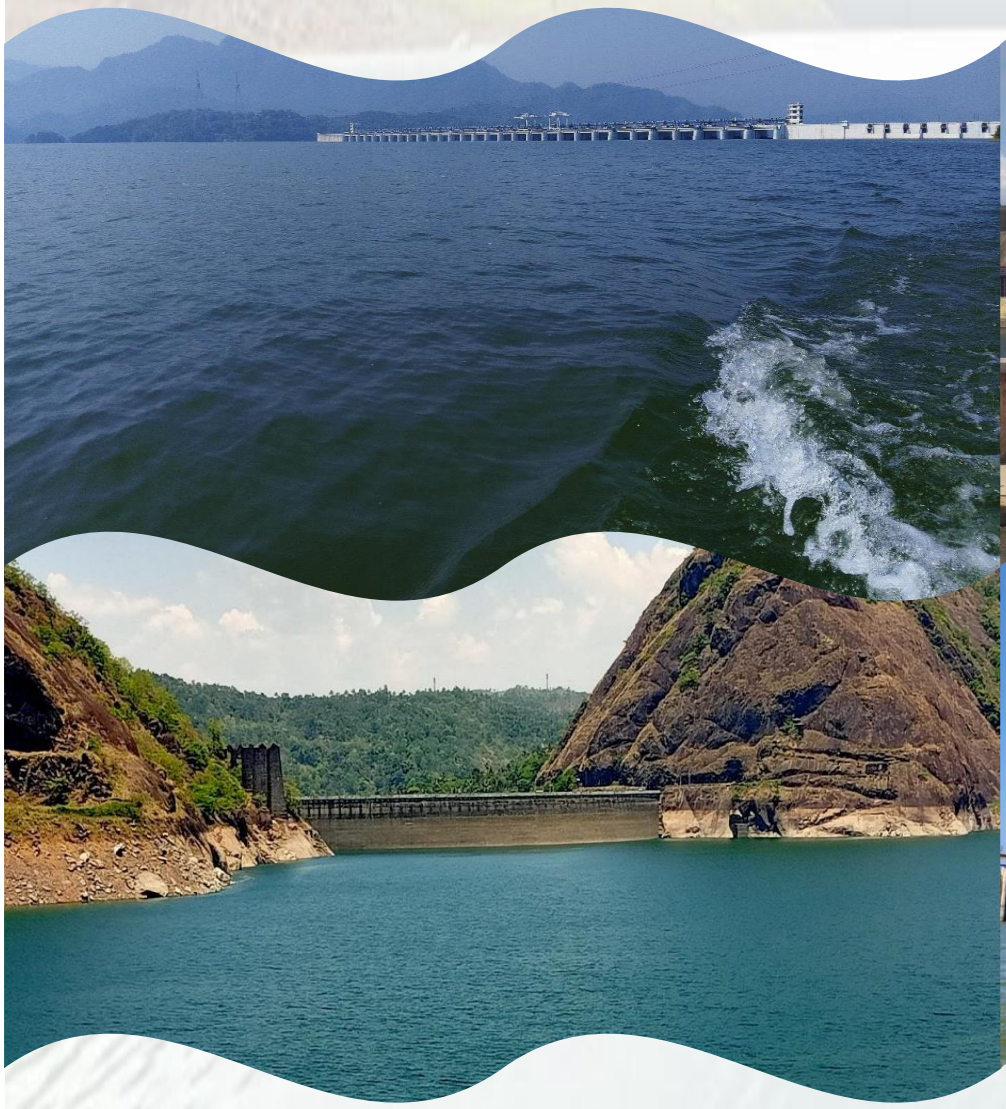
सत्यमेव जयते

GOVERNMENT OF INDIA
MINISTRY OF JAL SHAKTI
DEPARTMENT OF WATER RESOURCES,
RIVER DEVELOPMENT & GANGA REJUVENATION

COMPENDIUM ON SEDIMENTATION OF RESERVOIRS IN INDIA



केन्द्रीय जल आयोग
CENTRAL WATER COMMISSION
आपो ज्योति रसोऽमृतम्

CENTRAL WATER COMMISSION
NEW DELHI
AUGUST, 2024

COMPENDIUM ON SEDIMENTATION OF RESERVOIRS IN INDIA

CENTRAL WATER COMMISSION

NEW DELHI-110066

AUGUST, 2024

CWC PRN: CWC/2024/118

MESSAGE

Shri C R Paatil

Hon'ble Minister of Jal Shakti

Sediment accumulation in reservoirs is a critical concern for Water Resources Projects. A comprehensive understanding of sedimentation rates, silt deposition patterns, and catchment erosion vulnerability is essential to ensure the continued functionality of existing dams beyond their intended lifespan and to design new ones with adequate sediment accumulation provisions for improved performance.

Reservoir capacity surveys are conducted to obtain more accurate estimates of sedimentation rates, updating the elevation-area-capacity relationship and establishing reliable criteria for assessing the annual loss of storage over a defined period. Furthermore, they aid in the planning of sediment control measures.

Central Water Commission has brought out fifth edition of "Compendium on Sedimentation of Reservoirs in India". I take profound pleasure in presenting this publication "Compendium on Sedimentation of Reservoirs in India". I would like to complement Shri Kushvinder Vohra, Chairman (CWC), for his initiatives and officers and staff of Central Water Commission for their efforts in bringing out this publication.

I hope that this publication will be useful in understanding the sediment deposition scenario in the country. It will be helpful in planning of future projects as well as better management of existing reservoirs.

(C.R. PAATIL)

FOREWORD

Ms. Debashree Mukherjee

Secretary

Department of WR, RD, & GR

Ensuring the optimal management of water resources is paramount in light of development and the increasing demands for water for agriculture, domestic and industrial use. To achieve effective and cost-efficient management of our water resources, it is essential to regularly update systems for assessing and analysing data. These systems provide a comprehensive overview of the sector's performance over time.

A river can be seen not only as a body of flowing water but also as one of flowing sediments. When a dam is constructed across a river, the sediments it carries settle in the reservoir and the dam gradually loses its ability to store the intended amount of water. Conducting capacity surveys of reservoirs at regular intervals is essential for evaluating their remaining lifespan and ensuring optimal reservoir operations. Central Water Commission has prepared this publication "Compendium on Sedimentation of Reservoirs in India 2024" analysing data of 548 reservoirs. Analysis of data of reservoirs composes of both the Hydrographic technique as well as remote sensing technique.

I acknowledge and congratulate officers and staff of Central Water Commission under the leadership of Shri Kushvinder Vohra, Chairman, CWC for their efforts in preparing this publication.

(DEBASHREE MUKHERJEE)

OVERVIEW OF THE REPORT

Sh. Kushvinder Vohra

Chairman,
Central Water Commission

Optimal management of water resources is the prime necessity of the time in the wake of development and growing need of the population. Dams/Reservoirs have played a significant role in development of the country. Dams are instrumental in generation of electricity, provide water for irrigation, households and industries.

Sedimentation has impacted storage capacity of the reservoirs, thus affecting their performance and reducing their benefits. Removal of deposited silt from the reservoirs is very expensive and the extracted silt has environmental impacts also. Thus, reduction of silt deposition either by reduction in erosion from the catchment or by preventing deposition of silt in the reservoir are the only viable solution. In-depth knowledge of quantum and pattern of silt deposition and details of vulnerable areas of catchment is necessary to manage the sedimentation of reservoirs to ensure that the dams serve the intended purpose as long as possible.

Reservoir capacity surveys are conducted for more realistic estimates of the rate of sedimentation for updating the elevation-area-capacity relationship and to provide reliable criteria for studying the implication of annual loss of storage over a period of time. It also helps in proper estimation of loss of storage at the planning stage itself besides evaluating the effectiveness of soil conservation measures carried out in the catchment area of River Valley Projects.

Central Water Commission and concerned project authorities/ State Govts. have conducted capacity survey for several reservoirs. To arrive at an understanding, national/regional sedimentation data collection and analysis is essential.

First edition of this publication was brought out in

the year 1991 with data of 96 reservoirs, second edition was published in the year 2001 with data of 144 reservoirs, third edition published in the year 2015 had data of 243 reservoirs and fourth edition published in the year 2020 had data of 369 reservoirs. The present document is the fifth edition of compendium,

In this edition, capacity survey of 548 reservoirs conducted with Hydrographic Survey as well as Satellite Remote Sensing (SRS) technique has been analysed. Out of these 548 reservoirs, 466 reservoirs have been surveyed by hydrographic technique. For the analysis on gross storages the data of 439 reservoirs which were found workable has been used.

Based on the analysis of 439 reservoirs, the average annual percentage loss of gross storage is about 0.74%. To understand the sedimentation scenario for small reservoirs, similar analysis has been performed on a subset of 170 reservoirs which have their original gross storage capacity less than or equal to 20 MCM. The average annual percentage loss of gross storage is about 0.97% for small reservoirs.

The analysis on the live storage has been conducted on a subset of 330 reservoirs for which data was available. The average annual percentage loss in live storage comes out to 0.49%. Further, analysis of small reservoirs (less than & equal to 20MCM gross capacity) shows that average annual percentage loss in live storage is 0.77%.

The capacity survey data is also very useful in designing and finalization of capacities at different elevations of the reservoir. In general, dead storage capacity is decided to accommodate sediments for 100 years. Thus, analysis of the capacity data has been conducted for assessment of annual sediment deposition rates in volumetric terms (Thousand m^3/Sq. Km/Year) on national as well as regional levels. The sedimentation rate is affected by multiple factors like hydrometeorology, physiographic and climate etc. Considering these factors, the whole country has been divided into 7 regions.

Average sediment deposition rate in gross storage for India comes out to 1.62 Thousand m^3/Sq. Km/Year. Maximum average sediment deposition rate in gross storage is observed for region 7 i.e. West flowing rivers beyond Tapi and South Indian Rivers with the value of 3.37 Thousand m^3/Sq. Km/Year.

Similar analysis for Average sediment deposition rate has been conducted on subset of 170 small reservoirs also. Average sediment deposition rate in gross storage for small reservoirs (less than equal to 20 MCM) in India comes out to 1.09 Thousand m^3/Sq. Km/Year.

A comparison between the designed rates of sedimentation to the observed rate of sedimentation has been done for a subset of 103 reservoirs. It is observed that the actual rate of sedimentation is more than the design rate of sedimentation in most of the reservoirs. It can be attributed to lack of reliable data of sedimentation at the time of planning. This highlights the necessity of analysis and publication of

documents like “Compendium on Reservoir Sedimentation” which provides insight of rate of sedimentation to the designers.

This fifth edition of “Compendium on Sedimentation of Reservoirs in India 2024” is the culmination of the tireless efforts put in by officers of core group and meticulous supervision by the steering group. The Central Water Commission expresses gratitude to all state government authorities and other institutes for their contributions of data on reservoir capacity surveys.

(KUSHVINDER VOHRA)

ACKNOWLEDGEMENTS

Shri Navin Kumar

Member (WP&P)
Central Water Commission

The Compendium on Sedimentation of Reservoirs in India has been published by CWC in year 1991, 2001, 2015 and 2020. The present compendium is fifth edition in the series. It contains data of capacity survey of 548 reservoirs conducted through hydrographic survey as well as remote sensing technique. I hope the Compendium on Sedimentation of Reservoirs in India, 2024 will prove to be useful to the administrators and project planners in the water management sector.

I would like to express my deepest gratitude to Shri Kushvinder Vohra, Chairman, CWC for providing the necessary impetus and guidance to develop such a valuable publication. I would also like to express appreciation to Shri Ashok Kharya, Chief Engineer, EMO and Shri Rishi Srivastava, former Chief Engineer, EMO for their valuable suggestions and guidance.

I would also like to compliment Shri Alok Paul Kalsi, Director, Shri Sudhanshu Mahalwal, Deputy Director, and other staff members of WS&RS Dte for bringing out this publication.

On behalf of WP&P wing, Central Water Commission, I wish to express my sincere thanks to officers of State Governments, project authorities and NPMU-NHP for supplying the data on capacity survey of reservoirs.

Any suggestion and feedback for further improvement, both in the content and coverage, will be highly appreciated.

नवीन कुमार

(Navin Kumar)

TEAM OF OFFICERS OF CENTRAL WATER COMMISSION

STEERING GROUP	Shri Kushvinder Vohra, Chairman, Central Water Commission and Ex-officio Secretary to Govt of India Shri Navin Kumar, Member, WP&P Wing, Central Water Commission and Ex-officio Additional Secretary to Govt of India Shri Rishi Srivastava, Former Chief Engineer, Environment Management Organisation, Central Water Commission Shri Ashok Kharya, Chief Engineer, Environment Management Organisation, Central Water Commission
CORE GROUP	Shri Alok Paul Kalsi, Director, Watershed & Reservoir Sedimentation Directorate, CWC Shri Sudhanshu Mahalwal, Deputy Director, Watershed & Reservoir Sedimentation Directorate, CWC Shri Abhinav Kumar, Deputy Director, Watershed & Reservoir Sedimentation Directorate, CWC Shri M. Ramakrishnan, Assistant Director, Watershed & Reservoir Sedimentation Directorate, CWC Shri Piyush Kumar Tripathi, Assistant Director-II, Watershed & Reservoir Sedimentation Directorate, CWC

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1. INTRODUCTION

After independence, the Government of India laid emphasis on construction of large dams which were called "Temples of Modern India" intended to store rainwater for year–round use for agriculture, municipal water supply, industry, hydropower, fishers, recreation etc. Over the last seventy five years, India has invested heavily in critical infrastructure necessary to store surface runoff in reservoirs formed by large, medium, and small dams with associated appurtenances.

India has completed about 6138 large dams and 143 large dams are under various stages of construction as per National Register of Large Dams published by Central Water Commission in 2023. In addition to this, thousands of medium and small dams have also been constructed in the country. Presently, India is ranked 3rd in number of large dams following China and United States of America. The country-wise distribution of large dam for some of the countries including India is shown in Figure-1.

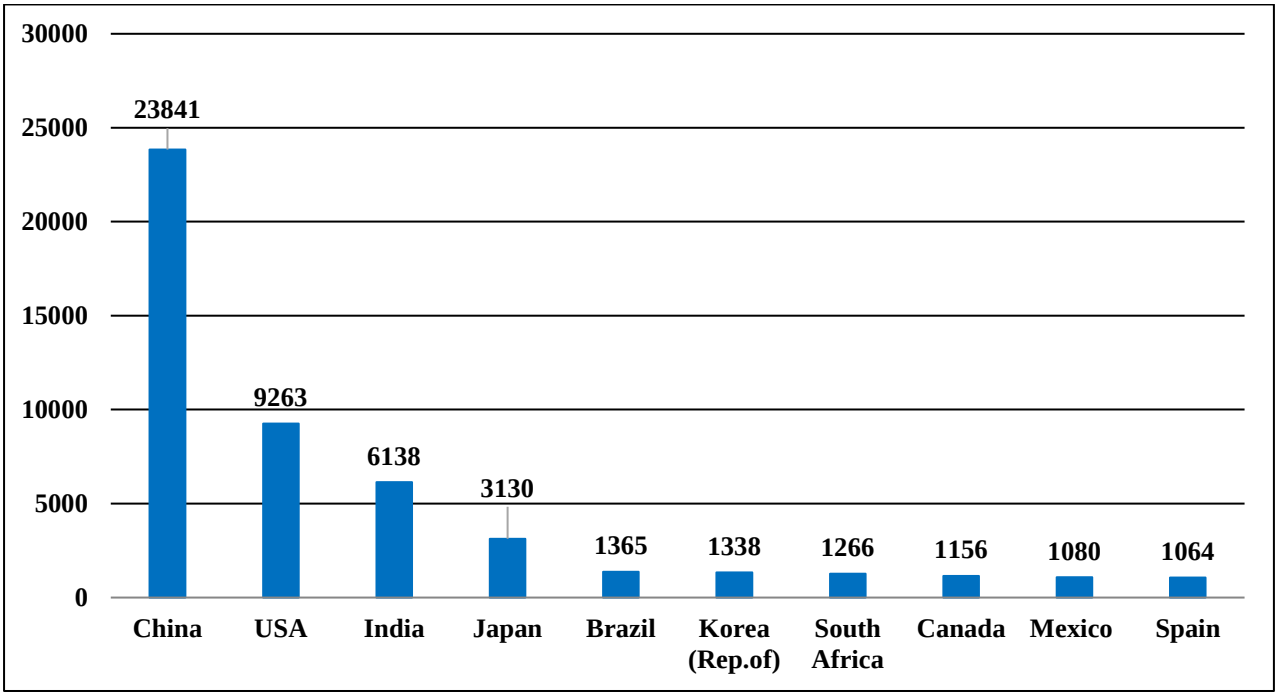
Sedimentation in a dam is a natural phenomenon and it reduces the storage capacity of the reservoirs. In India, Old dams have traditionally been designed with provision of sediment storage pool volume (dead storage) with a certain design life, typically 50 or 100 years. The volume of dead storage were determined by sedimentation rate and trap efficiency.

The annual reservoir storage loss globally due to sedimentation is around 0.5 to 1 % in average but varies easily between 0 and 5% depending on the location. The ICOLD Bulletin no. 147 on "Sedimentation and Sustainable use of reservoirs and river systems", 2009, provide observed rate of sedimentation for different countries along with the global average rate of Sedimentation which comes out to 0.96%/yr. The observed sedimentation rate for India has been mentioned as 0.72 %/yr which is well below the world average. The Graph has been placed at Figure-2.

In ICOLD 2009 publication, details for sedimentation work for India was taken from "Compendium of reservoir sedimentation in India" published by Central Water Commission in 2001. The ICOLD publication states that *"The quality of information available and the research that has been conducted in India should be considered the benchmark, the standard to which other countries should strive. India was seen to have conducted extensive research and sedimentation surveys for various regions already".*

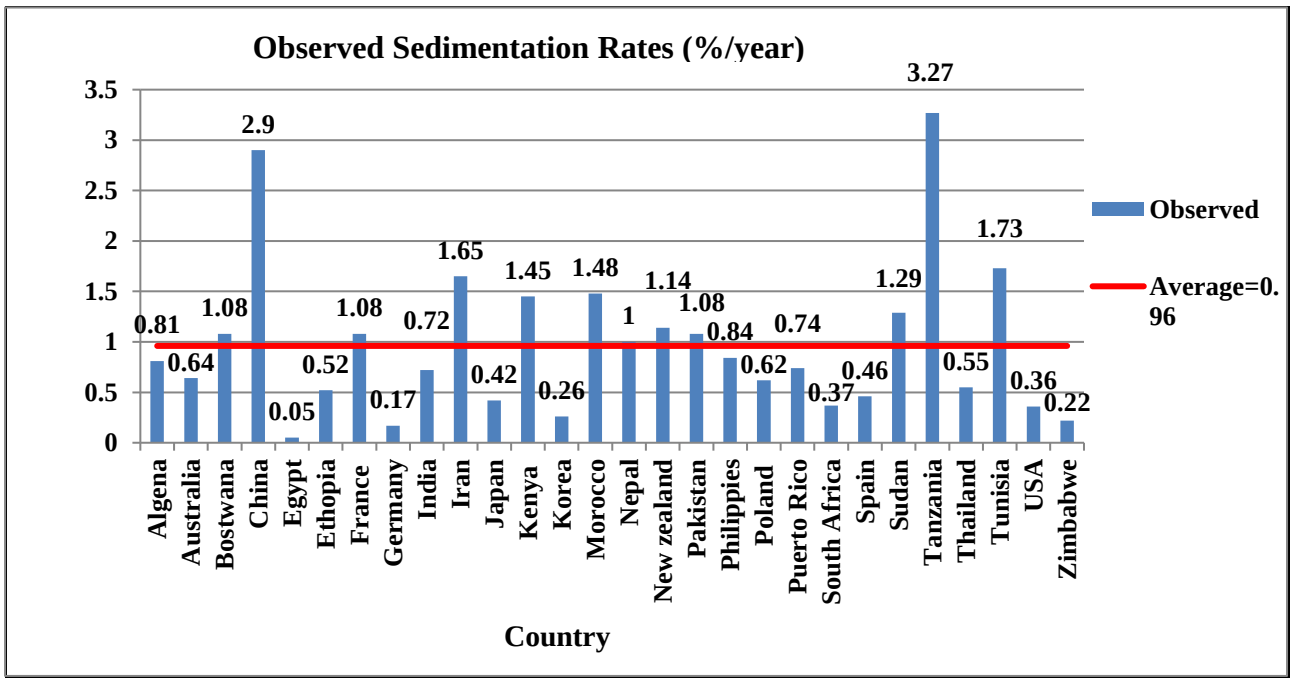
Half of the dams in India are more than 25 years old. As the ageing dams approach the end of their original design lives, depletion of their storage capacity due to sedimentation will cause water scarcity. Assessment of sedimentation in reservoirs and its rate therefore become very crucial to know the actual storage capacity of the reservoirs.

Ministry of Agriculture and Irrigation (Department of Irrigation), Government of India had set up a Reservoir Sedimentation Committee in February 1978 under the Chairmanship of Member (WR), Central Water Commission. The Committee submitted its report in July 1982 and made several recommendations in consultation with various departments concerned. The report incorporating the Government of India's decisions which are mainly broad and long term measures have been circulated to all state governments for implementation. One of the



Source: ICOLD Bulletin no. 147 on "Sedimentation and sustainable use of reservoirs and river systems", 2009 & NRLD 2019

Figure-1: Country-wise distribution of large dams for some of the countries



Source: ICOLD Bulletin no. 147 on "Sedimentation and sustainable use of reservoirs and river systems", 2009

Figure-2: Observed sedimentation rate for some of the countries in the world

recommendations of the Committee was to conduct capacity survey for all major reservoirs on regular intervals of once in 5 years.

Central Water Commission has published "Handbook for Assessing and Managing Reservoir Sedimentation" in year 2019 which describes a wide range of approaches regarding the sedimentation issues and its management. Further, a “National Framework on Sediment Management (NFSM)” has been published by Department of Water Resources, River Development & Ganga Rejuvenation, Ministry of Jal Shakti, for comprehensive and holistic management of sediment including reservoirs sedimentation by the State Governments/Project Authorities/Other Ministries.

2. SEDIMENTATION IN RESERVOIRS

Sedimentation is a process whereby soil particles are eroded and transported by flowing water or other transporting media and deposited as layers of solid particles in water bodies such as reservoirs and rivers. It is a complex process that varies with various factors such as watershed sediment yield, rate of transportation and mode of deposition etc. Sediment deposition reduces the storage capacity and life span of reservoirs.

2.1 PROCESS OF SEDIMENTATION IN RESERVOIRS

Sedimentation in reservoir is caused by the Sediment transport brought by the river from the catchment area upstream of the reservoir. This phenomenon of sediment transport can affect substantially the design of reservoirs. Any storage project consists of two main storage zones, one live storage zone and second is Dead Storage Zone. The Dead Storage is a provision purposefully kept while designing a project to accommodate the silt coming from upstream catchment. The size of dead storage depends upon the characteristics of the catchment, hydrology of the area, shape & size of reservoir, and the size of the catchment. As per the old practice the dead storage size (while designing) used to be kept as to accommodate the silt for 100 years of project life assuming a certain design rate of sedimentation which is determined by the type of catchment, actual sedimentation rate which is observed in nearby existing reservoirs and the silt measurement. The sedimentation above Dead Storage Zone reduces the live storage capacity of the reservoir and any significant reduction in the live storage capacity may hamper some of its designated functions. As long as the actual rate of sedimentation is less than the design rate of sedimentation that is perfectly fine because the designed project life is not reduced.

As water enters a reservoir, its velocity diminishes because of the increased cross-sectional area of the channel. If the water stored in the reservoir is clear and the inflow is muddy, the two fluids have different densities and the heavy turbid water flows along the channel bottom towards the dam under the influence of gravity. This condition is known as "stratified flow" and the underflow is called a "density current". A large proportion of the transported silt eventually gets deposited at different levels of a reservoir and causes reduction not only in dead storage but also in live storage capacities. Figure-3 shows conceptual sketch of density current in a reservoir.

Earlier it was believed that sediment always gets deposited in the bottom elevations of reservoir affecting the dead storage rather than depositing throughout the full range of reservoir depth. It is now fully realized that deposition takes place throughout the reservoir reducing the incremental capacity at all elevations. Longitudinal depositions patterns in the reservoir will vary from one reservoir to another as influenced by pool geometry, discharge and grain size characteristic of the inflowing load and reservoir operation. There can be four types of depositing patterns in the reservoir as shown in Figure-4.

Delta deposits contain the coarsest fraction of the sediment load, which is rapidly deposited at the zone of inflow. It may consist entirely of coarse sediment or may also contain a large fraction of finer sediment such as silt. Wedge-shaped deposits are thickest at the dam and become thinner moving upstream. This pattern is typically caused by the transport of fine sediment to the dam by turbidity currents. Wedge- shaped deposits are also found in small reservoirs with a large inflow of fine sediment, and in large reservoirs operated at low water level during flood events, which

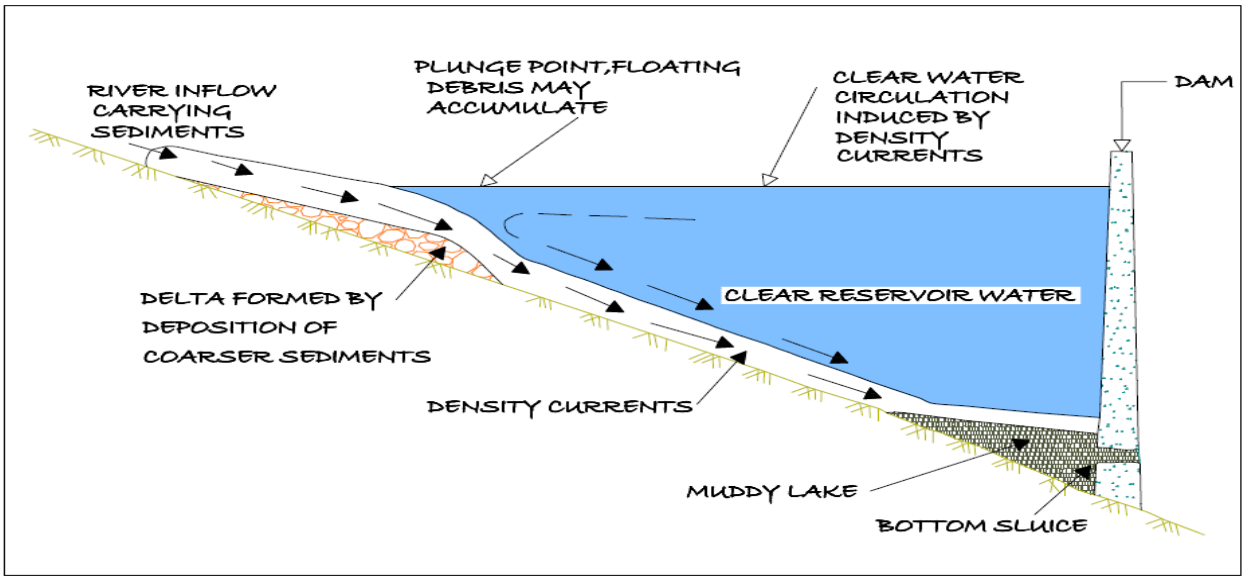


Figure 3: Conceptual sketch of density currents in a reservoir

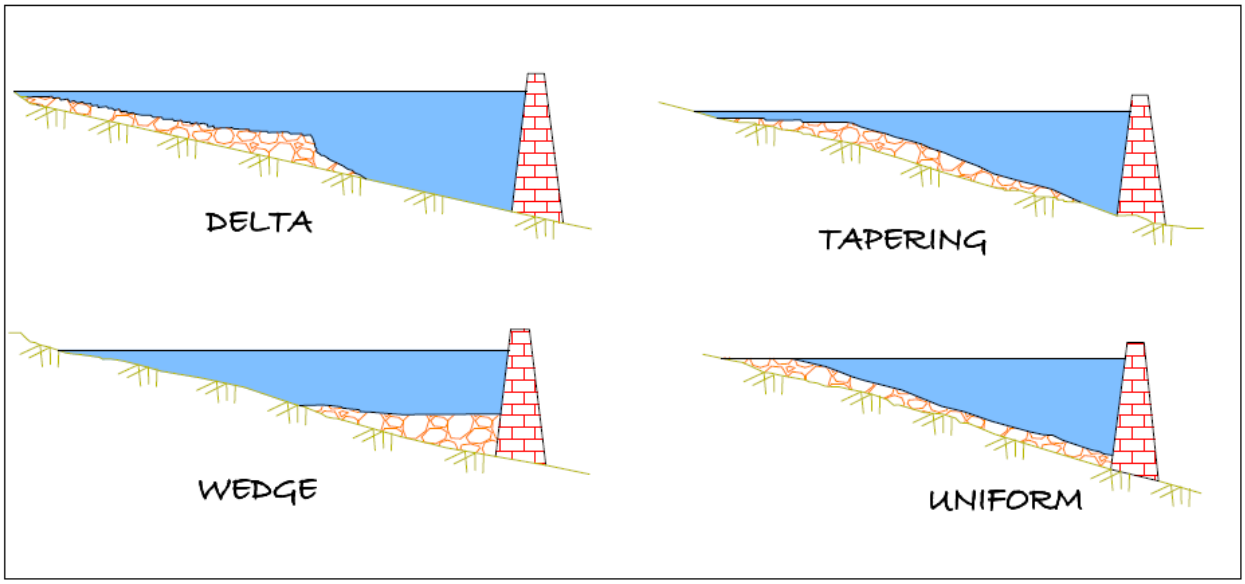


Figure 4: Longitudinal patterns of sediment deposition in reservoirs

causes most sediment to be carried into the vicinity of the dam. Tapering deposits occur when deposits become progressively thinner moving toward the dam. This is a common pattern in long reservoirs normally held at high pool level, and reflects the progressive deposition of fines from the water moving toward the dam. Uniform deposits are unusual but do occur. Narrow reservoirs with frequent water level fluctuation and small load of fine sediment can produce nearly uniform deposition depths. Several factors like amount of sediment load, size distribution, fluctuations in stream discharge, shape of reservoir, stream valley slope, vegetation at the head of the reservoir, location and size of reservoir, outlets, etc., control the location of sediment deposits in the reservoir.

