ABSTRACT

Water Resources Department – Announcement made by the Hon'ble Minister (Water Resources) for the year 2023 – 2024 – 16 Rehabilitation works in Madurai, Thoothukudi, Tirunelveli, Tenkasi, Sivagangai, Dindigul, Kanniyakumari, Ramanathapuram and Virudhunagar Districts, pertaining to Madurai Region for Rs.56.9575 Crore under NABARD loan assistance – Administrative and Financial Sanction – Accorded - Orders issued.

Water Resources (S2) Department

G.O (4D) No.31 **Dated.22.09.2023**
சோபகிருது, புரட்டாசி 5,
திருவள்ளுவர் ஆண்டு 2054

Read :

1. From the Chief Engineer, Plan Formulation, Water Resources Department, Chennai, Letter No. B4 / 2903 / Announcement 2023-24 / MR / Rehab / AE2 & 3 / OT2 / 2023, dated 13.04.2023 and 29.05.2023.

2. Government Letter No. 81/DS (B) / Fin (Res.II)/ 2023, Finance Department, dated.19.06.2023.

•/•/•

ORDER:

During the Demand for Grants for Water Resources Department for the year 2023-2024 held on 29.3.2023, the Hon'ble Minister for Water Resources on the floor of the Assembly has announced that "16 Rehabilitation works in Madurai, Thoothukudi, Tirunelveli, Tenkasi, Sivagangai, Dindigul, Kanniyakumari, Ramanathapuram and Virudhunagar Districts, pertaining to Madurai Region at an estimated cost of Rs.58.41 Crore.

2. Based on the above announcement, the Chief Engineer, Plan Formulation, Water Resources Department in the letters first read above, has sent a proposal to Government for according administrative sanction for "16 Rehabilitation works in Madurai, Thoothukudi, Tirunelveli, Tenkasi, Sivagangai, Dindigul, Kanniyakumari, Ramanathapuram and Virudhunagar Districts, pertaining to Madurai Region at an estimated cost of Rs.56.9575 Crore and the scheme envisages as follows:

I. Reconstruction of Dividing Anicut in Sengattankulam Tank Surplus Channel and Construction of flood Protection wall to feed Kongarakulam Tank in Nilakottai Village and Pappakulam Tank in Nuthulapuram Village of Nilakottai Taluk in Dindigul District.

(i) The above dividing anicut is located at LS 2097 m of Sengattankulam Tank Surplus channel, which distributes water to Pappakulam and Periyakulam Tanks in Nuthulapuram Village and Kongarkulam Tank, Mannavarathi and Pappankulam Tanks in Nilakottai Taluk.

(ii) The above tanks receive water from Sengattankulam Tank, which receives water from Narsasingapuram Rajavoikkal after filling the Thamaraikulam Tank, Polasamudram Tank and Vadikulam Tank as Chain of tanks.

(iii) The Narasingapuram Rajavoikkal is situated in Vaigai Basin and receives water from Periyar River. In Authoor Taluk of Dindigul District, Narasingapuram Rajavoikkal runs to a length of 4190 m and entering into Thamaraikulam Tank in Narasingapuram Village of Authoor Taluk. The ayacut directly benefitted under this Narasingapuram Rajavoikkal is 665 Acres and 1068 acres through Nine non system chain of tanks such as Thamaraikulam Tank, Polasumudram Tank, Vadikulam Tank, Sengattankulam Tank, Kongarkulam Tank, Mannavarathi Tank, Pappakulam Tank, Periyakulam Tank and Pappankulam Tank in Authoor and Nilakottai Taluks.

(iv) Due to the problems raised in sharing of water at this dividing anicut, the group of tanks already receiving water under turn system are not getting the actual water realized at this dividing anicut.

(v) At present, the required discharge from Narasingapuram Rajavoikkal is not received into Thamaraikulam Tank. Since there is left over portion of 240 m in Narasingapuram Rajavoikkal which is narrowed and with lowered earthen bund. Hence, water flows into the adjacent field and not reaching the end.

(vi) Hence, it is inevitable to reconstruct this dividing anicut for proper sharing of water with regulator arrangements. It is also proposed to improve the Thamaraikulam Tank inlet channel from Narasingapuram Rajavoikkal to a length of 240 m, the tail end of Narasingapuram Rajavoikkal for getting required water from Periyar River.

(vii) By implementing this scheme an ayacut of 1068 acres will be stabilized for irrigation and drinking water needs in Narasingapuram, Sithayankottai, Bodikamonvadi, Sengattanpatti, Nuthulapuram, Nilakottai, Silukkuvarpatti and Nakkaluthu Villages will also be satisfied.

(viii) The estimate has been prepared based on the schedule of rates for the year 2023 - 2024 and works out to Rs.1.7681 Crore.

II. Rehabilitation of Kundampatchi Tank in Poomparai Village of Kodaikanal Taluk in Dindigul District.

(i) Kundampatchi Tank is situated in Poomparai Village of Kodaikanal Taluk in Dindigul District. It is a Non system tank and is located at Latitude of 10.239728 N and Longitude of 77.408492 E respectively. The ayacut benefitted under this tank is 230.27 Acres. The Kundampatchi Tank lies in Amaravathi Sub Basin of Cauvery Basin.

(ii) The Water spread area of this Kundampatchi Tank lies in the forest area. The existing weir is in damaged condition and hence water could not be stored for agricultural purpose.

(iii) HYDRAULIC PARTICULARS OF KUNDAMPATCHI TANK:

Capacity	:	10.00 Mcft
Ayacut	:	230.27 Acres
No of Sluice	:	1 No
Weir Length	:	11.50 M
Bund Length	:	140 M
Sluice Sill Level	:	2136.900 M
FTL of Tank	:	2141.900 M
MWL of Tank	:	2142.500 M
TBL of Tank	:	2144.0

(iv) It is proposed to strengthen the weir by providing skin wall for a length of 11.50m.

(v) It is also proposed to provide screw gearing steel shutter 1 No. of size 1.20 m x 1.20 m.

(vi) By implementation of this scheme, an ayacut of 230.27 Acres will be stabilized and the drinking water needs in Poombarai Village will also get satisfied.

(vii) The estimate has been prepared based on the schedule of rates for the year 2023 - 2024 and works out to Rs.0.2987 Crore.

III. Permanent Restoration and Rehabilitation of Keelapanagadi Tank Surplus Channel with in the Madurai Corporation limit in Madurai District.

(i) Keelapanagadi Tank is located in Keelapanagadi Village in Madurai North Taluk of Madurai District. This tank receives water from the 4th Branch canal of the Periyar Main Canal and surplus water flows into Madurai Corporation residential area, then joins Anaiyur Tank. The total length of this canal is 3600m.

