No.12/09/2018-CWRCS/

Cauvery Water Regulatory Committee Secretariat

Office: O/o Chief Engineer, Yamuna Basin Organisation, CWC, KalindiBhawan, B-5, Tara Crescent Road, Qutub Institutional Area, N. Delhi 110016.

Dated:6th July, 2018

Subject: Minutes of First Meeting of Cauvery Water Regulatory Committee(CWRC) heldon 5thJuly, 2018, at New Delhi.

Please find enclosed herewith the Minutes of the First Meeting of Cauvery Water Regulatory Committee, held on 5th July, 2018, at Central Water Commission, New Delhi.

Enclosure: as above (24 pages)

J 2/18 11/ 2

(A.S.Goel)

Member Secretary, CWRC Tele-fax: 011-26526865 Email: ceybo-cwc@nic.in

To:

- 1. Sh. Navin Kumar, Chief Engineer, IMO, CWC/ Chairman, CWRC, [ceimo-cwc@nic.in]
- 2. Sri H L Prasanna, MD, Cauvery Niravari Nigam Ltd,Govt of Karnataka,[cnnlmd@yahoo.com]
- 3. Sri K.A. Joshy, Chief Engineer, ISW Govt. of Kerala, [cea.irrgn@kerala.gov.in]
- 4. Sri V. Shanmugasundaram, Chief Engineer, PWD, Govt. of Puducherry, [cepwd.pon@gov.in]
- 5. Sri. R. Senthil Kumar, Chief Engineer, WRD, Govt. of TN, [cetrydb@hotmail.com]
- 6. Dr. M. Mohapatra, Scientist G (Services), IMD, [mohapatraimd@gmail.com]
- 7. Sri N.M. Krishnanunni, Chief Engg., C&SRO, Coimbatore , CWC, [cecsro-cwc@nic.in]
- 8. Dr. B.N.Srinivas Murthy, Commissioner (Horticulture), MoA&FW, [bns.murthy@gov.in]

MINUTES OF FIRST MEETING OF CAUVERY WATER REGULATION COMMITTEE HELD ON 05.07.2018.

The first meeting of Cauvery Water Regulation Committee (CWRC), was held under the chairmanship of Sh. Navin Kumar, Chief Engineer (IMO), CWC and Chairman, CWRC on 5th July, 2018, at 1130 Hrs at Sewa Bhawan, Central Water Commission, New Delhi. List of participating members is enclosed as **Annex-I.**

In his opening remarks, the Chairman of the Committee welcomed the participants and briefed the members on the key decisions taken in the 1st meeting of Cauvery Water Management Authority (CWMA) held on 2nd July, 2018. He expressed hope that with cooperation of all members, the Committee would be able to achieve its mandate and fulfill the expectations from the Committee.

The representative of Government of Tamil Nadu read out his written submissions in the opening remarks, which are enclosed at **Annex II**. He stressed that as per the agricultural pattern in Cauvery Delta, water should have been released by 12th June for Kuruvai crops. However, due to insufficient storage in the Mettur reservoir, irrigation has not been possible so far. He desired that the CWRC may monitor release at Billigundulu, broken in 3 spells of 10 days interval.

The representative of Government of Karnataka also expressed hope that the Regulation Committee would come up to the expectations. He submitted the written submissions of the Govt. of Karnataka on the agenda items, which are placed at **Annex III.** Govt. of Kerala representative hoped similarly as representative of Karnataka and desired that the Committee should get the adequacy of gauging presently being done in Cauvery basin examined and suggest corrective actions, if any. The representative of Government of Puducherry also informed that due to delay in releases from Mettur Dam, its farmers were suffering. He requested the Committee to consider early releases from Mettur Dam, so that the farmers of Puducherry could take up irrigation of their crops.

Thereafter, the Chairman requested the Member Secretary to take up the agenda items.

Agenda 1.1. (1.1.1-1.1.3) Hydro- meteorological situation in Cauvery basin

The hydro-meteorological situation in Cauvery Basin for June 2018 was discussed. On the basis of information furnished by Member States, a consolidated

table indicating the Storage, Inflow, Outflow and Withdrawal of 8 reservoirs in Cauvery Basin for the month of June, 2018 is at **Annex-IV**. The Member States expressed the need for evolving proforma for sharing of the information related to inflow, outflow, withdrawal, storage, demand and rainfall. The Member from IMD, Dr. N. Mohapatra, made a brief presentation before the Committee, on the activities of IMD in Cauvery basin and the details of rainfall received during the month of June, 2018 in the sub-basins of Cauvery. A copy of presentation is placed at **Annex-V**.

It was noted by all the members of the Committee that the rainfall in the catchment area of Cauvery basin of Karnataka and Kerala during the month of June, 2018 was more than normal and there were no indications of distress in any part of the basin till the date of meeting.

