



## **ABSTRACT**

Water Resources Department – Announcement made by Hon'ble Minister for Water Resources for 2022-2023 – Construction of two Anicuts in Madurai Region at an estimated cost of Rs.4,96,14,000/- - Administrative and Financial sanction accorded - Orders issued

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

**G.O (4D) No.96**

**Dated 17.11.2022**

சுபகிருது, கார்த்திகை 1

திருவள்ளூர் ஆண்டு 2053

Read :

From the Chief Engineer, Plan Formulation,  
Water Resources Department, Letter No. B /  
AE3 / AEE3/ Anno 22-23 / 0604 / Anicuts-MR /  
2022, dated.12.04.2022.

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### **ORDER:**

During the Demand for Grants for Water Resources Department for the year 2022 - 2023 held on 06.04.2022, the Hon'ble Minister for Water Resources on the floor of the Assembly has announced that "5 New Anicuts will be constructed in Kancheepuram, Sivagangai and Tenkasi Districts at an estimated cost of Rs.84.30 crore."

2. Based on the announcement of Hon'ble Minister, the Chief Engineer, Plan Formulation, Water Resources Department has sent a proposal for construction of 2 Anicuts in Sivagangai and Tenkasi Districts at a cost of Rs.5.30 crore and the Schemes envisage the following:

A. Construction of a Dividing dam across Nagaramangalam Tank surplus course to feed Kulamangalam Tank in Orumaniyenthal Village of Devakottai Taluk in Sivagangai District at an estimated cost of Rs.2.00 crore

- (i) The proposed site is located in Latitude-9°47'21.55" and Longitude-78°44'22.28"E. The proposed dividing dam lies in the Manimuthar sub basin of Pambar and Kottakkaraiyar basin.

- (ii) The Nagaramangalm Tank receives water from the Uruvatti Tanks, which receive its source from Uruvatti Anicut. The Surplus of Vettukadu Kanmoi also falls into Nagaramangalam surplus course.
- (iii) The Nagaramangalam surplus course runs for a length of about 2.26 Km and bifurcates into two channels to feed Radhanur Tank at left side and Kulamangalam Tank at right side. Apart from Nagaramangalam surplus course, Radhanur Tank receives its supply from Sarugani river through Ponnalikottai Anicut.
- (iv) At the bifurcation point in the course, there is level difference in the bed. Since the bed level of Kulamangalam supply channel lies at higher level, the Tank is not getting required quantity of water.
- (v) In the past, disputes frequently arose between Kulamangalam Tank and Radhanur Tank ayacutdhars regarding sharing of Nagaramangalam Tank surplus water and these disputes finally affected both Tank's agricultural activities. As a permanent solution for arresting these disputes, it is proposed to construct a dividing dam across Nagaramangalam surplus course so as to ensure proper allocation of water for both the Tanks without any dispute.
- (vi) Capacity of Kulamangalam Tank as per memoir record is 8.90 Mcft. Radhanur Tank has its source of supply from Ponnalikottai Anicut and also from Nagaramangalam Surplus course. Besides the above, surplus of Kulamangalam Tank goes to Radhanur Tank. The capacity of Radhanur Tank is 95.62 Mcft.
- (vii) Considering the above facts, it is proposed to feed 8.90 Mcft to Kulamangalam Tank and 6.75 Mcft to Radhanur Tank from available total yield of 15.65 Mcft.
- (viii) Hydraulic particulars of the proposed dividing dam:
- |                             |   |
|-----------------------------|---|
| Maximum Flood Discharge     | - 3049.80 cusecs                                      |
| Length of dividing dam      | - 29 m  |
| Height of body wall         | - 0.83 m  |
| Crest level of dividing dam | -+29.530 m  |
| Length of dividing wall     | - 100 m   |
| Length of flood banks       | - U/s 1400 m on both banks<br>D/s 300 m on both banks |
- (ix) This is no change in the existing irrigation system where both Tanks are fed by Nagaramangalam Surplus channel. The proposal is to construct a dividing dam to maintain proportionate distribution of water between both the Tanks without any dispute. Hence no riparian rights will get affected.

- (x) The total ayacut benefitted by this dividing dam proposal through two Tanks is 83.73.60ha.(206.912 acres)
- (xi) The proposed dividing dam lies at SF No. 209 of Orumaniyenthal Village. The Off take point to Kulamangalam Tank lies at SF. No. 210/1 of Orumaniyenthal Village. Both SF. 209 and SF. No. 210/1 are private patta lands. The land owners of the above patta lands have donated the lands for public use and the lands has been registered via document no. 7927 dated 19.03.91. In addition, land donation consent letter has also obtained from their current legal heirs. Hence, no land acquisition issue arises.
- (xii) The Benefit Cost ratio works out to 1.63:1 and rate per hectare is Rs.2,38,846/-

B. Construction of Anicut across Ullar river at open offtake to feed Keelakarisalkulam in Rayagiri Village of Sivagiri Taluk in Tenkasi District at an estimated cost of Rs.3.30 crore.