(ii) The total length of Keelapanagadi Tank Surplus Channel is 2800m. The surplus water from the tank reaches Mudakathan Tank. This surplus channel to Mudakathan passes through heavily urbanized area having residential constructions on both sides of Channel. Since it is an earthen Channel, during Monsoon Period the excess flood water wash over the channel and enters into the residential area. Hence, it is proposed to form Keelapanangadi Tank Surplus Course by replacing earthen channel into concrete channel.

(iii) The Surplus Channel has total Length of 2800m.

- In the urbanized area From L.S 0 to 500 m Rectangular trough section will be Constructed.
- From L.S 500m to 760m flood Protection wall will be provided in the right side bund since already the left side channel bund portion is State HighWay road having Protection Wall to a height of 2.50m Height.
- In the remaining portion from L.S 1100m to 2800 m the channel will be maintained as earthen Channel. In this Portion only desilting work is proposed.

(iv) <u>HYDRAULIC PARTICULARS</u>

Name of the Channel	:	Keelapanangadi Tank Surplus Course
Latitude	:	9^0 97′ 13″ E
Longitude	:	78^0 12′ 28″ N
Length of Surplus Course	:	3600m
Bed Level	:	146.830 m
Depth of Channel	:	2.30
FST	:	1.70 m
Free Board	:	0.60m
Bed Fall	:	1/1000
Bed Width		2.50 m

(v) By implementing this scheme, the intrusion of flood water into the residential areas will be prevented, besides the water will reach the lower down tank without any stagnation.

(vi) The estimate has been prepared based on the schedule of rates for the year 2023 - 2024 and works out to Rs.3.9361 Crore.

(IV) Improvements to Main Canal from Pudur to Pullimaankombai Village in 58 Village Scheme in Andipatti Taluk of Theni District, Nilakottai Taluk of Dindigul District and Usilampatti Taluk of Madurai District.

(i) The 58 Village scheme provides Irrigation facilities to 58 Villages in Usilampatti Taluk of Madurai District. This Canal is intended to carry the flood waters of Vaigai River and to provide irrigation facilities to 58 Villages, by feeding 35 Nos of Tanks in Andipatti Taluk of Theni District, Nilakottai Taluk of Dindigul District and Usilampatti Taluk of Madurai District whenever both vaigai Reservoir and Ramnad big tank surplus simultaneously. Also, it is presumed to favour increase of Ground water table in the above Taluks.

(ii) The 58 Village scheme canal is a high level Contour canal, which originates from Left bank of Vaigai River (Vaigai River Basin), passes through Andipatti Taluk of Theni District, Nilakottai Taluk of Dindigul District and finally joins with Therkkar River Basin in Usilampatti Taluk of Madurai District.

(iii) Most of the reaches in the Main canal and Right branch canal have been formed as an earthen canal in embankment in which more seepage is now found resulting, major water losses during supply of water. As the entire work in this 58 Village scheme, except Aqueducts have been completed before 13 years, major rehabilitation works have not been carried out for Cross Drainage works and in high level embankment portion for a long period. Hence, it is necessary to do improvement works in high level embankment Canal portions and Cross Drainage works to ensure water up to tail end with minimum losses.

(iv) The following rehabilitation works are proposed in the estimate.

- Strengthening of weaker portion of the bund
- Desilting works
- Repairs in Cross Drainage Works

(v) By implementation of this work, the whole benefited areas of 58 Village canal scheme will be fulfilled and also long request of Local Public and Farmers of Usilampatti Taluk will be achieved.

(vi) The detailed estimate has been prepared based on the schedule of rates for the year 2023 - 2024 and the amount works out to Rs.4.8819 crore.

V. Rehabilitation of Head Regulators and feeder channels of Koothangal Supply Channel in Mudukulathur Taluk of Ramanathapuram District.

(i) The Koothankal channel is an earthen channel, branching from Right Main Canal at L.S 8.52 Km below Parthibanur Regulator. This channel feeds 36 tanks in Uthiragosamangaiyar Sub Basin of Paramakudi and Mudukulathur block and finally empties in Valanadu Tank. It benefits a total ayacut of 2338.12 hectares by feeding this 36 tanks.

(ii) Presently, the feeder channel of Koothankal channel is very much in silted up condition and heavy growth of jungles and weeds are found. Moreover, the bed width of the feeder channel also got reduced which affects the free flow of water, thereby causing hindrance in supply the water to the tanks. Also, the Cross Regulator and head sluices existing at LS +19610.0 m is in dilapidated condition and old screw gearing shutters in many of the head sluices are in damaged condition. Consequently it becomes very difficult to carry out the water regulation properly.

(iii) Hence, it is necessary to carry out rehabilitation works in order to have free and smooth flow of water in the supply channel and to carry out water regulation properly. The following rehabilitation works are proposed in the estimate.

- Reconstruction of Koothangal Cross Regulator
- Reconstruction of Kakkoor Tank Head Sluice
- Desilting of Kakkoor Tank Branch channel
- Desilting of Erumaipatti Tank Branch channel
- Desilting of Keelakanniseri Tank Branch channel
- Desilting of Keelapanaiyadiendhal Tank Branch channel
- Desilting of Ponnakaraiendhal Tank Branch channel
- Desilting of Sooranku lam Tank Branch channel
- Desilting of Thiruvakki Tank Branch channel
- Desilting of Vadapuliankudi Tank Branch channel
- Desilting of Udaikulam Tank Branch channel
- Repair to feeder channels Head Sluices

(iv) By implementation of this work, the ayacuts feed by Koothangulam supply channel will get benefitted.

(v) The detailed estimate has been prepared based on the schedule of rates for the year 2023 – 2024 and the amount works out to Rs.0.6708 Crore.

VI. Construction of Head sluices and restoration of Nattar channel to feed 17 tanks in Manamadurai Taluk of Sivagangai District, 3 tanks in Paramakudi Taluk of Ramanathapuram District and 1 tank in Tiruchuli Taluk of Virudhunagar District

(i) The Nattar Channel offtakes from Vaigai right bank at 33.87 km from Virahanur regulator for flood diversion to

Rajakambeeram and its lower chain of tanks. The Rajagambeeram Tank which is near to the Vaigai River is not getting supply from Vaigai and is fed only by a portion of water from the sluice of Kattikulam. The surplus of Annavasal Tank, which is the lower tank of Rajagambeeram goes to Arimandapam Tank like wise through chain of tanks up to last tank of Kallikudi and Puthur.