During discussions after the presentation, the issue of access of authentic rainfall data for different sub-basins in the Cauvery basin, came up. It was decided that the Member from IMD would provide rainfall data on 10 daily basis to all Members, for each of the sub-basins (with area figures indicated for each sub basin) in the Cauvery Basin as mentioned below.

- 1. Kabini Catchment
- 2. KRS catchment
- 3. Billingundulu except KRS and Kabini
- 4. Billingudulu catchment
- 5. Cauvery except Billingudulu
- 6. Cauvery

(Action: IMD)

Agenda 1.2 Arrangements for collection and compilation of data regarding actual yield in the basin

In order to assess yield at any point in the basin, need for data abstractions for the current year as well as for previous years by the State of Karnataka, Kerala, Tamil Nadu and UT of Puducherry, was stressed upon by the Committee. In this regard, the requirement of the following kind of data was placed before the Committee:

- i. Withdrawal for abstractions from all the major reservoirs.
- ii. Minor Irrigation and Anicut.

- iii. Abstractions (withdrawals + change in storage + evaporation) from reservoirs in Cauvery basin other than major reservoirs.
- iv. Any other abstractions including withdrawals from Lift Irrigation Schemes and other domestic/industrial schemes.

After discussion, it was decided that Members would give views/comments on the above by 16th July, 2018 to Member Secretary.

(Action: All Members)

Agenda 1.3 Procedure for compilation and reconciliation of monthly water account for each reservoir

After deliberations on the agenda item it was decided that after the finalisation of the formats for supply of data, the data would be submitted by the Member States in the prescribed format and the data so submitted would be compiled on regular basis. Monthly data so compiled would be reconciled in the subsequent month(s). The procedure for reconciliation would be further discussed after submission of the data for the first time by the Member States in the prescribed formats.

Under the above agenda item, the issue of assessment of the evaporation loss from the designated 8 reservoirs in the Cauvery Basin was also discussed and it was decided that the Members from the three Party States (TN, Karnataka & Kerala) would provide the status report on the equipments available and the procedures presently adopted by them to all the members of the Committee in 10 days' time. The Member from the IMD would convey recommendations of IMD on the procedure to be adopted, within two weeks, which would subsequently be discussed by the Committee for evolving a common procedure to be adopted by the Party States.

(Action: TN, Karnataka, Kerala, IMD)

Agenda 1.4 Any other item with the permission of the Chair

(a) The issue of adequate technical information pertaining to the Cauvery basin, such as inflow, outflow, withdrawal, storage, crop area and domestic and industrial requirement from above reservoirs and rainfall in the catchment of above reservoirs was discussed. It was felt that standard formats be devised by the Committee, with the terminology used therein appropriately defined. In this regard, 4 formats pertaining to details of water requirement for all purposes in the Cauvery basin, water requirement for different crops in the

Command (for each cropping season), irrigation demand, domestic/industrial demand and proforma for maintaining data of storage, inflow, outflow and withdrawal of the reservoirs in Cauvery Basin, were circulated, which are placed at **Annex VI to IX** respectively. After deliberation, it was decided that the Members would give their inputs on the circulated formats by 16th July, 2018 to the Member Secretary.

(Action: All Members)

(b) State Government representatives of Karnataka and Tamil Nadu stated that the data of Billigundulu was being received late in case of continuous holidays. The issue was discussed and Chief Engineer, C&SRO & Member, CWRC agreed to provide the data without check at higher levels for immediate information, which would be checked and confirmed later. CWRC agreed to the proposal.

(Action: Chief Engineer, C&SRO, CWC)

The next date of meeting was fixed tentatively as 19th July, 2018 at New Delhi.

The meeting ended with a vote of thanks to the Chair.

Annex - I

1ST MEETING OF

THE CAUVERY WATER REGULATION COMMITTEE HELD ON 5.7.2018

LIST OF PARTICIPANTS

1.	Shri Navin Kumar, Chief Engineer, IMO,CWC & Chairman, CWRC
2.	Shri H.L.Prasanna, MD, Cauvery Neeravari Nigam Ltd., Govt of Karnataka
3.	Shri K.A. Joshy, Chief Engineer, ISW, Govt. of Kerala
4.	Shri V. Shanmugasundaram, Chief Engineer, PWD, Govt. of Puducherry
5.	Shri. R. Senthil Kumar, Chief Engineer, WRD, Govt. of Tamil Nadu
6.	Dr. M.Mohapatra, Scientist G (Services), IMD, New Delhi.
7.	Shri N.M. Krishnanunni, Chief Engineer., C&SRO, CWC, Coimbatore
8.	Dr. B.N.Shrinivas Murthy, Commissioner (Horticulture), Ministry of Agriculture Cooperation and Farmers Welfare, New Delhi.
9.	Shri A.S.Goel, Chief Engineer, CWC, & Member Secretary, CWRC.

