



भारत सरकार
जल शक्ति मंत्रालय
जल संसाधन, नदी विकास
और गंगा संरक्षण विभाग
केन्द्रीय जल आयोग
जल विज्ञान मंडल



Government of India
Ministry of Jal Shakti,
Department of Water Resources,
River Development & Ganga Rejuvenation
Central Water Commission
Hydrology Division

नीरवलम / NEERVALAM

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HD/Tech/Flood Forecasting/2020/

Date: 12/11/2020

Advisory for Chembarambakkam Reservoir and Poondi Reservoir

Reservoir Position:

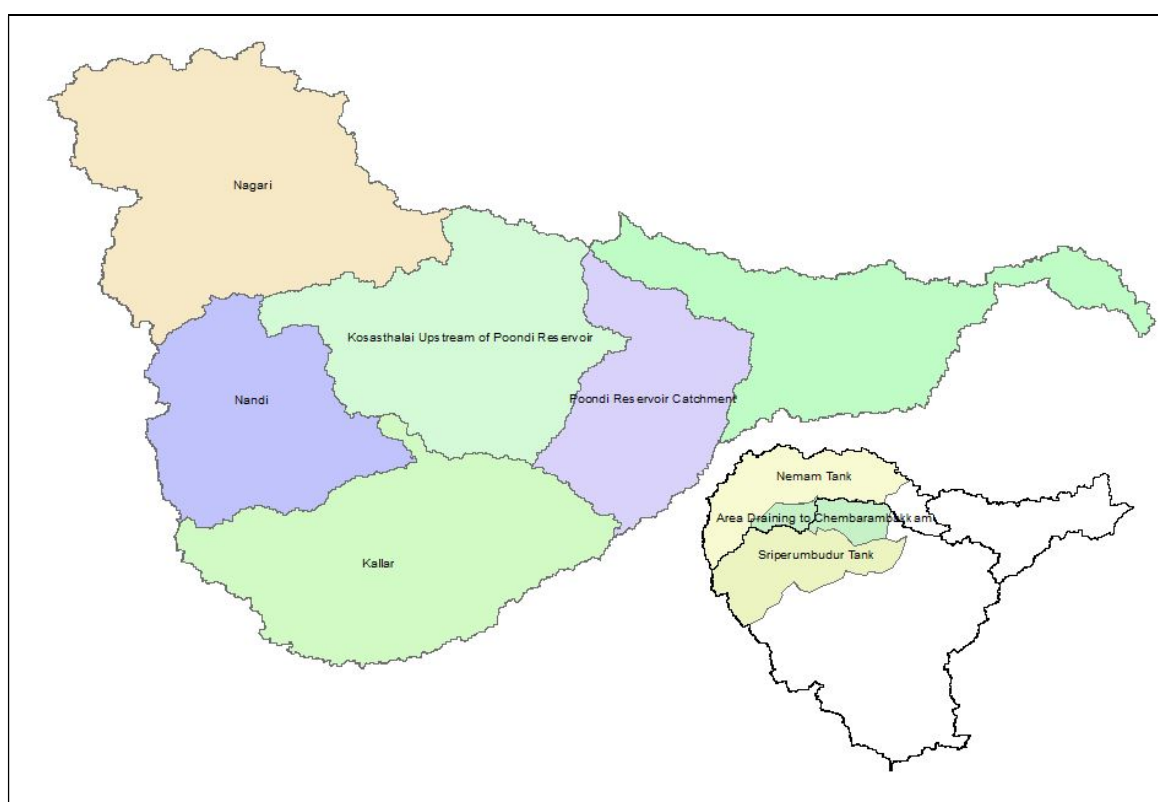
Reservoir Name	Present Level/ FRL	Storage Filled Percentage /(Full Storage in MCM)	Heavy Rainfall Advisory For Next 24 hrs (IMD)
Poondi Reservoir	40.666/42.672	43.3% (91.49)	Yes
Chembarambakkam Reservoir	24.724/24.8	69.6%(103.2)	Yes

Catchment Situation:

Based on High Resolution Sentinel-1 Microwave satellite imageries as on 16th October, 28th October and 9th November , (Available once in 12 days) the percentage water surface area in the small lakes in the catchment area of Adayar and Kosasthalai (Subcatchments given in figure) with reference to 2015 post floods is given in the table below.

