

GOVERNMENT OF INDIA
MINISTRY OF JAL SHAKTI

DEPARTMENT OF WATER RESOURCES, RIVER DEVELOPMENT & GANGA REJUVENATION
RAJYA SABHA

UNSTARRED QUESTION NO. 2026

ANSWERED ON 07.08.2023

MANAGEMENT OF SEDIMENTATION IN RESERVOIRS

2026. SHRI IRANNA KADADI

Will the Minister of **JAL SHAKTI** be pleased to state:

- (a) the data on total number of projects in the country for management of sedimentation in reservoirs;
- (b) the data on total number of projects in the country for management of sedimentation in rivers;
- (c) the details of expenditure incurred by Government to develop infrastructure for management of sedimentation in reservoirs and rivers in Karnataka;
- (d) the State-wise data on management of sedimentation in water bodies; and
- (e) the measures which have been taken by Government to implement National Framework for Sediment Management?

ANSWER

THE MINISTER OF STATE FOR JAL SHAKTI

(SHRI BISHWESWAR TUDU)

(a) & (b) Water being a State subject, information related to management of sedimentation in reservoirs and rivers are available with the concerned State Governments or dam owners.

Further, the externally funded Dam Rehabilitation and Improvement Project (DRIP) Phase-I implemented during 2012-2021 had provision for need based de-siltation of few reservoirs to restore their lost capacity to the extent possible. Currently, DRIP Phase II and III scheme (2021-2031) is being implemented and this scheme has provision similar to DRIP Phase-I for carrying out need based de-siltation of selected reservoirs. The sediment management interventions under the scheme include inter-alia catchment area treatment, de-siltation of reservoirs etc. The rehabilitation and de-siltation activities to be undertaken under the Scheme are formulated by the concerned State Agency. DRIP-II and III Scheme has provision for Catchment area treatment of four reservoirs of Tamil Nadu namely Vaigai, Nanganjiyar, Parappalaru, Kodaganar at a cost of Rs 109 Crore; 2 reservoir of Bhakra Beas Management Board namely Bhakra Dam and Pong Dam at cost of Rs 100 Crore, de-siltation of Bhakra reservoirs at cost of Rs 80 Crore and de-siltation of two dams of TANGEDCO namely Papanasam and Kundah Palam at cost of Rs 100 Crore.

Moreover, Central Water Commission(CWC) is involved in “Estimation of Sedimentation in Live storage and Dead storage zones of Reservoirs using Remote Sensing and Hydrographic Techniques”.

So far, CWC has conducted 58 Sedimentation Studies using Hydrographic Technique and 181 Sedimentation Studies using Remote Sensing Technique. Apart from this, most of States and Central PSUs are conducting the sedimentation survey of dams under their control at regular intervals.

(c) It has been informed by the Government of Karnataka that Karnataka Engineering Research Station under Water Resource Department has been conducting Silt & sedimentation survey for various reservoirs in Karnataka State viz. Tungabhadra, Malaprabha, Bhadra, Ghataprabha/ Hidkal, Almatti, Hippargi, Narayanapura/ Basavasagara, Krishnaraja Sagar, Kabini, Harangi & Hemavathy. Rs. 1.82 Crores has been incurred so far for conducting reservoir sedimentation survey of 7 reservoirs in Karnataka under National Hydrology Project.

(d) The state-wise data on assessment of sedimentation in reservoirs has been compiled in “COMPENDIUM ON SEDIMENTATION OF RESERVOIRS IN INDIA 2020” published by CWC. The compendium is available on CWC website at <http://cwc.gov.in/other-publications-cwc>.

(e) A National Framework on Sediment Management (NFSM) has been notified by DoWR, RD&GR, Ministry of Jal Shakti, Government of India for comprehensive and holistic management of sediment by the State Govt./ Project Authorities/ Other Ministries. The framework inter-alia addresses management of sedimentation in reservoir in detail. In this regard, National Workshop on Sediment Management was organised by Ministry of Jal Shakti on June 19, 2023 to sensitize all stakeholder about the present critical issues of sedimentation in rivers and reservoirs.