Ist Meeting of Cauvery Water Regulation Committee (CWRC) on 5th July 2018 at New Delhi.

Respected Chairman, Respected Member Secretary, Members of Cauvery Water Regulation Committee, officers of Government of India and from the States of Karnataka, Kerala and Puducherry.

The Committee meeting has given a good opportunity for having a better interaction and exchange of data with all the Central and party States' officials. The Government of Tamil Nadu and farmers of Cauvery Delta hope and expect that the due share of water to Tamil Nadu will be made available to them in time by the Authority and the Committee and the farmers fervently hope that their problems would be alleviated.

During the previous year 2017-2018, we were unable to have sufficient carry over storage in Mettur reservoir, due to insufficient realisation at Billigundulu. Hence, we were unable to commence irrigation activities in Cauvery Delta area in this year 2018-19, in time.

As per the agricultural pattern in Cauvery Delta, water should have been released by 12th June with assured storage position at Mettur for Kuruvai Crops. Because of insufficient storage at Mettur, we were unable to open the Reservoir on the scheduled date. Water is being released only for drinking and other environmental needs for the downstream districts of Mettur Dam.

As on 4th July, 2018, the gross storage in Mettur reservoir is only 26.24 TMC and only 1000 cusecs is being released. This year, sufficient rainfall has been received till now in this South-West Monsoon season in the catchment areas in Karnataka and Kerala and I hope that the monsoon in this year will be normal.

We are aware that the Cauvery Water Management Authority passed orders to release 31.24 TMC of water at Billigundulu for the month of July 2018, in its First meeting held on 2nd July, 2018, as per Supreme Court Judgement. I request the Chairman of this Committee to monitor the realisation of July flows due to Tamil Nadu at Billigundulu, broken in 3 spells of 10.41 TMC ft. spread over ten days intervals. I hope that the indicated quantities in the judgement for the subsequent months would also be ensured so as to supply water to the farmers of Tamil Nadu in the irrigation season 2018-19. By receiving the quantity of water due in July, 2018, we can ensure the opening of Mettur Dam at a suitable date to commence the cultivation.

I also request the Chairman of the Cauvery Water Regulation Committee to organise the next meeting of this Committee at Bengaluru, by 16th of July, 2018.

I thank the Chairman, Member Secretary and all other members for giving me this opportunity to express my views on behalf of Government of Tamil Nadu.

Written Submissions of Govt. of Karnataka on Agenda Items

CAUVERY NEERAVARI NIGAMA LIMITED

Surface Water Data Centre Building, 3rd & 4th Floor, Anandarao Circle, Bengaluru-560 009. Date: 04.07.2018.

To:

The Chairman, Cauvery Water Regulation Committee, New Delhi.

Sir,

Sub: First meeting of Cauvery Water Regulation Committee (CWRC) on 05.07.2018 – submissions of Karnataka to the agenda – Reg.

The submissions of Karnataka to the agenda and additional agenda items of the First meeting of Cauvery Water Regulation Committee (CWRC) on 05.07.2018 are attached herewith. I request you to take them on record.

Yours faithfully,

(H.L. PRASANNA)

Member of the Committee,

Karnataka and

Managing Director,

CNNL, Bengaluru.

First Meeting of Cauvery Water Regulation Committee (CWRC) 5th July, 2018

Agenda

	Agenda Item	Submissions of Karnataka
1.1 basin	Hydro-meteorological situation in Cauvery	1.1 Hydro-meteorological situation in Cauvery The Cauvery river basin is influenced by south-west monsoon. It is an analysis
		deknowiedged hydro-meteorological situation that the basin in Karnataka is significantly influenced by
		south-west monsoon; whereas the basin in the State of Tamil Nadu is influenced both by south-
		west monsoon and north-east monsoons. While deciding the scheduled flows at Biliqundlu, this
		situation must be considered and factored into while determining the flows to be realized at
		Biligundlu.
		During the years of distress, apart from consideration of flows as distinctly from what is
		available in south-west monsoon to Karnataka and the flows available to Tamil Nadu in north-east
		monsoon and south-west monsoon, the ground realities must also be factored in.