2.2 SEDIMENTATION IMPACT ON RESERVOIRS

Sedimentation in reservoirs not only impact its storage capacity but also its sustainable functioning. The main impacts of reservoir sedimentation are:

- Loss of storage capacity

- Damages to turbines and loss of hydropower production
- Downstream impacts

The process of reservoir sedimentation is slow, but the loss of usable water storage capacity over time is significant. It is estimated that about 0.5–1.0% of global water storage, on an average, is lost annually as a result of sedimentation. The economic cost to replace the lost storage is huge along with other environmental and social impacts.

2.3 SEDIMENTATION MANAGAMENT IN RESERVOIRS

For management of sedimentation in reservoirs CWC has published "Handbook for Assessing and Managing Reservoir Sedimentation" in year 2019 which provides a wide range of sediment management techniques to tackle sedimentation issues in reservoirs. This document provides array of structured information for dam owners regarding various options available for sediment management in reservoirs including erosion control, bypassing, dredging, flushing, de-siltation etc. The document can be viewed at the link https://damsafety.cwc.gov.in/damsafety/index.php?lang=&page=Guidelines-And-Manuals&origin=front-end&tp=1.

Further, a "National Framework on Sediment Management (NFSM)" has also been published by Department of Water Resources, River Development & Ganga Rejuvenation, Ministry of Jal Shakti, for comprehensive and holistic management of sediment including reservoirs sedimentation which can serve as a guiding manual for the State Governments/Project Authorities/Other Ministries. The document can be viewed at the link (https://jalshakti-dowr.gov.in/document/policy-on-sediment-management/.).

3. MEASUREMENT OF SEDIMENTS IN RESERVOIRS

There are broadly two methods for measurement of sedimentation in reservoirs.

i) Assessment of sediment deposit using Stream flow analysis and
ii) Reservoir Capacity survey

3.1 ASSESSMENT OF SEDIMENT DEPOSIT USING STREAM FLOW ANALYSIS

In this method, the discharge is measured at various inflow and outflow sites of the reservoir along with the sediment concentration including estimated bed loads. The difference in inflow and outflow gives the quantity of deposited sediment during the period of analysis. Thus, the sediment accumulated and trap efficiency of the reservoir can be calculated. The point of measurement or sites should be sufficiently close to the reservoir periphery and particular care must be taken while sampling for sediment concentration.

The analysis consists of two main parts:
1. Measurement of water inflows and outflows and
2. Simultaneous measurement of sediment concentration.

This method gives quantity of deposit in gravimetric terms and conversion into volumetric units calls for the estimation of the average unit mass off the deposited sediment material. A direct method of doing this is by collecting systematic samples of the deposit in an undisturbed state from different regions of the reservoir and finding out a correlation between the average dry unit mass and the fractional composition of different grains such as clay, silt and sand.

3.2 RESERVOIR CAPACITY SURVEYS

Capacity surveys of reservoirs are carried out for determination of the volume of sediment deposited, its distribution, sedimentation rates, and updating the capacity tables or elevation-area-capacity curves in the reservoir.

3.2.1 EARLIER METHODOLOGY OF HYDROGRAPHIC SURVEY

This method was used in earlier times which involves the use of conventional equipment e.g., sounding rods, sounding chains, range finders, echo sounder and slow moving boats etc for hydrographic survey part while dumpy level, theodolite, plane table, sextant etc. were used for topographic survey in dry areas of reservoirs. Control points were established on the periphery of the reservoir to maintain the survey line and grid for taking depth observations. With the help of data collected from the site by the above surveys the volume of silt deposited in the reservoir is calculated between the two successive surveys or with the original survey. The surveys conducted by conventional methods are time consuming and sometimes it may take up to two to three years to complete just one survey of a major reservoir (like Hirakud).

3.2.2 MODERN TECHNIQUES - INTEGRATED BATHYMETRIC SURVEY (IBS)

The Integrated Bathymetric Survey is carried out in a rapid and efficient manner. A boat equipped with the bathymetric equipment, the GPS system mounted on board and a lap-top computer is used for bathymetric survey while its reference station is positioned in a known geographical benchmark. The survey software enables fixing of grid lines and interfacing of bathymeter and DGPS and taking longitude, latitude and depth values at required interval/grid. The Surveying Boat is moved in water according to predefined path, getting the coordinates from Real Time Kinematic (RTK) DGPS. The

data is stored on on-board computer for later use. Advance computer programs are used to convert these longitude, latitude and depth values into contours and quantify the current storage capacity.

DGPS fitted hydrographic survey allows faster data acquisition with better accuracy than any previous hydrographic survey technique. The work requires setting up base station of survey and the control points to achieve accuracy and efficiency in collection of deposited sediment can be calculated in comparison of previous survey or original survey data. For topographic survey hand held DGPS with auto levels are used. Drones are also used to conduct topographic surveys these days.

3.2.3 CAPACITY SURVEY THROUGH REMOTE SENSING

To assess the capacity of the reservoir in the live storage zone, remote sensing technique can be applied. The water spread area at different elevations is calculated by identifying water pixels in remote sensing imageries. A series of remote sensing images covering a range of reservoir water levels (over one or more water years) are analyzed to determine the surface area of the water body at the time of the satellite overpass on different dates with known water levels. The incremental reservoir storage capacity between the two levels can be computed by the trapezoidal or prismoidal formula and an elevation–capacity table is prepared. By comparing this table with a previous elevation–capacity table, the capacity lost during the intervening period is computed.

The remote sensing approach has the following advantages:

- Due to its spatial, spectral, and temporal attributes, satellite data can provide synoptic, repetitive and timely information regarding the surface area of a reservoir water body.
- By using digital analysis techniques and GIS in conjunction, the spatial pattern of sediment deposition in a reservoir can be determined.
- The remote sensing approach is highly cost effective, easy to use and requires little time for analysis compared to conventional methods.
- Sedimentation can be easily assessed in reservoirs that are located in areas that are difficult to access.
- The remote sensing survey can be done back in time, if the satellite images are available, which is not possible with hydrographic survey.

The limitations of the remote sensing technique are:

- The amount of sediment deposited below the lowest observed water level cannot be determined through this approach. Thus, it is not possible to estimate the gross sediment deposition rate for the reservoir.
- The presence of clouds can pose problems in correctly demarcating the surface area of the reservoir water body and hence the sedimentation rate.
- This technique is not suitable for reservoirs located in narrow steep-sided valleys, where the surface area of the water body exhibits little change over a range of water levels.

Advancements in Remote Sensing Technique

One of the limitations with optical remote sensing images is the cloud cover. With availability of Microwave data this limitation has been overcome as the microwave data can provide clear images

through clouds also. With use of Google Earth Engine many reservoirs can be analyzed in one go.

Researchers are trying to solve the other limitation of restriction of remote sensing survey in live storage zone. Research work using artificial intelligence and machine learning is undergoing to assess depth under the water. The digital signature of depth under water pixels of the reservoir are trained/assigned with the depth values already measured using hydrographic survey and using the digital signature of depth in other reservoirs in the vicinity the complete bathymetry of other reservoirs can be derived. This technique is in nascent stage and the accuracy of the derived volumes needs to be further tested.

4.0 STATUS OF SEDIMENTATION SURVEYS OF RESERVOIRS

The sedimentation surveys of reservoirs in India although dates back to as early as 1870 but the systematic surveys started only in 1958 when the Central Board of Irrigation and Power undertook a coordinated scheme of reservoir sedimentation and entrusted this task to several research stations in the country viz. Karnataka Engineering Research Station, Directorate of Irrigation Research; Bhopal, Maharashtra Engineering Research Institute; Nashik, U.P. Irrigation Research Institute; Roorkee, Andhra Pradesh Engineering Research Laboratories; Hyderabad etc.

Appreciating the gravity of the problem and need for taking remedial measures the State Governments have also carried out capacity surveys of reservoirs. From the VIII five year plan, Central Water Commission has carried out capacity survey of One hundred nine (109) reservoirs in the country till date. Of these 109 capacity surveys 36 have been conducted under the Research & Development Scheme before 2020. Further, capacity surveys of 73 reservoirs have been conducted under the National Hydrology Project (NHP). Many State Governments have also conducted capacity survey of their reservoirs under NHP.

Central Water Commission has collected, collated and analysed such data and compiled it in compendium of Sedimentation of reservoirs in India. So far, four editions of compendium have been published using data of reservoir sedimentation survey from CWC and state authorities in the years 1991, 2001, 2015 and 2020 and the present document is the fifth edition.

The Compendium published in 1991 had data of 46 reservoirs

The Compendium published in 2001 had data of 144 reservoirs

The Compendium published in 2015 had data of 243 reservoirs

The Compendium published in 2020 had data of 369 reservoirs

In the present “Compendium on Sedimentation of Reservoirs in India 2024”, data of capacity survey of 548 reservoirs conducted by Central Water Commission as well as the State Governments with both Hydrographic Survey and Satellite Based Remote Sensing Survey have been collected and compiled.

Of these 548 reservoirs, 466 reservoirs have been hydrographically surveyed (this figure was 272 in 2020 compendium) and remaining 82 have been surveyed though remote sensing (this figure was 97 in 2020 compendium). Many of the earlier conducted remote sensing surveys have been replaced with the latest hydrographic survey data. In this compendium we have tried to analyse the loss is gross storage capacity, live storage capacity and the amount of sediment deposited in both gross and live storage for different regions and for entire country as well.

For analysis on gross storage, data of 466 reservoirs which have been hydrographically surveyed is used. Out of the data of 466 reservoirs, it was observed that due to discrepancies either in the survey data or original data, there has been an increase in capacity for 27 reservoirs. Thus, the analysis on gross storage capacity is performed on the data of 439 reservoirs. Further, to understand the sedimentation trend in smaller reservoirs a separate analysis has been performed on smaller reservoirs which have original gross storage capacity less than or equal to 20 MCM. 170 such reservoirs out of the 439 reservoirs have been analysed separately in chapter 5.

Similar analysis has been performed for the live storage capacity to have an outlook on the losses in live storage capacity and the amount of sediment deposited in the live storage for different regions and the country as well. In this case, the data of 330 reservoirs, out of 466 reservoirs which were hydrographically surveyed were found workable and the data of 71 reservoirs out of 82 reservoirs which were surveyed through remote sensing were found workable. Thus for analysis on live storage the data of 330 reservoirs have been used which were hydrographically surveyed and separate analysis of 71 reservoirs which have been surveyed through remote sensing have been performed. Further, an analysis have also been performed on smaller reservoirs which have original gross storage capacity less than or equal to 20 MCM. 117 such reservoirs of the 330 hydrographically surveyed reservoirs have been analysed in the later parts of chapter 5.

The capacity survey and assessment of loss in storage in respect of 548 reservoirs have been compiled and analysed by Watershed and Reservoir Sedimentation Directorate of Central Water Commission. This data has been given at **Appendix-I**. An abstract showing the rate of sediment deposition, percentage loss of storage and other useful information of 439 workable data of hydrographically surveyed reservoirs is provided at **Appendix-II** and of workable 71 SRS surveyed reservoirs is given at **Appendix-III**. In **Appendix-IV** the data of 330 reservoirs based on which analysis on live storage was performed has been provided. The list of 170 reservoirs having gross capacity less than or equal to 20 MCM is given at **Appendix-V**. The list of 117 reservoirs having gross capacity less than or equal to 20 MCM for which analysis on live storage is performed has been provided at **Appendix-VI.** Data of 103 reservoirs for which Design rate of sedimentation was available has been provided in **Appendix-VII**. The details of all the reservoirs showing results of all survey conducted for that reservoir is separately provided in **Volume -II** of the Compendium**.**

5.0 FINDINGS FROM THE CAPACITY SURVEYS

Reservoir capacity data for 548 reservoirs have been included in Appendix I. Out of these 548 reservoirs, 466 reservoirs have been surveyed by hydrographic survey. Out of these 466 reservoirs the workable data is found to be for 439 reservoirs. Thus, for all analysis purposes on gross storage, in this chapter, the data of these 439 reservoirs have been used.

5.1 ESTIMATION OF LOSS OF GROSS STORAGE IN RESERVOIRS

Based on the sedimentation rate of 439 reservoirs, the computed average percentage loss in gross storage due to siltation is 19.24%, average annual loss of gross storage is 1.81 MCM and average annual percentage loss of gross storage is about 0.74%. The observed loss in gross storage (minimum, maximum and average) is given in Table 1.

Table- 1: Loss in gross storage capacity of reservoirs

S. No.	Description	Minimum	Maximum	Average	Remarks
1	Percentage loss of gross storage	0.17	96.36	19.24	Based on data of 439 reservoirs
2	Annual loss of gross storage (MCM)	0.01	64.69	1.81	Based on data of 439 reservoirs
3	Annual percentage loss of Gross storage	0.01	21.03	0.74	Based on data of 439 reservoirs

Further the 439 reservoirs have been divided into different categories based on the range of annual percentage loss in gross storage as mentioned in Table-2.

Table 2: Categorisation based on percentage loss of annual gross capacity in 439 reservoirs

Range of annual gross capacity loss	No. of reservoir within the range	Average age* of the reservoirs in years (From impoundment till last survey)
Less than 0.1%	49	50
0.1% to 0.5%	228	47
0.51% to 1.0%	98	41
More than 1.0	64	21

* The average age is defined as the time duration from the impoundment of the reservoir till its last survey.

The pictorial representation of reservoirs with annual gross storage percentage loss is given at **Figure 5**

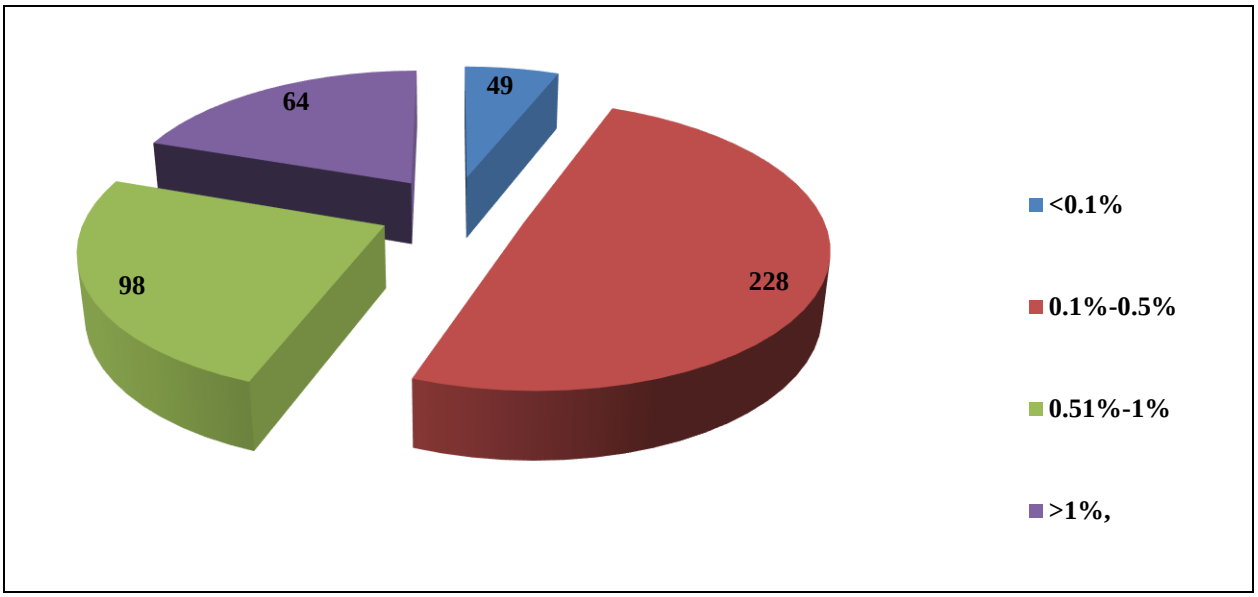


Figure 5: Annual percentage loss in gross storage of 439 reservoirs

It can be observed from the Table-2 that the average annual percentage loss in gross storage is more for reservoirs with less age while it is less for reservoirs with more age. So, it can be concluded that the rate of loss in annual storage capacity decreases with time as the catchment area stabilizes. The same can be seen in Figure-6 also.

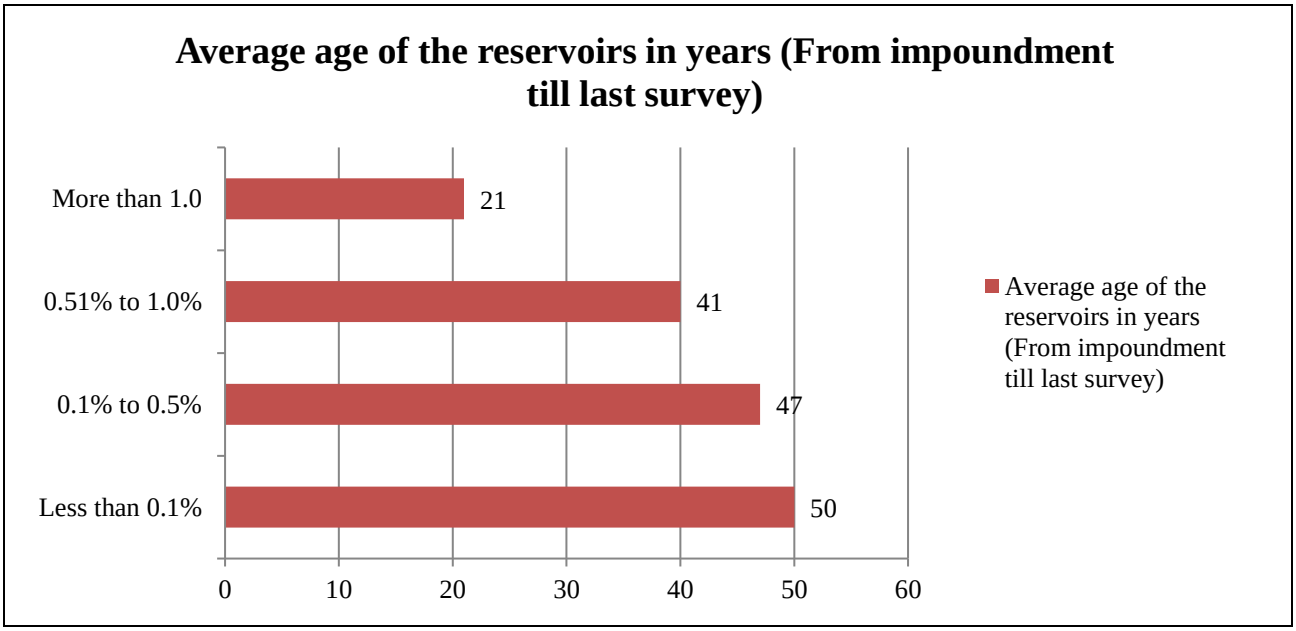


Figure 6: Bar Graph between average age and annual percentage loss in gross storage

Another categorisation has been done for the 439 reservoirs in which the reservoirs have been divided into different categories based on the range of the percentage loss in gross storage as mentioned in Table-3.

Table 3: Categorisation based on total percentage loss in gross capacity in 439 reservoirs

Range of percentage loss in gross storage	No. of reservoir within the range	Average age of the reservoirs in years (From impoundment till last survey)
Less than 10%	155	39
10% to 20%	127	45
20% to 30%	62	43
30% to 40%	49	44
40% to 50%	23	36
Above 50%	23	47

The pictorial representation of categorisation based on total percentage loss in gross storage capacity is given at **Figure 7**

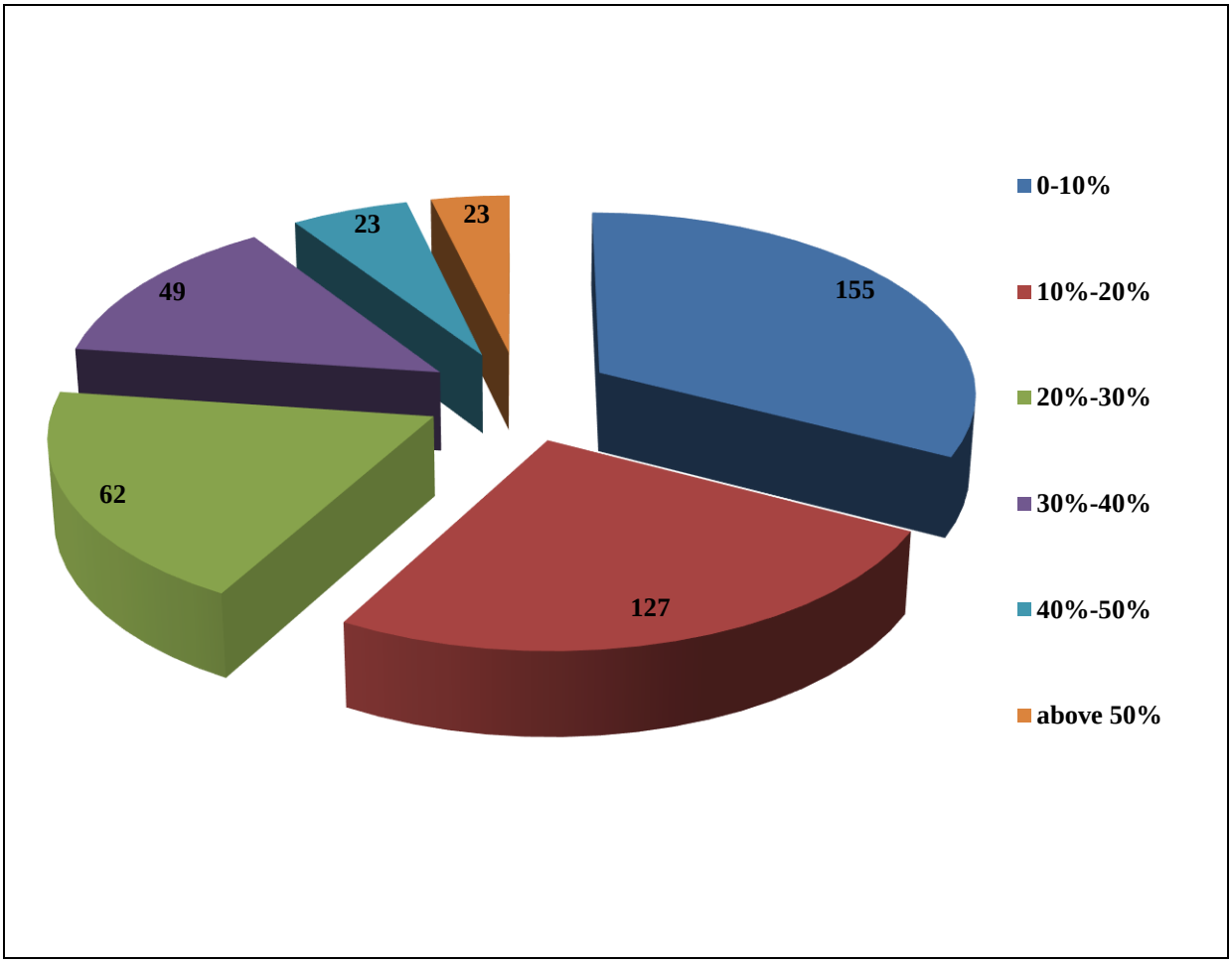


Figure 7: Categorisation based on percentage loss in gross capacity of 439 reservoirs

The 23 reservoirs with percentage loss in gross storage more than 50 percent are listed below

Table 4: List of reservoirs with percentage loss of gross storage above 50 percent

S. No	Reservoir	State	River	Designed gross Storage (in MCM)	Surveyed gross Storage (in MCM)	Percentage loss in Gross Storage	Age of the reservoir in years
1	Kulbera Dam	West Bengal	Kulberia	0.796	0.029	96.36	39
2	Salal	Jammu & Kashmir	Chenab	285.000	12.430	95.64	31
3	Perch Dam	Punjab	Perch Khad	1.250	0.094	92.50	28
4	Vadzar	Gujarat	Local nala	0.830	0.092	88.92	38
5	Fuljore Dam	West Bengal	Fuljore	0.200	0.035	82.50	45
6	Baira	Himachal Pradesh	Baira	3.750	0.700	81.33	37
7	Ranganadi	Arunanchal Pradesh	Ranganadi (Panior)	21.280	5.480	74.25	15
8	Mirzapur Dam	Punjab	Budki	4.300	1.185	72.44	25
9	Kundah	Tamil Nadu	Kundah	1.760	0.650	63.07	22
10	Rangit-III	Sikkim	Rangit	1.790	0.690	61.45	18
11	Nizamsagar	Telangana	Manjara	841.180	332.520	60.47	62
12	Janauri Dam	Punjab	Janauri Khad	2.280	0.941	58.73	35
13	Bhalot	Gujarat	Local nala	0.430	0.183	57.44	46
14	Ler	Gujarat	Tributory of Pat	2.210	0.945	57.24	83
15	Tilaiya	Jharkhand	Barakar	335.520	150.950	55.01	66
16	Karapuzha Dam	Kerala	Karapuzha	76.500	34.709	54.63	11
17	Chunadi	Gujarat	Tributory of Nag	0.403	0.185	54.09	37
18	Ashti	Maharashtra	Ashti Nalla	41.540	19.120	53.97	141
19	Patiari Dam	Punjab	Patiari	3.460	1.623	53.09	19
20	Zuran	Gujarat	Tributory of Zuran	0.930	0.443	52.37	76
21	Mhaswad	Maharashta	Man	86.940	41.700	52.04	102
22	Mamuara	Gujarat	Local nala	0.741	0.368	50.34	79
23	Chamera-I	Himachal Pradesh	Ravi	391.300	195.100	50.14	24

5.2 ESTIMATION OF LOSS IN GROSS STORAGE OF RESERVOIRS (Less than 20 MCM)

Based on the sedimentation rate of 170 reservoirs, the computed average percentage loss in gross storage due to siltation is 23.65 %, average annual loss of gross storage is 0.07 MCM and average annual percentage loss of gross storage is about 0.97%. The observed loss in gross storage (minimum, maximum and average) is given in Table 5. The annual percentage loss in gross storage has been worked out based on the data of 170 reservoirs.

Table- 5: Loss in gross storage of small reservoirs with original capacity less than or equal to 20 MCM

S. No.	Description	Minimum	Maximum	Average	Remarks
1	Percentage loss of gross storage	0.17	96.36	23.65	Based on data of 170 reservoirs
2	Annual loss of gross storage (MCM)	0.01	2.40	0.07	Based on data of 170 reservoirs
3	Annual percentage loss of gross storage	0.01	13.05	0.97	Based on data of 170 reservoirs

It can be seen that average annual percentage loss of gross storage for these small reservoirs is 0.97%/year which is higher than the average annual percentage loss of gross storage for all 439 reservoirs calculated in section 5.1 (Table-1), which is 0.74%/yr. Further, these 170 reservoirs have been divided into different categories based on the range of annual percentage loss in gross storage. The trend is similar to the trend of all reservoirs shown in table-2.

Table 6: Categorisation based on loss of annual gross capacity in 170 reservoirs (small reservoirs)

Range of annual gross storage capacity loss	No. of reservoir within the range	Average age of the reservoirs in years (From impoundment till last survey)
Less than 0.1%	20	51
0.1% to 0.5%	69	44
0.51% to 1.0%	36	44
More than 1.0	45	23

The pictorial representation of Categorisation based on annual percentage loss in gross storage for small reservoirs is given at Figure 8

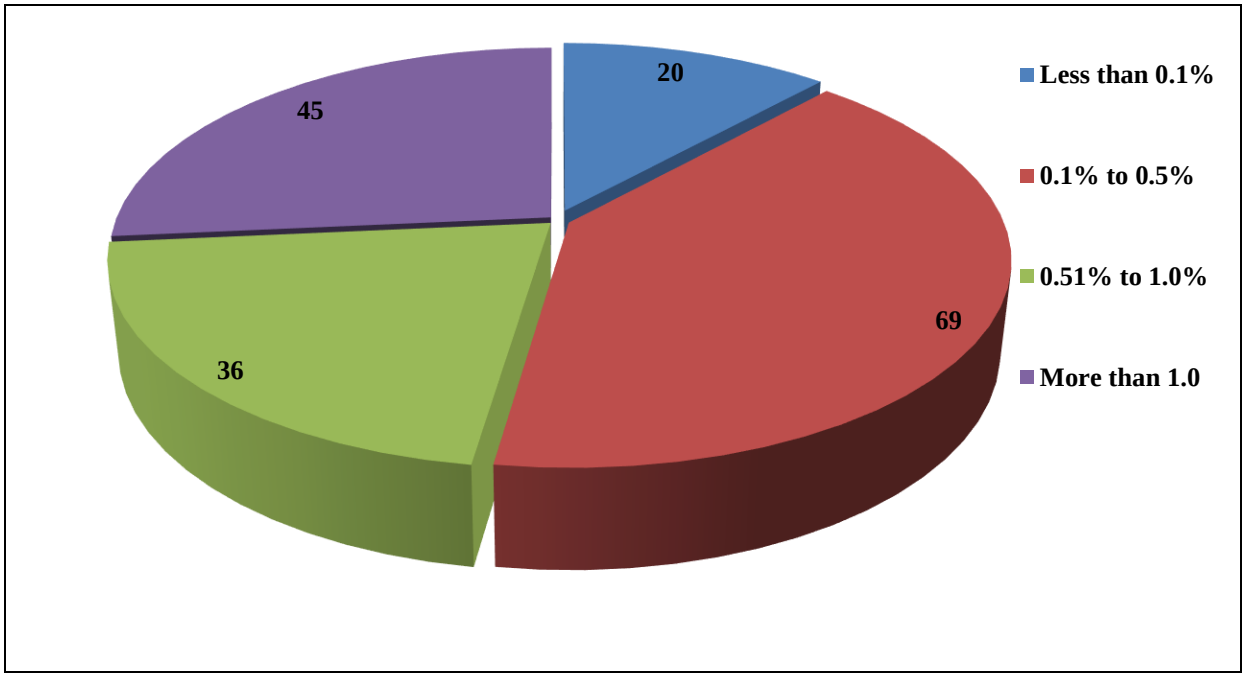


Figure 8: Categorisation based on annual percentage gross storage loss of 170 reservoirs (small reservoirs)

5.3 ESTIMATION OF LOSS IN LIVE STORAGE FOR RESERVOIRS

From the data set of 439 reservoirs which have been hydrographically surveyed the workable data for live storage is available for only 330 reservoirs as many of the surveys have only reported loss in the gross storage capacity and few have discrepancies in their data. The computed average percentage loss in live storage due to siltation is 14.78 %, average annual loss of live storage is 1.16 MCM and average annual percentage loss in live storage is about 0.49%. The observed loss in live storage (minimum, maximum and average) is given in Table 7.

