



## **ABSTRACT**

Water Resources Department - Announcement schemes for 2021 - 2022 Rehabilitation of shutters and hoisting arrangements in vent no.1 to 41 of Barrage across Cauvery at Upper Anicut in Srirangam Taluk of Trichy District for Rs.16,80,94,000/- under NABARD loan assistance - Administrative and Financial Sanction accorded - Orders issued.

### **Water Resources (S2) Department**

**G.O(4D)No.28**

**Dated:08.09.2023**

சோபகிருது, ஆவணி 22,  
திருவள்ளூர் ஆண்டு 2054

**Read :**

1. Government Letter No.19285/S2/2021-2, Water Resources Department, dated 28.04.2022.
2. From the Chief Engineer, Water Resources Department, Plan Formulation, Chennai Letter No.F2/Announcement 2021-22 /207 Rehabilitation-2 / Trichy / 2021, dated 18.04.2023 and 08.06.2023.
3. Government Letter No. 81/DS(B) / Fin (Res.II)/ 2023, Finance Department, dated.19.06.2023.

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### **ORDER:**

Based on the announcement of Hon'ble Minister (Water Resources) for the year 2021-2022, the Chief Engineer, Plan Formulation, Water Resources Department had sent a proposals for 15 Nos. of Rehabilitation schemes in Trichy Region for estimated cost of Rs.124.12 Crore one among them was Rehabilitation of shutters and hoisting arrangements in the barrage across Cauvery at Upper Anicut in Srirangam Taluk of Trichy District for an amount of Rs.15.00 Crore. After detailed examination, the Government in its letter 1<sup>st</sup> read above had deferred the proposal and the Chief Engineer, Plan Formulation, WRD has been requested to resend the proposal at appropriate time.

2. Accordingly, in the letter 2<sup>nd</sup> read above, the Chief Engineer, Plan Formulation, Water Resources Department, Chennai has sent the proposal for the work of Rehabilitation of shutters and hoisting arrangements in vent No. 1 to 41 of Barrage across Cauvery at Upper Anicut in Srirangam

Taluk of Trichy District for Rs.16,80,94,000/- based on the Schedule of Rates for 2023 - 2024 and the work envisages as follows :

**(A) Details of Barrage across Cauvery at Upper Anicut in Srirangam Taluk of Trichy District**

- i. The Aganda Cauvery is bifurcated at Mukkombu as Cauvery and Coleroon at Upper Anicut, which is located at 184 Km from Mettur Dam. The Cauvery Barrage constructed across river Cauvery at Mukkombu is one of the important Barrages in the Cauvery River system, to regulate water to Delta Districts.
- ii. The Cauvery Barrage construction work was commenced during the year 1974 and completed in the year 1977. The total length of the barrage is 594.30 M with 41 vents with an equal span of 12 M. Each vent is having vertical lift steel shutters of 12.20 m wide and 3.04 M Height.

**(B). Need and Necessity**

- i. Even though periodical maintenance works have been carried out, the components of the shutters are getting damaged due to various reasons like wear and tear. All the roller wheels in the shutters get stuck during operation and making it very difficult to operate the shutters.
- ii. The Centre hoist cover and Chain sprocket covers of some vents got corroded and it should be replaced with composite materials made of glass fibre reinforced polymer.
- iii. Due to continuous operation of this barrage shutters, the bottom and side rubber seals are worn out and break down. Due to this the shutters are not properly functioning and causing heavy leakages. It should be replaced with 'Z' type rubber seal at either side of the shutters with stainless steel flat and bolts & nuts. Bottom rubber seal should be replaced with new rubber seals.
- iv. The Counter weights of all vents in Cauvery barrage are of Reinforced cement concrete blocks and are in damaged condition at present due to ageing and climate condition. Hence, for easy operation the Reinforced cement concrete Counter weights have to be replaced with Mild steel counter weights. Also, it is proposed to replace all damaged roller wheels, corroded steel wheel assembly, the motor & gear box, Plummer blocks, gate height measurement scale with needle.
- v. The skin plates were also corroded at some places and the corresponding shutter is very weak and in damaged condition. Due to this, when excess water enters in the Cauvery barrage,

there is a possibility to make damages in Shutter components and it should be avoided by taking rehabilitation works immediately.