- (i) The proposed Anicut site is located at Latitude 9.309207 N and Longitude 77.455331E. This site lies in Nichabanadhi sub-basin and Vaippar river basin.
- (ii) There is an Anicut called Maruthappapillai Anicut across Ullar river at a distance of 2.75 km from the origin of Ullar river. Below this Anicut, the river feeds 7 Tanks through open offtakes. Through 6<sup>th</sup> open offtake, Keelakarisalkulam and the 7<sup>th</sup> open off-take Kannasembalkulam are being fed and the river finally empties into Thenmalaikulam.
- (iii) Due to steep slope, the bed of Ullar river bed faces soil erosion and this has resulted in lowering of river bed. Hence during lean flow for one or two months, water cannot be effectively diverted into the channel for irrigation. Hence the farmers are forming earthen bund across the river to elevate the water into the channel. This often results in clashes between farmers of upstream and downstream due to lack of proportionate distribution of water. The President of Duraisampuram Village and Member of Legislative Assembly of Vasudevanallur Constituency have represented to construct an Anicut across Ullar river at open offtake to feed Keelakarisalkulam Tank in Rayagiri Village.
- (iv) Hence, it is proposed to construct an Anicut across Ullar River with a head sluice at the right bank of Ullar River to feed water to Keelakarisalkulam Tank in Rayagiri Village in order to regulate the water supply.
- (v) Hydraulic particulars of proposed Anicut
  - Length of Anicut - 26 m
  - Maximum Flood Discharge - 6305 cusecs

No. of scour vents	-1 No. on either side
Scour vent size	- 1.00m x 1.58m
Width of pier	- 1.00 m
Sill level of scour vent	- +154.350 m
Sill level of head sluice	- +155.180 m
No. of vent in head sluice	- 1 no. of 1.50mx0.60m size

- (vi) By implementing this scheme, an ayacut area of 190.96 acres will get benefitted.
- (vii) Since the river lies in the poromboke area, no land acquisition is involved in this scheme.
- (viii) The benefit cost ratio works out to 1.12:1. The cost per hectare works out to Rs.4,26,853/-.
- (ix) Provisions like GST, Labour Welfare Fund, Advertisement Charges, PS Charges and unforeseen items are included in the above estimates.

3. The Chief Engineer, Plan Formulation, Water Resources Department has stated that no land acquisition is involved in these Schemes and the estimates have been prepared based on the Schedule of Rates for 2021 – 2022 with cost escalation for 2022- 2023 and requested for Administrative Sanction for the above 2 Nos. of new Anicuts in Sivagangai and Tenkasi Districts pertaining to Madurai Region at an estimated cost of Rs.5.30 crore.

4. The Government, after careful examination, have decided to accept the proposal of the Chief Engineer, Plan Formulation, Water Resources Department by restricting the cost of the works to Rs.4,96,14,000/-. Accordingly Administrative sanction is accorded for construction of one Dividing Dam and one Anicut at an estimated cost of Rs.4,96,14,000/- (Rupees Four crore ninety six lakh and fourteen thousand only) as follows:

Sl. No.	Name of Work	Estimate Amount (in Rupees)
1.	Construction of a Dividing Dam across Nagaramangalam Tank surplus course to feed Kulamangalam Taluk in Sivagangai District.	1,87,88,000/-
2.	Construction of an Anicut across Ullar River in Rayagiri Village of Sivagiri Taluk in Tenkasi District.	3,08,26,000/-
	TOTAL	4,96,14,000/-

Out of Rs.4,96,14,000/-, financial sanction of Rs.85,00,000/- (Rupees Eighty five lakh) is accorded for the financial year 2022 – 2023 and the

balance will be released in the subsequent financial year based on the progress of the work.

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

Head of Account	Amount (in Rupees)
<u>Sl.No.1 (Dividing Dam)</u> 4701 - Capital Outlay on Medium Irrigation - 04 Gundar Basin - 800 - Other Expenditure State's Expenditure - DA - Weir - 416 - Major Works - 01 Major Works.  (IFHRMS DPC 4701 - 04 - 800 - DA - 41601)	1,87,88,000/-
<u>Sl.No.2 (Anicut)</u> 4701 - Capital Outlay on Medium Irrigation - 01 - Thamiraparani Basin - 800 - Other Expenditure State's Expenditure - FA Barrage - 416 - Major Works - 01 Major Works.  (IFHRMS DPC 4701 - 01 - 800 - FA - 41601)	3,08,26,000/-
TOTAL	4,96,14,000/-

6. The expenditure sanctioned in para 4 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 initially will be met by drawal of an advance from the Contingency Fund, for which orders 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 2022 - 2023 to Finance (PW-II/BG-I) Department at an appropriate time without fail.

7. 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.

8. This order issues with the concurrence of Finance Department vide its U.O. No.47322/PW-II/2022, dated.14.11.2022 and Additional Sanction Ledger No.1786 (One thousand seven hundred and eighty six) (IFHRMS 2022111786)

**(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, Institute of Water Studies, Hydrology and Quality Control, Taramani, Chennai-113.

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

The District Collector, Sivagangai.

The District Collector, Tenkasi.

The District Treasury Officer, Sivagangai.

The District Treasury Officer, Tenkasi.

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 the Hon'ble Chief Minister, Secretariat, Chennai-9.

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

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

The Water Resources (OP-II / ISpl.I) Department, Secretariat, Chennai-9.  
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**// Forwarded by Order //**

*S. Manikand*  
17/11/2022  
**Section Officer**  
*HT*  
17/11/2022