Table- 7: Loss in live storage capacity of reservoirs

S. No.	Description	Minimum	Maximum	Average	Remarks
1	Percentage loss of live storage	0.05	84.91	14.78	Based on data of 330 reservoirs
2	Annual loss of live storage (MCM)	0.01	45.79	1.16	Based on data of 330 reservoirs
3	Annual percentage loss of live storage	0.01	6.70	0.49	Based on data of 330 reservoirs

Further when similar analysis was performed on the 71 reservoirs which have been surveyed through remote sensing technique the average percentage loss in live storage is about 11.35 % and the average annual percentage loss in live storage is about 0.75 %.

5.4 ESTIMATION OF LOSS FOR LIVE STORAGE OF RESERVOIRS (less than 20 MCM)

Of the 330 reservoirs with data of live storage, 117 reservoirs are having their designed gross storage less than or equal to 20 MCM. The data of these 117 reservoirs indicate that the average percentage loss in live storage due to siltation is 20.42 %. Further, average annual loss of live storage is 0.04 MCM and average annual percentage loss of live storage is about 0.77%. The observed loss in live storage (minimum, maximum and average) is given in Table 8.

Table- 8: Loss in live storage of reservoirs with original capacity less than or equal to 20 MCM (small reservoirs)

S. No.	Description	Minimum	Maximum	Average	Remarks
1	Percentage loss of Live storage	0.15	84.91	20.42	Based on data of 117 reservoirs
2	Annual loss of Live storage (MCM)	0.01	0.73	0.04	Based on data of 117 reservoirs
3	Annual percentage loss of Live storage	0.02	6.70	0.77	Based on data of 117 reservoirs

It can be seen that average annual percentage loss of live storage for these small reservoirs is 0.77%/year which is higher than the average annual percentage loss of live storage for all 330 reservoirs calculated in section 5.3 (Table-7), which is 0.49 %/yr.

5.5 REGION WISE SEDIMENT ANALYSIS FOR GROSS STORAGE

The analysis of capacity survey data of 439 reservoirs shows a wide variation in sediment deposition rates of reservoirs. The sediment deposition rate is affected by multiple factors like hydrometeorology, physiographic and climate etc. Considering these factors, the whole country has been classified into 7 regions shown at **Plate-1**. Region wise distribution of 439 reservoirs has been shown in **Plate 2-8.** Region wise distribution of 439 reservoirs is shown pictorially in **Figure 9**

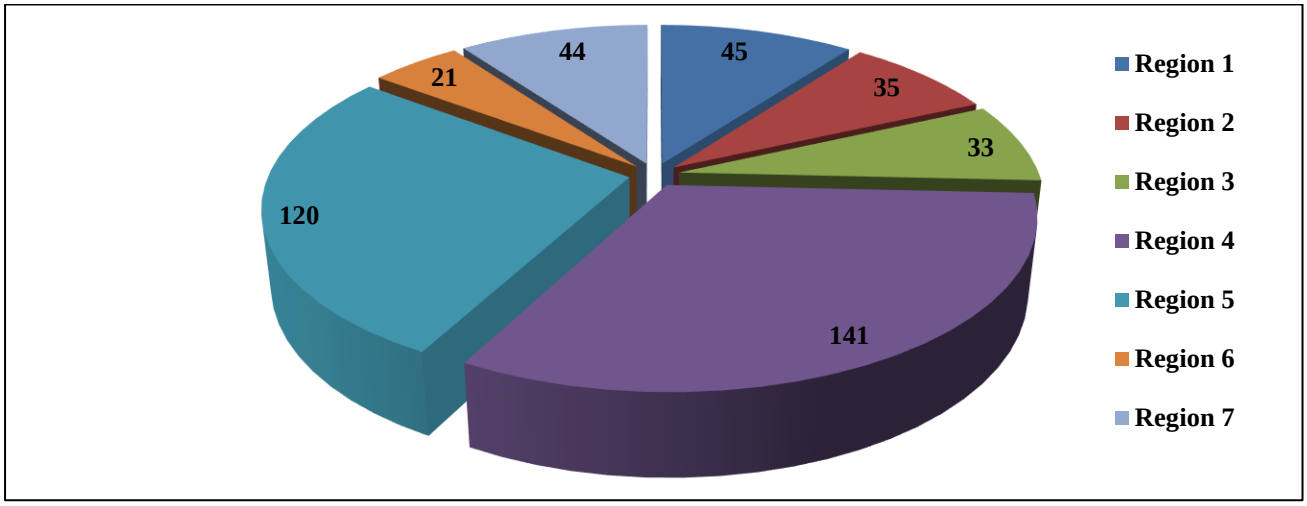


Figure 9: Region wise distribution of 439 reservoirs

Table-9 Region-wise loss in gross storage capacity as per the hydrographic survey

S. No.	Region	No. of Reservoirs	Total Designed Gross Capacity (BCM)	Total Surveyed Gross Capacity (BCM)	Total Loss in Gross Storage (BCM)	Percentage Loss in Gross Storage	Average Annual Percentage Loss
1	Himalayan Region	45	27.20	22.50	4.70	17.19	2.87
2	Indo-Gangetic Plains	35	31.90	27.50	4.50	14.03	0.43
3	East Flowing Rivers upto Godavari	33	20.57	17.36	3.21	15.61	0.37
4	Deccan Peninsular	141	76.40	63.05	13.35	17.48	0.62
5	West flowing rivers upto Narmada	120	8.04	6.96	1.08	13.38	0.45
6	Narmada and Tapi Basin	21	22.92	19.78	3.16	13.73	0.59
7	West flowing rivers beyond Tapi and South Indian Rivers	44	13.24	12.22	1.02	7.73	0.37
	India	**439**	**200.31**	**169.34**	**30.97**	**15.46**	**0.74**

From Table 9 following observations can be made:

1) Maximum percentage loss in gross storage is observed in region 4 i.e. the deccan peninsular which is 17.48% followed by region 1 i.e. the Himalayan region with a value of 17.19. However, the average annual percentage loss is highest for the Himalayan region i.e. 2.87%.

2) The least percentage loss as well as annual percentage loss in gross storage is minimum for region 7 i.e. West flowing rivers beyond Tapi and South Indian Rivers with the value being 7.73% and 0.37% respectively.

3) The average annual percentage loss in gross storage for India comes out to 0.74 %.

The region-wise sediment deposition rates in gross storage for 439 reservoirs have been analysed and is presented in table below:

Table: 10 Region-wise sediment deposition rates in gross storage for different regions

In Thousand m^3/Sq. Km./Year

Region No.	Region	No. of reservoirs	Average age of reservoirs in a region	Average sediment deposition Rate in gross storage
1	Himalayan Region	45	25	2.49
2	Indo Gangetic Plains	35	49	0.84
3	East Flowing Rivers upto Godavari	33	47	0.98
4	Deccan Peninsular	141	43	2.07
5	West flowing rivers upto Narmada	120	44	0.52
6	Narmada and Tapi Basin	21	41	1.64
7	West flowing rivers beyond Tapi and South Indian Rivers	44	42	3.37
	India	**439**	**42**	**1.62**

From Table 10 following observations can be made:

1) Maximum average sediment deposition rate in gross storage is observed for region 7 i.e. West flowing rivers beyond Tapi and South Indian Rivers with the value of 3.37 Thousand m^3/Sq. Km./Year and minimum for region 5 i.e. West flowing rivers upto Narmada with the value of 0.52 Thousand m^3/Sq.Km./Year.

2) The rate of sediment deposition in gross storage for India is 1.62 Thousand m^3/Sq. Km./Year.

5.6 REGION WISE SEDIMENT ANALYSIS FOR GROSS STORAGE (less than 20 MCM)

Analysis has been performed for 170 reservoirs which are having their original gross storage capacity less than or equal to 20 MCM to understand the scenario for small reservoirs. The region-wise distribution and percentage loss in gross storage for different regions in Thousand m^3/Sq.Km./Year are given in Figure 10 and Table 11 respectively.

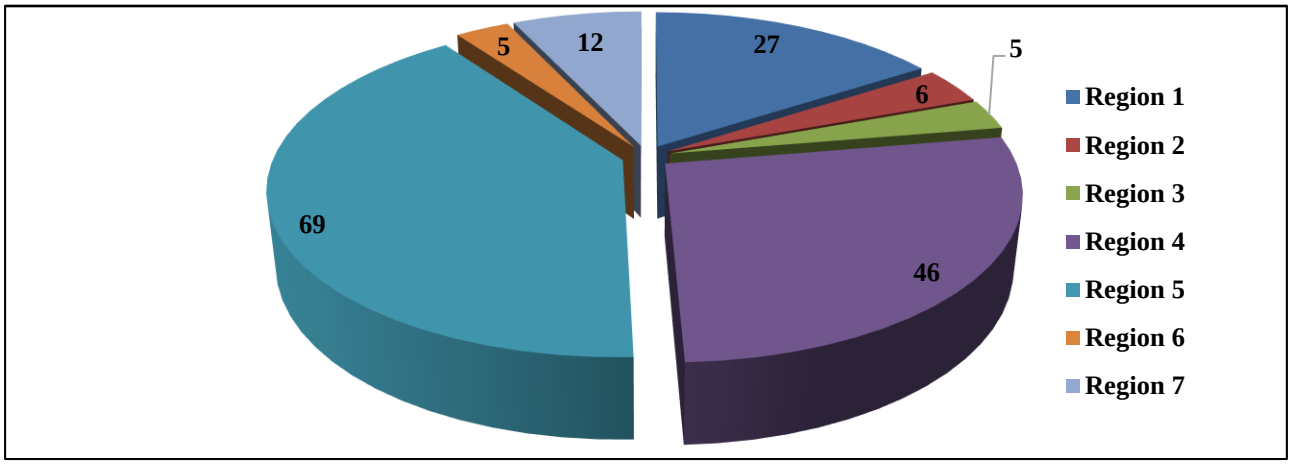


Figure 10: Region wise distribution of 170 reservoirs (small reservoirs)

Table: 11 Region-wise percentage loss in gross capacity for small reservoirs as per the hydrographic survey (less than 20 MCM)

S. No.	Region	No. of Reservoirs	Total Designed Gross Capacity (MCM)	Total Surveyed Gross Capacity (MCM)	Total Loss in Gross Storage (MCM)	Percentage Loss in Gross Storage	Average Annual Percentage Loss
1	Himalayan Region	27	153.3	99.5	53.8	35.1	2.87
2	Indo-Gangetic Plains	6	30.1	23.0	7.1	23.5	0.70
3	East Flowing Rivers upto Godavari	5	51.5	43.4	8.1	15.7	0.80
4	Deccan Peninsular	46	404.9	322.9	82.0	20.2	0.83
5	West flowing rivers upto Narmada	69	510.6	423.9	86.8	17.0	0.48
6	Narmada and Tapi Basin	5	39.7	27.2	12.4	31.3	0.97
7	West flowing rivers beyond Tapi and South Indian Rivers	12	138.3	120.4	17.9	12.9	0.27
	India	**170**	**1328.3**	**1060.4**	**267.9**	**20.17**	**0.97**

From Table 11 following observations can be made:

1) Maximum values for percentage loss in gross storage and average annual percentage loss in gross storage is observed for region 1 i.e. the Himalayan region which are 35.1 % and 2.87% respectively followed by region 6 i.e. the Narmada and Tapi Basin with values being 31.3%, and 0.97% respectively.

2) The least values for percentage loss in gross storage and average annual percentage loss in gross storage is observed for region 7 i.e. West flowing rivers beyond Tapi and South Indian Rivers with the values being 12.9% and 0.27% respectively.

3) The average annual percentage loss in gross storage for India in dams with storage capacity less than or equal to 20 MCM is 0.97 % which is higher than the national average annual percentage loss as mentioned in Table-9 which is 0.74%.

The region-wise sediment deposition rates in gross storage for 170 reservoirs have been analysed and is presented in table mentioned below:

Table: 12 Region-wise sediment deposition rates in gross storage for small reservoirs with gross storage capacity less than 20 MCM

In Thousand m^3/Sq.Km./Year

Region No.	Region	No. of Reservoirs	Average age of reservoirs in a region	Average sediment deposition rate in gross storage
1	Himalayan Region	27	19	2.61
2	Indo Gangetic Plains	6	49	0.24
3	East Flowing Rivers upto Godavari	5	39	1.27
4	Deccan Peninsular	46	37	1.07
5	West flowing rivers upto Narmada	69	45	0.43
6	Narmada and Tapi Basin	5	45	2.96
7	West flowing rivers beyond Tapi and South Indian Rivers	12	53	1.11
	India	**170**	**39**	**1.09**

From Table 12 following observations can be made:

1) Maximum average sediment deposition rate in gross storage is observed for region 6 i.e. Narmada and Tapi Basin with the value of 2.96 Thousand m^3/Sq.Km./Year and the minimum sedimentation rate is observed in region 2 i.e. the Indo Gangetic region with the value of 0.24 Thousand m^3/Sq.Km./Year.

2) The rate of sediment deposition in gross storage for India is 1.09 Thousand m^3/Sq. Km./Year for small reservoirs (with gross designed capacity less than 20 MCM)

5.7 REGION WISE SEDIMENT ANALYSIS FOR LIVE STORAGE

Based on the data of 330 reservoirs as discussed in section 5.3, region-wise analysis of sediment deposition rate in live storage has been carried out. The region wise distribution of these 330 reservoirs is shown in figure 11 and percentage loss in live storage for different regions is shown in Table 13:

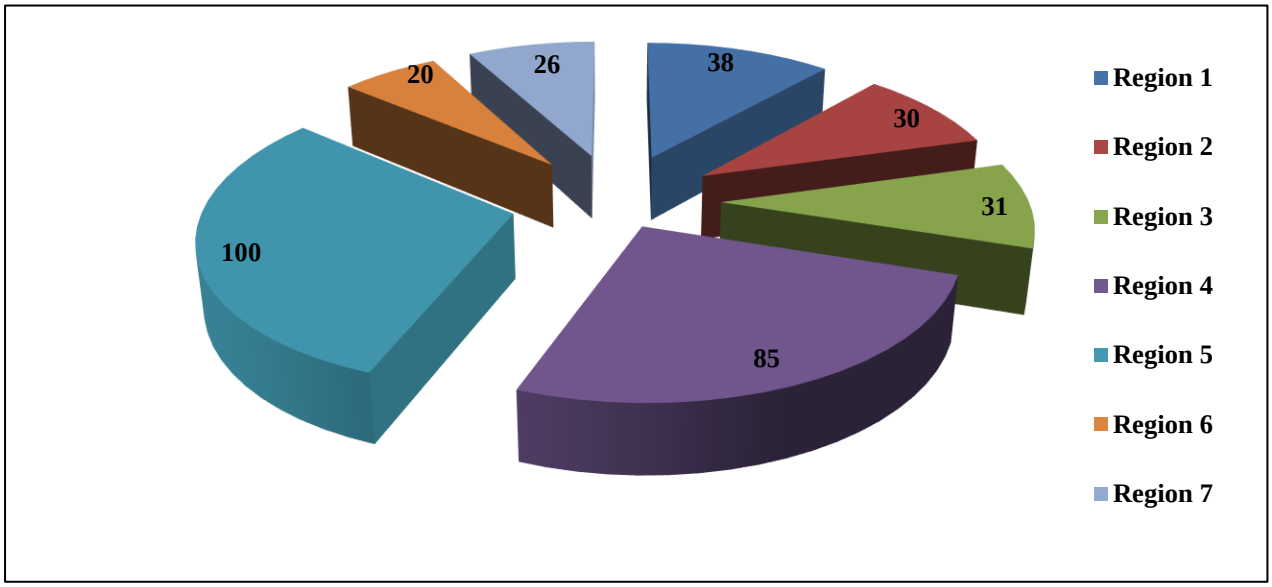


Figure 11: Region wise distribution of 330 reservoirs

Table: 13 Region-wise percentage loss in live storage capacity of reservoirs

S. No.	Region	No. of Reservoirs	Total Designed Live Capacity (BCM)	Total Surveyed Live Capacity (BCM)	Total Loss in Live Storage (BCM)	Percentage Loss in Live Storage	Average Annual Percentage Loss in Live Storage
1	Himalayan Region	38	20.87	18.44	2.43	11.63	1.35
2	Indo Gangetic Plains	30	25.55	22.76	2.79	10.91	0.28
3	East Flowing Rivers upto Godavari	31	16.15	14.47	1.68	10.38	0.25
4	Deccan Peninsular	85	54.60	47.52	7.08	12.97	0.53
5	West flowing rivers upto Narmada	100	6.35	5.66	0.69	10.83	0.34
6	Narmada and Tapi Basin	20	17.14	15.99	1.15	6.71	0.44
7	West flowing rivers beyond Tapi and South Indian Rivers	26	10.31	9.72	0.59	5.68	0.30
	India	**330**	**150.96**	**134.57**	**16.39**	**10.86**	**0.49**

From Table 13 following observations can be made:

1) Maximum percentage loss in live storage is observed in region 4 i.e. the Deccan peninsular which is 12.97% followed by region 1 i.e. the Himalayan region with a value of 11.63%. However, the average annual percentage loss is highest for the Himalayan region i.e. 1.35%.

2) The percentage loss in live storage is minimum for region 7 i.e. West flowing rivers beyond Tapi and South Indian Rivers with the value being 5.68% and average annual percentage loss in live storage is minimum for region 3 i.e. East flowing rivers upto Godavari with the value being 0.25%.

3) The average annual percentage loss in live storage for India is 0.49 percent.

The region-wise sediment deposition rates in live storage for 330 reservoirs have been analysed and presented in table 14 below:

Table: 14 Region-wise sediment deposition rates for different regions in live storage

Thousand m3/Sq. Km./Year

Region No.	Region	No. of reservoirs	Average age of reservoirs in a region	Average sediment deposition rate in live storage
1	Himalayan Region	38	26	1.79
2	Indo Gangetic Plains	30	59	0.57
3	East Flowing Rivers upto Godavari	31	47	0.74
4	Deccan Peninsular	85	43	2.06
5	West flowing rivers upto Narmada	100	46	0.34
6	Narmada and Tapi Basin	20	38	1.16
7	West flowing rivers beyond Tapi and South Indian Rivers	26	42	3.15
	India	**330**	**43**	**1.28**

From the above table following observations can be made:

1) Maximum sediment deposition rate in live storage is observed in region 7 i.e. West flowing rivers beyond Tapi and South Indian Rivers with the value of 3.15 Thousand m^3/Sq. Km./Year and minimum sediment deposition rate in live storage is observed in region 5 i.e. the West flowing rivers upto Narmada with the value of 0.34 Thousand m^3/Sq.Km./Year.

2) The rate of sediment deposition in live storage for India comes out to 1.28 Thousand m^3/Sq. Km./Year.

Similar analysis has also been carried out for a separate set of 71 reservoirs which have been surveyed through remote sensing technique, based on which the average sediment deposition rate for India in live storage is 3.82 Thousand m^3/Sq.Km./Year.

5.8 REGION WISE SEDIMENT ANALYSIS IN LIVE STORAGE (less than 20 MCM)

To have a view about the sediment deposition rate in live storage for smaller reservoirs, an analysis similar to section 5.7 have been performed on 117 reservoirs which are having their original gross storage capacity less than or equal to 20 MCM. The region-wise distribution and percentage loss in live storage for different regions in small reservoirs with gross storage less than or equal to 20 MCM in Thousand m^3/Sq.Km./Year are given in Figure 12 and Table 15 respectively.

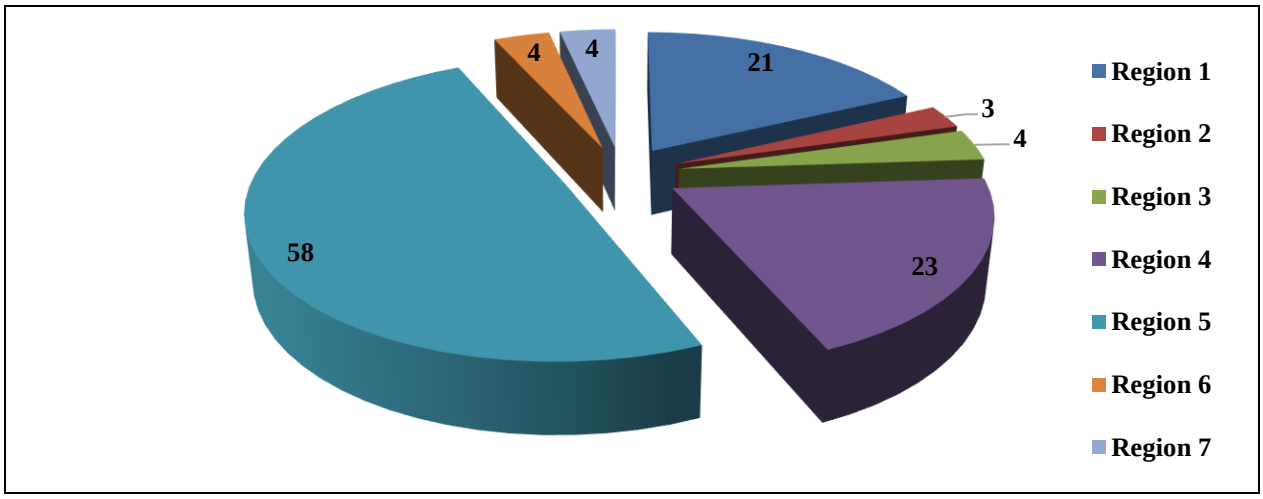


Figure 12: Region wise distribution of 117 reservoirs

Table: 15 Region-wise percentage loss in live storage capacity for small reservoirs with gross storage capacity less than 20 MCM

S. No.	Region	No. of reservoirs	Total Designed Live Capacity (MCM)	Total Surveyed Live Capacity (MCM)	Total Loss In Live Storage (MCM)	Percentage Loss in Live Storage	Average Annual Percentage Loss in Live Storage
1	Himalayan Region	21	91.49	68.06	23.43	25.61	1.824
2	Indo Gangetic Plains	3	23.14	19.77	3.37	14.58	0.321
3	East Flowing Rivers upto Godavari	4	47.11	41.75	5.35	11.37	0.259
4	Deccan Peninsular	23	164.82	131.84	32.98	20.01	1.010
5	West flowing rivers upto Narmada	58	335.11	291.23	43.88	13.09	0.375
6	Narmada and Tapi Basin	4	27.84	20.11	7.73	27.78	0.991
7	West flowing rivers beyond Tapi and South Indian Rivers	4	47.68	42.59	5.09	10.68	0.219
	India	**117**	**737.19**	**615.34**	**121.85**	**16.53**	**0.77**

From Table 15 following observations can be made:

1) Maximum values for percentage loss in live storage is observed for region 6 i.e. the Narmada and Tapi Basin which is 27.78 %, maximum value for average annual percentage loss in live storage is observed for region 1 i.e. Himalayan Region with the value being 1.824%.

2) The minimum value for percentage loss in live storage, average annual percentage loss in live storage is observed for region 7 i.e. West flowing rivers beyond Tapi and South Indian Rivers with the value being 10.68% and 0.219% respectively.

3) The average annual percentage loss in live storage in India for small reservoirs with Gross storage capacity less than or equal to 20 MCM is 0.77% which is higher than the national average for all reservoirs which is 0.49 % (table 13).

The region-wise sediment deposition rates in live storage for 117 reservoirs have been analysed and is presented in table below:

Table: 16 Region-wise sediment deposition rates in different regions in live storage for small reservoirs with gross storage capacity less than 20 MCM

Thousand m3/Sq. Km./Year

Region No.	Region	No. of Reservoirs	Average age of reservoirs in a region	Average Sediment deposition Rate in Live Storage
1	Himalayan Region	21	20	2.24
2	Indo Gangetic Plains	3	55	0.05
3	East Flowing Rivers upto Godavari	4	40	0.96
4	Deccan Peninsular	23	33	1.59
5	West flowing rivers upto Narmada	58	48	0.26
6	Narmada and Tapi Basin	4	31	2.94
7	West flowing rivers beyond Tapi and South Indian Rivers	4	62	0.60
	India	**117**	**40**	**1.00**

From the above Table 16 following observations can be made:

1) Maximum sediment deposition rate in live storage is observed in region 6 i.e. Narmada and Tapi Basin with the value of 2.94 Thousand m^3/Sq.Km./Year and the minimum sediment deposition rate is observed in region 2 i.e. the Indo Gangetic Plains with the value of 0.05 Thousand m^3/Sq.Km./Year.

2) The rate of sediment deposition in live storage for India is 1.00 Thousand m^3/Sq. Km./Year for smaller reservoirs (designed gross storage capacity less than equal to 20MCM).

