

I/1057684



**ABSTRACT**

Tamil Nadu Water Resources Department – Dam Rehabilitation and Improvement Project (DRIP) - Administrative and Financial Sanction for meeting the expenses in connection with the Safety Inspection of dams by the Dam Safety Review Panel (DSRP) under DRIP Phase II until the completion of DRIP-II at an estimated cost of Rs.25.00 lakhs Accorded - Orders– Issues .

**Water Resources (WR1) Department**

**G.O.(D) No.195**

**Dated: 30.8.2023**

**சோபகிருது ஆவணி 13**

**திருவள்ளூர் ஆண்டு 2054**

Read:-

1. G.O.(Ms) No. 246, Public Works (WR1) Department, dated 23.12.2019.
2. G.O. (Ms) No.189, Public Works (WR1) Department, dated 29.01.2021
3. G.O. (Ms) No. 153, Water Resources (WR1) Department, dated 10.06.2022
4. G.O.(Ms) No.28, Water Resources (WR1) Department, dated 28.04.2022
5. From the Chief Engineer, Water Resources Department, Operation and Maintenance and State Dam Safety Organisation (SDSO), Chennai Letter No.AE (DRIP) / 6484 / 98 (Empowered Committee-July 2023) Dated 11.07.2023

**ORDER:**

In the Government Order third read above, Administrative Sanction has been accorded for the following:-

- a) To extend the validity of the DSRP membership with 18 members for carrying out the Dam Safety Inspection from 01.04.2022 until the completion of the DRIP II & III, as listed below:-

| S.No. | Name   | Domain of Expertise  |
|-------|--|--|
| 1)    | Dr. B. K. Mittal,<br>Former Chairman, Central<br>Water Commission, New Delhi                           | Chairman of the Committee<br>and <b>Hydrologist</b> and Dam<br>Design Expert |
| 2)    | Thiru. Shailesh Kumar<br>Srivastava, Former Chairman,<br>Krishna River Management<br>Board, Hyderabad. | Chairman and Hydro-<br>Mechanical Expert                                     |

|     |  |  |
|-----|--|--|
| 3)  | Thiru. H K Sahu,<br>Former Chairman, Godavari<br>River Management Board  | Member and Hydro-<br>mechanical Expert, Dam<br>Safety Expert, Design<br>Expert |
| 4)  | Thiru. Naresh Kumar Mathur,<br>Ex-Member, Design &<br>Research,<br>Central Water Commission.                     | Chairman of the Committee<br>and Hydrologist and Dam<br>Design Expert          |
| 5)  | Thiru. MurariRatnam,<br>Former Director,<br>Central Soil and Material<br>Research Station (CSMRS),<br>New Delhi  | Member and Dam Safety<br>and Instrumentation Expert                            |
| 6)  | Thiru. VivekTripathi,<br>Director, CMDD (E&NE),<br>Central Water Commission<br>(current)                         | Member and Dam Safety<br>and Designs Expert,<br>Seismic Expert                 |
| 7)  | Thiru. G. Rajagopalan,<br>Retired Geologist, GSI   | Member and Geologist   |
| 8)  | Thiru. C. Thanavelu,<br>Former Director,<br>Geological Survey of India   | Member and Geologist   |
| 9)  | Dr. R. Srinivasan,<br>Former Deputy Director<br>General,<br>Geological Survey of India                           | Member and Geologist   |
| 10) | Thiru. S. Rustham Ali<br>Former Chief Engineer, Tamil<br>Nadu Water Resources<br>Department                      | Member and Construction<br>Supervision Expert                                  |
| 11) | Thiru. R. Selvam,<br>Former Chief Engineer, (Plan<br>Formulation), Tamil Nadu Water<br>Resources Department      | Member and Dam Safety<br>and Designs Expert                                    |
| 12) | Thiru. K. Padmanabhan,<br>Former Special Secretary to the<br>Government, Public Works<br>Department, Tamil Nadu. | Member and Hydrologist<br>and Dam Safety Expert                                |
| 13) | Thiru. V.K. Gupta,<br>General Manager – Hydro<br>Mechanical,<br>Jaypee Infra Ventures                            | Member and Hydro-<br>mechanical Expert   |
| 14) | Thiru K.K. Rajan<br>Consultant, Task Force<br>Member, Tamil Nadu Electricity<br>Board                            | Member and Hydro<br>Mechanical Expert  |

