



## **ABSTRACT**

Water Resources Department - Construction of a new Regulator across Southern and Northern arms of Coleroon River on the downstream side of existing Regulator at Mukombu (Upper Anicut) in Trichy District - Revised Administrative Sanction for Rs.414.00 Crore- Accorded - Orders issued.

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

**G.O. (Ms) No.97**

**Dated.06.12.2022**

சுபகிருது, கார்த்திகை 20

திருவள்ளூர் ஆண்டு 2053

Read :

1. G.O (Ms) No.320, Public Works (W1) Department, dated.06.12.2018.
2. From the Engineer-in-Chief and Chief Engineer (General), Water Resources Department, Letter No. HDO/ Sr.DO- II/ 22306/ 2021 dated: 17.05.2022.

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### **ORDER:**

In the Government Order 1<sup>st</sup> read above, the Government have accorded administrative sanction for Construction of a new Regulator across Southern and Northern arms of Coleroon River on the downstream side of existing Regulator at Mukombu (Upper Anicut) in Trichy District at an estimated cost of Rs.387.60 crore, pending approval of NABARD loan assistance.

2. In the letter 2<sup>nd</sup> read above, the Engineer-in-Chief and Chief Engineer (General), Water Resources Department has sent a proposal for according Revised Administrative Sanction for construction of a new Regulator across Southern and Northern arms of Coleroon River on the downstream side of existing regulator at Mukombu (Upper Anicut) in Trichy District at an estimated cost of Rs.414.00 Crore as follows:

- (i) Technical Sanction for the above Work was accorded by the Chief Engineer, Trichy Region, Water Resources Department for Rs.387.60 crore.

- (ii) Tenders were called for and the lowest tender of M/s.Larsen& Toubro Ltd., Chennai had been accepted for Rs.359,02,94,400/- with a tender premium of Rs.21,70,08,116/- excess over the departmental value put to tender of Rs.337,32,87,708/- which was approved by the Tender Award Committee during its 308<sup>th</sup> meeting held on 15.02.2019. The Work was entrusted to the above contractor and site was handed over to them on 06.03.2019 with a contract period of two years.
- (iii) The Chief Engineer and the Superintending Engineer concerned have instructed to execute various works during their site inspection,
  - (a) It has been proposed in the sanctioned estimate for hydraulic hoisting arrangements for a single stroke of 2.0m provided for hydro mechanical works of barrage. The Chief Engineer (Operation & Maintenance) in his letter dated: 28.02.2020 has given a technical opinion to provide hydraulic hoist with a single stroke of 4.10m instead of 2.0m. This led to a net excess of Rs.5,93,14,640/- which includes GST @ 12%.
  - (b) The Chief Engineer, Trichy Region during his site inspection on 13.10.2019, has instructed to provide shoring arrangements for pile cap works for abutments and piers. Since, open foundation under steady seepage condition in sandy soil needs flatter slope of more than 1 in 4, it could not be possible for execution of open foundation. Hence supplemental agreement has been entered into with the contractor for Rs.12,69,20,000/-, out of which an amount of Rs.6,69,53,600/- has been spent which includes GST @12%.
  - (c) The Chief Engineer, Trichy Region during his site inspection on 08.10.2019 has instructed to provide diaphragm wall up to the scour depth of the inner face of guide walls and at the back of the guide walls, a retaining wall with wing wall needs to be provided. Since open foundation for about 5m depth in river bed would encounter enormous dewatering, this can be an impediment to the progress of work. Accordingly, the Superintending Engineer, Designs Circle, has issued detailed design & drawing for the guide wall portion by executing diaphragm wall technique vide his letter dated:10.02.2020. This led to a net excess of Rs.5,62,74,838/-, which includes GST @12%.

- (d) The Superintending Engineer, Designs Circle, Chennai has issued revised design drawings for the contraction joints for piers and instructed to adopt the same vide his letter dated: 09.12.2019. This led to an excess of Rs.1,47,64,378/-, which includes GST @12%.
- (e) The Superintending Engineer, Special Project Circle, Trichy vide his inspection notes dated: 15.06.2020 has instructed to provide wearing coat using RCC M25 grade of concrete for upstream apron, since the provision made in the technically sanctioned estimate is from Glacis to stilling basin alone. This led to an excess of Rs.76,78,384/- which includes GST @12%.
- (f) The Chief Engineer, Trichy Region, in his inspection notes dated: 06.06.2020 has instructed to provide Guide wall for a length of about 100m which was not considered during the technical sanction. The Chief Engineer has also instructed to provide epoxy coating for the structural steel of diaphragm wall to withstand corrosion. This led to an excess of Rs.24,59,228/- which includes GST @ 12%.
- (g) There is a provision of Rs.54,99,716/- available in the technically sanctioned estimate for Electrical works. The Chief Engineer (Buildings), Trichy Region, Trichy in his letter dated: 01.02.2021 has furnished a detailed estimate for electrical works of Hydraulic shutter operation with ARMAC and SCADA for shutters and Motor Control Centre building based on the inspection notes issued by the Chief Engineer, WRD, Trichy Region. This led to an excess of Rs.2,10,92,698/- which includes GST @12%.
- (h) The Superintending Engineer, Special Project Circle, Trichy, in his inspection notes dated: 15.06.2020 has instructed that the Motor Control Room should be placed in the middle of Southern & Northern arms in order to control the hydraulic shutter operation for the entire barrage. Further, the Laboratory and store room may also be compiled together with MCC building. This led to an excess of Rs.21,41,328/- which includes 12% GST.
- (i) The Chief Engineer, Water Resources Department, Trichy Region in his inspection notes dated: 01.10.2020 has instructed to provide Bed pitching for the entire width of southern and northern arms of Coleroon River to prevent scouring action as well as to avoid hydraulic jump in the upstream of the new barrage. The Chief Engineer has also instructed to provide two coats of painting for the