5.9 COMPARISION OF RATE OF SEDIMENTATION

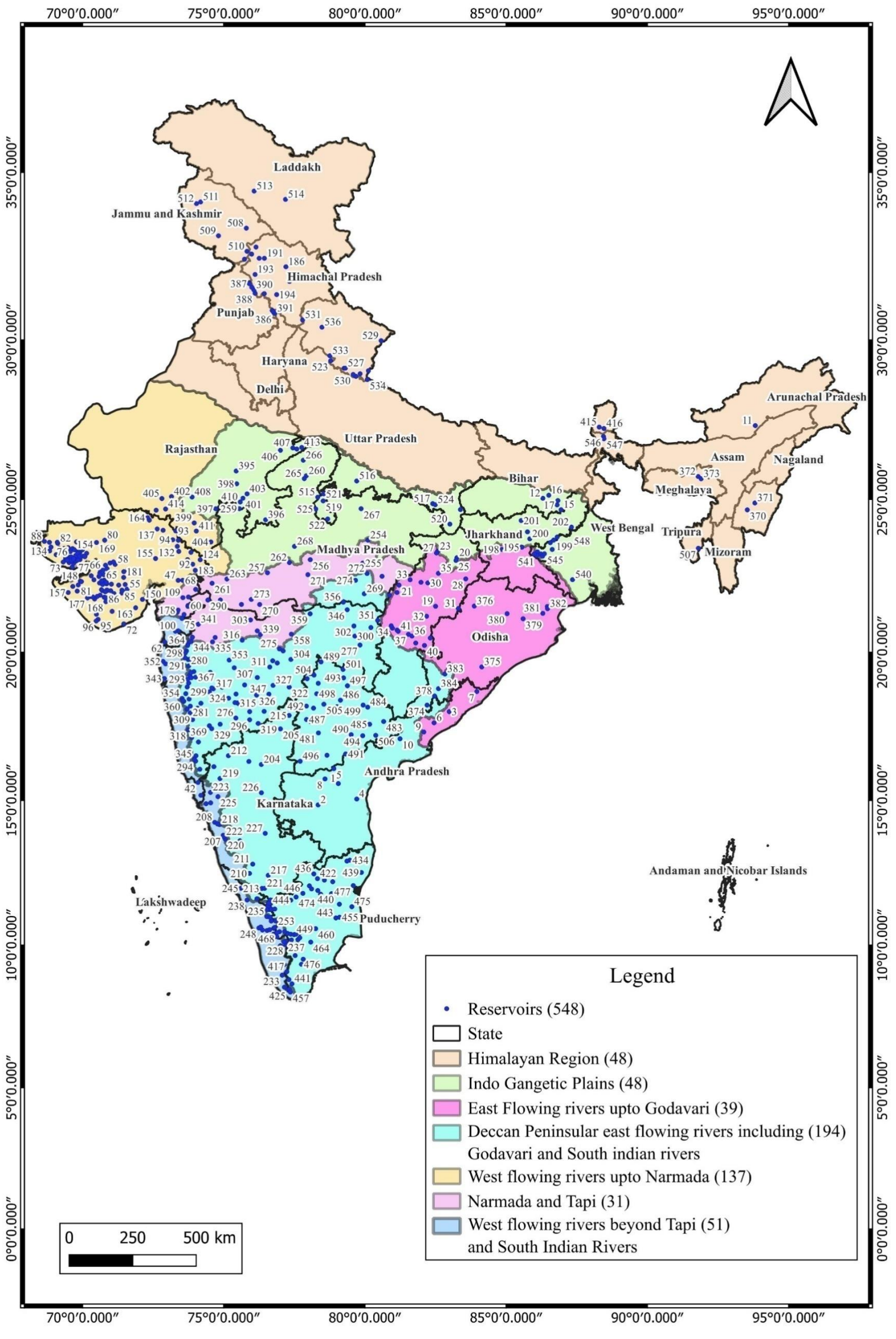
Out of the data set of 439 reservoirs the data of designed rate of sedimentation for only 103 reservoirs is available. In this section a comparison between the designed rates of sedimentation to the observed rate of sedimentation has been done. It is observed that the actual rate of sedimentation is more than the design rate of sedimentation in most of the reservoirs. The variation in 103 reservoirs with known design rate of sedimentation is given in Table 17:

Table 17: Comparison between actual and designed rate of sedimentation of reservoirs

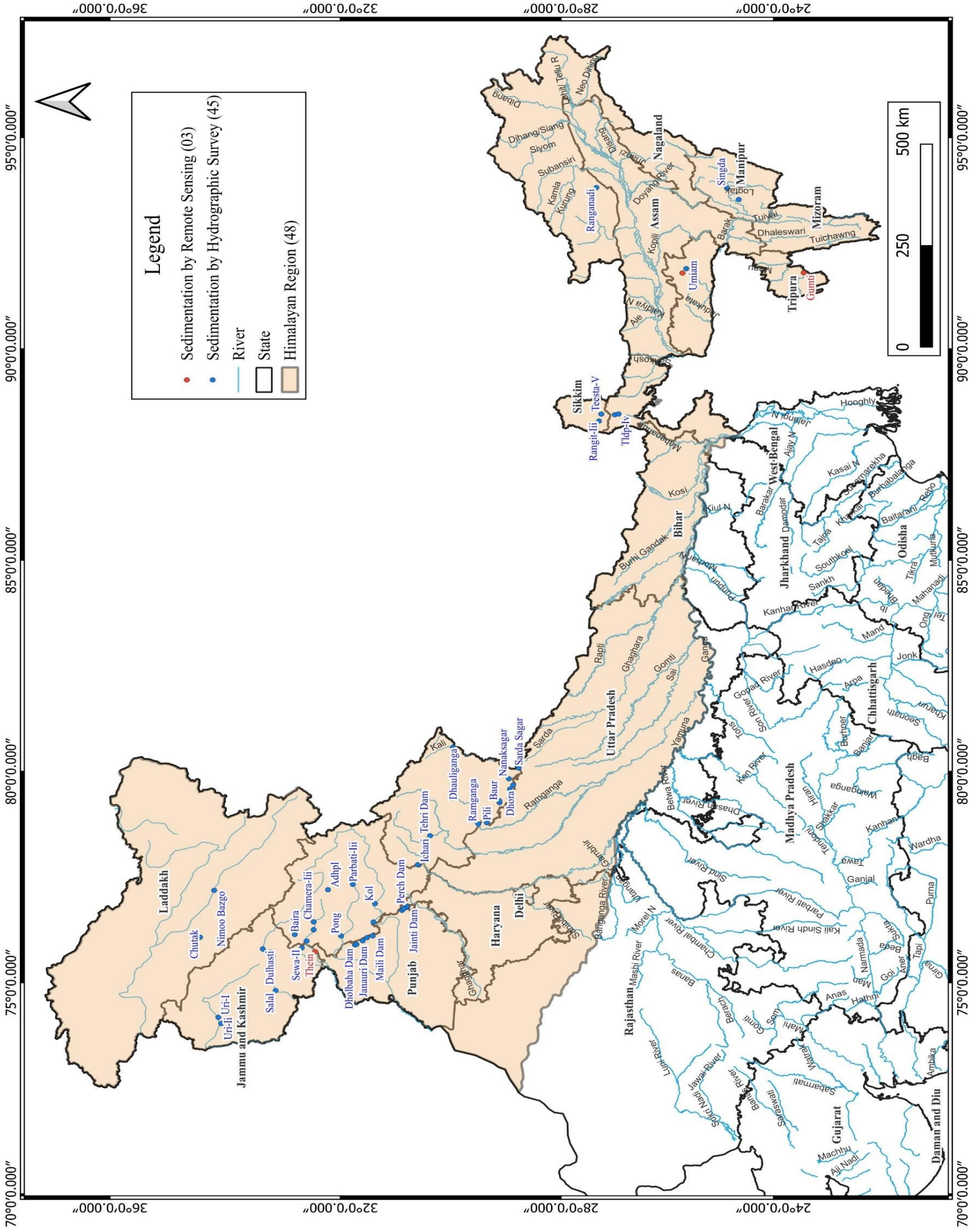
Ratio of actual rate of sedimentation to the design rate of sedimentation	No. of reservoirs	Average age of the reservoirs in years
Less than 1	33	41
1-2	27	44
2-3	12	48
3-4	6	53
4-5	3	44
Greater than 5	22	34

In the above table, it can be seen that in most of the cases design rate of sedimentation has been assumed very less. This can be attributed to lack of availability of region wise rate of sedimentation data for the designers as the first compendium was published in 1991 and the most of above reservoirs were designed prior to that. This highlights the requirement of analysis and publication of documents like Compendium of Reservoir Sedimentation in India which provides insight of rate of sedimentation to the designers.

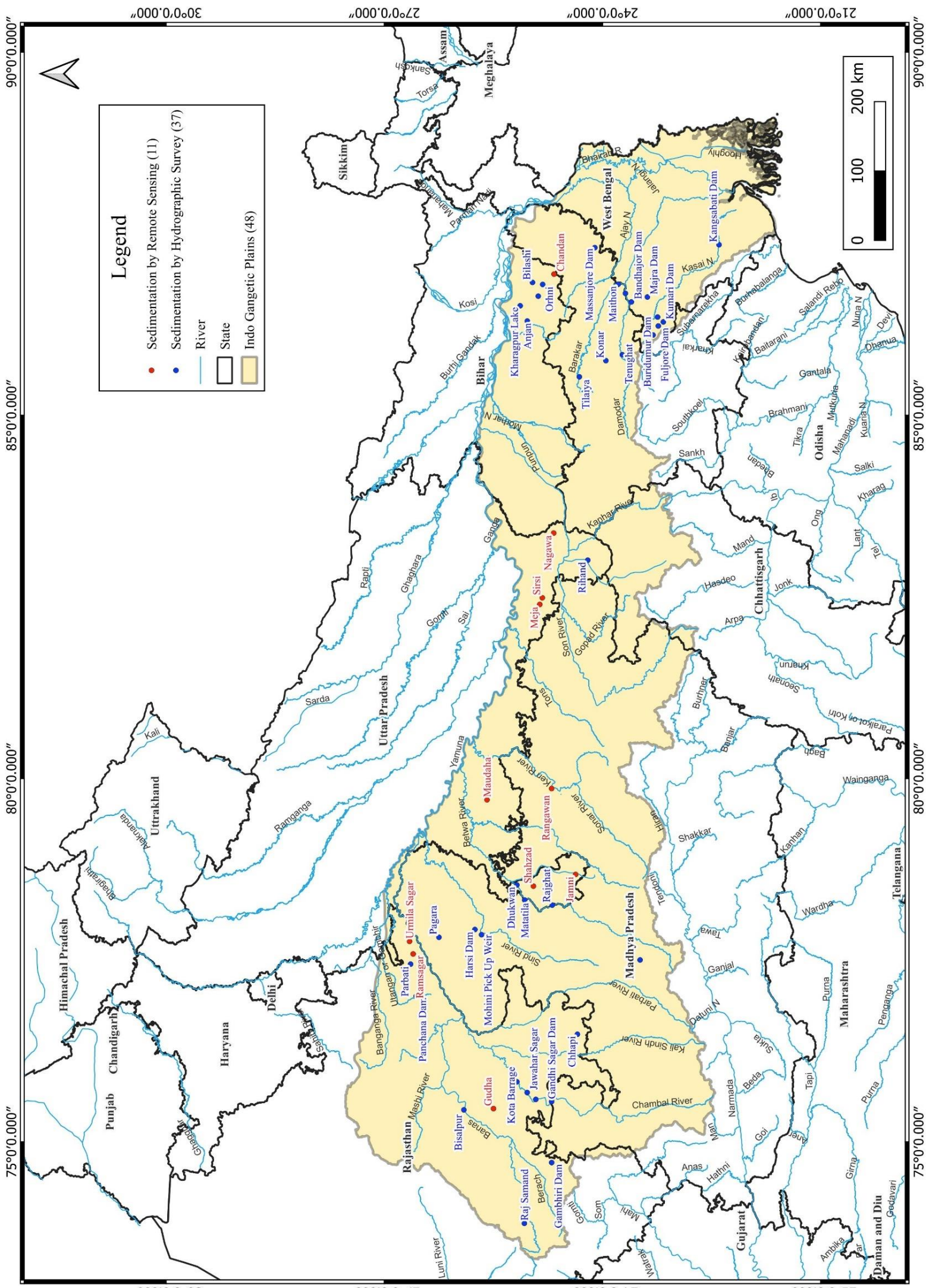
Region Wise Distribution of Reservoirs (548 Reservoirs)



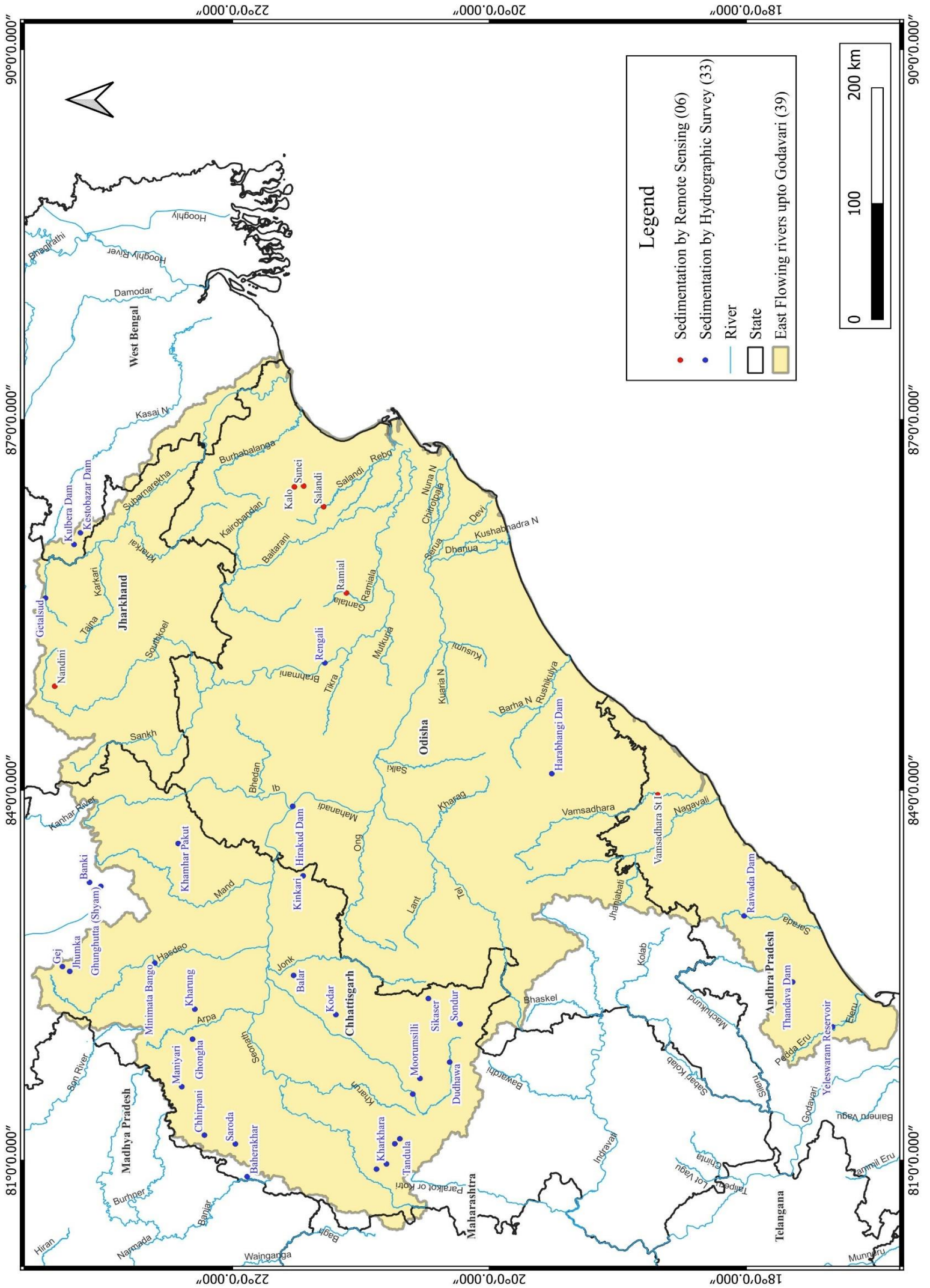
Region 1
Himalayan Region (48 Reservoirs)



Region 2
Indo Gangetic Plains (48 Reservoirs)

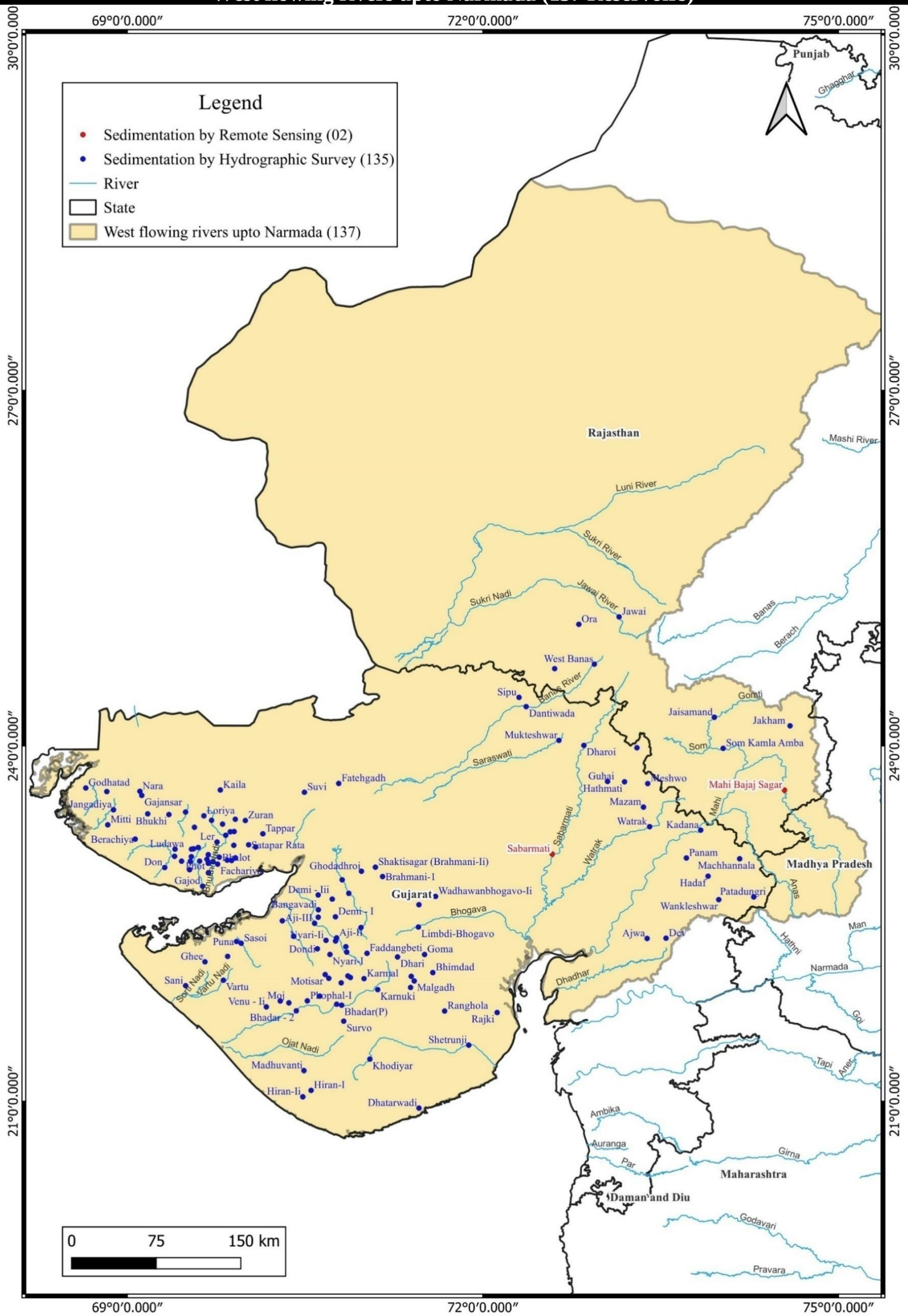


Region 3
East flowing rivers upto Godavari (39 Reservoirs)

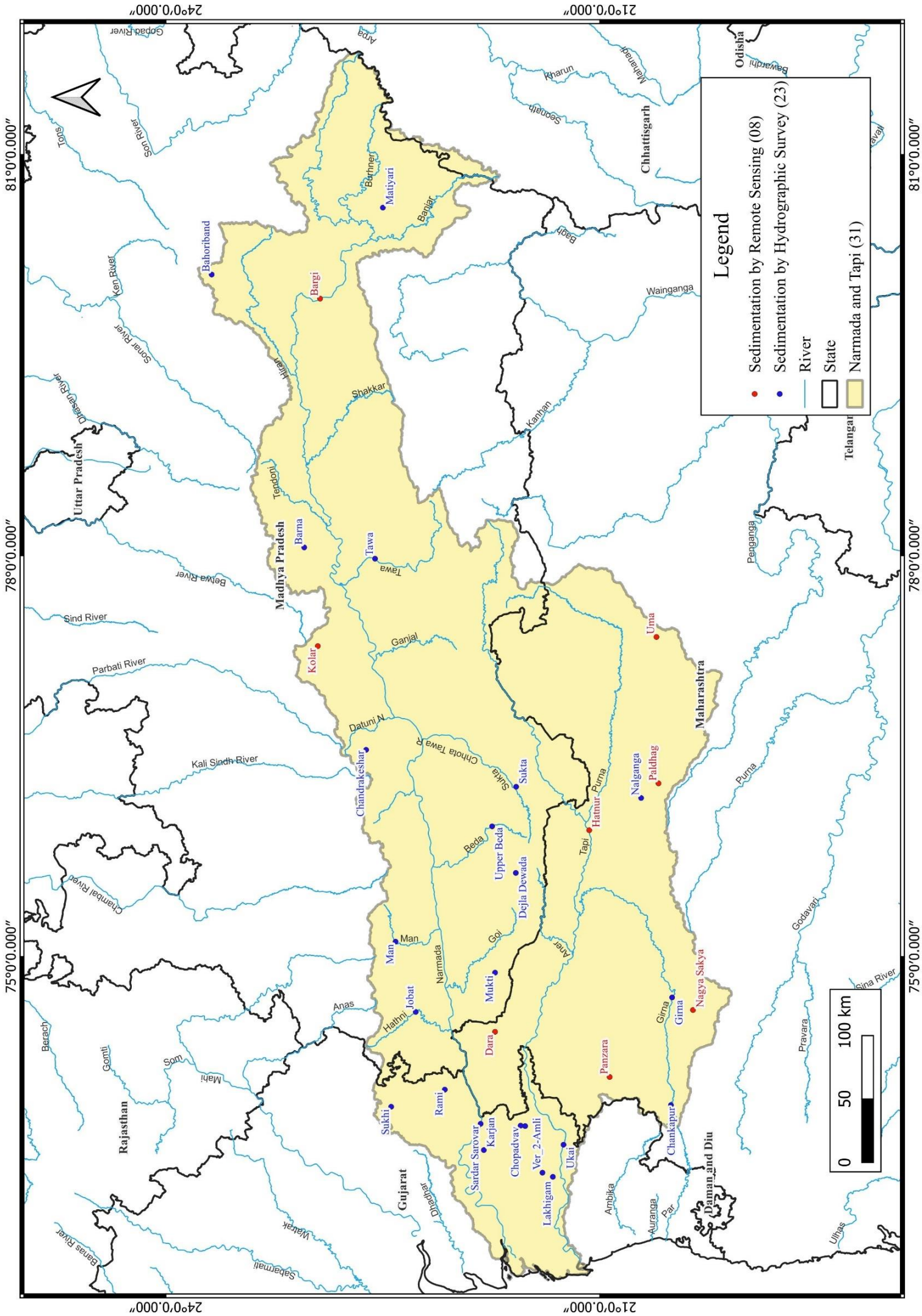


Region 4
Deccan Peninsular East flowing rivers including Godavari and South Indian Rivers (194 Reservoirs)

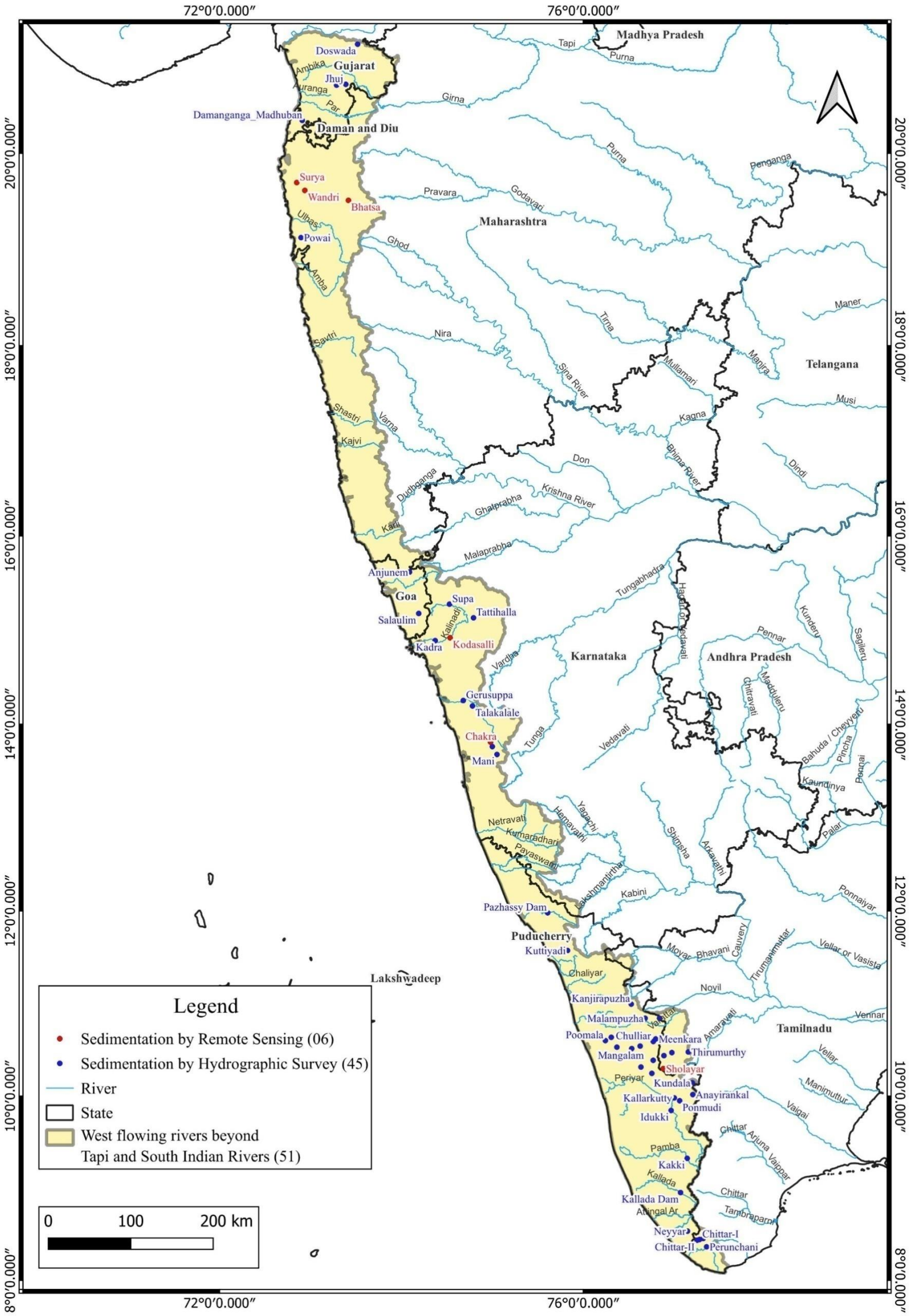
Region 5
West flowing rivers upto Narmada (137 Reservoirs)



Region 6
Narmada and Tapi (31 Reservoirs)



Region 7
West flowing rivers beyond Tapi and South Indian rivers (51 Reservoirs)



Details of Sedimentation survey of all 548 Reservoirs in India

S. No.	State	Name of Reservoir	Name of River	Catchment Area in Sq.Km.	Year of Completion/ first impound ment	Year of last Survey	Initial Gross Storage in MCM	Total Loss of Gross Storage upto Last Survey in MCM	Percentage % loss of Gross storage upto Last Survey	Percentage % loss of live storage upto Last Survey	Percentage % loss of Dead storage upto Last Survey	Avearge Annual % Loss in Gross Storage	Average Observed rate of siltation (Th.Cu.m/ Sq.km./Yr)
1	Andhra Pradesh	Cumbum Tank	Gundukarmma	993.00	1956	1978	105.76	21.61	20.43	-	-	0.93	0.99
2	Andhra Pradesh	Mylavaram	Pennar	49720	1969	2021	198.58	21.68	10.92	8.64	35.87	0.21	0.01
3	Andhra Pradesh	Raiwada Dam	Sarada	448	1982	2023	101.94	13.43	13.17	10.91	35.98	0.32	0.73
4	Andhra Pradesh	Rallapadu Dam	Manneru	2202	1958	2021	31.33	-9.56	-30.52	-29.85	-70.60	-0.48	-0.07
5	Andhra Pradesh	Srisailam Reservoir	Krishna	60350	1976	2021	8,723.09	2,891.38	33.15	28.76	53.34	0.74	1.06
6	Andhra Pradesh	Thandava Dam	Thandava	448	1975	2023	140.50	16.11	11.47	7.25	44.58	0.24	0.75
7	Andhra Pradesh	Vamsadhara St I	Vamsadhara	9,731.00	1977	2004	-	ND	-	61.43	-	ND	-
8	Andhra Pradesh	Velugodu Balancing Reservoir	Galeru	220	1996	2021	479.34	-5.25	-1.10	-0.37	-16.61	-0.04	-0.95
9	Andhra Pradesh	Yeleswaram Reservoir	Yeleru	2232	1991	2021	682.77	25.38	3.72	0.76	12.32	0.12	0.38
10	Andhra Pradesh	Yerracalva	Yerracalva	1,085.00	1988	2013	70.36	ND	-	5.29	-	ND	-
11	Arunanchal Pradesh	Ranganadi	Ranganadi (Panior)	1,894.00	2002	2017	21.28	15.80	74.25	33.33	89.22	4.95	0.56
12	Bihar	Anjan	Anjan	82.00	1989	2022	26.68	1.26	4.72	1.58	44.16	0.14	0.47
13	Bihar	Badua	Badua	480.70	1965	2006	129.25	15.81	12.23	9.21	29.17	0.30	0.80
14	Bihar	Bilashi	Bilashi	56.46	2001	2022	32.57	1.50	4.61	0.42	37.22	0.22	1.27
15	Bihar	Chandan	Chandan	549.00	1967	2004	146.07	ND	-	52.24	-	ND	-
16	Bihar	Kharagpur Lake	Mani	178.94	1876	2021	16.51	1.16	7.03	7.03	-	0.11	0.10
17	Bihar	Orhni	Orhni	146.50	2000	2022	51.56	17.44	33.82	35.16	25.39	1.54	5.41
18	Chhattisgarh	Baherakhar	Kukurbahra	36.240	1981	2021	14.76	3.29	22.29	19.62	56.97	0.56	2.27
19	Chhattisgarh	Balar	Balar Nallah	81.52	1982	2021	39.67	1.52	3.83	3.95	2.37	0.10	0.48
20	Chhattisgarh	Banki	Banki	37.120	1994	2021	18.42	1.71	9.30	5.48	57.60	0.34	1.71
21	Chhattisgarh	Chhirpani	Phonk	163.300	1992	2021	51.92	11.04	21.27	20.06	57.31	0.73	2.33
22	Chhattisgarh	Dudhawa	Mahanadi	625.27	1963	2021	288.60	34.48	11.95	11.31	53.36	0.21	0.95
23	Chhattisgarh	Gej	Gej	57.020	2002	2021	25.50	0.46	1.79	0.39	13.95	0.09	0.42
24	Chhattisgarh	Ghongha	Ghongha	111.370	1981	2021	33.97	3.27	9.63	5.52	41.06	0.24	0.73