### **C. Reasons for Single work in 6 slices**

- i) The irrigation regulation period of Cauvery River is commencing from June 12<sup>th</sup> to January 28<sup>th</sup> of every year. The rehabilitation of shutter work for 41 vents have to be done within the period of four months overall in a year.
- ii) If the rehabilitation work has been entrusted to a single agency, it will take longer time to complete and may affect the water regulation and flood regulation. Hence for completing the work within time frame with different agencies, the detailed estimate has been split in to six slices.

### **D. Benefits**

By implementation of these works, the shutters of Cauvery barrage will be brought back to its original standards. Since, river Cauvery is the life line of Tamil Nadu, the water regulator and flood regulation are to be done properly to supply water to Cauvery delta and avoid flood damages in the river. The shutters play major role in both irrigation and flood regulation. By implementing these works an ayacut of 12.50 lakh acres will be benefited.

3. The Chief Engineer, Plan Formulation, Water Resources Department has further stated that the estimates have been prepared based on the Schedule of Rates for 2023-24 and requested that Administrative Sanction may be accorded for the said works at a cost of Rs.16.8094 Crore either NABARD or State Fund and to carryout the work in six slices.

4. In the letter 3<sup>rd</sup> read above, the proposal of the Chief Engineer, Plan Formulation, Water Resources Department for the above work has been forwarded to NABARD for loan assistance under RIDF XXIX for the year 2023 – 2024.

5. The Government after careful examination, have decided to accept the proposal of the Chief Engineer, Plan Formulation, Water Resources Department under NABARD loan assistance. Accordingly, the Government hereby accord Administrative Sanction for the work of Rehabilitation of shutters and hoisting arrangements in vent no. 1 to 41 of Barrage across Cauvery at Upper Anicut in Srirangam Taluk of Trichy District for Rs.16,80,94,000/- (Rupees Sixteen crore eighty lakh and ninety four thousand only) under NABARD loan assistance RIDF XXIX for 2023 - 2024. The Government also accord permission to the Chief

Engineer, Water Resources Department, Trichy Region to split the above main work into six slices as follows.

<b>Sl. No.</b>	<b>Name of work</b>	<b>Estimate Amount (Rupees in crore)</b>
1.	Rehabilitation of shutters and hoisting arrangements in vent no. 1 to 7 of barrage across Cauvery @ Upper Anicut in Srirangam Taluk of Trichy District	2.4713
2.	Rehabilitation of shutters and hoisting arrangements in vent no. 8 to 14 of barrage across Cauvery @ Upper Anicut in Srirangam Taluk of Trichy District	2.671
3.	Rehabilitation of shutters and hoisting arrangements in vent no. 15 to 21 of barrage across Cauvery @ Upper Anicut in Srirangam Taluk of Trichy District	2.7209
4.	Rehabilitation of shutters and hoisting arrangements in vent no. 22 to 28 of barrage across Cauvery @ Upper Anicut in Srirangam Taluk of Trichy District	2.7658
5.	Rehabilitation of shutters and hoisting arrangements in vent no. 29 to 34 & 41 of barrage across Cauvery @ Upper Anicut in Srirangam Taluk of Trichy District	3.7144
6.	Rehabilitation of shutters and hoisting arrangements in vent no. 35 to 40 of barrage across Cauvery @ Upper Anicut in Srirangam Taluk of Trichy District	2.466
	<b>Total</b>	<b>16.8094</b>

6. The expenditure sanctioned in para 5 above shall be debited to the following head of account:-

4700 - Capital Outlay on Major Irrigation -  
 01 Cauvery Basin - 800 - Other expenditure State's  
 expenditure - FB - Barrages - NABARD Assistance -  
 416 - Major Works - 01 - Major works.