Krishnarajasagara (Karnataka); Lower Bhavani, June, 2018 Amaravathy and Mettur (Tamil Nadu), as on 1st Harangi : 6.533 tmc Kabini : 6.533 tmc Krishnarajasagara : 8.674 tmc Krishnarajasagara : 8.674 tmc Total 20.795 tmc Total 2	1.1.1 Total residual storage in Banasurasagar (Kerala): Hemavathy Harangi Kabini and	storage in Banasurasagar Total Residual Storage (gross storage) as of Haranoi Kabini and 01 06 2018 (fmc)
Inflow, outflow, withdrawal, storage, as and domestic and industrial ement from above reservoirs during June, tchment of above reservoirs during June, basin in the month of June, 2018.	Krishnarajasagara (Karnataka); Lower Bhavani,	
Krishnarajasagara: 8.674 tmc Total 20.795 tmc	June, 2018	**
Krishnarajasagara: 8.674 tmc Total 20.795 tmc I.1.2 Inflow, outflow, withdrawal, storage, cropped area and domestic and industrial However, it is the considered opinion that the requirement from above reservoirs and rainfall in Rainfall data in the catchment of above reservoirs during June, consequential, since, the allocations to the party States have been made by CWDT on the basis of the gross yield of 740 tmc at 50% dependability at Lower Coleroon Anicut. I.1.3 Bringing out indications of distress, if any, with reference to average flows into four reservoirs in the basin in the month of June, 2018. In the basin in the considered as normal.	0	12
Total 20.795 tmc 1.1.2 Inflow, outflow, withdrawal, storage, vide Statement-1 (enclosed) cropped area and domestic and industrial requirement from above reservoirs and rainfall in the catchment of above reservoirs during June, 2018. 1.1.3 Bringing out indications of distress, if any, in the basin in the month of June, 2018. Total 20.795 tmc However, it is the considered opinion that the Rainfall data in the catchment is not relevant and consequential, since, the allocations to the party States have been made by CWDT on the basis of the gross yield of 740 tmc at 50% dependability at Lower Coleroon Anicut. 1.1.3 Bringing out indications of distress, if any, in the basin in the basin in the considered as normal.		
1.1.2 Inflow, outflow, withdrawal, storage, cropped area and domestic and industrial requirement from above reservoirs and rainfall in the catchment of above reservoirs during June, 2018. 1.1.3 Bringing out indications of distress, if any, in the basin in the month of June, 2018. Total 20.795 tmc However, it is the considered opinion that the Rainfall data in the catchment is not relevant and consequential, since, the allocations to the party States have been made by CWDT on the basis of the gross yield of 740 tmc at 50% dependability at Lower Coleroon Anicut. 1.1.3 Bringing out indications of distress, if any, in the month of June 2018 might be considered as normal.		
1.1.2 Inflow, outflow, withdrawal, storage, cropped area and domestic and industrial requirement from above reservoirs and rainfall in the catchment of above reservoirs during June, 2018. 1.1.3 Bringing out indications of distress, if any, in the basin in the month of June, 2018. 1.1.3 Inflow, outflow, withdrawal, storage, Vide Statement-1 (enclosed) However, it is the considered opinion that the Rainfall data in the catchment is not relevant and consequential, since, the allocations to the party States have been made by CWDT on the basis of the gross yield of 740 tmc at 50% dependability at Lower Coleroon Anicut. 1.1.3 Bringing out indications of distress, if any, in the month of June 2018 might be considered as normal.		
cropped area and domestic and industrial requirement from above reservoirs during June, 2018. 1.1.3 Bringing out indications of distress, if any, in the basin in the area and domestic and industrial requirement from above reservoirs during June, 2018. 1.1.3 Bringing out indications of distress, if any, in the basin in the basin in the area and domestic and industrial in the basin in the considered as normal.		
1.1.3 Bringing out indications of distress, if any, With reference to average flows into four reservoirs in the basin in the month of June, 2018. In the month of June 2018 might be considered as normal.	1.1.2 Inflow, outflow, withdrawal, storage, cropped area and domestic and industrial requirement from above reservoirs and rainfall in the catchment of above reservoirs during June, 2018.	Vide Statement-1 (enclosed) However, it is the considered opinion that the Rainfall data in the catchment is not relevant and consequential, since, the allocations to the party States have been made by CWDT on the basis of the gross yield of 740 tmc at 50% dependability at Lower Coleroon Anicut.
	1.1.3 Bringing out indications of distress, if any, in the basin in the month of June, 2018.	With reference to average flows into four reservoirs for the period from 1974-75 to 2016-17, the flow in the month of June 2018 might be considered as normal.

	depletion and flow at Biligundlu and Lower Coleroon Anicut may be obtained from the party States. An agreed format may have to be designed by the CWRC.
1.3 Procedure for compilation and reconciliation of monthly water account for each reservoir.	An agreed Common Format for Water Balance at the reservoir may have to be designed -
1.4 Any other item with the permission of the Chair.	•

Member of the Committee, Karnataka and Managing Director, CNNL, Bengaluru.