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25	Chhattisgarh	Ghunghutta (Shyam)	Ghunghutta	492.000	2000	2021	82.00	23.14	28.22	22.10	47.23	1.34	2.24
26	Chhattisgarh	Gondali	Juar	194.250	1956	2021	101.55	5.34	5.26	4.58	18.64	0.08	0.42
27	Chhattisgarh	Jhumka	Jhumka Nalla	69.150	1993	2021	25.31	1.66	6.55	2.01	49.77	0.23	0.86
28	Chhattisgarh	Khamhar Pakut	Khamhar Pakut	50.580	1991	2021	21.87	3.71	16.95	9.57	74.38	0.56	2.44
29	Chhattisgarh	Kharkhara	Kharkhara	371.66	1967	2021	169.90	1.49	0.88	-0.90	7.61	0.02	0.07
30	Chhattisgarh	Kharung	Kharung	614.000	1930	2021	195.13	18.50	9.48	8.40	82.90	0.10	0.33
31	Chhattisgarh	Kinkari	Kinkari Nalla	42.910	1982	2021	16.79	2.19	13.07	10.88	45.23	0.34	1.31
32	Chhattisgarh	Kodar	Mahanadi	317.170	1984	2021	160.35	21.32	13.30	13.83	6.25	0.36	1.82
33	Chhattisgarh	Maniyari	Maniyari	854.200	1930	2021	151.26	40.96	27.08	25.51	92.25	0.30	0.53
34	Chhattisgarh	Matiyamoti	Moti Nalla	82.875	1988	2021	29.46	5.22	17.73	16.68	27.05	0.54	1.91
35	Chhattisgarh	Minimata Bango	Hasdeo	6730.000	1990	2021	3,416.00	196.18	5.74	5.17	10.45	0.19	0.94
36	Chhattisgarh	Moorumsilli	Siliyari	484.33	1923	2021	158.51	9.89	6.24	4.68	76.73	0.06	0.21
37	Chhattisgarh	Ravi Shankar Sagar Dam	Mahanadi	3670	1979	2021	909.32	83.43	9.17	8.61	12.21	0.22	0.54
38	Chhattisgarh	Saroda	Utani	94.250	1963	2021	31.15	3.27	10.49	8.30	76.80	0.18	0.60
39	Chhattisgarh	Sikaser	Pairy	497.000	1977	2021	216.50	23.32	10.77	10.10	18.29	0.24	1.07
40	Chhattisgarh	Sondur	Sondur	512.0	1988	2021	198.10	53.08	26.79	26.98	25.03	0.81	3.14
41	Chhattisgarh	Tandula	Tandula and Sukha	827.090	1923	2021	312.25	23.32	7.47	7.35	10.94	0.08	0.29
42	Goa	Anjunem	Costi nadi	17.18	1989	2021	44.83	9.34	20.83	19.73	79.44	0.65	16.99
43	Goa	Salaulim	Selaulim River/ Zurai	209.04	1990	2021	234.00	25.18	10.76	10.25	27.15	0.35	3.89
44	Gujarat	Aji - 1	Aji	142.45	1954	2021	26.43	-2.28	-8.62	-10.04	75.57	-0.41	-0.76
45	Gujarat	Aji-II	Tributory of Aji	450.66	1986	2022	22.09	3.44	15.58	11.12	85.26	0.43	0.21
46	Gujarat	Aji-III	Tributory of Aji	1378.53	1989	2022	61.95	8.18	13.20	10.19	49.49	0.40	0.18
47	Gujarat	Ajwa	Surya Rivulet	177.30	1891	1987	62.70	7.71	12.30	-	-	0.13	0.45
48	Gujarat	Bangavadi	Savadiyanal Tributory of Aji	96.5	1988	2022	6.04	-0.14	-2.35	0.15	-164.13	-0.07	-0.04
49	Gujarat	Baukha	Tributory of Kaila	9.37	1976	2022	0.55	-0.03	-4.91	19.09	-	-0.11	-0.06
50	Gujarat	Berachiya	Tributory of Naira	160.06	1987	2022	6.87	1.01	14.66	4.36	57.16	0.42	0.18

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51	Gujarat	Bhadar - 1	Bhadar	2406.00	1964	2021	237.86	24.69	10.38	4.81	98.33	0.18	0.18
52	Gujarat	Bhadar - 2	Bhadar	612.78	2000	2021	49.00	7.21	14.72	15.89	7.89	0.92	0.74
53	Gujarat	Bhadar(P)	Bhadar	407.00	1983	2009	46.72	15.77	33.76	26.88	73.96	1.30	1.49
54	Gujarat	Bhalot	Tributory of Local	7.51	1976	2022	0.43	0.25	57.44	49.17	100.00	1.25	0.71
55	Gujarat	Bhimdad	Madhu	109.82	1953	1986	11.19	4.50	40.21	-	-	1.22	1.24
56	Gujarat	Bhukhi	Tributory of Bhukhi	156.9	1983	2022	15.58	3.09	19.84	16.30	71.40	0.51	0.51
57	Gujarat	Bhuvad	Tributory of Local	14.76	1965	2022	0.89	0.04	4.72	-6.00	100.00	0.08	0.05
58	Gujarat	Brahmani-1	Brahmani	699.3	1953	2021	74.95	1.37	1.83	1.46	9.15	0.03	0.03
59	Gujarat	Chhaparwadi - II	Tributory of Chhaparvadi	375.43	1978	2022	17.26	1.03	5.98	10.41	-142.40	0.14	0.06
60	Gujarat	Chopadvav	Doman	27.84	1985	2020	10.15	4.53	44.63	40.21	100.00	1.28	4.65
61	Gujarat	Chunadi	Tributory of Nag	6.73	1985	2022	0.40	0.22	54.09	46.04	98.39	1.46	0.88
62	Gujarat	Damanganga_Madhuba n	Damanganga.	1813	1983	2020	567.00	45.45	8.02	5.81	25.08	0.22	0.68
63	Gujarat	Dantiwada	Banas	2862	1965	2020	464.39	75.32	16.22	13.66	74.04	0.29	0.48
64	Gujarat	Darsadi	Tributory of Local	8.29	1971	2022	0.70	0.25	35.00	20.36	93.57	0.69	0.58
65	Gujarat	Demi - I	Tributory of Demi	170.65	1959	2022	22.17	0.15	0.65	0.55	32.43	0.01	0.01
66	Gujarat	Demi - II	Tributory of Demi	428.64	1989	2022	21.38	-0.21	-0.98	-3.22	30.49	-0.03	-0.01
67	Gujarat	Demi - III	Tributory of Demi	573.89	2001	2022	9.60	-0.98	-10.24	2.05	-102.39	-0.49	-0.08
68	Gujarat	Dev	Deo	259.000	1986	2021	84.09	22.65	26.94	24.48	51.04	0.77	2.50
69	Gujarat	Dhaneti	Tributory of Local	36.03	1953	2022	2.68	0.70	26.04	24.74	45.29	0.38	0.28
70	Gujarat	Dhari	Tributory of Sukhbhadar	64.25	1972	2022	3.62	0.45	12.51	9.03	23.88	0.25	0.14
71	Gujarat	Dharoi	Sabarmati	5540	1976	2020	907.88	88.37	9.73	3.92	43.92	0.22	0.36
72	Gujarat	Dhatarwadi	Dhatarwadi	429.94	1975	1986	32.73	5.93	18.12	-	-	1.65	1.25
73	Gujarat	Don	Tributory of Khrod	140.29	1987	2022	2.28	0.33	14.37	-2.67	40.90	0.41	0.07
74	Gujarat	Dondi	Tributory of Dondi	52	2001	2022	3.80	0.87	22.87	16.95	42.50	1.09	0.80
75	Gujarat	Doswada	Mindhola	62.160	1913	2021	5.00	1.57	31.40	30.63	50.00	0.29	0.23
76	Gujarat	Edmond	Tributory of Nag	12.31	1946	2022	0.99	-0.63	-63.94	-69.06	100.00	-0.84	-0.68

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77	Gujarat	Fachariya	Tributory of Local	5.18	1961	2022	0.47	0.06	12.98	-18.75	80.67	0.21	0.19
78	Gujarat	Faddangbeti	Tributory of Beti	106	1992	2022	5.89	0.11	1.95	1.77	3.85	0.07	0.04
79	Gujarat	Faradi	Tributory of Faradi	53.61	1964	2022	6.18	1.66	26.78	19.58	85.00	0.46	0.53
80	Gujarat	Fatehgadh	Malan	103.60	1987	2021	7.45	3.41	45.74	39.80	93.57	1.35	0.97
81	Gujarat	Fulzar-I	Und	142.45	1957	1986	14.90	2.67	17.92	-	-	0.62	0.65
82	Gujarat	Gajansar	Tributory of Naira	165.7	1967	2022	5.99	2.08	34.62	21.43	59.32	0.63	0.23
83	Gujarat	Gajod	Tributory of Nagmati	167.25	1955	2022	10.67	3.36	31.52	26.85	87.56	0.47	0.30
84	Gujarat	Ghee	Ghee	129.49	1953	1986	13.84	1.23	8.89	-	-	0.27	0.29
85	Gujarat	Ghelo Somnath	Ghelo Tributory of Ghelo	59.57	1964	2022	8.13	3.23	39.67	35.76	74.91	0.68	0.93
86	Gujarat	Ghelo-I	Ghelo	103.60	1963	1986	13.35	3.35	25.09	-	-	1.09	1.41
87	Gujarat	Ghodadhroi	Tributory of Ghodadhroi	145.55	1990	2022	8.34	0.55	6.55	1.88	20.43	0.20	0.12
88	Gujarat	Godhatad	Tributory of Mitiariwali	187.7	1978	2022	13.97	3.69	26.42	20.53	83.85	0.60	0.45
89	Gujarat	Goma	Goma	155.40	1972	1986	18.26	2.35	12.87	-	-	0.92	1.08
90	Gujarat	Gondali	Tributory of Gondali	67.42	1957	2022	11.36	-2.74	-24.08	-24.74	-9.72	-0.37	-0.62
91	Gujarat	Guhai	Guhai River	422.17	1990	2021	68.75	1.15	1.68	-0.43	18.86	0.05	0.09
92	Gujarat	Hadaf	Hadaf	507.640	1986	2021	32.26	4.83	14.97	15.30	13.84	0.43	0.27
93	Gujarat	Harnav	Harnav	116	1990	2021	21.67	1.01	4.68	3.34	20.41	0.15	0.28
94	Gujarat	Hathmati	Hathmati	595	1971	2020	161.31	12.56	7.78	4.35	70.84	0.16	0.43
95	Gujarat	Hiran-I	Hiran	80.91	1966	1987	21.65	1.43	6.61	-	-	0.31	0.84
96	Gujarat	Hiran-II	Hiran	168.00	1981	1998	38.58	3.43	8.89	3.20	64.89	0.52	1.20
97	Gujarat	Ishwariya	Tributory of Saran	54.8	1983	2022	5.25	0.54	10.32	6.58	55.75	0.26	0.25
98	Gujarat	Jamara Mis	Tributory of Local	7.25	1950	2022	1.10	0.05	4.46	8.29	-	0.06	0.09
99	Gujarat	Jangadiya	Tributory of Khari	147.63	1985	2022	9.05	1.96	21.71	9.24	60.58	0.59	0.36
100	Gujarat	Jhuj	Ambika (Tributary of Kaveri)	42.99	1990	2020	28.65	3.81	13.28	10.95	73.55	0.44	2.95
101	Gujarat	Jinkadi-2	Tributory of Local	2.59	1953	2022	0.39	0.18	46.67	47.44	-	0.68	1.02
102	Gujarat	Kabir Sarovar	Tributory of Chhaparwadi	90.655	1975	2022	6.49	0.01	0.17	7.02	-151.79	0.00	0.00

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103	Gujarat	Kadana	Mahi	25,486.00	1977	2000	1,543.00	293.74	19.04	20.64	13.36	0.83	0.50
104	Gujarat	Kaila	Tributory of Kaila	178	1955	2022	13.98	5.44	38.89	29.28	100.00	0.58	0.46
105	Gujarat	Kakdiamba	Wagti	24.22	1985	2020	7.87	1.92	24.42	17.88	97.08	0.70	2.27
106	Gujarat	Kalaghogha	Tributory of Phot	170.94	1987	2022	4.96	1.73	34.89	25.42	90.69	1.00	0.29
107	Gujarat	Kanazara	Tributory of Local Stream	46.62	1964	2022	2.94	0.94	32.07	8.10	87.30	0.55	0.35
108	Gujarat	Kankavati	Tributory of Kankavati	207.5	1956	2022	10.51	0.55	5.27	0.21	78.61	0.08	0.04
109	Gujarat	Karjan	Karjan	1403.78	1984	2021	630.00	48.60	7.71	4.56	45.16	0.21	0.94
110	Gujarat	Karmal	Tributory of Karmal	167.57	1984	2022	12.70	0.22	1.76	2.59	-1.79	0.05	0.04
111	Gujarat	Karnuki	Tributory of Karnuki	103.6	2004	2022	8.54	0.07	0.83	0.30	19.74	0.05	0.04
112	Gujarat	Kaswati	Tributory of Kaswati	66.56	1987	2022	8.20	0.94	11.51	10.60	41.15	0.33	0.41
113	Gujarat	Keliya	Kharera Tributary of River Kaveri	27.58	1984	2020	18.10	2.44	13.46	10.40	85.37	0.37	2.45
114	Gujarat	Khedoi	Tributory of Local	56.46	2003	2022	2.75	0.10	3.56	2.34	36.00	0.19	0.09
115	Gujarat	Khengar Sagar	Tributory of Bhukhi	151.51	1944	2022	9.60	2.57	26.72	17.93	88.82	0.34	0.22
116	Gujarat	Khodapipar	Tributory of Ghogham	53.07	1996	2022	2.99	0.01	0.33	-3.91	15.30	0.01	0.01
117	Gujarat	Khodiyar	Shetrunji	383.00	1962	2021	40.36	9.55	23.65	23.65	-	0.40	0.42
118	Gujarat	Lakhigam	Dhakani Khadi	13.340	1982	2021	4.90	0.64	12.97	11.87	30.88	0.33	1.22
119	Gujarat	Lalpari	Tributory of Lalpari	82.88	1988	2022	5.11	-0.31	-6.12	-1.84	-	-0.18	-0.11
120	Gujarat	Ler	Tributory of Pat	14.5	1939	2022	2.21	1.27	57.24	42.02	100.00	0.69	1.05
121	Gujarat	Limbdi-Bhogavo	Limbdi-Bhogavo	331.50	1960	1986	30.15	7.66	25.41	-	-	0.98	0.89
122	Gujarat	Loriya	Tributory of Local Stream	9.6	1970	2022	0.57	0.27	47.89	35.51	100.00	0.92	0.54
123	Gujarat	Ludawa	Tributory of Local	12.43	1984	2022	0.84	-0.30	-35.36	19.87	-495.56	-0.93	-0.63
124	Gujarat	Machhannala	Machhan	244.910	1982	2021	37.91	4.80	12.66	7.10	31.20	0.32	0.50
125	Gujarat	Machhu-1	Machhu	730.00	1959	2021	83.13	1.35	1.63	-0.44	100.00	0.03	0.03
126	Gujarat	Machhu-2	Machhu	1193.47	1972	2021	100.75	8.74	8.67	2.34	67.72	0.18	0.15
127	Gujarat	Machhu-3	Tributory of Machhu	2088.05	2015	2022	7.99	0.03	0.35	0.19	1.05	0.05	0.00
128	Gujarat	Madhuvanti	Madhuvanti	45.32	1973	1986	12.14	0.49	4.04	-	-	0.31	0.83

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129	Gujarat	Malgadh	Tributory of Ghelo	32.24	1985	2022	2.65	0.25	9.45	7.50	54.55	0.26	0.21
130	Gujarat	Mamuara	Tributory of Local	7.68	1943	2022	0.74	0.37	50.34	49.79	60.00	0.64	0.61
131	Gujarat	Mathal	Tributory of Dhadodh	114	1985	2022	12.29	1.43	11.64	6.32	65.82	0.31	0.34
132	Gujarat	Mazam	Mazam	407.8	1984	2021	43.86	4.12	9.39	5.15	30.71	0.25	0.27
133	Gujarat	Meshwo	Meshwo	259	1968	2021	82.12	9.75	11.88	6.55	96.37	0.22	0.71
134	Gujarat	Mitti	Mitti	260.295	1983	2021	20.24	4.23	20.92	12.30	56.30	0.55	0.43
135	Gujarat	Moj	Tributory of Moj	440.3	1995	2022	36.69	0.25	0.70	0.70	-	0.03	0.02
136	Gujarat	Motisar	Tributory of Motisar	34.32	1992	2022	2.58	0.05	2.09	-3.08	51.43	0.07	0.05
137	Gujarat	Mukteshwar	Saraswati	305.62	1990	2021	41.00	9.82	23.94	19.90	40.12	0.77	1.04
138	Gujarat	Nara	Nara	233.01	1986	2021	39.70	-4.54	-11.42	-11.77	-2.42	-0.33	-0.56
139	Gujarat	Naranpar	Tributory of Nag	12.17	1950	2022	0.90	-1.73	-192.33	-387.22	100.00	-2.67	-1.98
140	Gujarat	Nirona	Tributory of Bharud	388.35	1958	2022	27.17	3.06	11.25	8.57	25.94	0.18	0.12
141	Gujarat	Nyari-I	Tributory of Nyari & Vagudadi	158	1975	2022	27.00	-3.91	-14.47	-20.68	75.86	-0.31	-0.53
142	Gujarat	Nyari-II	Tributory of Nyari	314	1986	2022	13.00	1.19	9.12	2.11	72.15	0.25	0.10
143	Gujarat	Paddhar	Tributory of Local	4.91	1959	2022	0.38	-0.14	-37.37	-51.47	82.50	-0.59	-0.46
144	Gujarat	Panam	Panam	2314.000	1977	2021	735.80	75.00	10.19	8.22	33.83	0.23	0.74
145	Gujarat	Patadungri	Khan	249.000	1954	2021	41.06	8.03	19.55	17.14	87.22	0.29	0.48
146	Gujarat	Phophal-I	Tributory of Phophal	525.77	1974	2022	59.61	10.40	17.45	6.53	88.61	0.36	0.41
147	Gujarat	Phot	Tributory of Phot	18.13	1961	2022	2.30	0.18	7.90	8.55	3.21	0.13	0.16
148	Gujarat	Puna	Sasoi	137.27	1954	1986	13.99	4.15	29.66	-	-	0.93	0.94
149	Gujarat	Punadi	Tributory of Local	5.7	1959	2022	0.60	0.09	14.33	8.46	52.50	0.23	0.24
150	Gujarat	Rajki	Malan	88.06	1964	1986	12.02	2.79	23.21	-	-	1.06	1.44
151	Gujarat	Rami	Narmada	25.00	1983	1999	7.08	2.53	35.73	32.00	87.00	2.23	6.33
152	Gujarat	Ranghola	Rangholi	370.37	1952	1986	44.52	7.84	17.61	-	-	0.52	0.62
153	Gujarat	Ratnal	Tributory of Local Stream	29.78	1981	2022	1.67	0.07	4.31	1.21	16.00	0.11	0.06
154	Gujarat	Rudramata	Khari	383.17	1970	2021	64.74	4.82	7.44	0.81	48.59	0.15	0.25

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155	Gujarat	Sabarmati	Sabarmati	5,540.00	1976	2003	907.89	ND	-	5.28	-	ND	-
156	Gujarat	Sanandro	Tributory of Kail	147.57	1955	2022	10.34	0.48	4.63	2.60	86.80	0.07	0.05
157	Gujarat	Sani	Sani	506.00	1984	2010	55.08	16.06	29.16	30.28	23.38	1.12	1.22
158	Gujarat	Sardar Sarovar	Narmada	26358	1995	2024	9,460.00	1,210.99	12.80	5.02	24.92	0.44	1.58
159	Gujarat	Sasoi	Sasoi	562.03	1954	2009	51.00	13.03	25.55	18.78	99.98	0.46	0.42
160	Gujarat	Satapar Rata	Tributory of Local	56.98	1950	2022	3.07	0.25	8.08	7.37	16.74	0.11	0.06
161	Gujarat	Serai Mis	Tributory of Serai	56.32	1981	2022	3.82	0.25	6.44	3.08	89.26	0.16	0.11
162	Gujarat	Shaktisagar (Brahmani-II)	Tributory of Brahmani	850.81	2011	2022	19.80	0.50	2.50	12.90	-145.43	0.23	0.05
163	Gujarat	Shetrunji	Shetrunji	4,317.00	1959	2008	415.41	81.22	19.55	12.38	85.83	0.40	0.38
164	Gujarat	Sipu	Banas	122.00	1992	2007	177.80	16.37	9.21	6.79	26.47	0.61	8.95
165	Gujarat	Sodvadar	Utavali Tributory of Bhadar River	48.22	2001	2022	4.89	0.88	18.04	16.32	49.03	0.86	0.87
166	Gujarat	Sukhi	Sukhi	411.810	1987	2021	178.47	3.23	1.81	0.56	20.28	0.05	0.23
167	Gujarat	Surkhan	Tributory of Surkhan	58.27	1966	2022	4.02	0.57	14.18	1.89	60.71	0.25	0.17
168	Gujarat	Survo	Tributory of Survo	238.11	2000	2022	13.90	0.58	4.17	5.17	-53.81	0.19	0.11
169	Gujarat	Suvi	Tributory of Suvi	160.52	1969	2022	14.28	5.43	38.04	31.65	70.00	0.72	0.64
170	Gujarat	Tappar	Sakara	283.6	1967	2021	48.81	1.92	3.93	3.52	95.35	0.07	0.13
171	Gujarat	Ukai	Tapi	62,225.00	1972	2003	8,510.00	1,095.71	12.88	5.17	51.56	0.42	0.57
172	Gujarat	Und-1	Und	769.00	1988	2021	72.50	-1.38	-1.91	-7.06	46.08	-0.06	-0.05
173	Gujarat	Vachhapari	Tributory of Vachhapari	39.8	1970	2022	6.12	-0.28	-4.59	-2.38	-27.41	-0.09	-0.14
174	Gujarat	Vadzar	Tributory of Local	6.34	1984	2022	0.83	0.74	88.92	84.91	96.00	2.34	3.06
175	Gujarat	Varshamedi	Tributory of Local	12.95	1942	2022	1.78	0.10	5.84	4.77	100.00	0.07	0.10
176	Gujarat	Vartu	Vartu	170.94	1964	1986	13.30	1.60	12.03	-	-	0.55	0.43
177	Gujarat	Venu - II	Tributory of Venu	781.68	1988	2022	22.58	6.06	26.84	23.16	45.12	0.79	0.23
178	Gujarat	Ver_2-Amli	Ver	90.00	1984	2020	38.30	6.42	16.77	14.39	87.44	0.47	1.98
179	Gujarat	Veri	Tributory of Veri	178.42	1901	2022	10.88	3.14	28.86	36.56	1.67	0.24	0.15
180	Gujarat	Vijaysagar Mis	Tributory of Kojachora	229.21	1948	2022	20.82	2.88	13.84	7.80	92.77	0.19	0.17

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181	Gujarat	Wadhovan Bhogavo	Wadhovan Bhogavo	435.10	1960	1986	18.15	2.67	14.71	-	-	0.57	0.24
182	Gujarat	Wadhovan Bhogavo-II	Wadhovan Bhogavo	569.77	1959	1986	23.36	2.97	12.71	-	-	0.47	0.19
183	Gujarat	Wankleshwar	Bed River (River that joins Panam	44.500	1978	2021	13.30	0.68	5.11	4.72	7.95	0.12	0.36
184	Gujarat	Watrak	Watrak	1114	1984	2021	176.20	7.71	4.38	4.08	6.33	0.12	0.19
185	Gujarat	Zuran	Tributory of Zuran	14.77	1946	2022	0.93	0.49	52.37	49.66	100.00	0.69	0.43
186	Himachal Pradesh	ADHPL	Allain & Duhangan revulets	195.10	2010	2018	0.22	0.00	0.00	19.00	-2,150.00	0.00	0.00
187	Himachal Pradesh	Baira	Baira	669.00	1980	2017	3.75	3.05	81.33	75.81	92.13	2.20	0.12
188	Himachal Pradesh	Bhakra	Sutlej	56,880.00	1963	2022	9,867.84	2,509.27	25.43	18.49	46.66	0.43	0.75
189	Himachal Pradesh	Chamera-I	Ravi	4,725.00	1994	2018	391.30	196.20	50.14	7.33	63.84	2.09	1.73
190	Himachal Pradesh	Chamera-II	Ravi	2,593.00	2003	2018	2.25	0.57	25.33	11.46	55.88	1.69	0.01
191	Himachal Pradesh	Chamera-III	Ravi	2,203.00	2012	2018	5.48	2.51	45.80	20.88	95.11	7.63	0.19
192	Himachal Pradesh	Parbati-III	Sainj	650.00	2014	2018	1.67	0.46	27.54	23.44	41.03	6.89	0.18
193	Himachal Pradesh	Pong	Indus	12,562.00	1974	2018	8,579.00	1,068.88	12.46	10.79	21.93	0.28	1.93
194	Himachal Pradesh	Kol	Sutlej	7361.00	2015	2021	576.00	111.00	19.27	18.86	19.34	3.21	2.51
195	Jharkhand	Getalsud	Subarnrekha	717	1971	2022	291.73	31.86	10.92	5.99	30.03	0.21	0.87
196	Jharkhand	Konar	Damodar	842.000	1955	2020	281.35	94.15	33.46	28.61	50.88	0.51	1.72
197	Jharkhand	Maithon	Barakar	6293.000	1955	2019	813.80	294.35	36.17	29.25	56.52	0.57	0.73
198	Jharkhand	Nandini	Nandini	58.08	1988	2015	19.28	ND	-	32.83	-	ND	-
199	Jharkhand	Panchet Hill Dam	Damodar	10878.000	1956	2020	488.50	210.28	43.05	31.96	54.89	0.67	0.30
200	Jharkhand	Tenughat	Damodar	4480.67	1978	2022	1,013.92	44.24	4.36	-2.35	29.80	0.10	0.22
201	Jharkhand	Tilaiya	Barakar	984.000	1953	2019	335.52	184.57	55.01	43.23	71.33	0.83	2.84
202	Jharkhand & West Bengal	Massanjore Dam	Mayurakshi	1859.6	1954	2022	608.21	51.98	8.55	5.35	33.90	0.13	0.41
203	Karnataka	Almatti	Krishna	35,925.00	2001	2007	3,486.00	150.34	4.31	-1.54	39.24	0.72	0.70
204	Karnataka	Basavasagara Reservoir	Krishna	47850	1982	2022	1,071.55	298.73	27.88	13.15	90.91	0.70	0.16
205	Karnataka	Bennithora	Bennithora	2204.09	2001	2017	149.98	ND	-	18.97	-	ND	-
206	Karnataka	Bhadra Reservoir	Bhadra	1968.4	1964	2020	2,025.87	-78.88	-3.89	-3.89	-3.95	-0.07	-0.72

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207	Karnataka	Chakra	Chakra	58.60	1985	2010	222.85	ND	-	4.34	-	ND	-
208	Karnataka	Gerusuppa	Sharavathi	151.50	2001	2021	130.74	4.77	3.65	1.38	5.50	0.18	1.57
209	Karnataka	Ghataprabha (Hidkal)	Ghatraprabha	1,411.55	1974	2000	1,434.14	115.52	8.06	6.51	39.03	0.31	3.15
210	Karnataka	Harangi	Cauvery	419.58	1982	2009	240.69	23.57	9.79	9.09	23.14	0.36	2.08
211	Karnataka	Hemavathy	Cauvery	2,810.00	1979	2009	1,050.63	76.13	7.25	9.06	-41.18	0.24	0.90
212	Karnataka	Hippargi	Krishna	22,699.00	1998	2007	99.74	3.57	3.58	1.98	7.06	0.40	0.02
213	Karnataka	Kabini	Kabini	2,141.90	1974	2010	552.63	23.06	4.17	-3.05	33.55	0.12	0.30
214	Karnataka	Kadra	Kali river	433.00	1997	2022	388.92	16.16	4.16	-0.04	9.03	0.17	1.49
215	Karnataka	Karanja	Karanja	2025.38	1989	2019	217.66	ND	-	-7.34	-	ND	-
216	Karnataka	Kodasalli	Kali	1,049.00	1999	2009	286.49	ND	-	11.70	-	ND	-
217	Karnataka	Krishnaraja Sagar	Cauvery	10,620.00	1932	2009	1,400.31	93.91	6.71	4.58	28.49	0.09	0.11
218	Karnataka	Linganamakki	Sharavathi	1991.71	1963	2021	4,435.35	475.54	10.72	9.33	53.13	0.18	4.12
219	Karnataka	Malaprabha	Malaprabha	2,176.00	1981	1991	1,239.66	78.58	6.34	3.12	33.35	0.63	3.61
220	Karnataka	Mani	Varahi	163.16	1989	2021	961.75	71.48	7.43	6.94	13.00	0.23	13.69
221	Karnataka	Nugu	Nugu	984.00	1959	2009	154.06	ND	-	6.45	-	ND	-
222	Karnataka	Savehaklu	Savehaklu	48.11	1980	2022	124.97	6.87	5.50	2.25	9.24	0.13	3.40
223	Karnataka	Supa	Kali river	1057.00	1987	2022	4,178.00	123.79	2.96	1.77	13.68	0.08	3.35
224	Karnataka	Talakalale	Sharavathi	46.62	1964	2021	129.65	4.78	3.69	-0.58	4.20	0.06	1.80
225	Karnataka	Tattihalla	Tattihalla	1165.00	1980	2022	264.03	20.53	7.78	6.43	30.47	0.19	0.42
226	Karnataka	Tungabhadra	Tungabhadra	28,180.00	1953	2008	3,751.17	895.28	23.87	23.19	100.00	0.43	0.58
227	Karnataka	Vani Vilas Sagar Reservoir	Vedavathi	1554	1901	2022	850.30	16.47	1.94	0.05	33.68	0.02	0.09
228	Kerala	Anayirankal	Panniar	65.68	1964	1997	49.84	15.41	30.92	-	-	0.94	7.11
229	Kerala	Chulliar	Bharatpuzha	27.80	1966	2009	13.70	0.48	3.47	-	-	0.08	0.40
230	Kerala	Idamalayar	Idamalayar	375.00	1986	2023	1,176.19	31.29	2.66	2.42	9.30	0.22	6.95
231	Kerala	Idukki	Periyar	668.830	1976	2023	1,998.57	106.88	5.35	4.18	8.52	0.11	3.40
232	Kerala	Kakki	Kakki	214.500	1966	2023	454.14	35.34	7.78	7.10	47.70	0.14	2.89