(ii) In this rehabilitation proposal, it is proposed to restore the Nattar channel and diverting the Vaigai flood water to Rajakambeeram Tank and other 20 lower down tanks through Nattar channel. This proposal consists of following components of works.

1. Rehabilitation of Nattar channel by Desilting (33.20Km)
2. Construction of Head sluices at Nattar channel to feed Arimandapam, Nedunkulam, M.Karisalkulam, Somathur, Kallikudi, Pulikulam, S.Karisalkulam and Puthur Tanks. (6 Nos)
3. Construction of culvert (1 No).
4. Reconstruction of common wall Between Vaigai River and RMC

(iii) By implementation of this scheme, a permanent arrangement to the existing irrigation system, which is in practice will be restored, with proper controlling arrangements.

(iv) The detailed estimate has been prepared based on the schedule of rates for the year 2023 - 2024 and the amount works out to Rs.9.6746 crore.

<u>VII. Construction of Head sluice in the existing Ilankulam anicut across Nishabhanathi River in Vasudevanallur Village of Sivagiri Taluk in Tenkasi District</u>

(i) Nishabhanathi is one of the major tributaries of the Vaippar River and originates from the right flank of Vasudevanallur big Tank and flows for a length of 49.90 km. Then confluences into Vaippar River in the Vembakottai reservoir in Virudhunagar District. Nishabhanathi feeds 516.46.0 Ha direct ayacut and 41 tanks with 3523.91.0 Ha ayacut before its confluence into Vaippar River.

(ii) The anicut named Ilankulam anicut is located at LS 2500 m of the Nishabhanathi River. The supply channel feeding to Ilankulam Tank offtakes at the left flank of the above anicut and runs 1800 m long . The Ilankulam supply channel is the source of irrigation for 66.89.0 Ha of direct ayacut and the Ilankulam Tank irrigates 147.55.0 Ha of ayacut.

(iii) The offtake of the Ilankulam supply channel from the Ilankulam anicut has no head regulatory arrangements, which leads to continuous filling up of the Ilankulam Tank in excess of the demand. The surplus water flows in Kalingalar, a tributary of Nishabhanathi which confluences at LS 13000 m of Nishabhanathi. Hence, the irrigation in lower down tanks in the Nishabhanathi fed through Sankanaperi anicut and Chinthamani anicut got affected leading to uneasiness among the farmers.

(iv) At present, the water is diverted to direct ayacuts of Sankanaperi anicut by forming cross bund using sand bags at the offtake of Ilankulam supply channel. This is a temporary arrangement which is possible only during minimum flow of water in the river. But during flood, the farmers experience difficulty in regulating the water.

(v) Due to sharing conflict among farmers a Writ petition (MD) no.11887 of 2010 have been filed in the Madras High court, Madurai bench praying the Government to construct a regulating body in the Ilankulam supply channel offtake.

(vi) There has been law & order problem arised each and every year. On 01.12.2011, a peace committee meeting presided by Tahsildar, Sivagiri had been conducted to resolve the issues.

(vii) Since the offtake of Ilankulam supply channel is open, the lean flow is being completely used by the Ilankulam ayacutdars and as it infringes the riparian rights of the lower down anicuts, the Hon'ble High court ordered on 07.10.2015 (WP (MD) No.11887 of 2010) that "No restraint on the authorities for establishment of a regulating structure thus safeguarding the lifeline of the farmers".

(viii) Due to the construction of the proposed head sluice, the lower down farmers riparian rights will be safeguarded as the water sharing could be controlled based on requirement. The Villages namely Vasudevanallur, Naranapuram, Sanakanaperi, Nelkattumseval will be benefited through the construction of this head sluice. The size of the vent and capacity of the head sluice has been vetted by the Superintending Engineer, Designs Circle, Water Resources Department.

(ix) The hydraulic particulars of the proposed head sluice are as follows.

- Discharging capacity - 78 cusecs
- Nos. & size of vent - 2 Nos. of 1.50m x 0.75 m each
- Sill level - 177.460 m

- Length of head sluice - 15 m
- Ayacut benefitted - 30.00.00 Ha
- Benefit Cost ratio - 1.85:1

(x) No land acquisition is involved in this scheme.

(xi) The estimate cost works out as Rs.0.9517 Crore as per the Schedule of Rates for 2023 - 2024.

VIII. Providing additional vent for Manur Channel head sluice and improvements to Manur channel from Sempulipattanam to Thuthikulam in V.K.Pudur Village and Taluk of Tirunelveli and Tenkasi Districts

(i) Chittar River orginates in western ghats of Courtralam Village of Tirunelveli District at an altitude of about 200 m above M.S.L. After traversing a total distance of 80.00 K.M, the Chittar River conflence into the Tambiraparani River near Sevalaperi Village in Tirunelveli District. In Chittar River, seventeen (17) anicuts were constructed across the river.

(ii) Manur anicut is the nineth anicut in the Chittar River at Thayarthope Village in Veerakeralampudur Taluk of Tenkasi District and Manur channel offtakes from the right flank of the anicut.

(iii) Manur channel runs towards east, to a distance of about 32.5 Km. Manur channel having three direct field sluices and twelve tank sluices. Manur big tank is the last tank in Manur channel.

(iv) Manur tank is the one of the biggest tank in Tirunelveli District. The capacity of the tank is 185.70 Mcft.

(v) At present, Manur channel is silted up heavily due to the gentle bed fall and also with much widened width in several places. Due to insufficient Vent at the head and in regulator at L.S 3600M and to feed many tanks all along the way, there is a need to provide additional vent to maintain the flow into the channel. Also, the inlet Sluices No. 1, 2, 4, 5, 6, 7, 8, 9, 12, 14, 15 & 16 and outlets no. 2, 4 & 8 are in dilapidated condition and the Shutters of Inlet & Outlets are also in damaged condition. Moreover, to avoid the encroachment in the Manur channel, it is necessary to construct Protection wall in the identified places. Also the anicut shutters and apron are in damaged condition.

(vi) Hence, in this estimate , the following works are proposed

- Desilting Manur channel:
- Additional vent for head sluice at LS 0 m and regulator @ LS 3600m:
- Repairs to sluices

- Construction of Protection wall
- Repairs to anicut

(vii) This estimate has been prepared based on the schedule of rates for the Year 2023 – 2024. The total cost works out to Rs.3.8941 crore.

IX. Reconstruction of existing Bridge at Ls 1.95 km and Foot Bridges at 1.85 km and Ls at 2.41 km existing across the Kodagan Channel in North Ariyanayagipuram Village of Tirunelveli Taluk and District.

(i) Kodagan channel offtakes from the Ariyanayagipuram anicut in Ariyanayagipuram Village of Tirunelveli Taluk and District.