Additional Agenda items proposed for the first meeting of Cauvery Water Regulation Committee (CWRC) scheduled for 5th July, 2018

Agenda Item	Submissions of Karnataka
1.4.1 Type, frequency, and format for data requirement from State Governments and CWC, to be finalized.	1.4.1 Type, frequency, and format for data are frequency of supply of data should be on a requirement from State Governments and CWC, to monthly basis covering the 10-daily period of that month.
	In the first meeting of CWMA on 02.07.2018, the Member, Karnataka has submitted as follows:
	"The Cauvery Monitoring Committee constituted vide Notification dated 11.8.1998 had decided the formats in the 22 nd meeting of the Monitoring Committee held on 23.6.2005 on 10 daily data. The State of Karnataka requests the CWMA to adopt the same for future also. The data for the period from 1st June to 30th June, 2018 is enclosed herewith".
1.4.2 Format and frequency for Indents to be provided by Member States to CWMA, in the context of Para 10.3 (i).	1.4.2 Format and frequency for Indents to be provided by Member States to CWMA, in the state Governments is an extremely complex process which neither this Committee nor the Authority can handle. Moreover, such a data is not necessary as long as the requisite quantity of water flows at the inter-State border Billiaundlu is

realised. In any case, the question of supplying Indent may become necessary, if at the end of September in the distress year, the State of Karnataka is in default. Absent such default, requiring the State of Karnataka to submit Indent is wholly unnecessary and unreasonable. Similarly, the State of Tamil Nadu should be mandated to supply Indent for its irrigation systems in the distress year.	1.4.3 Procedure for Assessment and Regulation of water realized at Biligundlu, in view of directions of CWMA for release to be made by Karnataka during the month of July, 2018. The water realized at Biligundlu is measured by the Central Water Commission. The said data is taken as the basis for assessing whether the State of Karnataka has ensured the requisite quantity of water or not.
	1.4.3 Procedure for Assessment and Regulation of water realized at Biligundlu, in view of directions of CWMA for release to be made by Karnataka during the month of July, 2018.

Member of the Committee, Karnataka and Managing Director, CNNL, Bengaluru.

STATEMENT-1

RESERVOIR AND CROP AREA INFORMATION - JUNE 2018

						Withdrawal (tmc)	(0)			Storage	Sec.	
SI. No.	Dam/Project	Inflow	Outflow	Irrigation	Dom	Domestic	Industries	tries	Crop Area (acres)	Beginning of the month	End of the month	Rainfall
					Withdrawals	Consumptive	Withdrawals	Consumptive				
-	Hemavathy	20.261	0.518	0.423	0.490	0.098	0.024		5850	5.037	24,195	IMD
ci	Harangi	4,777	0.078	0.004			,			0.551	5,254	IMD
62	Kabini	27.768	15.674	0,004	1.650	0.33	a	e		6.533	18 321	IMD
t	Krishnarajasagara	23.837	0.819	2.137					39800	8.674	29.236	IMD
	TOTAL	76.047	16,493	2.568	2.140	0.428	0.024	0	45650			
					•							

NOTE: 1) The outflows from Hemayathy and Harangi are deducted from Inflow into Krishnarajasagara.

2) The outflows from Hemavathy and Harangi are not considered since, the outflows is accounted for in the inflows into Krishnarajasagara.

Annex- IV

Storage, Inflow, Outflow and Withdrawl of 8 reservoirs in Cauvery Basin for the month of June, 2018 (all figures in TMC)

					W	/ithdrawal		Live S	torage
SI No	Reservoir	Inflow	Outflow	Irrigation	Domestic	Industries	Total	beginning of month	end of month
1	Banasurasagar	*	*	*	*	*		0.171	*
2	Hemavathy	20.261	0.518	0.423	0.588	0.024	1.035	5.037	24.195
3	Harangi	4.777	0.078	0.004	-	-	0.004	0.551	5.254
4	Kabini	27.768	15.674	0.004	1.980	-		6.533	18.321
5	KrishnarajSagara			2.137	1.900	-	4.121	8.674	29.236
6	Lower Bhavani	9.529	0.527	0.013	-	-	0.013	5.320	14.011
7	Amaravathy	1.577	1.459	0.552	-	-	0.552	0.876	1.192
8	Mettur				-			10.930	22.581
		13.447	1.296	1.296		-	1.296		

^{*} The Information is awaited from Govt. of Kerala.

Note:

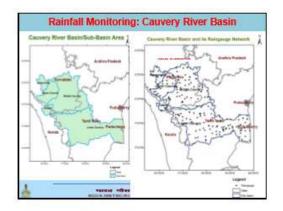
- 1. The outflow from Hemavathy and Harangi are deducted from Inflow into Krishnarajasagara.
- 2. The outflows from Hemavathy and Harangi are not considered since, the outflows is accounted for in the inflows into krishnarajasagara.