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233	Kerala	Kallada Dam	Kallada	549.00	1986	2018	577.25	169.86	29.43	19.66	99.88	0.92	9.67
234	Kerala	Kallarkutty	Mudhirapuzzha	759.85	1962	1992	6.80	0.75	11.00	-	-	0.37	0.03
235	Kerala	Kanjirapuzha	Kanjirapuzha	70.00	1980	2017	70.87	21.71	30.64	30.28	44.13	0.83	8.38
236	Kerala	Karapuzha Dam	Karapuzha	62.00	2005	2016	76.50	41.79	54.63	55.88	34.64	4.97	61.28
237	Kerala	Kundala	Palar	37.55	1948	1994	7.79	1.26	16.20	-	-	0.35	0.73
238	Kerala	Kuttiyadi	Kuttiyadi	108.78	1973	2010	120.52	28.65	23.77	20.17	81.43	0.64	7.12
239	Kerala	Madupetty	Palar	104.90	1967	1995	55.22	6.43	11.65	-	-	0.42	2.19
240	Kerala	Malampuzha	Bharathapuzha	147.64	1955	2006	226.00	30.67	13.57	8.65	91.13	0.27	4.07
241	Kerala	Mangalam	Cherrukunapuzha	48.85	1966	2015	25.49	5.61	21.99	21.68	73.33	0.45	2.34
242	Kerala	Meenkara	Meenkara	90.65	1960	2009	11.33	1.48	13.10	10.43	40.70	0.27	0.33
243	Kerala	Neyyar	Neyyar	139.86	1964	2015	106.25	8.91	8.38	0.68	78.43	0.16	1.25
244	Kerala	Parambikulam	Parambikulam	230.50	1967	2013	504.66	62.36	12.36	-	-	0.27	5.88
245	Kerala	Pazhassy Dam	Pazhassi	640.00	1979	2016	97.50	48.53	49.77	51.92	-672.32	1.35	2.05
246	Kerala	Peechi	Manali	107.10	1957	2013	110.43	15.48	14.02	12.89	67.50	0.25	2.58
247	Kerala	Ponmudi	Panniyar	220.52	1962	1992	51.54	11.08	21.50	-	-	0.72	1.67
248	Kerala	Poomala	Poomala	1.17	1968	2010	0.58	0.01	1.90	-	-	0.05	0.22
249	Kerala	Porinngalkuthu	Chalakudi	512.00	1957	1993	31.99	8.16	25.50	-	-	0.71	0.44
250	Kerala	Pothundi	Bharatpuzha	31.00	1971	2009	50.91	1.81	3.55	2.33	11.12	0.09	1.53
251	Kerala	Siruvani Dam	Siruvani	22.47	1984	2012	25.50	2.94	11.53	2.32	35.49	0.41	4.67
252	Kerala	Vazhani	Wadakkanchery	20.48	1959	2009	18.12	1.00	5.54	-0.22	70.56	0.11	0.98
253	Kerala	Walayar Dam	Bharathapuzha	106.36	1956	2009	18.40	2.37	12.89	4.88	50.75	0.24	0.42
254	Madhya Pradesh	Bahoriband	Bhuta Nalla	108.76	1927	2022	36.98	3.61	9.76	4.86	78.41	0.10	0.35
255	Madhya Pradesh	Bargi	Narmada	14,556.00	1990	2008	4,059.69	ND	-	3.38	-	ND	-
256	Madhya Pradesh	Barna	Barna	1176	1975	2023	539.10	86.24	16.00	13.70	28.58	0.33	1.53
257	Madhya Pradesh	Chandrakeshar	Chandrakeshar	111.37	1976	2022	30.08	3.81	12.66	9.51	69.18	0.28	0.74
258	Madhya Pradesh	Dejla Dewada	Kunda	335.40	1988	2022	56.35	5.01	8.88	0.60	77.61	0.26	0.44

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259	Madhya Pradesh	Gandhi Sagar Dam	Chambal	23025	1960	2024	7,746.00	846.20	10.92	7.21	41.66	0.17	0.57
260	Madhya Pradesh	Harsi Dam	Parwati	828	1935	2023	206.30	27.78	13.47	10.54	54.77	0.15	0.38
261	Madhya Pradesh	Jobat	Jobat	792.00	2007	2022	77.84	-9.40	-12.07	0.08	-121.18	-0.80	-0.79
262	Madhya Pradesh	Kolar	Kolar	759.00	1988	2006	270.00	ND	-	-8.17	-	ND	-
263	Madhya Pradesh	Man	man	690.00	2007	2022	147.64	24.73	16.75	12.90	44.18	1.12	2.39
264	Madhya Pradesh	Matiyari	matiyari	158.75	1986	2022	56.80	-4.94	-8.70	-10.12	4.10	-0.24	-0.86
265	Madhya Pradesh	Mohini Pick Up Weir	Sind	469.95	1989	2023	108.81	9.81	9.02	8.82	21.18	0.27	0.61
266	Madhya Pradesh	Pagara	Asan	540.5	1927	2023	120.40	21.53	17.88	17.88	-	0.19	0.41
267	Madhya Pradesh	Rangawan	Ken	828.80	1957	2009	164.24	ND	-	-4.39	-	ND	-
268	Madhya Pradesh	Samrat Ashok Sagar (Halali)	Halali (Thal)	735	1976	2023	329.61	45.90	13.93	9.93	60.85	0.30	1.33
269	Madhya Pradesh	Sarthi	Vartu	197.57	1974	1986	10.69	3.38	31.62	-	-	2.63	1.43
270	Madhya Pradesh	Sukta	Sukta	468.79	1984	2022	89.38	12.91	14.44	10.70	40.23	0.38	0.72
271	Madhya Pradesh	Tawa	Tawa	5396	1975	2023	2,311.54	546.22	23.63	16.39	61.91	0.72	3.07
272	Madhya Pradesh	Thanwar	Thanwe	417.00	1983	2005	149.89	ND	-	6.13	-	ND	-
273	Madhya Pradesh	Upper Beda	Narmada/Beda	523.00	2010	2022	91.82	22.31	24.30	19.12	49.62	2.02	3.55
274	Madhya Pradesh	Upper Wainganga	Wainganga	2,007.75	1995	2003	506.66	ND	-	3.86	-	ND	-
275	Maharashtra	Adol	Godavari	116.55	1989	2015	15.01	ND	-	35.07	-	ND	-
276	Maharashtra	Ashti	Ashti Nalla	238.28	1882	2023	41.54	22.42	53.97	42.62	95.00	0.38	0.67
277	Maharashtra	Asolamendha	Pathari	246.00	1918	1994	92.96	29.97	32.24	-	-	0.42	1.60
278	Maharashtra	Bendsura	Bendsura	188.42	1955	1995	13.12	5.24	39.95	-	-	1.00	0.70
279	Maharashtra	Bhama Askhed	Bhama	198.08	2000	2010	165.96	ND	-	5.18	-	ND	-
280	Maharashtra	Bhandardara	Godavari	121.73	1926	2019	312.60	ND	-	-1.15	-	ND	-
281	Maharashtra	Bhatghar	Yelwandi	331.50	1927	2007	672.65	108.59	16.14	16.14	-	0.20	4.09
282	Maharashtra	Bhatsa	Bhatsa	388.50	1979	2017	976.10	ND	-	44.11	-	ND	-
283	Maharashtra	Bhima (Ujjani)	Bhima	9201.400	1977	2023	3,320.00	545.05	16.42	12.04	20.10	0.36	1.29
284	Maharashtra	Bhojapur	Godavari	154.00	1972	2017	13.26	ND	-	3.52	-	ND	-

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285	Maharashtra	Chandani	Krishna	606.00	1965	2015	23.78	ND	-	37.86	-	ND	-
286	Maharashtra	Chankapur	Girna	269.00	1913	2009	79.94	17.52	21.92	18.79	100.00	0.23	0.68
287	Maharashtra	Chaskaman Dam	Bhima	305.56	1991	2023	241.69	18.73	7.75	4.97	29.68	0.24	1.92
288	Maharashtra	Chilewadi	Krishna	103.94	2000	2016	27.17	ND	-	35.56	-	ND	-
289	Maharashtra	Chitri	Krishna	27.85	2004	2017	53.41	ND	-	16.97	-	ND	-
290	Maharashtra	Dara	Tapi	63.71	2007	2013	14.76	ND	-	70.15	-	ND	-
291	Maharashtra	Darna	Godavari	404.00	1916	2015	226.96	ND	-	14.21	-	ND	-
292	Maharashtra	Dhom	Krishna	217.56	1977	2022	382.22	ND	-	8.67	-	ND	-
293	Maharashtra	Dimbhe	Ghod	298.00	1988	2023	420.67	8.17	1.94	1.32	8.21	0.15	2.11
294	Maharashtra	Dudhganga	Krishna	196.00	1999	2018	719.12	ND	-	2.38	-	ND	-
295	Maharashtra	Ekburji	Godavari	75.16	1964	2016	14.12	ND	-	21.14	-	ND	-
296	Maharashtra	Ekrukh	Adhella Nalla	411.81	1871	2023	94.30	31.78	33.70	34.04	27.31	0.22	0.51
297	Maharashtra	Gangapur	Godavari	357.40	1965	1997	212.51	48.89	23.01	-	-	0.72	4.27
298	Maharashtra	Gautami	Godavari	41.18	2006	2014	53.22	ND	-	15.70	-	ND	-
299	Maharashtra	Ghod	Ghod	2541.3	1965	2023	216.31	42.57	19.68	7.24	51.00	0.34	0.29
300	Maharashtra	Ghorazari	Godavari	90.65	1923	2015	50.24	ND	-	44.49	-	ND	-
301	Maharashtra	Girna	Girna	4,727.30	1969	2010	608.45	42.88	7.05	2.55	34.78	0.17	0.22
302	Maharashtra	Gosi Khurd Dam	Wainganga	5902	2010	2023	1,146.08	80.22	7.00	3.79	11.45	0.54	1.05
303	Maharashtra	Hatnur	Tapi	29,430.00	1982	2017	388.00	ND	-	59.41	-	ND	-
304	Maharashtra	Isapur	Penganga	4,650.00	1983	2021	1,241.26	ND	-	9.44	-	ND	-
305	Maharashtra	Itiadoh	Garvi	704.48	1972	2007	381.58	ND	-	-0.13	-	ND	-
306	Maharashtra	Jawalgaon	Krishna	223.00	1989	2016	34.91	ND	-	8.20	-	ND	-
307	Maharashtra	Jayakwadi	Godavari	21,774.00	1976	1999	2,909.04	249.80	8.59	4.34	21.09	0.37	0.50
308	Maharashtra	Kadwa	Godavari	173.23	1992	2016	59.59	ND	-	4.40	-	ND	-
309	Maharashtra	Kanher	Venna	204.69	1987	2018	286.00	ND	-	1.32	-	ND	-
310	Maharashtra	Karanjvan	Kadwa	248.00	1974	2008	175.57	16.96	9.66	5.23	73.55	0.28	2.01

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311	Maharashtra	Karpara	Godavari	270.00	1974	2014	28.82	ND	-	32.90	-	ND	-
312	Maharashtra	Kasari	Kasari	32.28	1989	2023	78.56	2.63	3.35	2.99	50.00	0.10	2.40
313	Maharashtra	Khadakwasla	Mutha	501.80	1879	2007	86.00	-1.87	-2.17	-14.21	20.30	-0.02	-0.03
314	Maharashtra	Khairy	Kar nadi	207.8	1990	2023	15.11	2.70	17.87	14.12	54.74	0.54	0.39
315	Maharashtra	Khaspur	Sina	554.20	1954	1996	19.82	6.34	31.97	-	-	0.76	0.27
316	Maharashtra	Khelna	Khelna	161.60	1964	1985	12.61	0.70	5.57	-	-	0.27	0.21
317	Maharashtra	Kolgaon	Hanga	55.74	1956	1988	2.87	1.37	47.87	-	-	1.50	0.77
318	Maharashtra	Koyna	Koyna	891.78	1962	2012	2,980.68	173.79	5.83	4.87	28.68	0.12	3.90
319	Maharashtra	Kurnur	Godavari	322.56	1968	2017	35.26	ND	-	4.96	-	ND	-
320	Maharashtra	Lower Terna	Terna	1373	1989	2023	160.49	48.76	30.38	24.01	46.00	0.89	1.04
321	Maharashtra	Majalgaon	Sindfana	3,840.00	1987	2010	454.00	45.92	10.11	6.17	18.79	0.44	0.52
322	Maharashtra	Manar	Manar	1,585.08	1969	1999	138.35	18.73	13.54	-	-	0.45	0.39
323	Maharashtra	Mandohol	Godavari	142.45	1981	2015	11.30	ND	-	39.64	-	ND	-
324	Maharashtra	Mangi	Kanola	304.00	1955	1995	33.84	3.44	10.15	-	-	0.25	0.28
325	Maharashtra	Manikdoh Dam	Kukadi	110	1984	2023	308.00	30.00	9.74	7.85	37.18	0.25	6.99
326	Maharashtra	Manjara	Manjara	2061.880	1980	2023	270.28	38.12	14.10	7.40	30.81	0.33	0.43
327	Maharashtra	Masoli	Godavari	281.07	1982	2014	34.08	ND	-	21.02	-	ND	-
328	Maharashtra	Matoba	Krishna	-	1878	2014	4.55	ND	-	0.00	-	ND	-
329	Maharashtra	Mayani	Krishna	135.17	1876	2015	1.46	ND	-	26.78	-	ND	-
330	Maharashtra	Mhaswad	Man	1,243.20	1888	1990	86.94	45.24	52.04	-	-	0.51	0.36
331	Maharashtra	Morana (Shirala)	Krishna	85.50	1985	2013	21.18	ND	-	4.92	-	ND	-
332	Maharashtra	Mukane	Godavari	129.59	1994	2015	214.16	ND	-	29.49	-	ND	-
333	Maharashtra	Mukti	Motinala	88.60	1893	1991	9.68	2.81	29.03	-	-	0.30	0.32
334	Maharashtra	Mula	Mula	2,275.86	1972	2008	738.02	41.57	5.63	3.98	13.26	0.16	0.51
335	Maharashtra	Nagya Sakya	Godavari	451.28	1982	2016	15.62	ND	-	11.68	-	ND	-
336	Maharashtra	Nalganga	Nalganga	315.98	1963	1985	76.20	4.34	5.69	-	-	0.26	0.62

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337	Maharashtra	Nazare	Karha	397.82	1975	1986	22.32	7.68	34.43	-	-	3.13	1.76
338	Maharashtra	Niradeoghar	Godavari	114.48	2002	2010	337.39	ND	-	10.80	-	ND	-
339	Maharashtra	Paldhag	Tapi	88.27	1978	2016	9.14	ND	-	14.51	-	ND	-
340	Maharashtra	Panshet	Ambi	120.30	1968	2007	310.62	28.43	9.15	8.32	36.44	0.23	6.06
341	Maharashtra	Panzara	Tapi	215.14	1994	2017	43.41	ND	-	23.69	-	ND	-
342	Maharashtra	Pimpalgaon Joge	Pushpavati-Aar	100	2000	2023	235.53	2.04	0.87	1.15	0.62	0.04	0.89
343	Maharashtra	Powai	Local nala	6.61	1890	1996	5.45	1.06	19.45	-	-	0.18	1.51
344	Maharashtra	Punegaon	Godavari	66.00	2002	2014	20.39	ND	-	7.97	-	ND	-
345	Maharashtra	Radhnagri	Bhogavati	108.80	1908	2011	236.79	27.97	11.81	7.68	65.81	0.11	2.50
346	Maharashtra	Ramsagar	Sur	212.35	1914	1987	117.18	14.78	12.61	-	-	0.17	0.95
347	Maharashtra	Renapur	Godavari	272.00	2000	2014	21.69	ND	-	11.77	-	ND	-
348	Maharashtra	Siddheshwar	Purna	440.00	1963	2007	250.71	ND	-	2.09	-	ND	-
349	Maharashtra	Sina	Sina	1266.52	1985	2023	67.95	29.04	42.74	44.70	36.17	1.12	0.60
350	Maharashtra	Sina Kolegaon	Sina	3841.230	2007	2023	150.49	17.13	11.38	5.84	19.48	0.71	0.28
351	Maharashtra	Sirpur	Bagh	432.53	1972	2007	203.84	ND	-	17.33	-	ND	-
352	Maharashtra	Surya	South Tapi	203.30	1990	2016	285.31	ND	-	35.27	-	ND	-
353	Maharashtra	Tembhapuri	Godavari	283.86	2006	2018	21.26	ND	-	-6.52	-	ND	-
354	Maharashtra	Temghar	Mutha	37.70	1997	2010	70.71	ND	-	8.13	-	ND	-
355	Maharashtra	Tisgaon	Godavari	97.00	1999	2014	15.46	ND	-	15.54	-	ND	-
356	Maharashtra	Totladoh	Pench	4,273.00	1982	2009	1,241.11	ND	-	6.68	-	ND	-
357	Maharashtra	Tulshi	Tulshi	34.92	1978	2023	98.29	3.47	3.53	2.65	18.04	0.08	2.21
358	Maharashtra	Uma	Tapi	129.76	1983	2016	14.01	ND	-	-15.85	-	ND	-
359	Maharashtra	Upper Wardha	Wardha	4,196.190	1993	2023	802.98	88.13	10.98	8.70	18.29	0.37	0.70
360	Maharashtra	Varasgaon	Musa	130.00	1986	2007	375.36	2.12	0.57	0.54	1.36	0.03	0.78
361	Maharashtra	Vir	Nira	1,756.00	1965	2008	278.50	39.36	14.13	11.36	74.37	0.33	0.52
362	Maharashtra	Visapur	Hanga	328	1927	2023	37.63	4.94	13.13	-	-	0.14	0.16

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363	Maharashtra	Wadaj	Meena	155	1983	2023	35.90	4.66	12.98	9.40	55.36	0.32	0.75
364	Maharashtra	Waghad	Kolvan	119.00	1978	2011	75.10	7.38	9.83	8.00	40.24	0.30	1.88
365	Maharashtra	Wandri	South Tapi	28.53	1984	2016	37.11	ND	-	19.25	-	ND	-
366	Maharashtra	Warna	Warna	301.00	1984	2003	974.19	49.15	5.05	1.91	17.57	0.27	8.59
367	Maharashtra	Yedgaon Dam	Kukadi	408.3	1977	2023	93.43	27.07	28.97	33.16	5.65	0.63	1.44
368	Maharashtra	Yeldari	Puma	7,329.70	1968	2011	934.44	134.34	14.38	8.15	54.81	0.33	0.43
369	Maharashtra	Yeralwadi	Krishna	766.84	1978	2014	33.24	ND	-	13.46	-	ND	-
370	Manipur	Khoupum	Manchen Diu	18.880	1995	2020	2.78	0.05	1.98	-	-	0.08	0.12
371	Manipur	Singda	Singda	25.300	1995	2020	9.71	3.28	33.78	-	-	1.35	5.19
372	Meghalaya	Kyrdem Kulai	Umtru	150.00	1983	2002	-	ND	-	10.73	-	ND	-
373	Meghalaya	Umiam	Umiam	220.00	1965	2004	179.76	20.55	11.43	5.01	37.77	0.29	2.40
374	Odisha	Balimela	Sileru	2953	1972	2023	3,610.53	476.53	13.20	9.22	24.60	0.26	3.16
375	Odisha	Harabhangi Dam	Harabhangi	503.8	1998	2023	141.25	3.03	2.15	2.35	1.82	0.09	0.24
376	Odisha	Hirakud Dam	Mahanadi	83400	1957	2024	8,144.14	2,202.28	27.04	17.59	50.80	0.40	0.39
377	Odisha	Kalo	Kalo	153.00	1981	2016	29.39	ND	-	12.85	-	ND	-
378	Odisha	Machhkund	Machhkund	1,955.00	1955	2002	970.50	ND	-	-6.91	-	ND	-
379	Odisha	Ramial	Ramial	328.00	1985	2007	86.00	ND	-	5.88	-	ND	-
380	Odisha	Rengali	Brahmani	25,250.00	1985	2023	4,400.00	346.93	7.88	4.06	21.12	0.21	0.36
381	Odisha	Salandi	Salandi	673.00	1982	2009	565.00	ND	-	6.81	-	ND	-
382	Odisha	Sunei	Sunei	227.00	1991	2007	70.00	ND	-	3.41	-	ND	-
383	Odisha	Upper Indravati	Upper Indravati	2,636.00	1989	2007	2,307.71	ND	-	-1.93	-	ND	-
384	Odisha	Upper Kolab	Kolab	1641.1	1986	2023	1,215.00	183.45	15.10	10.25	31.29	0.41	3.02
385	Punjab	Dholbaha Dam	Dholbaha Khad	56.14	1987	2021	11.38	1.87	16.43	11.77	63.75	0.48	0.98
386	Punjab	Jainti Dam	Soonk	7.1	2003	2021	2.87	0.67	23.16	17.93	76.82	1.29	5.20
387	Punjab	Janauri Dam	Janauri Khad	6.1	1986	2021	2.28	1.34	58.73	50.77	92.02	1.68	6.27
388	Punjab	Maili Dam	Maili Choe	17	1986	2021	4.81	2.35	48.86	41.04	96.52	1.40	3.95

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389	Punjab	Mirzapur Dam	Budki	13.9	1996	2021	4.30	3.12	72.44	62.38	100.00	2.90	8.96
390	Punjab	Patiari Dam	Patiari	11.71	2002	2021	3.46	1.84	53.09	50.70	100.00	2.79	8.26
391	Punjab	Perch Dam	Perch Khad	5.6	1993	2021	1.25	1.16	92.50	83.52	100.00	3.30	7.37
392	Punjab	Saleran Dam	Saleran	7.2	1998	2021	7.55	2.90	38.44	38.25	91.25	1.67	17.51
393	Punjab	Siswan Dam	Siswan	15.2	1996	2021	4.80	1.90	39.53	15.38	100.00	1.58	4.99
394	Punjab	Thein	Ravi	6100	1999	2022	3,280.00	ND	-	8.39	-	ND	-
395	Rajasthan	Bisalpur	Banas	27726	2004	2021	1,095.84	65.90	6.01	4.33	36.90	0.35	0.14
396	Rajasthan	Chhapi	Chhapi	751.53	2006	2023	82.57	9.09	11.01	6.61	47.00	0.65	0.71
397	Rajasthan	Gambhiri Dam	Gambhiri	948.04	1957	2023	55.01	0.68	1.24	0.92	12.42	0.03	0.02
398	Rajasthan	Gudha	Mej	744.96	1958	2007	95.57	ND	-	26.93	-	ND	-
399	Rajasthan	Jaisamand	Gomti	1792.19	1973	2023	422.74	49.28	11.66	5.89	25.46	0.23	0.55
400	Rajasthan	Jakham	Jakham	1010	1986	2021	182.73	14.38	7.87	7.27	22.12	0.41	0.75
401	Rajasthan	Jawahar Sagar	Chambal	2331	1972	2023	67.11	6.08	9.06	-1.29	14.85	0.18	0.05
402	Rajasthan	Jawai	Jawai	733	1950	2021	207.52	6.15	2.96	-3.00	85.25	0.04	0.12
403	Rajasthan	Kota Barrage	Chambal	2005	1960	2021	112.06	11.22	10.01	2.94	12.59	0.16	0.09
404	Rajasthan	Mahi Bajaj Sagar	Mahi	6,149.00	1983	2005	2,180.00	ND	-	7.70	-	ND	-
405	Rajasthan	Ora	Khari	235.52	1958	2023	22.65	2.14	9.45	8.12	91.89	0.15	0.14
406	Rajasthan	Panchana Dam	Utangan/Gambhir	620.31	2006	2023	59.45	8.13	13.68	8.62	52.79	0.80	0.77
407	Rajasthan	Parbati	Parbati	786	1963	2021	115.24	25.96	22.53	18.20	58.51	0.39	0.57
408	Rajasthan	Raj Samand	Chambal	513.8	1676	2021	107.15	-0.50	-0.47	5.63	-71.18	0.00	0.00
409	Rajasthan	Ramsagar	Bamani	176.00	1905	2003	30.83	ND	-	16.09	-	ND	-
410	Rajasthan	Ranapratap Sagar	Chambal	2280	1970	2021	3,128.11	296.91	9.49	0.76	20.08	0.19	2.55
411	Rajasthan	Som Kamla Amba	Som	1242.5	1992	2021	188.72	13.49	7.15	4.96	38.37	0.25	0.37
412	Rajasthan	Sukli Selwara	Sukli River	201.960	2008	2023	29.52	1.76	5.96	4.96	12.44	0.40	0.58
413	Rajasthan	Urmila Sagar	Babudhen	77.70	1905	2004	16.22	ND	-	2.97	-	ND	-
414	Rajasthan	West Banas	West Banas	414.4	1962	2023	39.08	4.87	12.46	7.12	80.57	0.20	0.19

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415	Sikkim	Rangit-III	Rangit	979	2000	2018	1.79	1.10	61.45	42.74	96.77	3.41	0.06
416	Sikkim	Teesta-V	Teesta	4307	2008	2018	13.52	4.22	31.21	11.31	32.32	3.12	0.10
417	Tamil Nadu	Adavinainar	Hanumannathi	15.54	2003	2010	4.93	0.09	1.79	1.79	-	0.26	0.81
418	Tamil Nadu	Aliyar	Aliyar	195.00	1962	2004	112.75	9.34	8.28	-	-	0.20	1.14
419	Tamil Nadu	Amravathy	Amravathy	839.16	1958	2013	117.16	22.58	19.27	-	-	0.35	0.49
420	Tamil Nadu	Anaikuttam	Arjuna	795.27	1990	2014	3.60	0.34	9.52	5.59	100.00	0.40	0.02
421	Tamil Nadu	Anaimaduvu	Anaimaduvu	145.02	1993	2013	7.56	0.31	4.14	-	-	0.21	0.11
422	Tamil Nadu	Barur Tank	Pannaiyar	35.07	1919	1986	7.04	0.18	2.56	-	-	0.04	0.08
423	Tamil Nadu	Berijam	-	7.77	1911	1987	2.20	0.39	17.81	17.81	-	0.23	0.66
424	Tamil Nadu	Bhavani Sagar	Bhavani	4134.50	1953	2021	813.56	97.92	12.04	10.51	69.34	0.18	0.35
425	Tamil Nadu	Chittar-I	Chittar	22.01	1970	1997	17.28	2.85	16.49	0.00	46.34	0.61	4.80
426	Tamil Nadu	Chittar-II	Chittar	26.16	1972	2010	28.59	5.93	20.74	0.00	51.16	0.55	5.97
427	Tamil Nadu	Emeraldavalanchi	Kundah	58.53	1961	2000	156.75	7.18	4.58	-	-	0.12	3.14
428	Tamil Nadu	Gadana	Gadana	46.46	1971	2003	9.97	1.84	18.49	18.49	-	0.58	1.24
429	Tamil Nadu	Glennmorgan (Fb)	Glennmorgan Stream	12.43	1976	1998	5.85	2.30	39.32	39.32	-	1.79	8.41
430	Tamil Nadu	Glennmorgan (Kariappa)	Glennmorgan Stream	2.59	1930	2013	0.74	0.04	5.41	5.41	-	0.07	0.19
431	Tamil Nadu	Gomukhinathi	Gomukhi (Vellar)	292.67	1965	2002	15.86	2.91	18.37	-	-	0.50	0.27
432	Tamil Nadu	Gunderipallam	Gunderipallam	72.23	1979	2010	3.06	0.30	9.80	-	-	0.32	0.13
433	Tamil Nadu	Kamraj Sagar	Kundah	44.04	1963	2002	26.62	6.83	25.66	14.37	-	0.66	3.98
434	Tamil Nadu	Kaveripakkam	Palar	157.99	1902	1996	41.73	4.80	11.50	-	-	0.12	0.32
435	Tamil Nadu	Kodaganar	Kodaganar	1,670.00	1977	2007	12.29	2.16	17.53	17.53	-	0.58	0.04
436	Tamil Nadu	Krishnagiri	Ponnaiyar	5,428.00	1957	2006	68.20	28.50	41.79	-	-	0.85	0.11
437	Tamil Nadu	Kundah	Kundah	113.96	1960	1982	1.76	1.11	63.07	58.33	100.00	2.87	0.44
438	Tamil Nadu	Kuthiraiyar	Kuthiraiyar	71.40	1990	2002	7.36	0.05	0.68	-	-	0.06	0.06
439	Tamil Nadu	Madhuranthagam	Killivaru	34.82	1798	2005	17.25	1.17	6.78	-	-	0.03	0.16
440	Tamil Nadu	Manimukthanadi	Manimuktha	478.72	1970	2012	20.88	2.60	12.47	-	-	0.30	0.13