|     |   |  |
|-----|---|--|
| 15) | Thiru. A.K. Bajaj,<br>Former Chairman, Central<br>Water Commission, New Delhi   | Chairman of the<br>Committee, Dam Safety<br>Expert and Hydro-<br>mechanical Expert |
| 16) | Thiru. Prafulla Kumar Swain,<br>Former Chief Engineer, Dam<br>Safety,<br>Department of Water<br>Resources,<br>Odisha.     | Member and Dam Safety<br>Expert, Construction<br>Supervision Expert                |
| 17) | Dr. S. Santhanaraman,<br>Retired Special Chief Engineer,<br>Tamil Nadu Public Works<br>Department                         | Member and Dam Safety<br>Expert, Design Expert                                     |
| 18) | Thiru. Bhanu Shankar Mishra,<br>Retired General Manager,<br>Odisha State Electronic<br>Development<br>Corporation Limited | Member and<br>Instrumentation Expert,<br>Communication and<br>Security Expert      |

- b) For Delegation of powers to the Project Director, SPMU for deciding the dams to be inspected in each vicinity and selection of DSRP members based on their availability and field requirements for each visit.
- c) For considering the members from the list tabulated above such that their service shall be rendered by the Tamil Nadu Water Resources Department in order to carry out a comprehensive Dam Safety Review inspection once in 10 years for both DRIP and non-DRIP dams.
- d) For Delegation of powers to the Project Director, State Project Management Unit for constituting the Dam Safety Review Panel (DSRP) with home state members and designating the Chairman to the team to proceed for Dam Safety Inspection under DRIP during the pandemic situation.
- e) To provide honorarium as sitting fee at the rate of Rs. 7500/- per day for each day of block visit undertaken by the DSRP committee and period of the journey, sanction to provide airfare, boarding and lodging charges to the members of the Dam Safety Review Panel (DSRP) committee as per rules in force.

2. In the Government Order 4<sup>th</sup> read above, administrative sanction has been accorded to implement the DRIP II at a project cost of Rs.610.26 crore (Rupees Six hundred ten crore and twenty six lakhs only) for both Water Resources Department and Agricultural Engineering Department with funding assistance of World Bank and Asian

Infrastructure Investment Bank on co-financing basis in the funding pattern of 30(GoTN): 35(WB) : 35(AIIB) and permission to incur the expenditure of DRIP-I spillover works at an estimated cost of Rs.28.12 crore (Rupees Twenty eight crore and twelve lakhs only) from the DRIP II project cost of Rs.610.26 crore.

The project consists of the following 5 components:-

|    |               |  |
|----|---------------|--|
| a) | Component I   | Rehabilitation and Management Planning for Dams and Associated Appurtenances                               |
| b) | Component II  | Dam Safety Institutional Strengthening   |
| c) | Component III | Risk-informed Asset Management and innovative Financing for Sustainable Operation and Maintenance of Dams. |
| d) | Component IV  | Project Management   |
| e) | Component V   | Contingent Emergency Response Component.   |

The Estimate amount in respect of Tamil Nadu Water Resources Department (TNWRD) and Agricultural Engineering Department (AED) in INR are as follows:-

