	Season departure
Winter Season January-February	3%	31.3	16.7	-47%
Summer Season March-May	14%	128.0	153.7	20%
Southwest monsoon June-September	35%	321.2	282.9	-12%

[P.T.O.]

Northeast Monsoon October-December	48%	440.4	336.5	-24%
Total (Jan-Dec)	100%	920.9	789.9	-14%

Further, the following 17 districts have recorded deficit rainfall ranging from -59% to -19%:-

Sl. No.	District	NEM Season Normal (in m.m.)	NEM Season Actual (in m.m.)	NEM 2018 Season Departure
1	Dharmapuri	330.1	133.7	-59%
2	Krishnagiri	289.4	123.1	-57%
3	Chennai	789.9	352.9	-55%
4	Karur	314.7	147.4	-53%
5	Salem	370.5	187.6	-49%
6	Vellore	348.7	181.6	-48%
7	Tiruchirapalli	391.5	208.0	-47%
8	Perambalur	440.9	250.0	-43%
9	Tiruvallur	589.3	343.2	-42%
10	Namakkal	291.6	182.5	-37%
11	Virudhunagar	419.0	265.5	-37%
12	Kancheepuram	641.8	417.1	-35%
13	Madurai	419.1	278.4	-34%
14	Dindigul	436.4	301.8	-31%
15	Erode	314.6	228.0	-28%
16	Pudukottai	406.2	313.2	-23%
17	Sivagangai	422.7	338.0	-20%

In respect of the following 7 districts, though the North East Monsoon rainfall 2018 was normal, the annual rainfall 2018 was found deficit:-

Sl. No.	District	NEM Season Normal (in m.m.)	NEM Season Actual (in m.m.)	NEM Season Departure	Annual Season Normal (in m.m.)	Annual Season Actual (in m.m.)	Annual Season Departure
1	Thanjavur	550.3	471.5	-14%	1013.1	703.8	-31%
2	Villupuram	499.1	435.8	-13%	1011.6	726.7	-28%
3	Tiruvannamalai	446.5	393.1	-12%	1040.0	790.2	-24%
4	Ariyalur	545.5	518.2	-5%	1071.8	814.5	-24%
5	Nagapattinam	941	816.5	-13%	1393.3	1079.8	-23%
6	Cuddalore	697.8	621.0	-11%	1206.7	965.0	-20%
7	Ramanathapuram	491.7	440.3	-10%	807.8	649.7	-20%

In respect of the remaining 7 districts, though the rainfall aggregate at district level matches normal rainfall (with deficit less than 19%), the distribution was not uniform across the district. In order to assess the block-wise conditions, an analysis of block-wise rainfall was made with reference to block wise normal rainfall arrived based on the Block wise seasonal actuals of more than 10 to 15 years. Moreover the cumulative rainfall show that 7 Districts received rainfall with a deficit of 20% and above. The Block wise details which received deficit rainfall during NEM 2018 are as follows:-

District	Sl. No.	Block Name	Actual Rainfall	NEM	Block Deviation (%)
			NEM 2018	Normal	
			(in mm)	(in mm)	
Coimbatore	1	Anamalai	225.1	300.01	-24.91
	2	Annur	142	197.69	-28.17
	3	Pollachi(North)	229	293.65	-22.02
	4	Pollachi(South)	225.1	300.01	-24.91
	5	Sultanpet	232.45	289.38	-19.17
Kanyakumari	6	Killiyoor	373.9	506.08	-26.34
	7	Kurunthancode	341.8	465.44	-25.68
	8	Melpuram	412.75	550.12	-27.82
	9	Munchirai	393.33	528.1	-27.08
	10	Rajakkamangalam	371.26	509.9	-27.04
	11	Thovalai	292.2	499.97	-41.56
Theni	12	Andipatti	235.8	376.51	-37.37
	13	Chinnamanur	284.95	388.54	-26.93
	14	Kadamalaigundu	271.16	369.84	-26.67
	15	Theni	258.8	358.55	-28.16
	16	Uthamapalayam	340.1	463.36	-27.96
Thoothukudi	17	Karunkulam	316.74	415.18	-25.63
	18	Kayattar	381.17	468.91	-19.19
	19	Kovilpatti	240.75	384.58	-37.37
	20	Ottapidaram	194.33	347.23	-44.94
	21	Pudur	173	353.73	-51.09
	22	Sri Vaikundam	327.5	443.93	-26.23
Tirunelveli	23	Alangulam	366.31	468.78	-23.34
	24	Cheranmahadevi	352.6	455.35	-22.57
	25	Manur	217.45	377.35	-42.37
	26	Palayamkottai	312.6	457.4	-31.66
	27	Radhapuram	342.9	432.7	-20.75
	28	Vasudevanallur	317.1	559.44	-43.32