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441	Tamil Nadu	Manimuthar	Thamirabarani	161.62	1958	2006	159.73	10.29	6.44	6.30	-	0.13	1.33
442	Tamil Nadu	Manjalar	Manjalar	119.14	1967	2009	13.76	4.31	31.34	31.34	-	0.75	0.86
443	Tamil Nadu	Manodai	Cauvery	21.42	1962	1986	2.47	0.16	6.57	-	-	0.27	0.32
444	Tamil Nadu	Maravakandy	Pykara	20.72	1947	2004	0.96	0.35	36.60	26.03	100.00	0.64	0.30
445	Tamil Nadu	Marudhanadhi	Marudhanathi	53.32	1979	2010	5.34	0.41	7.70	3.62	100.00	0.25	0.25
446	Tamil Nadu	Mettur	Cauvery	30569.60	1934	2021	2,708.76	484.47	17.89	16.63	71.50	0.21	0.18
447	Tamil Nadu	Mukurthy	Pykara	25.25	1938	2006	50.98	18.99	37.25	36.92	100.00	0.55	11.06
448	Tamil Nadu	Nagavathy	Nagavathy	105.36	1985	2012	4.65	0.48	10.25	-	-	0.38	0.17
449	Tamil Nadu	Palar Poranthalar	Palar and Poranthalar	259.00	1978	2000	43.19	1.56	3.61	-	-	0.16	0.27
450	Tamil Nadu	Pambar	Pambar	1,736.00	1983	2013	7.93	0.39	4.92	-	-	0.16	0.01
451	Tamil Nadu	Parappalar	Nangangi	72.88	1974	2003	5.61	1.59	28.27	28.27	-	0.97	0.75
452	Tamil Nadu	Parson' Valley	Kundah	14.50	1966	1995	19.25	8.25	42.86	36.01	100.00	1.48	19.62
453	Tamil Nadu	Pechipparai	Kodayar	172.00	1971	2013	150.27	43.50	28.94	13.35	100.00	0.69	6.02
454	Tamil Nadu	Pegumbahalla	Kundah	41.44	1966	1982	1.07	0.44	41.12	38.83	100.00	2.57	0.66
455	Tamil Nadu	Perumal Tank	Paravahar	504.59	1961	1998	17.77	2.78	15.65	-	-	0.42	0.15
456	Tamil Nadu	Perumpallam	Perumpallam Odai	44.53	1990	2012	3.28	0.13	4.09	-	-	0.19	0.14
457	Tamil Nadu	Perunchani	Kodayar	160.27	1953	2012	65.03	-4.07	-6.26	-	-	-0.11	-0.43
458	Tamil Nadu	Pillavukkal Periyar	Periyar	36.00	1976	2013	5.44	0.26	4.86	4.86	-	0.13	0.20
459	Tamil Nadu	Pillur	Bhavani	1,191.40	1967	2013	44.40	18.49	41.64	25.91	100.00	0.91	0.34
460	Tamil Nadu	Ponnaniyar	Ponnaniyar	87.02	1974	1995	3.39	1.08	31.90	31.90	-	1.52	0.59
461	Tamil Nadu	Porthimund	Kundah	10.55	1966	1996	60.00	12.11	20.18	0.00	84.84	0.67	38.25
462	Tamil Nadu	Pykara	Pykara	38.10	1954	2010	56.70	21.53	37.97	35.49	100.00	0.68	10.09
463	Tamil Nadu	Sathanur	Ponnaniyar	10,826.10	1957	1982	234.83	27.53	11.72	-	-	0.47	0.10
464	Tamil Nadu	Sathiyarar	Sathiyarar	95.71	1965	2010	1.59	0.46	28.81	15.37	100.00	0.64	0.11
465	Tamil Nadu	Sholayar	Sholayar	121.68	1972	2007	152.48	ND	-	6.10	-	ND	-
466	Tamil Nadu	Thirumurthy	Palar	80.29	1967	2009	54.80	7.00	12.77	-	-	0.30	2.07

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467	Tamil Nadu	Thoppiyar	Thoppiyar	276.90	1987	2012	8.46	0.50	5.92	-	-	0.24	0.07
468	Tamil Nadu	Thunakadavu	Thunakadavu	43.36	1965	2013	15.76	2.61	16.56	-	-	0.35	1.25
469	Tamil Nadu	Uppar Dam	Uppar	903.56	1968	1995	16.20	6.91	42.63	-	-	1.58	0.28
470	Tamil Nadu	Upper Bhawani	Bhavani	33.57	1965	1985	101.20	3.72	3.68	0.00	23.25	0.18	5.54
471	Tamil Nadu	Vaigai	Vaigai	2,255.13	1958	2012	194.79	32.07	16.46	15.83	100.00	0.30	0.26
472	Tamil Nadu	Vaniyar	Vaniyar	107.76	1983	2010	11.84	0.69	5.79	-	-	0.21	0.24
473	Tamil Nadu	Varadamanathi	Varadamanathi	74.07	1978	1998	3.06	-0.08	-2.61	-	-	-0.13	-0.05
474	Tamil Nadu	Varattupallam	Varattupallam	66.82	1980	2010	3.94	0.28	7.11	-	-	0.24	0.14
475	Tamil Nadu	Veeranam	Coleroon	427.35	1923	1991	40.81	13.06	32.01	-	-	0.47	0.45
476	Tamil Nadu	Vembakottai	Vaippar	1,593.55	1989	2013	11.29	1.12	9.94	9.82	100.00	0.41	0.03
477	Tamil Nadu	Vidur	Varahanadi	1,298.00	1959	2009	17.73	3.09	17.44	-	-	0.35	0.05
478	Tamil Nadu	Wallajah	Vellar	191.58	1923	1997	2.57	0.90	34.93	-	-	0.47	0.06
479	Tamil Nadu	Wellingdon	Vellar	2,849.50	1924	1991	71.46	19.43	27.19	-	-	0.41	0.10
480	Telangana	Dindi Project	Dindi	3920	1943	2022	73.83	6.07	8.22	-	-	0.10	0.02
481	Telangana	Himayatsagar	Easa	1,307.94	1927	1976	107.79	28.63	26.56	-	-	0.54	0.45
482	Telangana	Kaddam	Kaddam	2,656.25	1958	1977	124.43	46.25	37.17	-	-	1.96	0.92
483	Telangana	Kinnersani	Kinnerasani	1,332.55	1966	2010	237.82	ND	-	15.61	-	ND	-
484	Telangana	Lakhamvaram Lake	Lakhamvaram	268.06	1909	1975	60.42	18.84	31.18	-	-	0.47	1.06
485	Telangana	Large Tank Bayyaram	Munneru	576	1962	2023	11.62	1.09	9.38	6.49	94.59	0.15	0.03
486	Telangana	Lower Manair Project	Manair	2966.845	1982	2022	680.56	-35.28	-5.18	-6.22	5.59	-0.13	-0.30
487	Telangana	M. Baga Reddy Singur Project	Manjeera	16097	1989	2022	847.15	20.93	2.47	0.50	67.95	0.07	0.04
488	Telangana	Manjira	Manjira	16,770.25	1966	1977	50.94	18.74	36.79	-	-	3.34	0.10
489	Telangana	Mathadivagu Project	Mathadivagu	236	2008	2022	16.17	2.88	17.79	13.01	54.73	1.27	0.87
490	Telangana	Musi	Musi	9,090.00	1963	2013	136.94	ND	-	8.05	-	ND	-
491	Telangana	Nagarjuna Sagar	Krishna	2,15,185.00	1967	2009	11,553.00	2,716.96	23.52	11.66	40.73	0.56	0.30
492	Telangana	Nizamsagar	Manjara	21,694.00	1930	1992	841.18	508.66	60.47	-	-	0.98	0.38

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493	Telangana	Ntr Sagar Project (Chelimela Vagu)	Chalamala Vagu	103	1998	2022	10.49	1.71	16.30	7.20	62.51	0.68	0.69
494	Telangana	Palair	Palair	1,686.71	1928	1977	56.56	1.21	2.14	-	-	0.04	0.01
495	Telangana	Pocharam	Aliaru	673.40	1922	1978	16.85	3.78	22.45	-	-	0.40	0.10
496	Telangana	Priyadarshini Jurala Project	Krishna	82471	1996	2022	338.13	64.95	19.21	7.08	35.23	0.74	0.03
497	Telangana	Ralivagu Project	Ralivagu	131.36	2016	2022	11.57	5.01	43.30	40.23	87.30	7.22	6.36
498	Telangana	Ramadugu Project	Pedda Vagu	185.187	1964	2022	27.35	8.09	29.58	28.11	50.85	0.51	0.75
499	Telangana	Ramappa Lake	Manair	183.89	1919	2022	82.48	-11.95	-14.49	-	-	-0.14	-0.63
500	Telangana	Shanigram Tank	Siddipet	321.00	1891	1972	29.08	2.95	10.14	-	-	0.13	0.11
501	Telangana	Sri Komarambheem Project	Peddavagu	1132	2011	2022	294.29	25.03	8.50	-0.34	51.13	0.77	2.01
502	Telangana	Sri Ram Sagar Project	Godavari	51212	1970	2022	3,171.94	892.44	28.14	19.04	52.09	0.54	0.34
503	Telangana	Suddavagu Project (Gaddenavagu)	Suddavagu	699	2006	2022	52.46	0.62	1.17	-5.35	64.11	0.07	0.05
504	Telangana	Swarna Reservoir	Swarna	290	1978	2022	42.05	12.66	30.11	19.98	89.44	0.68	0.99
505	Telangana	Upper Manair Reservoir	Upper Manair	2166	1950	2022	84.97	25.79	30.35	22.41	96.52	0.42	0.17
506	Telangana	Wyra	Wyra	709.66	1929	1977	24.66	9.78	39.66	-	-	0.83	0.29
507	Tripura	Gumti	Gumti	338.00	1984	2020	328.40	ND	-	24.68	-	ND	-
508	UT of Jammu & Kashmir	Dulhasti	Chenab	10500	2006	2017	12.98	0.59	4.55	3.25	20.41	0.41	0.01
509	UT of Jammu & Kashmir	Salal	Chenab	21497	1987	2018	285.00	272.57	95.64	-	95.64	3.09	0.41
510	UT of Jammu & Kashmir	Sewa-II	Sewa	341	2010	2018	7.05	1.14	16.17	3.19	37.59	2.02	0.42
511	UT of Jammu & Kashmir	Uri-I	Jhelum	12750	1997	2018	0.36	0.12	34.11	-	-	1.62	0.00
512	UT of Jammu & Kashmir	Uri-Ii	Jhelum	13400	2013	2018	6.34	2.01	31.74	-	-	6.35	0.03
513	UT of Laddakh	Chutak	Suru	3488	2012	2018	0.59	0.17	28.23	-	-	4.71	0.01
514	UT of Laddakh	Nimoo Bazgo	Indus	58880	2013	2016	52.82	19.12	36.20	5.80	43.00	12.07	0.11
515	Uttar Pradesh	Matatila	Betwa	4403	1956	2023	985.65	306.94	31.14	23.73	90.70	0.51	1.14
516	Uttar Pradesh	Maudaha	Birma Tributary	1692	1991	2019	200.00	ND	-	0.71	-	ND	-
517	Uttar Pradesh	Meja	Belan	2020.02	1974	2018	302.99	ND	-	14.09	-	ND	-
518	Uttar Pradesh	Nagawa	Karmnasa	469	1950	2017	77.93	ND	-	11.00	-	ND	-

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519	Uttar Pradesh	Shahzad	Shahzad	514	1992	2018	127.42	ND	-	0.10	-	ND	-
520	Uttar Pradesh	Rihand	Rihand	13,333.00	1962	2003	10,608.32	1,588.33	14.97	14.99	14.86	0.37	2.91
521	Uttar Pradesh	Dhukwan	Betwa	21,340.00	1907	1980	106.45	47.42	44.55	-	-	0.61	0.03
522	Uttar Pradesh	Jamni	Jamni	410.00	1973	2010	92.87	ND	-	-5.35	-	ND	-
523	Uttar Pradesh	Pili	Pili	162.00	1962	2011	55.27	16.07	29.07	27.78	100.00	0.59	2.02
524	Uttar Pradesh	Sirsi	Sirsi	601.00	1958	2013	195.64	ND	-	16.33	-	ND	-
525	Uttar Pradesh & Madhya Pradesh	Rajghat	Betwa	16317	1999	2023	2,172.00	135.66	6.25	1.55	46.45	0.26	0.35
526	Uttarakhand	Baur	Baur & Kakrala	307.2	1967	2023	103.36	15.74	15.23	14.67	82.35	0.27	0.91
527	Uttarakhand	Haripura	Bhakra, Khazia & Nihal	294.4	1975	2023	28.32	13.15	46.43	45.07	98.61	0.97	0.93
528	Uttrakhand	Baigul	Baigul	302	1968	2005	86.68	21.26	24.53	16.51	100.00	0.66	1.90
529	Uttrakhand	Dhauliganga	Dhauliganga	1360	2005	2018	6.20	2.80	45.16	27.19	64.33	3.47	0.16
530	Uttrakhand	Dhora	Dhora	134.68	1962	2005	54.81	11.20	20.43	15.78	82.47	0.48	1.93
531	Uttrakhand	Ichari	Tons	4913	1966	2003	11.55	5.46	47.27	47.27	-	1.28	0.03
532	Uttrakhand	Nanaksagar	Deoha	570	1962	2008	209.80	29.30	13.97	12.43	47.10	0.30	1.12
533	Uttrakhand	Ramganga	Ramganga	3134.00	1974	2023	2,448.16	145.67	5.95	2.18	38.35	0.12	0.95
534	Uttrakhand	Sarda Sagar	Sarda	127.00	1962	2009	493.16	116.03	23.53	15.64	45.92	0.50	19.44
535	Uttrakhand	Tanakpur	Sharda	15100	1992	2018	5.96	1.91	32.05	-	-	1.23	0.00
536	Uttrakhand	Tehri Dam	Bhagirathi	7511	2005	2008	3,548.51	21.01	0.59	0.59	0.60	0.20	0.93
537	West Bengal	Bandhajor Dam	Bandajore	16.887	1982	2021	0.07	-0.03	-46.34	-	-	-1.19	-0.05
538	West Bengal	Buridumur Dam	Buridumur	3.23	1977	2021	0.19	0.01	5.15	-3.95	11.02	0.12	0.07
539	West Bengal	Fuljore Dam	Fuljore	3.885	1976	2021	0.20	0.17	82.50	-	-	1.83	0.94
540	West Bengal	Kangsabati Dam	Kangsabati and Kumari	1606	1965	2022	499.93	56.92	11.39	7.67	36.18	0.20	0.62
541	West Bengal	Kestobazar Dam	Kestobazar Nala	16.64	1969	2021	0.71	0.10	14.57	3.24	92.22	0.28	0.12
542	West Bengal	Kulbera Dam	Kulberia	20.48	1982	2021	0.80	0.77	96.36	-	-	2.47	0.96
543	West Bengal	Kumari Dam	Kumari	2020	1976	2022	544.63	49.34	9.06	6.85	22.07	0.20	0.53
544	West Bengal	Majra Dam	Majrajore	21.963	1982	2021	0.36	0.13	36.06	-	-	0.92	0.15

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545	West Bengal	Tara Dam	Tara	27.52	1975	2021	0.95	0.19	19.47	10.00	31.43	0.42	0.15
546	West Bengal	TLDP-III	Teesta	7755	2013	2016	18.36	7.19	39.16	5.44	59.03	13.05	0.31
547	West Bengal	TLDP-IV	Teesta	8021	2016	2018	36.63	15.41	42.07	2.41	52.98	21.03	0.96
548	West Bengal	Durgapur Barrage	Damodar	2,295.00	1955	2011	11.85	5.41	45.68	35.43	56.56	0.82	0.04

Details of Sedimentation Survey of workable 439 Reservoirs surveyed through Hydrographic Survey (Subset of 548 Reservoirs)

S. No.	State	Name of Reservoir	Name of River	Catchment Area in Sq.Km.	Year of Completion/ first impoundment	Year of last Survey	Initial Gross Storage in MCM	Total Loss of Gross Storage upto Last Survey	Percentage % loss of Gross storage upto Last Survey	Average Observed rate of siltation (Th.Cu.m/ Sq.km./Yr)
1	Andhra Pradesh	Cumbum Tank	Gundukarmma	993.00	1956	1978	105.76	21.61	20.43	0.99
2	Andhra Pradesh	Mylavaram	Pennar	49720	1969	2021	198.58	21.68	10.92	0.01
3	Andhra Pradesh	Raiwada Dam	Sarada	448	1982	2023	101.94	13.43	13.17	0.73
4	Andhra Pradesh	Srisailam Reservoir	Krishna	60350	1976	2021	8,723.09	2,891.38	33.15	1.06
5	Andhra Pradesh	Thandava Dam	Thandava	448	1975	2023	140.50	16.11	11.47	0.75
6	Andhra Pradesh	Yeleswaram Reservoir	Yeleru	2232	1991	2021	682.77	25.38	3.72	0.38
7	Arunanchal Pradesh	Ranganadi	Ranganadi (Panior)	1,894.00	2002	2017	21.28	15.80	74.25	0.56
8	Bihar	Anjan	Anjan	82.00	1989	2022	26.68	1.26	4.72	0.47
9	Bihar	Badua	Badua	480.70	1965	2006	129.25	15.81	12.23	0.80
10	Bihar	Bilashi	Bilashi	56.46	2001	2022	32.57	1.50	4.61	1.27
11	Bihar	Kharagpur Lake	Mani	178.94	1876	2021	16.51	1.16	7.03	0.10
12	Bihar	Orhni	Orhni	146.50	2000	2022	51.56	17.44	33.82	5.41
13	Chhattisgarh	Baherakhar	Kukurbahra	36.240	1981	2021	14.76	3.29	22.29	2.27
14	Chhattisgarh	Balar	Balar Nallah	81.52	1982	2021	39.67	1.52	3.83	0.48
15	Chhattisgarh	Banki	Banki	37.120	1994	2021	18.42	1.71	9.30	1.71
16	Chhattisgarh	Chhirpani	Phonk	163.300	1992	2021	51.92	11.04	21.27	2.33
17	Chhattisgarh	Dudhawa	Mahanadi	625.27	1963	2021	288.60	34.48	11.95	0.95
18	Chhattisgarh	Gej	Gej	57.020	2002	2021	25.50	0.46	1.79	0.42
19	Chhattisgarh	Ghongha	Ghongha	111.370	1981	2021	33.97	3.27	9.63	0.73
20	Chhattisgarh	Ghunghutta (Shyam)	Ghunghutta	492.000	2000	2021	82.00	23.14	28.22	2.24
21	Chhattisgarh	Gondali	Juar	194.250	1956	2021	101.55	5.34	5.26	0.42
22	Chhattisgarh	Jhumka	Jhumka Nalla	69.150	1993	2021	25.31	1.66	6.55	0.86
23	Chhattisgarh	Khamhar Pakut	Khamhar Pakut	50.580	1991	2021	21.87	3.71	16.95	2.44
24	Chhattisgarh	Kharkhara	Kharkhara	371.66	1967	2021	169.90	1.49	0.88	0.07
25	Chhattisgarh	Kharung	Kharung	614.000	1930	2021	195.13	18.50	9.48	0.33
26	Chhattisgarh	Kinkari	Kinkari Nalla	42.910	1982	2021	16.79	2.19	13.07	1.31
27	Chhattisgarh	Kodar	Mahanadi	317.170	1984	2021	160.35	21.32	13.30	1.82
28	Chhattisgarh	Maniyari	Maniyari	854.200	1930	2021	151.26	40.96	27.08	0.53
29	Chhattisgarh	Matiyamoti	Moti Nalla	82.875	1988	2021	29.46	5.22	17.73	1.91
30	Chhattisgarh	Minimata Bango	Hasdeo	6730.000	1990	2021	3,416.00	196.18	5.74	0.94
31	Chhattisgarh	Moorumsilli	Siliyari	484.33	1923	2021	158.51	9.89	6.24	0.21
32	Chhattisgarh	Ravi Shankar Sagar Dam	Mahanadi	3670	1979	2021	909.32	83.43	9.17	0.54

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33	Chhattisgarh	Saroda	Utani	94.250	1963	2021	31.15	3.27	10.49	0.60
34	Chhattisgarh	Sikaser	Pairy	497.000	1977	2021	216.50	23.32	10.77	1.07
35	Chhattisgarh	Sondur	Sondur	512.0	1988	2021	198.10	53.08	26.79	3.14
36	Chhattisgarh	Tandula	Tandula and Sukha	827.090	1923	2021	312.25	23.32	7.47	0.29
37	Goa	Anjunem	Costi nadi	17.18	1989	2021	44.83	9.34	20.83	16.99
38	Goa	Salaulim	Selaulim River/ Zurai	209.04	1990	2021	234.00	25.18	10.76	3.89
39	Gujarat	Aji-II	Tributory of Aji	450.66	1986	2022	22.09	3.44	15.58	0.21
40	Gujarat	Aji-III	Tributory of Aji	1378.53	1989	2022	61.95	8.18	13.20	0.18
41	Gujarat	Ajwa	Surya Rivulet	177.30	1891	1987	62.70	7.71	12.30	0.45
42	Gujarat	Berachiya	Tributory of Naira	160.06	1987	2022	6.87	1.01	14.66	0.18
43	Gujarat	Bhadar - 1	Bhadar	2406.00	1964	2021	237.86	24.69	10.38	0.18
44	Gujarat	Bhadar - 2	Bhadar	612.78	2000	2021	49.00	7.21	14.72	0.74
45	Gujarat	Bhadar(P)	Bhadar	407.00	1983	2009	46.72	15.77	33.76	1.49
46	Gujarat	Bhalot	Tributory of Local	7.51	1976	2022	0.43	0.25	57.44	0.71
47	Gujarat	Bhimdad	Madhu	109.82	1953	1986	11.19	4.50	40.21	1.24
48	Gujarat	Bhukhi	Tributory of Bhukhi	156.9	1983	2022	15.58	3.09	19.84	0.51
49	Gujarat	Bhuvad	Tributory of Local	14.76	1965	2022	0.89	0.04	4.72	0.05
50	Gujarat	Brahmani-1	Brahmani	699.3	1953	2021	74.95	1.37	1.83	0.03
51	Gujarat	Chhaparwadi - II	Tributory of Chhaparvadi	375.43	1978	2022	17.26	1.03	5.98	0.06
52	Gujarat	Chopadvav	Doman	27.84	1985	2020	10.15	4.53	44.63	4.65
53	Gujarat	Chunadi	Tributory of Nag	6.73	1985	2022	0.40	0.22	54.09	0.88
54	Gujarat	Damanganga_Madhuban	Damanganga.	1813	1983	2020	567.00	45.45	8.02	0.68
55	Gujarat	Dantiwada	Banas	2862	1965	2020	464.39	75.32	16.22	0.48
56	Gujarat	Darsadi	Tributory of Local	8.29	1971	2022	0.70	0.25	35.00	0.58
57	Gujarat	Demi - I	Tributory of Demi	170.65	1959	2022	22.17	0.15	0.65	0.01
58	Gujarat	Dev	Deo	259.000	1986	2021	84.09	22.65	26.94	2.50
59	Gujarat	Dhaneti	Tributory of Local	36.03	1953	2022	2.68	0.70	26.04	0.28
60	Gujarat	Dhari	Tributory of Sukhbhadar	64.25	1972	2022	3.62	0.45	12.51	0.14
61	Gujarat	Dharoi	Sabarmati	5540	1976	2020	907.88	88.37	9.73	0.36
62	Gujarat	Dhatarwadi	Dhatarwadi	429.94	1975	1986	32.73	5.93	18.12	1.25
63	Gujarat	Don	Tributory of Khrod	140.29	1987	2022	2.28	0.33	14.37	0.07
64	Gujarat	Dondi	Tributory of Dondi	52	2001	2022	3.80	0.87	22.87	0.80
65	Gujarat	Doswada	Mindhola	62.160	1913	2021	5.00	1.57	31.40	0.23
66	Gujarat	Fachariya	Tributory of Local	5.18	1961	2022	0.47	0.06	12.98	0.19
67	Gujarat	Faddangbeti	Tributory of Beti	106	1992	2022	5.89	0.11	1.95	0.04
68	Gujarat	Faradi	Tributory of Faradi	53.61	1964	2022	6.18	1.66	26.78	0.53

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69	Gujarat	Fatehgadh	Malan	103.60	1987	2021	7.45	3.41	45.74	0.97
70	Gujarat	Fulzar-I	Und	142.45	1957	1986	14.90	2.67	17.92	0.65
71	Gujarat	Gajansar	Tributory of Naira	165.7	1967	2022	5.99	2.08	34.62	0.23
72	Gujarat	Gajod	Tributory of Nagmati	167.25	1955	2022	10.67	3.36	31.52	0.30
73	Gujarat	Ghee	Ghee	129.49	1953	1986	13.84	1.23	8.89	0.29
74	Gujarat	Ghelo Somnath	Ghelo Tributory of Ghelo	59.57	1964	2022	8.13	3.23	39.67	0.93
75	Gujarat	Ghelo-I	Ghelo	103.60	1963	1986	13.35	3.35	25.09	1.41
76	Gujarat	Ghodadhroi	Tributory of Ghodadhroi	145.55	1990	2022	8.34	0.55	6.55	0.12
77	Gujarat	Godhatad	Tributory of Mitiariwali	187.7	1978	2022	13.97	3.69	26.42	0.45
78	Gujarat	Goma	Goma	155.40	1972	1986	18.26	2.35	12.87	1.08
79	Gujarat	Guhai	Guhai River	422.17	1990	2021	68.75	1.15	1.68	0.09
80	Gujarat	Hadaf	Hadaf	507.640	1986	2021	32.26	4.83	14.97	0.27
81	Gujarat	Harnav	Harnav	116	1990	2021	21.67	1.01	4.68	0.28
82	Gujarat	Hathmati	Hathmati	595	1971	2020	161.31	12.56	7.78	0.43
83	Gujarat	Hiran-I	Hiran	80.91	1966	1987	21.65	1.43	6.61	0.84
84	Gujarat	Hiran-II	Hiran	168.00	1981	1998	38.58	3.43	8.89	1.20
85	Gujarat	Ishwariya	Tributory of Saran	54.8	1983	2022	5.25	0.54	10.32	0.25
86	Gujarat	Jamara Mis	Tributory of Local	7.25	1950	2022	1.10	0.05	4.46	0.09
87	Gujarat	Jangadiya	Tributory of Khari	147.63	1985	2022	9.05	1.96	21.71	0.36
88	Gujarat	Jhuj	Ambika (Tributary of	42.99	1990	2020	28.65	3.81	13.28	2.95
89	Gujarat	Jinkadi-2	Tributory of Local	2.59	1953	2022	0.39	0.18	46.67	1.02
90	Gujarat	Kabir Sarovar	Tributory of Chhaparwadi	90.655	1975	2022	6.49	0.01	0.17	0.00
91	Gujarat	Kadana	Mahi	25,486.00	1977	2000	1,543.00	293.74	19.04	0.50
92	Gujarat	Kaila	Tributory of Kaila	178	1955	2022	13.98	5.44	38.89	0.46
93	Gujarat	Kakdiamba	Wagti	24.22	1985	2020	7.87	1.92	24.42	2.27
94	Gujarat	Kalaghogha	Tributory of Phot	170.94	1987	2022	4.96	1.73	34.89	0.29
95	Gujarat	Kanazara	Tributory of Local Stream	46.62	1964	2022	2.94	0.94	32.07	0.35
96	Gujarat	Kankavati	Tributory of Kankavati	207.5	1956	2022	10.51	0.55	5.27	0.04
97	Gujarat	Karjan	Karjan	1403.78	1984	2021	630.00	48.60	7.71	0.94
98	Gujarat	Karmal	Tributory of Karmal	167.57	1984	2022	12.70	0.22	1.76	0.04
99	Gujarat	Karnuki	Tributory of Karnuki	103.6	2004	2022	8.54	0.07	0.83	0.04
100	Gujarat	Kaswati	Tributory of Kaswati	66.56	1987	2022	8.20	0.94	11.51	0.41
101	Gujarat	Keliya	Kharera Tributary of	27.58	1984	2020	18.10	2.44	13.46	2.45
102	Gujarat	Khedoi	Tributory of Local	56.46	2003	2022	2.75	0.10	3.56	0.09
103	Gujarat	Khengar Sagar	Tributory of Bhukhi	151.51	1944	2022	9.60	2.57	26.72	0.22
104	Gujarat	Khodapipar	Tributory of Ghogham	53.07	1996	2022	2.99	0.01	0.33	0.01

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105	Gujarat	Khodiyar	Shetrunji	383.00	1962	2021	40.36	9.55	23.65	0.42
106	Gujarat	Lakhigam	Dhakani Khadi	13.340	1982	2021	4.90	0.64	12.97	1.22
107	Gujarat	Ler	Tributory of Pat	14.5	1939	2022	2.21	1.27	57.24	1.05
108	Gujarat	Limbdi-Bhogavo	Limbdi-Bhogavo	331.50	1960	1986	30.15	7.66	25.41	0.89
109	Gujarat	Loriya	Tributory of Local Stream	9.6	1970	2022	0.57	0.27	47.89	0.54
110	Gujarat	Machhannala	Machhan	244.910	1982	2021	37.91	4.80	12.66	0.50
111	Gujarat	Machhu-1	Machhu	730.00	1959	2021	83.13	1.35	1.63	0.03
112	Gujarat	Machhu-2	Machhu	1193.47	1972	2021	100.75	8.74	8.67	0.15
113	Gujarat	Machhu-3	Tributory of Machhu	2088.05	2015	2022	7.99	0.03	0.35	0.00
114	Gujarat	Madhuvanti	Madhuvanti	45.32	1973	1986	12.14	0.49	4.04	0.83
115	Gujarat	Malgadh	Tributory of Ghelo	32.24	1985	2022	2.65	0.25	9.45	0.21
116	Gujarat	Mamuara	Tributory of Local	7.68	1943	2022	0.74	0.37	50.34	0.61
117	Gujarat	Mathal	Tributory of Dhadodh	114	1985	2022	12.29	1.43	11.64	0.34
118	Gujarat	Mazam	Mazam	407.8	1984	2021	43.86	4.12	9.39	0.27
119	Gujarat	Meshwo	Meshwo	259	1968	2021	82.12	9.75	11.88	0.71
120	Gujarat	Mitti	Mitti	260.295	1983	2021	20.24	4.23	20.92	0.43
121	Gujarat	Moj	Tributory of Moj	440.3	1995	2022	36.69	0.25	0.70	0.02
122	Gujarat	Motisar	Tributory of Motisar	34.32	1992	2022	2.58	0.05	2.09	0.05
123	Gujarat	Mukteshwar	Saraswati	305.62	1990	2021	41.00	9.82	23.94	1.04
124	Gujarat	Nirona	Tributory of Bharud	388.35	1958	2022	27.17	3.06	11.25	0.12
125	Gujarat	Nyari-II	Tributory of Nyari	314	1986	2022	13.00	1.19	9.12	0.10
126	Gujarat	Panam	Panam	2314.000	1977	2021	735.80	75.00	10.19	0.74
127	Gujarat	Patadungri	Khan	249.000	1954	2021	41.06	8.03	19.55	0.48
128	Gujarat	Phophal-I	Tributory of Phophal	525.77	1974	2022	59.61	10.40	17.45	0.41
129	Gujarat	Phot	Tributory of Phot	18.13	1961	2022	2.30	0.18	7.90	0.16
130	Gujarat	Puna	Sasoi	137.27	1954	1986	13.99	4.15	29.66	0.94
131	Gujarat	Punadi	Tributory of Local	5.7	1959	2022	0.60	0.09	14.33	0.24
132	Gujarat	Rajki	Malan	88.06	1964	1986	12.02	2.79	23.21	1.44
133	Gujarat	Rami	Narmada	25.00	1983	1999	7.08	2.53	35.73	6.33
134	Gujarat	Ranghola	Rangholi	370.37	1952	1986	44.52	7.84	17.61	0.62
135	Gujarat	Ratnal	Tributory of Local Stream	29.78	1981	2022	1.67	0.07	4.31	0.06
136	Gujarat	Rudramata	Khari	383.17	1970	2021	64.74	4.82	7.44	0.25
137	Gujarat	Sanandro	Tributory of Kail	147.57	1955	2022	10.34	0.48	4.63	0.05
138	Gujarat	Sani	Sani	506.00	1984	2010	55.08	16.06	29.16	1.22
139	Gujarat	Sardar Sarovar	Narmada	26358	1995	2024	9,460.00	1,210.99	12.80	1.58
140	Gujarat	Sasoi	Sasoi	562.03	1954	2009	51.00	13.03	25.55	0.42