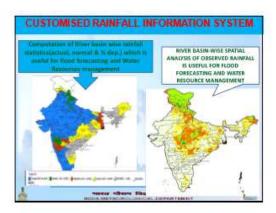
Annex-V

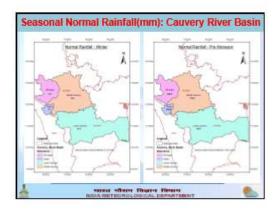
Presentation by IMD on rainfall monitoring in Cauvery Basin



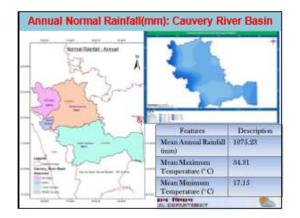




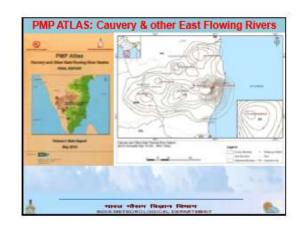




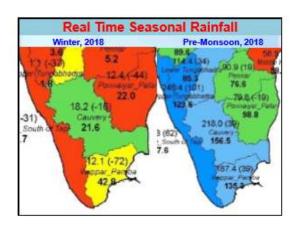


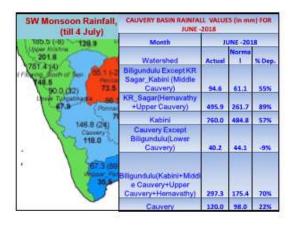


S. N	Cauvery sub-basins	Area (sq km)								
			June	July	Ang	Лерк	Oe	Nov	Der	Total
1	Herengi	421	37774	387.7	400.0	1987	165,7	48.0	14.5	1705
2	Hemavathi	2997	314.1	REAR	216.0	156.5	81.5	50,9	11.1	1141
-11	Kalimi	3177	547/R	.029.0	345.0	217.1	1469	65.2	33.1	1163
4	Madde Carrery	250019	68.5	75.4	72.6	112.1	983	643	13.6	A00.0
*	UpperCarriery	7040	307.7	380,6	240.6	154.1	85.5	17.8	14.6	7
4	Love Carrey	42012	46.7	32.5	79.6	78.1	130.5	80.6	67.1	389
*	Upper Vagai	2273)	44.6	28.5	38.3	14.7	127.4	94.8	423	481.1
	Lower Valgat	4122	28.8	41.9	721	90.5	163.4	65.8	48,5	312)
9	Perine	634	273.3	181.0	147.4	17,3	100.7	119.7	44.9	978.3
	Canvery basin Total		1979.3	2142.6	1605.2	1186.	1037.5	629.9	282.0	

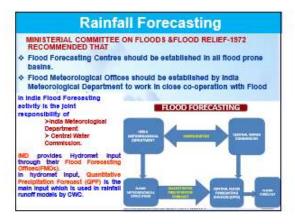


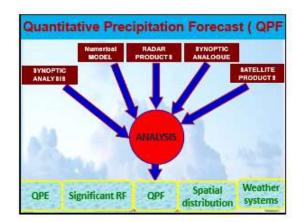






	Harang	Hersa vathy	Kabini	Middle Cauvery		Lower Cauvery				For Caur	
an.	0.0	0.0	0.0	0.1	0.0	15.9	0.0	2.0	0.0	14.0	16.8
Feb	0.0	2.2	7.5	4.5	5.5	9.1	7.2	12.5	54.2	28.6	102.5
Mar	79.6	40.5	80.5	52.7	65.1	14.4	56,2	28.0	50.2	302.6	±18.0
Apr	95.4	57.5	105.7	58.0	59.5	18.7	94.1	48.5	152.8	374.6	670,1
Мау	587.6	295.0	545.1	199.5	250.9	10±.0	197.6	152.0	545.8	1588.	2285
lues .	861.4	511.7	708.6	79.5	58±.0	55.0	52.1	19.7	55±.±	2777. 7	5485 9





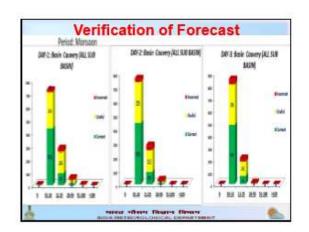
	1	DAY-1	DAY-2	DAY-3	DAY-1	DAY-2	DAY-3
1.	HARANGI	0.1-10	11-25	11-25	L/M FWS	L/M FWS	L/M FWS
2.	HEMAVATHY	0.1-10	0.1-10	11-25	L/M SCT	L/M SCT	L/M FWS
3.	KABINI	0.1-10	0.1-10	11-25	L/M SCT	L/M FWS	L/M FWS
4.	MIDDLE CAUVERY	0.1-10	0.1-10	0.1-10	L/M ISL	L/M ISL	L/M ISL
5.	UPPER CAUVERY	0.1-10	11-25	11-25	L/M SCT	L/M FWS	M/H FWS
6.	LOWER CAUVERY	0.1-10	0.1-10	0.1-10	L/M SCT	L/M SCT	L/M ISL
7.	UPPER VAIGAL	0.1-10	0.1-10	0.1-10	L/M SCT	L/M SCT	L ISL
	LOWER VAIGAL	0.1-10	0.1-10	0.1-10	L/M SCT	L/M SCT	L ISL
9.	PERIYAR	0.1-10	0.1-10	0.1-10	L SCT	L SCT	L SCT