(ii) The existing Bridge @ L.S.1.85Km, Foot bridges at L.S.1.95Km, and L.S.2.41Km across Kodagan Channel situated in North Ariyanayagipuram Village are made of multi span cut stone & Slab laid over cut stone pillars. These bridges are used by the farmers for the movement of agricultural products, machineries and also movement to their fields.

(iii) The age of bridges is more than 75 years and the same are in dilapidated condition. Due to age now the bridge is in damaged condition and the cut stones are fallen one by one. Also the pillars are in precarious condition. Due to many number of pillars, the debris, agayathamarai in the channel gets struck in between the vents and the free flow of water is being affected during regulation and flood period. The farmers and public using the bridge find it difficult to cross the channel and become more dangerous during night time.

(iv) Therefore, reconstruction of the existing bridges is very essential and inevitable one. In order to rectify the above said deficiencies, the above Bridges have to be reconstructed. By reconstruction of these bridges, the agriculturalist holding 3000 Acres of irrigation lands under Kodagan Channel will get benefitted for conveying agriculture related materials, agri machineries etc. During irrigation period, public nearer to Ariyanayagipuram Village will also be benefited.

(v) The existing bridge across Kodagan Channel at LS 1952 connects the Ariyanayagipuram Village of Tirunelveli Taluk where the Bed width of the channel is 12m with Full supply Depth 1.67m and the side slope are 1:1 .The bed slope and discharge of the channel at this section is 1 in 2940 and 386 cusec respectively.

(vi) It is proposed to reconstruct the bridge @ L.S.1.95 Km with three vents having clear span of 6.60m x 4.40 m with 2 pier of 0.82m thick. The height of the vent is 2.87m arrived based on the existing road level at the crossing.

(v) It is proposed to reconstruct the bridge @ L.S.1.85 Km with three vents having clear span of 5.20m x 3.60 m with 2 pier of 0.82m thick. The height of the vent is 2.25m, arrived based on the existing road level at the crossing.

(vi) It is proposed to reconstruct the bridge @ L.S.2.41 Km with four vents having clear span of 4.80m x 2.00 m with 3 pier of 0.82m thick. The height of the vent is 2.25m, arrived based on the existing road level at the crossing.

(vii) The estimate has been prepared for reconstruction of bridges with the following components as per Tamilnadu Highways department standards.

(viii) The specifications and dimensions of the Abutment, Return, Pier, Bed block, Deck slab, Approach slab and Parapet wall are arrived based on the standard Drawings for RCC Solid slab Bridges for the respective spans adopted in Highways Department. The reinforcement details are adopted as per the Standard Plates of the respective spans.

(ix) Based on the existing site conditions the following components are proposed in this estimate

1. Dismantling the existing Brick Masonry in lime mortar in existing bridge.

2. Dismantling the existing Cut Stone Slab mortar in existing bridge.

3. Dismantling the existing Lime Concrete below sill and over cut Stone Slab.

4. Earthwork for Open Excavation for clearing site.

5. Earthwork for Foundation in hard soil in SS20B.

6. Earthwork for Foundation in SDR (Not Requiring Blasting)

7. Plain Cement concrete of M-10 using HBGS Jelly (well graded) of nominal maximum size of 40mm as leveling course for protective wall.

8. Plain Cement concrete of M-15 using HBGS Jelly of maximum nominal size of 40mm for leveling course, Abutment, pier and returns.

9. Plain Cement concrete of M-15 (well graded) 60% of 40mm HBGS Jelly and 40% of 20mm HBGS Jelly for protective wall .

10. Plain Cement concrete of M-20 using HBGS Jelly of 40mm for footing and above sill level for Abutment, pier, returns and Parapet over return wall.

11. Reinforced Cement Concrete of grade M30 using HBGS Jelly of 20mm for bed block, dirt wall, deck slab, approach slab and Parapet wall over deck slab.

12. Providing and fixing seepage pipes of 100mm dia PVC pipes of required length.

13. Providing and fixing KRAFT PAPER for full width of seating of deck slab.

14. Providing filter media behind the abutments and wings

15. Filling behind Abutments and wings with clean gritty gravel

16. Supplying and fixing of 300mm wide PVC EXPANSION JOINT

17. Supplying, Fabricating and placing in position of ribbed steel bars of various diameters for all reinforced concrete works

18. Plain Cement concrete of M-30 using HBGS Jelly (well graded) of 20mm as wearing coat for deck slab.

19. Plain Cement concrete of M-20 using HBGS Jelly (well graded) of 20mm as wearing coat for the apron in between abutment and pier.

20. Supplying and erecting water tight steel centering.

(x) The estimate has been prepared by adopting the schedule of rates for the year 2023 - 2024 and the estimate cost works out to Rs.1.5552 Crore.

X. Flood Mitigation and Renovation of Main Canals and Branch Channels under North Main Canal in Thambraparani System in Srivaikuntam Taluk of Thoothukudi District

(i) Across the Thambraparani River, there are 8 anicuts and 11 main channels that off takes from their respective anicuts. In this, Srivaikuntam Anicut is the last anicut. About 25560 acres of ayacut area is getting irrigation benefits directly and indirectly through 2 main channels offtaking from Srivaikuntam anicut namely North Main Channel and South Main Channel. The North Main Channel irrigates about 12800 acres

(ii) The Arumugamangalam Tank supply channel off takes at LS 13986 m of North main canal. The surplus water of Arumugamangalam Tank goes to the palayakayal Tank. The above surplus course is heavily silted up with earth and shoal deposition

(iii) In North main channel, LS 11400 m is highly vulnerable portion for flood, the left flood bank has been eroded during the past flood seasons

(iv) The Under Tunnel with twin barrel situated in Mangalakurichi Village has been completely damaged and the drainage of water from the field channels to the Thambraparani River has been blocked.

(v) Moreover, the precast slab provided in the entire channel has been completely damaged and peeled off at many places in the North Main Channel.

(vi) The following works are proposed in this estimate.

- It is proposed to reconstruct the under tunnel to a length of 76m.
- Construction of flood protection wall in North Main Channel at L.S.11400m to a length of 50m.
- Desilting the Valavetty Surplus Course from regulator 0m to 15 m
- Desilt Arumugamangalam Tank Surplus Course from L.S.0m to 5300m.
- Reconstruct the bridge at Mangalapuram Village across the North Main Channel.
- Providing bed lining by laying the concrete of 15cm thick embedded over a sand filing of 15cm thick.

(vii) This Estimate has been prepared based on the Schedule of rates for the year 2023 - 2024 and the cost of estimate works out to Rs.9.846 crore.