INR in Crore

| Sl. No. | Component                                  | Funding Pattern |                |                | TOTAL          |
|---------|--|-----------------|----------------|----------------|----------------|
|         |  | GOTN (30%)      | WB (35%)       | AIIB (35%)     |                |
| 1.      | <b>TNWRD</b>                               |                 |                |                |                |
| a.      | Component I                                | 147.345         | 171.9025       | 171.9025       | 491.150        |
| b.      | Component II                               | 15.609          | 18.2105        | 18.2105        | 52.030         |
| c.      | Component III                              | 0.00            | 0.00           | 0.00           | 0.00           |
| d.      | Component IV                               | 11.739          | 13.6955        | 13.6955        | 39.130         |
| e.      | Component V                                | 0.00            | 0.00           | 0.00           | 0.00           |
| 2.      | <b>Agricultural Engineering Department</b> |                 |                |                |                |
| a.      | Component I                                | 8.385           | 9.7825         | 9.7825         | 27.950         |
| b.      | Component II                               | 0.00            | 0.00           | 0.00           | 0.00           |
| c.      | Component III                              | 0.00            | 0.00           | 0.00           | 0.00           |
| d.      | Component IV                               | 0.00            | 0.00           | 0.00           | 0.00           |
| e.      | Component V                                | 0.00            | 0.00           | 0.00           | 0.00           |
|         | <b>Total</b>                               | <b>183.078</b>  | <b>213.591</b> | <b>213.591</b> | <b>610.260</b> |

The details of the spillover amount to be transferred to DRIP-II is as follows:-

| Sl. No. | Component    | Spillover Amount in INR in Crore |
|---------|--------------|----------------------------------|
| 1       | Component I  | 21.609                           |
| 2       | Component II | 4.661                            |
| 3       | Component IV | 1.850                            |
|         | <b>TOTAL</b> | <b>28.120</b>                    |

3. In the letter 5<sup>th</sup> read above, the Chief Engineer, Water Resources Department, Operation & Maintenance and State Dam Safety Organisation, Chennai has stated as follows:-

- Based on the orders issued in the G.O. first to third read above regarding the Safety Inspection of Dams, DSRP team had inspected 27 Dams out of total 36 TNWRD dams under DRIP II namely 1) Sathanur 2) Kelavarapalli 3) Mettur 4)Sholayar 5)Upper Nirar 6) Bhavanisagar 7) Aliyar 8) Anaikuttam 9) Gatana 10)Ramanadhi 11)Gundar 12)Vidur 13)Willingdon 14)Manimukhtanadhi 15)Krishnagiri 16)Vaniar 17)Amaravathi 18)Thirumoorthy 19)Lower Nirar 20)Thunakadavu & Peruvaripallam, 21)Parambikulam 22)Kodaganar 23) Ponnaniar 24) Manjalar 25)Sothuparai 26)Shanmughanadhi, 27) Nanganjiar.
- Hence, as of now 9 TNWRD dams are pending which are to be inspected by the DSRP inspection team under DRIP II. It is proposed to have 3 visits during the year 2023-2024 depending on the availability of the DSRP members.
- Authorization has been requested to utilize the balance of Rs.6.17 lakhs out of the amount of Rs.51.00 lakhs sanctioned in the Government Order 2<sup>nd</sup> read above, during 2023-24 for one visit. In addition to that, an amount of Rs. 25.00 lakhs is required (2 visits & additional visit if required for on-going work) towards meeting the expenses in connection with the Safety Inspections of dams by the Dam Safety Review Panel under DRIP Phase II & III until the completion of DRIP Phase III.
- Further the honorarium paid to the DSRP members during the inspection period have been enhanced from Rs. 7,500 to Rs.10,000 in few other DRIP implementing agencies such as Telangana. Accordingly the honorarium to be paid to the DSRP members has been proposed to be increased from Rs. 7,500/- to Rs. 10,000/-.
- Meanwhile, in the DRIP implementation strategy workshop held during 8<sup>th</sup> & 9<sup>th</sup> February, 2023, reallocation has been done in the already allocated fund for Implementation Agencies. Accordingly Tamil Nadu has been allocated a sum of

Rs. 303 crore as a part of DRIP II & Rs. 307 crore for DRIP III. Agency wise allocations (cabinet/ state), component wise allocations, PSTs approved, bids awarded, procurement on pipeline were discussed. In order to board the new states into the project, the allocation to the present states/ Implementing Agencies has been restricted to the cabinet approval amount for each state. Accordingly, component wise allocation made for Tamil Nadu is detailed below:-

| IA    | Union Cabinet allocation (Cr) |        |        | State Cabinet allocation (Cr) | Revised DRIP-2 allocation (Cr) | Component wise allocation in Crore |      |       |      |
|-------|-------------------------------|--------|--------|-------------------------------|--------------------------------|------------------------------------|------|-------|------|
|       | Total                         | DRIP-2 | DRIP-3 |                               |                                | A I                                | B II | C III | D IV |
| TNWRD | 610                           | 303    | 307    | 610                           | 303                            | 268                                | 10   | 5     | 20   |

The funds for meeting the above expenses shall be met from the allocation made for Project Management under Component D of DRIP Phase II.