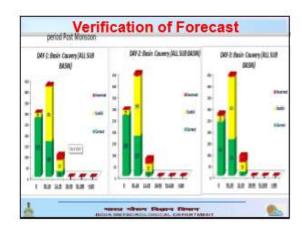
NAME OF BASIN/SUB- BASIN	Day-1	Day-2	Day-3
CAUVERY			11
HARANGI	NIL.	NIL:	NIL
HEMAVATHY	NIL	NIL	Heavy at ISOI places
KABINI	NIL	NIL	NIL
MIDDLE CAUVERY	NIL	NIL	NiL:
UPPER CAUVERY	NIL	WIL	Heavy at ISOI places
LOWER CAUVERY	NIL	NIL	NIL
UPPER VAIGAI	NIL	NIL	NIL
LOWER VAIGAI	NIL	NIL	NIL
PERIYAR	NIL	NIL	MIL

Outlook For Sub	sequent Four	Days Issued	d On 03 J	uly 2018
	Day-4	Day-5	Day-6	Day-7
HARANGI	Increase in	No Large	No Large	No Large
	Rainfall	Change	Change	Change
HEMAVATHY	Increase in	No Large	No Large	No Large
	Hainfull	Change	Change	Change
KABINI	No Large	No Large	No Large	No Large
	Change	Change	Change	Change
MIDDLE CAUVERY	No Large	No Large	No Large	No Large
	Change	Change	Change	Change
OPPER CAUVERY	Increase in	No Large	No Large	No Large
	Rainfall	Change	Change	Change
LOWER CAUVERY	No Large .	No Large	No Large	No Large
	Change	Change	Change	Change
UPPER VAIGAL	No Large	No Large	No Large	No Large
	Change	Change	Change	Change
LOWER VAIGAL	No Large	No Large	No Large	No Large
	Change	Change	Change	Change
PERIYAR	No Large	No Large	No Large	No Large

SUII-BAISN CODE/NAME	REALISED 24 hr AVERAGE RAINFALL (mm) Recorded on 03 July 2018(0830 IST)
HARANGI	10.0
HEMAVATHY	1.5
KABINI	1.9
MIDDLE CAUVERY	3.4
UPPER CAUVERY	5.7
LOWER CAUVERY	13.2
UPPER VAIGAI	2.8
LOWER VAIGAL	8.7
PERIYAR	8.6
PERIYAR	8.5

SI. No.	Name of the Addressee	E-mail address
1,	Directorate, Flood forecasting Monitoring, CWC, New Delhi	ffmcwc@gmail.com, fmdte@nic.in
2.	Hydrology division, CWC, Chennai	eecwcchennai@yahoo.co.in
3.	Chief Engineer, CWC, Coimbatore	srdcwc@rediffmail.com
4.	Southern Division, CWC, Colmbatore	cecsro-cwc@nic.in
5.	Planning & Development Directorate, CWC, New Delhi	priddte-cwc@nic.in
6.	Lower Krishna Division, CWC, Hyderabad	eelkd2010@yahoo.in
7.	DGM, Hydrology, New Delhi, RMC Chennal and related MC.	dgmfmu@rediffmail.com
8.	O/o of EE, Jalasouda, HMT post, Bangalore	







23=21-22 Net Inflow (TMC) Import from other basin (TMC) 22 21=20-(11+15) Gross Inflow (TMC) storage (TMC) Change 20=17-6 Ξ Gross Live Active water (TMC) (TMC) [TWC] level Final 19 18 Final Storage Evapo including Gross Live (TMC) 17 16 15=12+13 +14 abstracti lossess (TMC) Total on o Month Proforma for maintaining data of inflow and outflow of the reservoirs in the Cauvery Basin Year 14 Others (TMC) 13 releases (TMC) Canal 12 11=8+9+10 Total (TMC) Power River house sluice (TMC) (TMC) Releases 10 6 Spill (TMC) 00 water Gross Live Active level (TMC) (TMC) / Intial Storage Elevation-Capacity curve of each reservoir Elevation-Area curve of each reservoir Name of reservoir 9 2 Initial 4 8:00:00 8:00:00 Time : m : 01.06.2018 02.06.2018 Date i 7 S.No. 3 2 H 2 m : 1