<u>XI. Rehabilitation and renovation to Authoor canal under Thamirabarani system in Eral Taluk of Thoothukudi District</u>

(i) Thamirabarani River is one of the perennial River in Tamilnadu. It originates at Agasthiyarmalai in Western Ghats and flows through Tirunelveli (80 km) and Thoothukudi District (46km), totally to a length of 126 Km and confluences with sea at Punnakayal Village in Thoothukudi District.

(ii) Across the Thambraparani River, there are 8 anicuts and 11 main channels, that off takes from their respective anicuts. In this, Srivaikuntam Anicut is the last anicut. The South Main Canal off takes from Srivaikuntam Anicut at right side through a head sluice. There are 8 direct sluice and 15 tank under south main channel system by which total ayacut of 12185 Acres is benefitted.

(iii) In this, the Authoor Tank Supply Channel offtakes from the South main Channel on its left side through head sluice with 2 vents each 2.10 x 1.50 M and empties into Authoor Tank.

(iv) The sluices of the authoor supply channel are in dilapidated conditions causing heavy leakages, creating bottlenecks in control of water supply to the command area of the tanks. Also, the existing Manjuvilai pipe low level cause way will be reconstructed as two Span bridge. The regulator of Sethukkuvaithan and the head sluice of Authoor Tank is fully dilapidated condition and it's very difficult to regulate the water during heavy rainy season and regulation period. Also, the Seepage loss occurs due to the unlined canal in the Supply channel.

(v) Hence, it is necessary to carry out rehabilitation works inorder to provide water through the canal without any leakages. The following rehabilitation works are proposed in the estimate.

- Reconstruction of Sluices
- Reconstruction of Bridge
- Repair of Sethukkuvaithan Regulator
- Repair of Authoor Head Sluice
- Revetment in Authoor Tank Supply channel
- Bathing Ghat

(vi) The detailed estimate has been prepared based on the schedule of rates for the year 2023 – 2024 and the amount works out to Rs.4.8217 crore.

XII. Rehabilitation and Improvements to Kalvoi Sadayaneri Channel in Sathankulam Taluk of Thoothukudi District.

(i) Kalvoy Sadayaneri Channel originates at surplus weir of Kalvoy Tank (which is one of the system tank under Melakkal) and leads upto 19.90 Km upto Nangaimozhi Regulator near Meignanapuram. At this regulator, the channel is divided into two channels. One supply channel leads to nearby Sadayaneri

Tank and another channel named as Sadayaneri extension channel leads upto 5.15 Km.

(ii) Kalvoy Sadayaneri Channel system consists of 17 rainfed tanks and 3 recharging ponds (Tharuvai). The ayacut lands that are directly benefited by this system are 5310 Acres. Moreover, several villages in Srivaikuntam, Tiruchendur and Sathankulam Taluks are getting more ground water recharge by this system

(iii) At present, 4 No. of direct sluices in Kalvoy Sadaiyaneri Channel, which is feeding water to Aathalikulam tank, Melaputhukulam tank, Eluvaraimukki tank and Nochikulam tank respectively are in dilapidated conditions which lead to heavy leakages. Also, the channel is heavily silted up due to which during raining season, the Sadaiyaneri Channel is not sufficient to carry the original discharge. Moreover, the shutters in the Head sluice of Kalvoy Sadayaneri Channel and at the Regulator cum sluice at LS 2430 m, 8170 m are in damaged condition. Also, the Carriage way of Road bridge across Mudalur Odai at LS 3557 is not convenient for department and public transport and the causeway across Mudalur Odai at LS 3562 is in damaged condition left unattended for several years.

(iv) At the end of Kalvoy Sadaiyaneri Channel there is a regulator for regulating the water to both Sadaiyaneri tank and Puthantharuvai. The downstream side of the regulator is in damaged and collapsed condition and the side bunds are also in damaged condition. During the heavy rainfall in November 2021, Mudalurkuttam bund was breached and the water entered the nearer agricultural land and residential area. Hence bund strengthening needs to be done. Due to excess water released from the Kalvoy tank, the flood bank of Kalvoy Sadaiyaneri Channel was breached at number of places. As a permanent restoration measure to overcome the above situation, it is proposed to provide flood protection wall in the breached portion of the mentioned places to a required height and length.

(v) In this estimate, the following works are proposed :

- Reconstruction of Sluices
- Regrading and Shoal removal of Kalvoy Sadaiyaneri Channel, Sadaiyaneri Extension Channel, Vairavantharuvai – Puthantharuvai link channel and Sundankottai Tharuvai supply channel
- Repair and Replacement of Shutters
- Reconstruction of Bridge and Repair of Causeway across Mudalur Odai

- Repair of Nangaimozhi Regulator
- Standardization of Mudalurkuttam
- Construction of Flood Protection wall in the breached locations.

(vi) The estimate has been prepared as per schedule of rates for the year 2023 - 2024 and work out to Rs.3.894 crore

XIII. Rehabilitation of Perurani Anicut in Thoothukudi Taluk and District

(i) Perurani Anicut was constructed across Perurani Odai in Thoothukudi Taluk. This Anicut feeds to Seven Panchayat Union Tanks in Perurani, Allikulam and Kootudankadu Villages in Thoothukudi Taluk and about ayacut of 137.73.50 Hectares of land are irrigated. This anicut has two number of vents in Head sluice for irrigation to the above Panchayat Union Tanks and has two numbers of weir for discharging the surplus water during the monsoon period.

(ii) The guidewall in the head sluice portion of the anicut is broken and adjacent land got flooded during the monsoon times.

(iii) The existing protection wall constructed in water spread area and along the supply channel are in damaged condition. Some portion of the protection wall is completely broken while some portion are in overturned condition.

(iv) The shutters in the anicut are in damaged condition and in operatable condition. This anicut has one escape weir along its supply course in which the bodywall, abutment, wings and returns are in damaged condition which leads to wastage of water from anicut.

(v) It is proposed to repair the escape weir of the anicut by reconstructing the damaged bodywall, abutments, wings and return walls of the weir.

(vii) It is also proposed to reconstruct the damaged and broken portion of guide wall and protection wall in the anicut waterspread and head sluice portion for proper working condition of the Anicut.

(viii) The shutters in the Scour Vent, Escape Vent and Head Sluice Vents of the Anicut is proposed to repair and replace. In addition to this, repair work will be carried out in Diversion Weir of Ilakkankulam Tank and the shutter in this weir will be replaced. The surplus course of the anicut is to be regraded for a length of 100m and provisions made for closing the breach in the Head Sluice Portion.