(IFHRMS DPC 4700 - 01 - 800 - FB - 41601)

7. The expenditure sanctioned in para 5 above shall constitute an item of "New Instrument of Service" and the approval of the Legislature

will be obtained in due course. Pending approval of the Legislature, the expenditure will be initially met by drawal of an advance from the Contingency Fund. Orders regarding which will be issued by Finance (BG-I) Department separately. The Engineer-in-Chief and Chief Engineer (General), Water Resources Department, Chennai is directed to send necessary proposal to Government in Finance (BG-I) Department directly in Form "A" appended to the Tamil Nadu Contingency Fund Rules, 1963 along with a copy of this order for sanction of an advance from the Contingency Fund. He is also directed to send necessary Explanatory Notes for inclusion of the above expenditure in the Supplementary Estimate 2023 - 2024 to Finance (Infra-II/ BG-I) Department at an appropriate time without fail.

8. The Engineers concerned are directed that the details of Works executed must be uploaded in the Tamil Nadu Water Resources Information and Management Systems Portal under the Control of Chief Engineer, Institute of Water Studies, Hydrology and Quality Control to ensure effective data base in the Water Resources Department.

9. The Chief Engineer, Water Resources Department, Trichy Region, Trichy is directed to execute the above works by following the procedures laid down in Tenders Act and other rules in force.

10. The Chief Engineer, Plan Formulation and Chief Engineer, Water Resources Department, Trichy Region, Trichy are directed to ensure designs, drawings and description of works prescribed in the estimates should be same while according Technical Sanction and all original estimates are returned herewith to Chief Engineer, Plan Formulation, Water Resources Department.

11. This order issues with the concurrence of Finance Department vide its U.O. No.29303/Fin(Infra-II)/2023, dated.08.09.2023 and Additional Sanction Ledger No.875 (Eight hundred and seventy five) (IFHRMS ASL No.2023090875).

**(BY ORDER OF THE GOVERNOR)**

**SANDEEP SAXENA,  
ADDITIONAL CHIEF SECRETARY TO GOVERNMENT**

To

The Engineer-in-Chief and Chief Engineer (General), Water Resources Department, Chennai-5.

The Chief Engineer, Plan Formulation, Water Resources Department, Chennai-5.

The Chief Engineer, Water Resources Department, Trichy Region, Trichy.

The Chief Engineer, Institute of Water Studies, Hydrology and Quality Control, Taramani, Chennai-113.

The General Manager, NABARD, Tamil Nadu Regional Office, 48 (old - 105/106), Mahatma Gandhi Road, Nungambakkam, Post Box No.6074, Chennai-34.

The District Collector, Trichy.

The District Treasury Officer, Trichy.  
The Pay and Accounts Officer (East), Chennai-8.  
The Principal Accountant General (A&E), Chennai-18.  
The Principal Accountant General, (Economic and Revenue Sector Audit),  
Chennai-18.  
The Resident Audit Officer, Secretariat, Chennai-9.

**Copy To**

The Secretary-II to Hon'ble Chief Minister, Secretariat, Chennai 9.  
The Special personal Assistant to Hon'ble Minister (Finance & Human  
Resources Management), Secretariat, Chennai-9.  
The Special Personal Assistant to Hon'ble Minister (Water Resources),  
Secretariat, Chennai-9.  
The Finance (Infra-II / B.G.I / BG II/ W&M-I / Res.II) Department,  
Secretariat, Chennai-9.  
The Water Resources (OP-II / ISpl.I) Department, Secretariat, Chennai-9.  
Stock File / Spare Copy.

**// Forwarded by Order //**

*B. S. S. 8/9/2023*  
**Section Officer**

*[Signature]*  
8/9/2023