S.NO	Name (Adayar Catchment)	Percentage filled (16 th October)	Percentage filled (28 th October)	Percentage filled (9 th November)	Remarks
1	Catchment (Nemam Tank)	14.27%	13.97%	12.83%	Will get saturated in 2-3 intense rainfall events
2	Area draining to Chembarambakkam Reservoir	31.83%	32.55%	32.66%	Will get saturated in 1-2 intense rainfall events
3	Sriperumbudur Tank	38%	50%	47%	Will generate good flow with intense rainfall

S.NO	Name (Kosasthalai Catchment)	Percentage filled (16 th October)	Percentage filled (28 th October)	Percentage filled (9 th November)	Remarks
1	Nagari (upto Bugga)	46.5%	62.87%	61.42%	Will generate good flow with intense rainfall
2	Nandi (upto Ayalambedu)	9.74%	25.35%	20.77%	Will get saturated in 1-2 intense rainfall events
3	Kallar (Upto Poiyapakkam)	4.22%	3.68%	3.42%	Still dry. Will get saturated in 4-5 intense rainfall events
4	Kosasthalai upstream of Poondi Reservoir	10.28%	14.66%	15.60%	Will get saturated in 2-3 intense rainfall events
5	Poondi Reservoir Catchment	50.83%	56.54%	52.65%	Reservoir is getting inflows from kandaleru and would spill significant flows once catchment in saturated after 2-3 intense events as upstream lakes would be filled upto to 50-75 %



Subcatchments of Adayar and Kosasthalai Basins (Colored Catchments - Water bodies filled up situation is given)

IMD Rainfall Forecast:

S. No.	BASIN NAME	SUBBASIN CODE/NAME	QPF (mm)		
			Day-1 (Valid till 0830 hrs IST of 13/11/2020)	Day-2 (Valid till 0830 hrs IST of 14/11/2020)	Day-3 (Valid till 0830 hrs IST of 15/11/2020)
1	East Flowing Rivers	Gummanur	0.1-10	0.1-10	0.1-10
		Upper South Pennar	11-25	11-25	0.1-10
		Korttalaiyar	51-75	11-25	11-25
		Vellar	11-25	11-25	11-25
		Lower South Pennar	11-25	11-25	11-25
	Pennar	Kunderu	0.1-10	0.1-10	0
		Sagileru	11-25	0.1-10	0
		Upper Pennar	0.1-10	0.1-10	0.1-10
		Lower Pennar	51-75	26-37	0.1-10
		Papagni	0.1-10	0.1-10	0.1-10
		Cheyveru	11-25	0.1-10	0.1-10

NAME OF BASIN/SUB- BASIN		Day-1 (Valid till 0830 hrs IST of 13/11/2020)		Day-2 (Valid till 0830 hrs IST of 14/11/2020)		Day-3 (Valid till 0830 hrs ST of 15/11/2020)	
		I	D	I	D	I	D
East Flowing Rivers	Gummanur	-	-	-	-	-	-
	Upper South Pennar	H	ISOL	H	ISOL	-	-
	Korttalaiyar	VH	ISOL	H	ISOL	-	-
	Vellar	H	ISOL	H	ISOL	-	-
	Lower South Pennar	H	ISOL	H	ISOL	-	-
Pennar	Kunderu	-	-	-	-	-	-
	Sagileru	-	-	-	-	-	-
	Upper Pennar	-	-	-	-	-	-
	Lower Pennar	VH	ISOL	H	ISOL	-	-
	Papagni	-	-	-	-	-	-
	Cheyveru	-	-	-	-	-	-