(ix) The following provision are made in this estimate

1. Earth work excavation for foundation
2. Earth work excavation deploying earth moving machineries
3. Dismantling - Brick / Stone masonry
4. Dismantling Plain cement concrete
5. Plain Cement Concrete M10 using 40mm metal
6. Plain Cement Concrete M15 using Graded metal
7. Plain Cement Concrete M15 using 20mm metal
8. Reinforced Cement Concrete M20 using 20mm metal
9. Fabrication of Steel
10. Steel Centering - Above Ground level
11. Steel Centering - Below Ground level
12. Provision of Shutter in Anicut and Escape Weir
13. Drilling Holes for Anchorage Rods in Weir 2
14. Grouting the Drilled Holes in Weir 2
15. Rough stone dry packing for Talus Apron

(x) This estimate has been prepared based on the Schedule of rates for the year 2023 – 2024 and the cost of estimate works out to Rs.1.031 Crore.

XIV. Protection works to Left Bank of Sambankulam Tank Supply Channel in Srivaikundam Taluk of Thoothukudi District

(i) Sambankulam Tank is situated in Singathakurchi Village of Srivaikundam Taluk in Thoothukudi District. This tank supply channel receives the flood water from Alanda Anicut. This anicut supplies the stored flood water to the Sambankulam, Ulakkudi and Kaliyavoor Tanks in Srivaikundam Taluk through the supply channel having a length of 4933m.

(ii) The above supply channel was once encroached by brambles, saplings and with small size stones fell into the channel affecting the flow of the channel.

(iii) At present, jungles and small size boulders have been completely removed. Since, the canal runs in deep cutting and the farmers and people are afraid and find it difficult to go along the left banks of the supply channel. Therefore, it is proposed to construct metal beam fence for 610 m length along the left bank of Sambankulam Tank supply.

(iv) In this estimate, the work of Providing and erecting single sided Double guard metal beam is proposed.

(v) The estimate has been prepared for Rs.0.5 Crore based on the Schedule of Rates for the year 2023 – 2024.

XV. Rehabilitation of Vadakkukalmedu Tank in Ottapidaram Taluk of Thoothukudi District

(i) Vadakukalmedu Tank is a non system Water Resources Department Tank which is situated in Veppalodai Village and is under the control of Korampallam Aru Basin Division, Thoothukudi. The tank is having a registered ayacut of 30.69 Hectares. The tank has three numbers of sluices for irrigation to the above ayacuts and three numbers of weir for discharging the surplus water during the monsoon period. The length of tank bund is 1850m.

(ii) The tank bund has a length of 1850m and it was strengthened under Kudimaramathu scheme in 2016 – 2017. Excessive rain gullies were formed at many places due to continuous rain in last year. Hence it is essential to safeguard and standardise the existing bund.

(iii) The three Irrigation Sluices in this tank and surplus weirs are in damaged condition.

(iv) The Abutments, Wing walls and Return walls and Aprons of the Surplus weirs are also in severe damaged condition. The Ayacutdars and Villagers are continuously requested to repair and restore the all Surplus Weirs and Sluices and to carry out the strengthening work of tank bund.

(v) It is proposed to repair all the three surplus weirs by providing skinwall to prevent leakages of water and to restore the damaged aprons, abutments, wings and return walls of the weirs.

(vi) It is also proposed to reconstruct the all damaged sluices to proper working condition to make it fit for irrigation purposes. In addition to this, it is proposed to carry out the strengthening of tank bund for the length of 1850m.

(vii) The following works and provision are made in this estimate

1. Earthwork Excavation for Strengthening of Tank Bund
2. Earth work excavation for cutopen of tank bund
3. Earth work excavation for foundation
4. Earth work excavation for shoal removal
5. Dismantling - Brick / Stone masonry
6. Dismantling Plain cement concrete
7. Plain Cement Concrete M10 using 40mm metal
8. Plain Cement Concrete M15 using Graded metal
9. Plain Cement Concrete M15 using 20mm metal
10. Plain Cement Concrete M20 using 20mm metal
11. Reinforced Cement Concrete M20 using 20mm metal
12. Fabrication of Steel

13. Steel Centering - Above Ground level
14. Steel Centering - Below Ground level
15. Provision of Shutter for Sluices
16. Provision for Roughly Dressed Cut Stone for Sluice 1
17. Refilling Cut Open Excavated Earth
18. Drilling Holes for Anchorage Rods in Weir 2
19. Grouting the Drilled Holes in Weir 2
20. Plastering with CM 1:4 in Upstream Face of Weir 2
21. Roughstone dry packing for Talus Apron

(viii) This Estimate has been prepared based on the Current Schedule of rates for the year 2023- 2024 and the cost of estimate works out to Rs.1.4623 Crore.

XVI. Flood protection works to Avudaiyarkulam Tank and its surplus course in Thiruchendur Taluk of Thoothukudi District

(i) South Main Channel originates at the Right flank of Srivaikuntam Anicut. The length of South Main Channel is 8.60 K.m. 15 Number of tanks are getting water by South Main Channel System. The total Ayacut benefitted by this system is 12760 Acres. (Direct = 2693 Acres ; Indirect = 10067 Acres). One among the 15 tanks, is Avudaiyarkulam Tank which has an ayacut of 81.02 Ha.

(ii) At present, vent way in the bridges at LS 39m,LS 91 m, 121 m, 318 m, 510 m, 784 m across Avudaiyarkulam Tank surplus are not sufficient to pass the original discharge of the surplus water at this location. Also, the tank bund is of below standards. The side slopes are flatter, heavily eroded and in weak condition and there are lot of gullies are also found in the slope of the bund portion.

(iii) It is proposed to reconstruct the damaged and dilapidated 2 No. of sluices in Avudaiyarkulam tank which are at present functioning with heavy leakages creating bottlenecks in control of water supply to the command area of the tanks. Moreover, the existing surplus course is heavily silted up causing inundation in the nearby residential areas.

(iv) Hence, in this estimate, the following works are proposed:

1. Reconstruction of Bridges in Avudaiyarkulam Tank surplus course
2. Strengthening of tank bund
3. Reconstruction of Sluices
4. Construction of Trough section in residential area.

(v) The estimate has been prepared based on Schedule of Rates for the year 2023 – 2024 and worked out to Rs.7.7713 crore.