Tiruppur	29	Dharapuram	290.8	388.5	-25.15
	30	Gudimangalam	257.95	344.25	-25.03
	31	Kangeyam	124.5	296.41	-58
	32	Kundadam	197.43	341.83	-43.72
	33	Madathukulam	281.13	403.22	-29.52
	34	Mulanur	177	340.57	-48.03
	35	Palladam	227	309.13	-26.57
	36	Udumalaipettai	221.2	306.38	-27.8
	37	Vellakoil	150.75	318.49	-53.01
Nilgiris	38	Gudalur	140.60	382.27	-63.22

The analysis showed that during NEM 2018, 38 blocks in the above 7 districts, the percentage deviation with reference to the season normal rainfall was "Deficient" and "Large Deficient". As a result, the surface water and ground water resources fast depleting, the districts/blocks are already experiencing drinking water problems and would be affected further due to Hydrological drought in the ensuing summer.

2. The Additional Chief Secretary / Commissioner of Revenue Administration has further stated that, during the meeting on 31.01.2019, the Hon'ble Chief Minister has reviewed the status of drinking water supply with the line departments. During the above meeting the Additional Chief Secretary / Managing Director, Chennai Metropolitan Water Supply and Sewerage Board (CMWSSB) presented the storage position of the reservoirs, supply drinking water to Chennai as detailed below:-

Reservoir	Full capacity in Mcft	Storage in Mcft (as on 28.1.2019)	Storage as on same day last year in Mcft (as on 28.1.2018)
Poondi	3,231	204	1310
Cholavaram	1081	48	459
Redhills	3300	748	1396
Chembarambakkam	3645	54	1713
TOTAL	11,257	1054	4878
Veeranam *	1,465	1,387	474
Full capacity in Mcft	12,722	2,441	5,352

The Director, Rural Development informed that out of the 12524 village panchayats located in 385 blocks, the following number of areas will be affected during the months of March, April and May 2019:-

Areas	March 2019	April 2019	May 2019
Panchayat Unions	143	222	252
Village Panchayats	2883	4337	5426
Habitations	14333	20212	25993

3. Hence, the Additional Chief Secretary / Commissioner of Revenue Administration has requested the orders of the Government on the following:-

- a. to notify and declare the 24 districts of Chennai (serviced by CMWSSB), Dharmapuri, Krishnagiri, Karur, Salem, Vellore, Tiruchirapalli, Perambalur, Tiruvallur, Namakkal, Virudhunagar, Kancheepuram, Madurai, Dindigul, Erode, Pudukottai, Sivagangai, Thanjavur, Viluppuram, Tiruvanamalai, Ariyalur, Nagapattinam, Cuddalore and Ramanathapuram as affected by Hydrological Drought,
- b. to notify and declare the Blocks of Tirunelveli (6), Tiruppur (9), Kanniyakumari (6), Thoothukudi (6), Theni (5) Coimbatore (5) and Nilgiris (1) Districts as affected by Hydrological Drought.