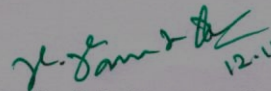
Spatial Distribution of Rainfall		
DRY	Dry	No Station reported rainfall
ISOL	One or two Places	25% or less number of stations recorded rainfall 2.5 mm
SCY	At a few Places	26%-50% number of stations recorded rainfall 2.5 mm
FW S	At many Places	51%-75% number of stations recorded rainfall 2.5 mm
WS	At most places	76%-100% number of stations recorded rainfall 2.5 mm

Intensity of Rainfall			
MDry	NIL	0 cm	VL Very Light Rainfall
L	Light Rainfall	Upto 1 cm	M Moderate rainfall
H	Heavy rainfall	07-11 cm	VH Very Heavy rainfall
EH	Extremely Heavy rainfall	21 cm or More	
EsH	Exceptionally Heavy Rainfall	When the amount is a value near about the highest recorded rainfall at or near the station for the month or season. However, this term will be used only when the actual rainfall amount exceeds 12 cm	

Advisory:

As many subcatchments of Kosasthalai and Adayar are wet and the water bodies are nearly 40% filled by good rainfall spells on 16th, 23rd and 28th October, after a long dry spell from 29th October to 12th November IMD has given heavy rainfall prediction from 13th November upto 18th November. The catchment area of Adayar is saturated to good extent and in Kosasthalai basin 40% of the area saturated to good extent. It is advised that:

1. Vigil has to be kept in reservoirs during high intensity rainfall as the catchments are nearly saturated and will generate good inflow which will fill up the small lakes in 2-3 intense rainfall events and further intense rainfall will lead to filling Poondi and Chembambakkam reservoir leading to spill and flood type situation in rivers downstream.
2. Intense rainfall warnings has to be seriously monitored and necessary alert needs to be given to downstream area / and authorities for possible release as part of preparedness activity as the dams fill up to 85 to 90%

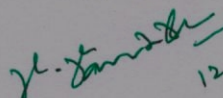

अधिशायसी अभियंता/Executive Engineer

To:

1. The Principal Secretary,/Commissioner, Revenue Administration, Disaster Management and Mitigation Department, Ezilagam, Chepauk, Chennai 600005 (Fax: 044-285902921, Email: com-ra@tn.nic.in, jclr@tn.nic.in)
2. The Engineer-In -Chief, WRO and Chief Engineer (General) PWD, Chepauk, Chennai – 600005 (Email: eicwrtdn@gmail.com, eicwrotn@yahoo.co.in)
3. The Executive Engineer, PWD, WRO, Kosasthalaiyar Basin Division, Thiruvallur (Email: eeksbndnwro@yahoo.co.in)
4. The District Collector, Kancheepuram. (Email: collrkpm@nic.in, Phone: 044-27237433, Fax: 044-27237789)
5. The District Collector, Thiruvallur. (Email: collrtl@nic.in, Phone-044-27661600, 044-27662233, Fax-044-27661200)
6. The Director (FFM), Wing 7, West Block-2, R K Puram, New Delhi 66. (Email: fmtdte@nic.in)
7. The Director, FMO, Regional Meteorological Centre, IMD, 50/6, College Road, Chennai – 600 006, (Fax: 044-28271581, Email : acwctp@gmail.com)
8. The Commandant, NDRF, Po-Suraksha Campus, Arrakonam District, Vellore, Tamil Nadu, Pin – 631152, (Ph: 04177-246594, Mobile 09442140269, Email: tn04-ndrf@nic.in)

Copy for favour of kind information to:

9. The Chief Engineer, CSRO, CWC, Coimbatore for information please.
10. The Superintending Engineer, CSRC, CWC, Bangalore for information please.
11. The Sub-Divisional Engineer, PPSD, Chennai for necessary action.


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