3. The Chief Engineer, Plan Formulation, Water Resources Department has informed that the estimates for an amount of Rs.56.9575 Crore have been prepared based on the Schedule of Rates for the year 2023-2024 and requested to accord administrative sanction for the works as follows :

Sl. No.	Name of work	Estimate on SOR 2023-2024 (Rs. in crore)
1	Reconstruction of Dividing Anicut in Sengattankulam Tank Surplus Channel and Construction of flood Protection wall to feed Kongarakulam Tank in Nilakottai Village and Pappakulam Tank in Nuthulapuram Village of Nilakottai Taluk in Dindigul District.	1.7681
2	Rehabilitation of Kundampatchi Tank in Poomparai Village of Kodaikanal Taluk in Dindigul District.	0.2987
3	Permanent Restoration and Rehabilitation of Keelapanagadi Tank Surplus Channel with in the Madurai Corporation limit in Madurai District.	3.9361
4	Improvements to Main Canal from Pudur to Pullimaankombai Village in 58 Village Scheme in Andipatti Taluk of Theni District, Nilakottai Taluk of Dindigul District and Usilampatti Taluk of Madurai District.	4.8819
5	Rehabilitation of Head Regulators and feeder channels of Koothangal Supply Channel in Mudukulathur Taluk of Ramanathapuram District.	0.6708
6	Construction of Head sluices and restoration of Nattar channel to feed 17 tanks in Manamadurai Taluk of Sivagangai District, 3 tanks in Paramakudi Taluk of Ramanathapuram District and 1 tank in Tiruchuli Taluk of Virudhunagar District.	9.6746
7.	Construction of Head sluice in the existing Ilankulam anicut across Nishabhanathi River in Vasudevanallur Village, Sivagiri Taluk, Tenkasi District.	0.9517
8	Providing additional vent for Manur Channel head sluice and improvements to Manur channel from Sempulipattanam to Thuthikulam in V.K.Pudur Village and Taluk of Tirunelveli and Tenkasi Districts	3.8941

9	Reconstruction of existing Bridge at L.S 1.95km and Foot Bridges at L.S 1.85 km and L.S at 2.41 km across the Kodagan Channel in North Ariyanayagipuram Village of Tirunelveli Taluk and District.	1.5552
10	Flood Mitigation and Renovation of Main Canals and Branch Channels under North Main Canal in Thambraparani System of Srivakuntam Taluk in Thoothukudi District.	9.846
11	Rehabilitation and renovation to Authoor canal under Thamirabarani system in Eral Taluk of Thoothukudi District	4.8217
12	Rehabilitation and Improvements to Kalvoi Sadayaneri Channel in Sathankulam Taluk of Thoothukudi District.	3.894
13	Rehabilitation of Perurani Anicut in Thoothukudi Taluk and District	1.031
14	Protection work on Left Bank of Sambankulam Tank Supply Channel in Srivaikundam Taluk of Thoothukudi District	0.5
15	Rehabilitation of Vadakkalmedu Tank in Ottapidaram Taluk of Thoothukudi District	1.4623
16	Flood protection works in Avudaiyarkulam Tank and its surplus course in Thiruchendur Taluk of Thoothukudi District	7.7713
	Total	**56.9575**

4. In the letter 2nd read above, the proposal of the Chief Engineer, Plan Formulation, Water Resources Department for the above 16 Nos. of Rehabilitation works except one work at Sl.No.9 have been forwarded to NABARD for loan assistance under RIDF XXIX for the year 2023 – 2024 at an estimated cost of Rs.55.4023 Crore.

5. The Government after careful examination have decided to accept the proposal of Chief Engineer, Water Resources Department, Plan Formulation in which out of 16 Works, one work at Sl.No.9 under State Fund and remaining 15 works viz., Sl.No.1 to 8 and 10 to 16 under NABARD Loan Assistance RIDF XXIX for 2023 - 2024. Accordingly, Administrative Sanction is accorded for 16 Rehabilitation works in Madurai, Thoothukudi, Tirunelveli, Tenkasi, Sivagangai, Dindigul, Kanniyakumari, Ramanathapuram and Virudhunagar Districts,

pertaining to Madurai Region at an estimated cost of Rs.56.9575 Crore (Rupees Fifty six crore ninety five lakh and seventy five thousand only) as follows:

Sl. No.	Name of work	Estimate amount (Rs. in crore)	Source of Fund
1	Reconstruction of Dividing Anicut in Sengattankulam Tank Surplus Channel and Construction of flood Protection wall to feed Kongarakulam Tank in Nilakottai Village and Pappakulam Tank in Nuthulapuram Village of Nilakottai Taluk in Dindigul District.	1.7681	NABARD - RIDF XXIX 2023 - 2024
2	Rehabilitation of Kundampatchi Tank in Poomparai Village of Kodaikanal Taluk in Dindigul District.	0.2987	NABARD - RIDF XXIX 2023 - 2024
3	Permanent Restoration and Rehabilitation of Keelapanagadi Tank Surplus Channel with in the Madurai Corporation limit in Madurai District.	3.9361	NABARD - RIDF XXIX 2023 - 2024
4	Improvements to Main Canal from Pudur to Pullimaankombai Village in 58 Village Scheme in Andipatti Taluk of Theni District, Nilakottai Taluk of Dindigul District and Usilampatti Taluk of Madurai District.	4.8819	NABARD - RIDF XXIX 2023 - 2024
5	Rehabilitation of Head Regulators and feeder channels of Koothangal Supply Channel in Mudukulathur Taluk of Ramanathapuram District.	0.6708	NABARD - RIDF XXIX 2023 - 2024
6	Construction of Head sluices and restoration of Nattar channel to feed 17 tanks in Manamadurai Taluk of Sivagangai District, 3 tanks in Paramakudi Taluk of Ramanathapuram District and 1 tank in Tiruchuli Taluk of Virudhunagar District	9.6746	NABARD - RIDF XXIX 2023 - 2024
7.	Construction of Head sluice in the existing Ilankulam anicut across Nishabhanathi River in Vasudevanallur Village, Sivagiri Taluk, Tenkasi District.	0.9517	NABARD - RIDF XXIX 2023 - 2024

8	Providing additional vent for Manur Channel head sluice and improvements to Manur channel from Sempulipattanam to Thuthikulam in V.K.Pudur Village and Taluk of Tirunelveli and Tenkasi Districts	3.8941	NABARD - RIDF XXIX 2023 - 2024
9	Reconstruction of existing Bridge at L.S 1.95km and Foot Bridges at L.S 1.85 km and L.S at 2.41 km across the Kodagan Channel in North Ariyanayagipuram Village of Tirunelveli Taluk and District.	1.5552	STATE FUND
10	Flood Mitigation and Renovation of Main Canals and Branch Channels under North Main Canal in Thambraparani System of Srivaikuntam Taluk in Thoothukudi District.	9.846	NABARD - RIDF XXIX 2023 - 2024
11	Rehabilitation and renovation to Authoor canal under Thamirabarani system in Eral Taluk of Thoothukudi District	4.8217	NABARD - RIDF XXIX 2023 - 2024
12	Rehabilitation and Improvements to Kalvoi Sadayaneri Channel in Sathankulam Taluk of Thoothukudi District.	3.894	NABARD - RIDF XXIX 2023 - 2024
13	Rehabilitation of Perurani Anicut in Thoothukudi Taluk and District	1.031	NABARD - RIDF XXIX 2023 - 2024
14	Protection work on Left Bank of Sambankulam Tank Supply Channel in Srivaikundam Taluk of Thoothukudi District	0.5	NABARD - RIDF XXIX 2023 - 2024
15	Rehabilitation of Vadakkalmedu Tank in Ottapidaram Taluk of Thoothukudi District	1.4623	NABARD - RIDF XXIX 2023 - 2024
16	Flood protection works in Avudaiyarkulam Tank and its surplus course in Thiruchendur Taluk of Thoothukudi District	7.7713	NABARD RIDF XXIX 2023 - 2024
	Total	**56.9575**	

