



ABSTRACT

Tamil Nadu Water Resources Department - Dam Rehabilitation and Improvement Project (DRIP) – World Bank – Asian Infrastructure Investment Bank (AIIB) - Dam Safety Inspection Report of Tamil Nadu Water Resources Department dams –Extension of Validity of the Dam Safety Review Panel (DSRP) with Old and new members for the period from 1.4.2022 to until completion of the Dam Rehabilitation and Improvement Project-II and III and Delegation of Powers with reference to Dam Safety Review Inspection - Administrative Sanction - Accorded – Orders – Issued.

Water Resources (WR 1) Department

G.O.(D) No.153

Date :10.06. 2022

**சுபகிருது வைகாசி 27
திருவள்ளூர் ஆண்டு 2053**

Read:-

1. G.O.(Ms) No.246, Public Works (WR1) Department, Dated 23.12.2019.
2. G.O.(Ms) No.35, Public Works (WR1) Department, dated 24.1.2020.
3. G.O.(Ms) No.173, Public Works (WR1) Department, dated 14.7.2020.
4. G.O.(Ms) No.189, Public Works (WR1) Department, dated 29.10.2021.
5. From the Chief Engineer, Operation and Maintenance, Water Resources Department Letter No. DS/0832 (DRIP-II)/E.C.April 2022)-2/2017, dated 11.4.2022.

ORDER:

In the Government Order first read above, sanction was accorded for constitution of the Dam Safety Review Panel with 6 members for inspection of Water Resources Department dams of Tamil Nadu under Dam Rehabilitation and Improvement Project Phase II and III for 3 years, i.e., from 01.04.2019 to 31.03.2022.

2. In the Government Order second read above, sanction was accorded to constitute an additional team for Dam Safety Review Panel (DSRP II) with 8 experts for inspection of Dam Rehabilitation and Improvement Project Dams and to delegate the powers to the Project Director, State Project Management Unit, Dam Rehabilitation and Improvement Project to interchange the members of the DSRP Team-I and DSRP Team-II considering the availability of the individual members to proceed with the inspection of Dam Rehabilitation and Improvement Project Dams based upon the requirement.

3. In the Government Order third read above, permission was accorded for inclusion of the 3 new members provisionally for Dam Safety Review Panel-II (DSRP-II) for inspection of DRIP Dams until the pandemic situation revokes and to nominate Shri.R.Selvam, Former Chief Engineer, Tamil Nadu Water Resources Department to act as the Chairman of the

Dam Safety Review Panel among the Home state members for the Inspection of DRIP –II dams.

4. In the Government Order fourth read above, Administrative and Financial Sanction was accorded for an amount of Rs.51.00 lakhs to meet the expenses in connection with the Inspection of dams by the Dam Safety Review Panel under DRIP Phase II and III for a period from 01.04.2021 to 31.03.2022 and Sanction for Delegation of powers to the Project Director, State Project Management Unit (SPMU) for deciding the dams to be inspected in each vicinity and selection of Dam Safety Review Panel (DSRP) members based on field requirements for each visit.

5. In the letter 5th read above the Chief Engineer, Water Resources Department, Operation and Maintenance has stated that based on the above said Government orders the Dam Safety Review Panel (DSRP) team had inspected 11 Tamil Nadu Water Resources Department dams under DRIP II namely Sathanur, Kelavarapalli, Mettur, Sholayar, Upper Nirar, Bhavanisagar, Aliyar, Anaikuttam, Gatana, Ramanadhi and Gundar. As per the DSRP inspection reports, the Project screening Template for 5 dams have been prepared and approved by the World Bank. Subsequently, Government have issued Orders for rehabilitation works in lieu with the recommendation as proposed by DSRP for Sathanur, Sholayar and Upper Nirar dams for an estimated cost of Rs.90 crore, Rs.106.30 crore and Rs.14.55 crore respectively. The validity of employing the experts under DSRP constituted was expired on 31.3.2022. In the Para 42 of negotiated Project Appraisal Document (PAD) for DRIP II of the World Bank dated: 21.10.2020 (Report No: PAD3729) it has been stated that "Interventions and required additional studies for selected dams have been identified based on the recommendations of the DSRP and revised hydrology studies". Each selected dam is inspected by an independent Dam Safety Review Panel (DSRP) and its design flood is reviewed and revised. The design flood review complies with the latest standards, incorporates currently available data, and must be approved by Central Water Commission.

6. The Chief Engineer, Water Resources Department, Operation and Maintenance has also stated that it has been proposed to extend the validity of the DSRP membership with old and new members from 01.04.2022 to up to the project period of DRIP-II & III, for the dams proposed under DRIP II and III. Accordingly the DSRP members have been identified based on their remarkable and astounding expertise and their consent to be part of the DSRP membership has been acquired. Hence, an agenda for reconstitution of the Dam Safety Review Panel (DSRP) under DRIP II & III from April 2022 to till closure of DRIP II & III was prepared. The agenda consists of the following:-

a) The members of the proposed DSRP Committee are as follows:-

S.No.	Name	Domain of Expertise
1)	Dr. B. K. Mittal, Former Chairman, Central Water Commission, New Delhi	Chairman of the Committee and Hydrologist and Dam Design Expert