entire area of pier for aesthetic view. Since there is no provision available in the technically sanctioned estimate, this led to an excess of Rs.1,77,57,460/- which includes GST at 12%.

- (j) A provision of Rs.18,64,62,292/- has been allotted for Price Adjustment component in the sanction estimate. The contract period fixed for this work was 24 months from the date of handing over of site on 06.03.2019. The Chief Engineer, Trichy Region has reported that due to Global Pandemic of COVID-19, the work was suspended temporarily as per guidelines of the Government. Hence, extension of time for completion of project has been granted to the contractor upto May 2022. Now, 95% of the work has been completed.
- (k) The Revised Administrative Sanction proposal had been placed before the Technical Advisory Committee during its 54<sup>th</sup> meeting held on 21.10.2021 and the Committee had recommended this proposal for Rs.414.00 crores with an excess of Rs.26.40 crores over and above the Administrative Sanction with the details as follows :

Sl. No.	Particulars	Amount in Rupees
1.	Value of Administrative Sanction	387,60,00,000
2.	Tender Premium	21,70,08,116
3.	Variations in Civil Works	18,14,82,954
4.	Savings in Lump Sum Provisions in the estimate	(-) 13,44,90,420
5.	RAS Amount required	414,00,00,650
	Rounded to	414.00 crores

- (l) Tender Award Committee had also recommended this proposal to Government, with the observation that there has been excess and savings in large quantities in design components which reflects inaccuracy during estimation. The Committee has requested to ensure accuracy in estimation to avoid such cost over runs.

3. The Engineer-in-Chief and Chief Engineer (General), Water Resources Department has requested to accord Revised Administrative Sanction for the Work of the Construction of a new Regulator across Southern and Northern arms of Coleroon River on the downstream side of existing Regulator at Mukombu (Upper Anicut) in Trichy District at an estimated cost of Rs.414.00 Crore.

4. The Government after careful examination, have decided to accept the proposal of the Engineer-in-Chief and Chief Engineer (General), Water Resources Department, Chennai. Accordingly, Revised Administrative Sanction is accorded for construction of a new Regulator across Southern and Northern arms of Coleroon River on the downstream side of existing Regulator at Mukombu (Upper Anicut) in Trichy District at an estimated cost of Rs.414.00 Crore (Rupees Four hundred and fourteen crore only) which is Rs.26,40,01,424/- excess over the Administrative Sanctioned amount of Rs.387.60 Crore.

5. The excess expenditure sanctioned in para 4 above shall be debited to the following head of account: (40-01)

"4700 Capital Outlay on Major Irrigation —  
01 Cauvery Basin — 800 Other Expenditure —  
State's Expenditure — BB Dam and Appurtenant Works —  
NABARD assistance - 416 Major works —  
01 Major Works.

(IFHRMS DPC: 4700 - 01 - 800 - BB - 41601)"

6. The expenditure sanctioned in para 4 above shall be provided in Budget Estimate for Financial year 2023 - 2024.

7. The Engineer-in-Chief and Chief Engineer (General), Water Resources Department and Regional Chief Engineer's, Water Resources Department should ensure accuracy in preparation of estimates henceforth as indicated by the Revised Administrative Sanction Committee

8. This order issues with the concurrence of the Finance Department vide its U.O. No.49550/PW-II/2022, dated.01.12.2022.

**(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, Water Resources Department, Trichy Region, Trichy-20.

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

The District Collector, Trichy.

The District Treasury Officer, Trichy

The Principal Accountant General (A&E), Chennai-18.

The Principal Accountant General (Audit-I), Chennai-18.

The Principal Accountant General (E&RSA), Chennai-18.

The Pay and Accounts Officer (East), Chennai-8.

The Resident Audit Officer, (O/o. The Principal Accountant General  
(General and Social Sector Audit), TN Secretariat, Chennai-9.

Copy to:

The Secretary-II to Hon'ble Chief Minister, Secretariat, Chennai-9.

The Senior Personal Assistant to Hon'ble Chief Minister (Water  
Resources), Secretariat, Chennai-9.

The Finance (PW-II / BG.II / BG.I /W&M-I) Department, Secretariat,  
Chennai-9.

G.O.(Ms) No. 320, Public Works (W1) Department, dated 06.12.2018.

Stock File / Spare Copy.

**// Forwarded by Order //**

*M. Anilkant*  
06/12/2022  
**Section Officer.**  
*6/12/2022*