4. The Chief Engineer, Water Resources Department, Operation and Maintenance and State Dam Safety Organisation (SDSO), Chennai has also stated that the following proposals were submitted to the empowered committee through 7<sup>th</sup> circulation and the committee approved the proposals on 06.07.2023 :-

- 1) Administrative Sanction of Rs. 25.00 lakhs to meet the expenses in connection with the Inspection of dams by the Dam Safety Review Panel under DRIP Phase II from 1.4.2023 until the completion of the DRIP Phase II.
- 2) Continuation of delegation of the powers of the Project Director, SPMU and the members of the Dam Safety Review Panel as entitled in the Government Order No: 153, Water Resources (WR1) Department dated: 10.06.2022 issued pertaining to DSRP till completion of DRIP II.
- 3) Enhancement of the honorarium to be paid to the DSRP members from Rs. 7500 to Rs. 10,000/-.
- 4) Delegation of powers to the Project Director, SPMU for arranging the inspection of any dam which has already been inspected by the DSRP team and if it requires further investigation and also to the on-going rehabilitation works which requires special inspection shall be arranged with any member from the DSRP team as decided by the Project Director, SPMU based on the field requirement in consultation with respective dam Engineers.

5. The Chief Engineer, Water Resources Department, Operation and Maintenance and State Dam Safety Organisation (SDSO), Chennai has therefore requested the Government to accord sanction for the proposals, approved by the empowered committee.

6. Based on the approval of the Empowered Committee, the Government have decided to accept the proposal of the Chief Engineer, Water Resources Department, Operation and Maintenance and State Dam Safety Organisation (SDSO), Chennai and hereby accord,

- a) Administrative and Financial Sanction for an amount of Rs.25.00 lakh (Rupees Twenty five lakh only) to meet the expenses in connection with the Inspection of dams by the Dam Safety Review Panel under DRIP Phase II from 1.4.2023 until the completion of the DRIP Phase II.
- b) Sanction for Continuation of delegation of the powers of the Project Director, SPMU and the members of the Dam Safety Review Panel as entitled in the G.O third read above issued pertaining to DSRP till completion of DRIP II.
- c) Sanction for Enhancement of the honorarium to be paid to the DSRP members from Rs. 7500 to Rs. 10,000/-.
- d) Sanction for Delegation of powers to the Project Director, SPMU for arranging the inspection of any dam which has already been inspected by the DSRP team and if it requires further investigation and also to the on-going rehabilitation works which requires special inspection shall be arranged with any member from the DSRP team as decided by the Project Director, SPMU based on the field requirement in consultation with respective dam Engineers.

7. The expenditure sanctioned at para6 above shall be debited to the following head of account:-

“2701 – Medium Irrigation – 80 General – 001 Direction and Administration – Externally Aided Projects – PB – State Project Management Unit under DRIP – 333 Payments for Professional and Special Services – 03 Special Service.”

(IFHRMS DPC :2701 –80–001–PB–33303).

8. Necessary additional Funds of Rs.25,00,000/- will be provided in RE/FMA 2023-2024. However, it shall be brought to the notice of Legislature by a **Specific Inclusion** in the Supplementary Estimate 2023-2024. Pending provision of such funds, the Engineer-in-Chief and Chief Engineer (General), Water Resources Department, Chennai is directed to incur the above said expenditure. He is also directed to include the above item of expenditure while sending the Budget proposal for RE/FMA 2023-2024 and also send necessary draft Explanatory Note for Specific Inclusion in the Supplementary Estimate 2023-2024 to Finance (BG-I/Infra-II) Department at an appropriate time without fail.