6.The amount sanctioned in para 5 above shall be debited to the following Head of Account

For Sl. No. 1 – Rs.1,76,81,000/-

4700 – Capital Outlay on Major Irrigation - 05 – Vaigai Basin – 800 – Other Expenditure – State's Expenditure – DB –Weir – NABARD assistance – 416 Major works - 01 Major works.

(IFHRMS DPC: 4700 - 05 – 800 – DB - 41601)

For Sl. No. 2 – Rs.29,87,000/-

4700 – Capital Outlay on Major Irrigation - 01 – Cauvery Basin – 800 – Other Expenditure – State's Expenditure – EB – Water Course – NABARD assistance – 416 Major works - 01 Major works.
(IFHRMS DPC: 4700 - 01 – 800 – EB - 41601)

For Sl. Nos. 3 and 4 – Rs.8,81,80,000/-

4700 – Capital Outlay on Major Irrigation - 05 – Vaigai Basin – 800 – Other Expenditure – State's Expenditure – CB – Canals – NABARD assistance – 416 Major works - 01 Major works.

(IFHRMS DPC: 4700 - 05 – 800 – CB - 41601)

For Sl. Nos. 5 and 6 – Rs.10,34,54,000/-

4701 – Capital Outlay on Medium Irrigation - 04 – Gundar Basin – 800 – Other Expenditure – State's Expenditure – CB – Canals – NABARD assistance – 416 Major works - 01 Major works.

(IFHRMS DPC:4701 - 04 – 800 – CB - 41601)

Sl.No.7 – Rs.95,17,000/-

4701 – Capital Outlay on Medium Irrigation - 03 –Vaippar Basin – 800 – Other Expenditure – State's Expenditure – DB – Weir – NABARD assistance – 416 Major works - 01 Major works.

(IFHRMS DPC:4701 – 03 – 800 – DB - 41601)

For Sl. Nos.8, 10, 11, 12 and 13– Rs.23,48,68,000/-

4701 – Capital Outlay on Medium Irrigation - 01 – Thamiraparani Basin – 800 – Other Expenditure – State's Expenditure – CB – Canals – NABARD assistance – 416 Major works - 01 Major works.

(IFHRMS DPC:4701 - 01 – 800 – CB - 41601)

For Sl. No.9 - Rs.1,55,52,000/-

4701 – Capital Outlay on Medium Irrigation - 01 – Thamiraparani Basin – 800 – Other Expenditure – State's Expenditure – CA – Canals – 416 Major works - 01 Major works.

(IFHRMS DPC:4701 - 01 – 800 – CA - 41601)

For Sl. Nos.14, 15 and 16 – Rs.9,73,36,000/-

4701 – Capital Outlay on Medium Irrigation - 01 – Thamiraparani Basin – 800 – Other Expenditure – State's Expenditure – EB – Water Course – NABARD assistance – 416 Major works - 01 Major works.

(IFHRMS DPC:4701 - 01 – 800 – EB - 41601)

7. The expenditure sanctioned in para 5 above shall constitute an item of "New Instruments of Services" and the approval of Legislature will be obtained in due course. Pending approval of the legislature, the expenditure may be initially met by drawal of an advance from the Contingency Fund. The Engineer-in-Chief and Chief Engineer (General), Water Resources Department, Chennai is directed to calculate the actual amount required for the period upto next Supplementary Estimates and apply for sanction of same as advance from Contingency Fund to Finance (BG-I) Department directly in Form "A" appended to Tamil Nadu Contingency Fund Rules, 1963, along with a copy of this order. Orders for sanction of an advance from the Contingency Fund will be issued from Finance (BG-I) Department. Further, he is also directed to send necessary draft explanatory notes for the inclusion of the above expenditure in the Supplementary Estimates for the 2023 – 2024 to Finance (Infra-II / BG-I) Department at the appropriate time without fail.

8. It is also 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, Plan Formulation and Chief Engineer, Madurai Region, Water Resources Department are directed to ensure designs, drawings and description of works prescribed in the estimate should be same while according Technical Sanction.

10. This order issues with the concurrence of Finance Department vide its U.O. No.29494/Fin(Infra-2)/2023, dated.22.09.2023 and Additional Sanction Ledger No.975 (Nine hundred and seventy five) (IFHRMS ASL No.2023090975).

(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, Madurai Region, Madurai.
The Chief Engineer, Water Resources Department, Plan Formulation, Chennai-5.
The Chief Engineer, Institute of Water Studies, Hydrology and Quality Control, Taramani, Chennai-113.
The Chief General Manager, NABARD, 48, Mahatma Gandhi Road, Post Box No.6074, Nungambakkam, Chennai -34.
The District Collectors, Dindigul, Madurai, Ramanathapuram, Virudhunagar, Tenkasi, Tirunelveli, Thoothukudi Districts.
The District Treasury Officers, Dindigul, Ramanathapuram, Virudhunagar, Tenkasi, Tirunelveli, Thoothukudi Districts.
The Principal Accountant General (A&E), Chennai-18.
The Principal Accountant General, (Economic and Revenue Sector Audit), Chennai-18.
The Pay and Accounts Officer, East / South, Chennai-8.
The Pay and Accounts Officer, Madurai.
The Resident Audit Officer, O/o. Principal Accountant General (General and Social Sector Audit), 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 Special Personal Assistant to the Hon'ble Minister, (Finance & Human Resources Management) Secretariat, Chennai-9.
The Finance (Infra-II / BG-1/BG-II, W&M-I/Res-II), Department, Secretariat, Chennai-9.
The Water Resources (OP-II) / I-Spl) Department, Secretariat, Chennai-9.
Stock File / Spare Copy.

// Forwarded by Order //

22/9/2023
Section Officer.
22/9/2023