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

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

- (b) To provide honorarium as sitting fee at the rate of Rs.7500/- per day for each day of block visit undertaken by the Dam Safety Review Panel committee and period of the journey, sanction to provide airfare, boarding and lodging charges to the members of the Dam Safety Review Panel committee as per rules in force.
- (c) The Project Director, State Project Management Unit shall be delegated with powers to decide the number of visits required in a year, list of dams to be inspected in each visit and the DSRP members proposed for each visit based on the availability of the members, field requirements and situations warranted. In addition to the remaining dams to be inspected, if any new proposal pertaining to the inclusion of any new dam under DRIP-II has been found to be of acute importance, then the Project Director, State Project Management Unit shall be deemed to be vested with the power to carry out the Dam Safety Review Panel inspection of those dams with the experts already empanelled.
- (d) Considering the expertise of the members from the above list of Dam Safety Review Panel (DSRP) for DRIP their service shall be rendered by the Tamil Nadu Water Resources Department in order to carry out a comprehensive Dam Safety Review once in 10 years for both DRIP and non-DRIP dams as per the "Guidelines for Safety Inspection of Dams, January 2018" issued by the Central Dam Safety Organisation of the Central Water Commission.

- (e) The Project Director, SPMU and the Director/ Superintending Engineer, Dam Safety Directorate, TNWRD shall be delegated with the powers to constitute the panel suitably based on the availability of the members at the time of inspecting non-DRIP dams. The expenditure towards the visit of DSRP may be charged from the DRIP –II fund as long as the DRIP-II Project is in operation and thereafter from the Budget provided to the State Dam Safety Directorate.
- (f) As the pandemic situation prevails throughout the country and the infection cases proliferate at times of any new variant biannually, it has been tedious to organize the members and make them travel throughout the length and breadth of the country. Hence at times when there is a sudden surge in the infection and also considering the imposition of the travel conditions, it has been concurred by the Central Project Management Unit (CPMU) to carry out the DSRP inspection by the members belonging to the home state ie., Tamil Nadu. Hence powers shall be delegated to the Project Director, SPMU for constituting the DSRP with home state members and designating the Chairman to the team to proceed for Dam Safety Inspection under DRIP-II during the pandemic situation.

The above proposals was prepared and placed before the Empowered Committee of DRIP through 4th circulation. The Empowered Committee has approved the proposal.

7. The Chief Engineer, Water Resources Department, Operation and Maintenance, has therefore requested the Government to accord sanction,

- 1) To extend the validity of the DSRP with old and new members for carrying out the Dam Safety Inspection from 01.04.2022 to until the completion of the DRIP II & III, as listed at para 6(a) above.
- 2) for Delegation of powers to the Project Director, SPMU for deciding the dams to be inspected in each vicinity and selection of DSRP members from the above approved list based on their availability and field requirements for each visit.
- 3) for considering the members such that their service shall be utilised 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, as listed at para 6(a) above.
- 4) for Delegation of powers to the Project Director, SPMU for constituting the DSRP with home state members and designating the Chairman to the team to proceed for Dam Safety Inspection under DRIP during the pandemic situation.

- 5) To provide honorarium as sitting fee at the rate of Rs.7500 per day, for each day of block visit undertaken by DSRP Committee and period of the journey, sanction to provide airfare, boarding and loading charges to the members of DSRP Committee as per rules in force.

8. Based on the approval of the Empowered Committee, the Government have decided to accept the proposal of the Chief Engineer, Operation and Maintenance, Water Resources Department and hereby accord Sanction,

- 1) To extend the validity of the Dam Safety Review Panel (DSRP) with old and new members for carrying out the Dam Safety Inspection from 01.04.2022 to until the completion of the DRIP II & III, as listed at para 6(a) above.
- 2) for Delegation of powers to the Project Director, State Project Management Unit for deciding the dams to be inspected in each vicinity and selection of DSRP members from the above approved list based on their availability and field requirements for each visit.
- 3) for considering the members such that their service shall be utilised 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, as listed at para 6(a) above.
- 4) 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.
- 5) To provide honorarium as sitting fee at the rate of Rs.7500 per day, for each day of block visit undertaken by Dam Safety Review Panel (DSRP) Committee and period of the journey, sanction to provide airfare, boarding and loading charges to the members of Dam Safety Review Panel (DSRP) Committee as per rules in force.

9. This order issues with the concurrence of the Finance Department vide its U.O. No.22022/PW-II/2022, dated 07.06.2022.

(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, Operation and Maintenance,
Water Resources Department, Chennai-5.
The Project Director, State Project Management Unit,
Dam Rehabilitation and Improvement Project, Chennai-113

The Principal Accountant General (Audit / A&E), Teynampet, Chennai-18.
The Pay and Accounts Officer (East/ South), Egmore, Chennai-8./ Chennai-35.

Copy to:-

The Finance (PW.II/BG-I) Department, Chennai – 9.
The Resident Audit Officer, Office of the Principal Accountant General
(General and Social Sector Audit),
Secretariat, Chennai – 9.
Stock File / Spare Copy

//FORWARDED BY ORDER//

M. Manikavelu
12/06/2022
SECTION OFFICER

T 10.6.2022