Annex VII

					Prof	orma for	Proforma for Water Requirement	ment					
							Sheet 1						
Name of State:	tate:											Year:	
					Crc	Crop-wise Details	tails						
			Crop 1			Crop 2	2		Crop 3 & so on	so on		Total water	
SI. No.	Name of Project/Scheme		Delta (feet)	Area (acre) Delta (feet) Requirement (TMC)	Area (acre)	Delta (feet)	Water Requirement (TMC)	Area (acre)	Delta (feet)	Water Requirement (TMC)	Evaporation Losses (TMC)	requirement (TMC) i.e. sum of col. 5, 8, 11 & so on	Remarks
1	2	3	4	5	9	7	8	6	10	11	12	13	14
. Major P	A. Major Projects/Schemes												
1													
2													
. Mediun	B. Medium Projects/Schemes												
1													Break-up of
2													Total water
													requirement on
													10-daily basis is
													as per Sheet 2 &
. Minor P	C. Minor Projects/Schemes												3,
1													
2													
. Domest	D. Domestic Demand	-	-	-		-	-			,			
. Industri	E. Industrial Demand	•	'	,			,	•	•	,			
Grand To	Grand Total of Water Requirement in TMC (A+B+C+D+E)												

Annex VIII

							Sh	eet 2 - Irrig	Sheet 2 - Irrigation Demand	and								
Vame of	Name of Project/Scheme: Scheme 1	cheme 1										•						
SI. No.	Crop-wise Details June - I	June - I	June - II June	June - III	- III July - I	July - II	July - III	Aug - I	Aug- II	Aug- III	Sept - 1	Aug-III Sept-I Sept-II Sept-III Oct-I Oct-II Oct-III	Sept - III	0ct -1	Oct -II		& so on	Total
1	2	3	4	5	9	7	8	6	10	11	12	13	14	15	16	17	18	19
1	Crop 1																	Sum = col. 5 of Sheet 1
,	Cron 3																	Sum = col. 8
,	2 4010																	of Sheet 1
3	Crop 3 & so on																	Sum = col. 11
4																		11000
5																		
	Sub - Total 1(TMC)																	
lame of	Name of Project/Scheme: Scheme 2	cheme 2																
SI. No.	Crop-wise Details June - I	June - I	June - II	June - III	July - I	July - II	July - III	Aug - I	Aug- II	Aug- III	Sept - I	Sept - II	Sept - III	0ct -1	Oct -II	Oct -III	& so on	Total
1	2	3	4	5	9	7	8	6	10	11	12	13	14	15	16	17	18	19
1	Crop 1																	Sum = col. 5 of Sheet 1
2																		Sum = col. 8
	Crop 2													1	1			of Sheet 1
8	Crop 3 & so on																	Sum = col. 11 of Sheet 1
4																		
5																		
	Sub - Total 2(TMC)																	
ame of	Name of Project/Scheme: Scheme 3 & so on	cheme 3 &	so on															
SI. No.	Crop-wise Details June - I	June - I	II - əunr	June - III July - I	July - I	July - II	July - III Aug - I	Aug - I	Aug- II	Aug- III	Sept - 1	Aug-III Sept-I Sept-II Sept-III Oct-I Oct-II Oct-III	Sept - III	0ct -1	Oct -II		& so on	Total
1	2	3	4	5	9	7	8	6	10	11	12	13	14	15	16	17	18	19
1	Crop 1																	Sum = col. 5 of Sheet 1
2	Crop 2																	Sum = col. 8 of Sheet 1
3	Crop 3 & so on																	Sum = col. 11 of Sheet 1
4																		
	Sub - Total 3(TMC)																	
of Sub-	Grand Total (TMC) i.e. sum of Sub-Totals 1, 2, 3 & so																	
							_	_										

Annex-IX

Domestic	Domestic / Industrial Details June - III Juhy - IIII Juhy - III							Sheet 3	Sheet 3 - Domestic / Industrial Demand	c / Indust	rial Dema	18								
7 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	St. No.	Domestic/ Industrial Details		June-III	June-III	July-1	II-yu	III-√ini	Aug-1	Aug-III	Aug-	Sept-	Sept-II	Kept - III	-t-10	0ct-11	0ct -III	& 50 OII	
Total (IMC)	Total (TMC)		2	m	4	101	9	1	60	6	10	Ħ	12	m	**	ы	16	П	23	13
Total (Twd)																				Sum=col. 12
SECTION OF THE PARTY OF THE PAR	See Secondary Tower	4																		of Sheet 1
SSYS SWA WARE	Same also have a second	-	-																	
Salah Maray	55V5 VACS	-																		
72/25	70-54 CV	-																		
Total (TMC)	Total (TMC)	in																		
		0,000	Total (TIMC)																	