4. The Government after careful consideration, accepts the proposal of the Additional Chief Secretary / Commissioner of Revenue Administration and hereby issues following orders:-

- a) To declare the Districts having deficit annual rainfall such as, Chennai (serviced by Chennai Metropolitan Water Supply and Sewerage Board), Dharmapuri, Krishnagiri, Karur, Salem, Vellore, Tiruchirapalli, Perambalur, Tiruvallur, Namakkal, Virudhunagar, Kancheepuram, Madurai, Dindigul, Erode, Pudukottai, Sivagangai, Thanjavur, Viluppuram, Tiruvanamalai, Ariyalur, Nagapattinam, Cuddalore and Ramanathapuram as affected by Hydrological drought.
- b) To declare certain blocks in the following seven (7) Districts having deficit annual rainfall as affected by Hydrological Drought:-

District		Block Name	
1.	Coimbatore	1	Anamalai
		2	Annur
		3	Pollachi(North)
		4	Pollachi(South)
		5	Sultanpet
2.	Kanyakumari	6	Killiyoor
		7	Kurunthancode
		8	Melpuram
		9	Munchirai
		10	Rajakkamangalam
		11	Thovalai
3.	Theni	12	Andipatti
		13	Chinnamanur
		14	Kadamalaigundu
		15	Theni
		16	Uthamapalayam

4.	Thoothukudi	17	Karunkulam
		18	Kayattar
		19	Kovilpatti
		20	Ottapidaram
		21	Pudur
		22	Sri Vaikundam
5.	Tirunelveli	23	Alangulam
		24	Cheranmahadevi
		25	Manur
		26	Palayamkottai
		27	Radhapuram
		28	Vasudevanallur
6.	Tiruppur	29	Dharapuram
		30	Gudimangalam
		31	Kangeyam
		32	Kundadam
		33	Madathukulam
		34	Mulanur
		35	Palladam
		36	Udumalaipettai
7.	Nilgiris	37	Vellakoil
		38	Gudalur

5. This order issues with the concurrence of Finance Department vide its U.O.No.11439/SS(AK)/2019, dated 07.03.2019.

(By order of the Governor)

ATULYA MISRA
ADDITIONAL CHIEF SECRETARY TO GOVERNMENT

To

The Additional Chief Secretary / Commissioner of Revenue
Administration, Ezhilagam, Chepauk, Chennai - 600 005.

✓ The Commissioner, Disaster Management,
Tamil Nadu Disaster Risk Reduction Agency, Chepauk, Chennai - 600 005.

The Accountant General, Chennai - 600 018.

The Pay and Accounts Officer (East/South/North),
Chennai - 600 008/600 035/600 001.

All District Collectors.

[P.T.O.]

Copy to:

- The Agriculture Production Commissioner and
Principal Secretary to Government, Agriculture Department, Chennai-600 009
- The Principal Secretary to Government,
Environment and Forest Department, Chennai-600 009.
- The Principal Secretary to Government,
Public Works Department, Chennai-600 009.
- The Principal Secretary to Government,
Co-operation, Food and Consumer Protection Department, Chennai-600 009.
- The Additional Chief Secretary to Government,
Rural Development and Panchayat Raj Department,
Chennai-600 009.
- The Principal Secretary to Government,
Municipal Administration and Water Supply Department,
Chennai-600 009.
- The Additional Chief Secretary to Government,
Home Department, Chennai - 600 009.
- The Additional Chief Secretary to Government,
Highways and Minor Ports Department, Chennai-600 009.
- The Additional Chief Secretary to Government,
Finance Department, Chennai - 600 009
- The Senior Private Secretary to Chief Secretary to Government,
Secretariat, Chennai - 600 009
- The Additional Chief Secretary / Managing Director,
Chennai Metro Water Supply and Sewerage Board,
Chennai-600 002.
- The Managing Director, Tamil Nadu Water Supply and Drainage Board, Chepauk,
Chennai - 600 005.
- The Hon'ble Chief Minister's Office, Chennai-600 009.
- The Hon'ble Deputy Chief Minister's Office, Chennai-600 009.
- The Special Personal Assistant to Hon'ble Minister for Revenue and
Disaster Management Department, Secretariat,
Chennai - 600 009.
- The Principal Private Secretary to Additional Chief Secretary to Government,
Revenue and Disaster Management Department, Chennai - 600 009.
- The Finance (Revenue/BG-I/BG-II) Department, Chennai -600 009.
- The Revenue and Disaster Management (O.P.II) Department, Chennai - 600 009.
SF/SC.

// Forwarded by Order //

Mahendran / Sri Shan
07.03.19
Section Officer.

07.03.19