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141	Gujarat	Satapar Rata	Tributory of Local	56.98	1950	2022	3.07	0.25	8.08	0.06
142	Gujarat	Serai Mis	Tributory of Serai	56.32	1981	2022	3.82	0.25	6.44	0.11
143	Gujarat	Shaktisagar (Brahmani-II)	Tributory of Brahmani	850.81	2011	2022	19.80	0.50	2.50	0.05
144	Gujarat	Shetrunji	Shetrunji	4,317.00	1959	2008	415.41	81.22	19.55	0.38
145	Gujarat	Sipu	Banas	122.00	1992	2007	177.80	16.37	9.21	8.95
146	Gujarat	Sodvadar	Utavali Tributory of	48.22	2001	2022	4.89	0.88	18.04	0.87
147	Gujarat	Sukhi	Sukhi	411.810	1987	2021	178.47	3.23	1.81	0.23
148	Gujarat	Surkhan	Tributory of Surkhan	58.27	1966	2022	4.02	0.57	14.18	0.17
149	Gujarat	Survo	Tributory of Survo	238.11	2000	2022	13.90	0.58	4.17	0.11
150	Gujarat	Suvi	Tributory of Suvi	160.52	1969	2022	14.28	5.43	38.04	0.64
151	Gujarat	Tappar	Sakara	283.6	1967	2021	48.81	1.92	3.93	0.13
152	Gujarat	Ukai	Tapi	62,225.00	1972	2003	8,510.00	1,095.71	12.88	0.57
153	Gujarat	Vadzar	Tributory of Local	6.34	1984	2022	0.83	0.74	88.92	3.06
154	Gujarat	Varshamedi	Tributory of Local	12.95	1942	2022	1.78	0.10	5.84	0.10
155	Gujarat	Vartu	Vartu	170.94	1964	1986	13.30	1.60	12.03	0.43
156	Gujarat	Venu - II	Tributory of Venu	781.68	1988	2022	22.58	6.06	26.84	0.23
157	Gujarat	Ver_2-Amli	Ver	90.00	1984	2020	38.30	6.42	16.77	1.98
158	Gujarat	Veri	Tributory of Veri	178.42	1901	2022	10.88	3.14	28.86	0.15
159	Gujarat	Vijaysagar Mis	Tributory of Kojachora	229.21	1948	2022	20.82	2.88	13.84	0.17
160	Gujarat	Wadhovan Bhogavo	Wadhovan Bhogavo	435.10	1960	1986	18.15	2.67	14.71	0.24
161	Gujarat	Wadhovan Bhogavo-II	Wadhovan Bhogavo	569.77	1959	1986	23.36	2.97	12.71	0.19
162	Gujarat	Wankleshwar	Bed River (River that	44.500	1978	2021	13.30	0.68	5.11	0.36
163	Gujarat	Watrak	Watrak	1114	1984	2021	176.20	7.71	4.38	0.19
164	Gujarat	Zuran	Tributory of Zuran	14.77	1946	2022	0.93	0.49	52.37	0.43
165	Himachal Pradesh	ADHPL	Allain & Duhangan	195.10	2010	2018	0.22	0.00	0.00	0.00
166	Himachal Pradesh	Baira	Baira	669.00	1980	2017	3.75	3.05	81.33	0.12
167	Himachal Pradesh	Bhakra	Sutlej	56,880.00	1963	2022	9,867.84	2,509.27	25.43	0.75
168	Himachal Pradesh	Chamera-I	Ravi	4,725.00	1994	2018	391.30	196.20	50.14	1.73
169	Himachal Pradesh	Chamera-II	Ravi	2,593.00	2003	2018	2.25	0.57	25.33	0.01
170	Himachal Pradesh	Chamera-III	Ravi	2,203.00	2012	2018	5.48	2.51	45.80	0.19
171	Himachal Pradesh	Parbati-III	Sainj	650.00	2014	2018	1.67	0.46	27.54	0.18
172	Himachal Pradesh	Pong	Indus	12,562.00	1974	2018	8,579.00	1,068.88	12.46	1.93
173	Himachal Pradesh	Kol	Sutlej	7361.00	2015	2021	576.00	111.00	19.27	2.51
174	Jharkhand	Getalsud	Subarnrekha	717	1971	2022	291.73	31.86	10.92	0.87
175	Jharkhand	Konar	Damodar	842.000	1955	2020	281.35	94.15	33.46	1.72
176	Jharkhand	Maithon	Barakar	6293.000	1955	2019	813.80	294.35	36.17	0.73

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177	Jharkhand	Panchet Hill Dam	Damodar	10878.000	1956	2020	488.50	210.28	43.05	0.30
178	Jharkhand	Tenughat	Damodar	4480.67	1978	2022	1,013.92	44.24	4.36	0.22
179	Jharkhand	Tilaiya	Barakar	984.000	1953	2019	335.52	184.57	55.01	2.84
180	Jharkhand & West	Massanjore Dam	Mayurakshi	1859.6	1954	2022	608.21	51.98	8.55	0.41
181	Karnataka	Almatti	Krishna	35,925.00	2001	2007	3,486.00	150.34	4.31	0.70
182	Karnataka	Basavasagara Reservoir	Krishna	47850	1982	2022	1,071.55	298.73	27.88	0.16
183	Karnataka	Gerusuppa	Sharavathi	151.50	2001	2021	130.74	4.77	3.65	1.57
184	Karnataka	Ghataprabha (Hidkal)	Ghatraprabha	1,411.55	1974	2000	1,434.14	115.52	8.06	3.15
185	Karnataka	Harangi	Cauvery	419.58	1982	2009	240.69	23.57	9.79	2.08
186	Karnataka	Hemavathy	Cauvery	2,810.00	1979	2009	1,050.63	76.13	7.25	0.90
187	Karnataka	Hippargi	Krishna	22,699.00	1998	2007	99.74	3.57	3.58	0.02
188	Karnataka	Kabini	Kabini	2,141.90	1974	2010	552.63	23.06	4.17	0.30
189	Karnataka	Kadra	Kali river	433.00	1997	2022	388.92	16.16	4.16	1.49
190	Karnataka	Krishnaraja Sagar	Cauvery	10,620.00	1932	2009	1,400.31	93.91	6.71	0.11
191	Karnataka	Linganamakki	Sharavathi	1991.71	1963	2021	4,435.35	475.54	10.72	4.12
192	Karnataka	Malaprabha	Malaprabha	2,176.00	1981	1991	1,239.66	78.58	6.34	3.61
193	Karnataka	Mani	Varahi	163.16	1989	2021	961.75	71.48	7.43	13.69
194	Karnataka	Savehaklu	Savehaklu	48.11	1980	2022	124.97	6.87	5.50	3.40
195	Karnataka	Supa	Kali river	1057.00	1987	2022	4,178.00	123.79	2.96	3.35
196	Karnataka	Talakalale	Sharavathi	46.62	1964	2021	129.65	4.78	3.69	1.80
197	Karnataka	Tattihalla	Tattihalla	1165.00	1980	2022	264.03	20.53	7.78	0.42
198	Karnataka	Tungabhadra	Tungabhadra	28,180.00	1953	2008	3,751.17	895.28	23.87	0.58
199	Karnataka	Vani Vilas Sagar Reservoir	Vedavathi	1554	1901	2022	850.30	16.47	1.94	0.09
200	Kerala	Anayirankal	Panniar	65.68	1964	1997	49.84	15.41	30.92	7.11
201	Kerala	Chulliar	Bharatpuzha	27.80	1966	2009	13.70	0.48	3.47	0.40
202	Kerala	Idamalayar	Idamalayar	375.00	1986	2023	1,176.19	31.29	2.66	6.95
203	Kerala	Idukki	Periyar	668.830	1976	2023	1,998.57	106.88	5.35	3.40
204	Kerala	Kakki	Kakki	214.500	1966	2023	454.14	35.34	7.78	2.89
205	Kerala	Kallada Dam	Kallada	549.00	1986	2018	577.25	169.86	29.43	9.67
206	Kerala	Kallarkutty	Mudhirapuzzha	759.85	1962	1992	6.80	0.75	11.00	0.03
207	Kerala	Kanjirapuzha	Kanjirapuzha	70.00	1980	2017	70.87	21.71	30.64	8.38
208	Kerala	Karapuzha Dam	Karapuzha	62.00	2005	2016	76.50	41.79	54.63	61.28
209	Kerala	Kundala	Palar	37.55	1948	1994	7.79	1.26	16.20	0.73
210	Kerala	Kuttiyadi	Kuttiyadi	108.78	1973	2010	120.52	28.65	23.77	7.12
211	Kerala	Madupetty	Palar	104.90	1967	1995	55.22	6.43	11.65	2.19
212	Kerala	Malampuzha	Bharathapuzha	147.64	1955	2006	226.00	30.67	13.57	4.07

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213	Kerala	Mangalam	Cherrukunapuzha	48.85	1966	2015	25.49	5.61	21.99	2.34
214	Kerala	Meenkara	Meenkara	90.65	1960	2009	11.33	1.48	13.10	0.33
215	Kerala	Neyyar	Neyyar	139.86	1964	2015	106.25	8.91	8.38	1.25
216	Kerala	Parambikulam	Parambikulam	230.50	1967	2013	504.66	62.36	12.36	5.88
217	Kerala	Pazhassy Dam	Pazhassi	640.00	1979	2016	97.50	48.53	49.77	2.05
218	Kerala	Peechi	Manali	107.10	1957	2013	110.43	15.48	14.02	2.58
219	Kerala	Ponmudi	Panniyar	220.52	1962	1992	51.54	11.08	21.50	1.67
220	Kerala	Poomala	Poomala	1.17	1968	2010	0.58	0.01	1.90	0.22
221	Kerala	Porinngalkuthu	Chalakudi	512.00	1957	1993	31.99	8.16	25.50	0.44
222	Kerala	Pothundi	Bharatpuzha	31.00	1971	2009	50.91	1.81	3.55	1.53
223	Kerala	Siruvani Dam	Siruvani	22.47	1984	2012	25.50	2.94	11.53	4.67
224	Kerala	Vazhani	Wadakkanchery	20.48	1959	2009	18.12	1.00	5.54	0.98
225	Kerala	Walayar Dam	Bharathapuzha	106.36	1956	2009	18.40	2.37	12.89	0.42
226	Madhya Pradesh	Bahoriband	Bhuta Nalla	108.76	1927	2022	36.98	3.61	9.76	0.35
227	Madhya Pradesh	Barna	Barna	1176	1975	2023	539.10	86.24	16.00	1.53
228	Madhya Pradesh	Chandrakeshar	Chandrakeshar	111.37	1976	2022	30.08	3.81	12.66	0.74
229	Madhya Pradesh	Dejla Dewada	Kunda	335.40	1988	2022	56.35	5.01	8.88	0.44
230	Madhya Pradesh	Gandhi Sagar Dam	Chambal	23025	1960	2024	7,746.00	846.20	10.92	0.57
231	Madhya Pradesh	Harsi Dam	Parwati	828	1935	2023	206.30	27.78	13.47	0.38
232	Madhya Pradesh	Man	man	690.00	2007	2022	147.64	24.73	16.75	2.39
233	Madhya Pradesh	Mohini Pick Up Weir	Sind	469.95	1989	2023	108.81	9.81	9.02	0.61
234	Madhya Pradesh	Pagara	Asan	540.5	1927	2023	120.40	21.53	17.88	0.41
235	Madhya Pradesh	Samrat Ashok Sagar	Halali (Thal)	735	1976	2023	329.61	45.90	13.93	1.33
236	Madhya Pradesh	Sarthi	Vartu	197.57	1974	1986	10.69	3.38	31.62	1.43
237	Madhya Pradesh	Sukta	Sukta	468.79	1984	2022	89.38	12.91	14.44	0.72
238	Madhya Pradesh	Tawa	Tawa	5396	1975	2023	2,311.54	546.22	23.63	3.07
239	Madhya Pradesh	Upper Beda	Narmada/Beda	523.00	2010	2022	91.82	22.31	24.30	3.55
240	Maharashtra	Bhatghar	Yelwandi	331.50	1927	2007	672.65	108.59	16.14	4.09
241	Maharashtra	Chankapur	Girna	269.00	1913	2009	79.94	17.52	21.92	0.68
242	Maharashtra	Girna	Girna	4,727.30	1969	2010	608.45	42.88	7.05	0.22
243	Maharashtra	Khaspur	Sina	554.20	1954	1996	19.82	6.34	31.97	0.27
244	Maharashtra	Kolgaon	Hanga	55.74	1956	1988	2.87	1.37	47.87	0.77
245	Maharashtra	Koyna	Koyna	891.78	1962	2012	2,980.68	173.79	5.83	3.90
246	Maharashtra	Mangi	Kanola	304.00	1955	1995	33.84	3.44	10.15	0.28
247	Maharashtra	Mhaswad	Man	1,243.20	1888	1990	86.94	45.24	52.04	0.36
248	Maharashtra	Mukti	Motinala	88.60	1893	1991	9.68	2.81	29.03	0.32

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249	Maharashtra	Nalganga	Nalganga	315.98	1963	1985	76.20	4.34	5.69	0.62
250	Maharashtra	Nazare	Karha	397.82	1975	1986	22.32	7.68	34.43	1.76
251	Maharashtra	Panshet	Ambi	120.30	1968	2007	310.62	28.43	9.15	6.06
252	Maharashtra	Powai	Local nala	6.61	1890	1996	5.45	1.06	19.45	1.51
253	Maharashtra	Radhnagri	Bhogavati	108.80	1908	2011	236.79	27.97	11.81	2.50
254	Maharashtra	Varasgaon	Musa	130.00	1986	2007	375.36	2.12	0.57	0.78
255	Maharashtra	Vir	Nira	1,756.00	1965	2008	278.50	39.36	14.13	0.52
256	Maharashtra	Warna	Warna	301.00	1984	2003	974.19	49.15	5.05	8.59
257	Maharashtra	Ashti	Ashti Nalla	238.28	1882	2023	41.54	22.42	53.97	0.67
258	Maharashtra	Asolamendha	Pathari	246.00	1918	1994	92.96	29.97	32.24	1.60
259	Maharashtra	Bendsura	Bendsura	188.42	1955	1995	13.12	5.24	39.95	0.70
260	Maharashtra	Bhima (Ujjani)	Bhima	9201.400	1977	2023	3,320.00	545.05	16.42	1.29
261	Maharashtra	Chaskaman Dam	Bhima	305.56	1991	2023	241.69	18.73	7.75	1.92
262	Maharashtra	Dimbhe	Ghod	298.00	1988	2023	420.67	8.17	1.94	2.11
263	Maharashtra	Ekrukh	Adhella Nalla	411.81	1871	2023	94.30	31.78	33.70	0.51
264	Maharashtra	Gangapur	Godavari	357.40	1965	1997	212.51	48.89	23.01	4.27
265	Maharashtra	Ghod	Ghod	2541.3	1965	2023	216.31	42.57	19.68	0.29
266	Maharashtra	Gosi Khurd Dam	Wainganga	5902	2010	2023	1,146.08	80.22	7.00	1.05
267	Maharashtra	Jayakwadi	Godavari	21,774.00	1976	1999	2,909.04	249.80	8.59	0.50
268	Maharashtra	Karanjvan	Kadwa	248.00	1974	2008	175.57	16.96	9.66	2.01
269	Maharashtra	Kasari	Kasari	32.28	1989	2023	78.56	2.63	3.35	2.40
270	Maharashtra	Khairy	Kar nadi	207.8	1990	2023	15.11	2.70	17.87	0.39
271	Maharashtra	Khelna	Khelna	161.60	1964	1985	12.61	0.70	5.57	0.21
272	Maharashtra	Lower Terna	Terna	1373	1989	2023	160.49	48.76	30.38	1.04
273	Maharashtra	Majalgaon	Sindfana	3,840.00	1987	2010	454.00	45.92	10.11	0.52
274	Maharashtra	Manar	Manar	1,585.08	1969	1999	138.35	18.73	13.54	0.39
275	Maharashtra	Manikdoh Dam	Kukadi	110	1984	2023	308.00	30.00	9.74	6.99
276	Maharashtra	Manjara	Manjara	2061.880	1980	2023	270.28	38.12	14.10	0.43
277	Maharashtra	Mula	Mula	2,275.86	1972	2008	738.02	41.57	5.63	0.51
278	Maharashtra	Pimpalgaon Joge	Pushpavati-Aar	100	2000	2023	235.53	2.04	0.87	0.89
279	Maharashtra	Ramsagar	Sur	212.35	1914	1987	117.18	14.78	12.61	0.95
280	Maharashtra	Sina	Sina	1266.52	1985	2023	67.95	29.04	42.74	0.60
281	Maharashtra	Sina Kolegaon	Sina	3841.230	2007	2023	150.49	17.13	11.38	0.28
282	Maharashtra	Tulshi	Tulshi	34.92	1978	2023	98.29	3.47	3.53	2.21
283	Maharashtra	Upper Wardha	Wardha	4,196.190	1993	2023	802.98	88.13	10.98	0.70
284	Maharashtra	Visapur	Hanga	328	1927	2023	37.63	4.94	13.13	0.16

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285	Maharashtra	Wadaj	Meena	155	1983	2023	35.90	4.66	12.98	0.75
286	Maharashtra	Waghad	Kolvan	119.00	1978	2011	75.10	7.38	9.83	1.88
287	Maharashtra	Yedgaon Dam	Kukadi	408.3	1977	2023	93.43	27.07	28.97	1.44
288	Maharashtra	Yeldari	Puma	7,329.70	1968	2011	934.44	134.34	14.38	0.43
289	Manipur	Khoupum	Manchen Diu	18.880	1995	2020	2.78	0.05	1.98	0.12
290	Manipur	Singda	Singda	25.300	1995	2020	9.71	3.28	33.78	5.19
291	Meghalaya	Umiam	Umiam	220.00	1965	2004	179.76	20.55	11.43	2.40
292	Odisha	Balimela	Sileru	2953	1972	2023	3,610.53	476.53	13.20	3.16
293	Odisha	Harabhangi Dam	Harabhangi	503.8	1998	2023	141.25	3.03	2.15	0.24
294	Odisha	Hirakud Dam	Mahanadi	83400	1957	2024	8,144.14	2,202.28	27.04	0.39
295	Odisha	Rengali	Brahmani	25,250.00	1985	2023	4,400.00	346.93	7.88	0.36
296	Odisha	Upper Kolab	Kolab	1641.1	1986	2023	1,215.00	183.45	15.10	3.02
297	Punjab	Dholbaha Dam	Dholbaha Khad	56.14	1987	2021	11.38	1.87	16.43	0.98
298	Punjab	Jainti Dam	Soonk	7.1	2003	2021	2.87	0.67	23.16	5.20
299	Punjab	Janauri Dam	Janauri Khad	6.1	1986	2021	2.28	1.34	58.73	6.27
300	Punjab	Maili Dam	Maili Choe	17	1986	2021	4.81	2.35	48.86	3.95
301	Punjab	Mirzapur Dam	Budki	13.9	1996	2021	4.30	3.12	72.44	8.96
302	Punjab	Patiari Dam	Patiari	11.71	2002	2021	3.46	1.84	53.09	8.26
303	Punjab	Perch Dam	Perch Khad	5.6	1993	2021	1.25	1.16	92.50	7.37
304	Punjab	Saleran Dam	Saleran	7.2	1998	2021	7.55	2.90	38.44	17.51
305	Punjab	Siswan Dam	Siswan	15.2	1996	2021	4.80	1.90	39.53	4.99
306	Rajasthan	Bisalpur	Banas	27726	2004	2021	1,095.84	65.90	6.01	0.14
307	Rajasthan	Chhapi	Chhapi	751.53	2006	2023	82.57	9.09	11.01	0.71
308	Rajasthan	Gambhiri Dam	Gambhiri	948.04	1957	2023	55.01	0.68	1.24	0.02
309	Rajasthan	Jaisamand	Gomti	1792.19	1973	2023	422.74	49.28	11.66	0.55
310	Rajasthan	Jakham	Jakham	1010	1986	2021	182.73	14.38	7.87	0.75
311	Rajasthan	Jawahar Sagar	Chambal	2331	1972	2023	67.11	6.08	9.06	0.05
312	Rajasthan	Jawai	Jawai	733	1950	2021	207.52	6.15	2.96	0.12
313	Rajasthan	Kota Barrage	Chambal	2005	1960	2021	112.06	11.22	10.01	0.09
314	Rajasthan	Ora	Khari	235.52	1958	2023	22.65	2.14	9.45	0.14
315	Rajasthan	Panchana Dam	Utangan/Gambhir	620.31	2006	2023	59.45	8.13	13.68	0.77
316	Rajasthan	Parbati	Parbati	786	1963	2021	115.24	25.96	22.53	0.57
317	Rajasthan	Ranapratap Sagar	Chambal	2280	1970	2021	3,128.11	296.91	9.49	2.55
318	Rajasthan	Som Kamla Amba	Som	1242.5	1992	2021	188.72	13.49	7.15	0.37
319	Rajasthan	Sukli Selwara	Sukli River	201.960	2008	2023	29.52	1.76	5.96	0.58
320	Rajasthan	West Banas	West Banas	414.4	1962	2023	39.08	4.87	12.46	0.19

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321	Sikkim	Rangit-III	Rangit	979	2000	2018	1.79	1.10	61.45	0.06
322	Sikkim	Teesta-V	Teesta	4307	2008	2018	13.52	4.22	31.21	0.10
323	Tamil Nadu	Adavinainar	Hanumannathi	15.54	2003	2010	4.93	0.09	1.79	0.81
324	Tamil Nadu	Aliyar	Aliyar	195.00	1962	2004	112.75	9.34	8.28	1.14
325	Tamil Nadu	Amravathy	Amravathy	839.16	1958	2013	117.16	22.58	19.27	0.49
326	Tamil Nadu	Anaikuttam	Arjuna	795.27	1990	2014	3.60	0.34	9.52	0.02
327	Tamil Nadu	Anaimaduvu	Anaimaduvu	145.02	1993	2013	7.56	0.31	4.14	0.11
328	Tamil Nadu	Barur Tank	Pannaiyar	35.07	1919	1986	7.04	0.18	2.56	0.08
329	Tamil Nadu	Berijam	-	7.77	1911	1987	2.20	0.39	17.81	0.66
330	Tamil Nadu	Bhavani Sagar	Bhavani	4134.50	1953	2021	813.56	97.92	12.04	0.35
331	Tamil Nadu	Chittar-I	Chittar	22.01	1970	1997	17.28	2.85	16.49	4.80
332	Tamil Nadu	Chittar-II	Chittar	26.16	1972	2010	28.59	5.93	20.74	5.97
333	Tamil Nadu	Emeraldavalanchi	Kundah	58.53	1961	2000	156.75	7.18	4.58	3.14
334	Tamil Nadu	Gadana	Gadana	46.46	1971	2003	9.97	1.84	18.49	1.24
335	Tamil Nadu	Glennmorgan (Fb)	Glennmorgan Stream	12.43	1976	1998	5.85	2.30	39.32	8.41
336	Tamil Nadu	Glennmorgan (Kariappa)	Glennmorgan Stream	2.59	1930	2013	0.74	0.04	5.41	0.19
337	Tamil Nadu	Gomukhinathi	Gomukhi (Vellar)	292.67	1965	2002	15.86	2.91	18.37	0.27
338	Tamil Nadu	Gunderipallam	Gunderipallam	72.23	1979	2010	3.06	0.30	9.80	0.13
339	Tamil Nadu	Kamraj Sagar	Kundah	44.04	1963	2002	26.62	6.83	25.66	3.98
340	Tamil Nadu	Kaveripakkam	Palar	157.99	1902	1996	41.73	4.80	11.50	0.32
341	Tamil Nadu	Kodaganar	Kodaganar	1,670.00	1977	2007	12.29	2.16	17.53	0.04
342	Tamil Nadu	Krishnagiri	Ponnaiyar	5,428.00	1957	2006	68.20	28.50	41.79	0.11
343	Tamil Nadu	Kundah	Kundah	113.96	1960	1982	1.76	1.11	63.07	0.44
344	Tamil Nadu	Kuthiraiyar	Kuthiraiyar	71.40	1990	2002	7.36	0.05	0.68	0.06
345	Tamil Nadu	Madhuranthagam	Killivaru	34.82	1798	2005	17.25	1.17	6.78	0.16
346	Tamil Nadu	Manimukthanadi	Manimuktha	478.72	1970	2012	20.88	2.60	12.47	0.13
347	Tamil Nadu	Manimuthar	Thamirabarani	161.62	1958	2006	159.73	10.29	6.44	1.33
348	Tamil Nadu	Manjalar	Manjalar	119.14	1967	2009	13.76	4.31	31.34	0.86
349	Tamil Nadu	Manodai	Cauvery	21.42	1962	1986	2.47	0.16	6.57	0.32
350	Tamil Nadu	Maravakandy	Pykara	20.72	1947	2004	0.96	0.35	36.60	0.30
351	Tamil Nadu	Marudhanadhi	Marudhanathi	53.32	1979	2010	5.34	0.41	7.70	0.25
352	Tamil Nadu	Mettur	Cauvery	30569.60	1934	2021	2,708.76	484.47	17.89	0.18
353	Tamil Nadu	Mukurthy	Pykara	25.25	1938	2006	50.98	18.99	37.25	11.06
354	Tamil Nadu	Nagavathy	Nagavathy	105.36	1985	2012	4.65	0.48	10.25	0.17
355	Tamil Nadu	Palar Poranthalar	Palar and Poranthalar	259.00	1978	2000	43.19	1.56	3.61	0.27
356	Tamil Nadu	Pambar	Pambar	1,736.00	1983	2013	7.93	0.39	4.92	0.01

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357	Tamil Nadu	Parappalar	Nangangi	72.88	1974	2003	5.61	1.59	28.27	0.75
358	Tamil Nadu	Parson' Valley	Kundah	14.50	1966	1995	19.25	8.25	42.86	19.62
359	Tamil Nadu	Pechipparai	Kodayar	172.00	1971	2013	150.27	43.50	28.94	6.02
360	Tamil Nadu	Pegumbahalla	Kundah	41.44	1966	1982	1.07	0.44	41.12	0.66
361	Tamil Nadu	Perumal Tank	Paravahar	504.59	1961	1998	17.77	2.78	15.65	0.15
362	Tamil Nadu	Perumpallam	Perumpallam Odai	44.53	1990	2012	3.28	0.13	4.09	0.14
363	Tamil Nadu	Pillavukkal Periyar	Periyar	36.00	1976	2013	5.44	0.26	4.86	0.20
364	Tamil Nadu	Pillur	Bhavani	1,191.40	1967	2013	44.40	18.49	41.64	0.34
365	Tamil Nadu	Ponnaniyar	Ponnaniyar	87.02	1974	1995	3.39	1.08	31.90	0.59
366	Tamil Nadu	Porthimund	Kundah	10.55	1966	1996	60.00	12.11	20.18	38.25
367	Tamil Nadu	Pykara	Pykara	38.10	1954	2010	56.70	21.53	37.97	10.09
368	Tamil Nadu	Sathanur	Ponnaniyar	10,826.10	1957	1982	234.83	27.53	11.72	0.10
369	Tamil Nadu	Sathiyarar	Sathiyarar	95.71	1965	2010	1.59	0.46	28.81	0.11
370	Tamil Nadu	Thirumurthy	Palar	80.29	1967	2009	54.80	7.00	12.77	2.07
371	Tamil Nadu	Thoppiyar	Thoppiyar	276.90	1987	2012	8.46	0.50	5.92	0.07
372	Tamil Nadu	Thunakadavu	Thunakadavu	43.36	1965	2013	15.76	2.61	16.56	1.25
373	Tamil Nadu	Uppar Dam	Uppar	903.56	1968	1995	16.20	6.91	42.63	0.28
374	Tamil Nadu	Upper Bhawani	Bhavani	33.57	1965	1985	101.20	3.72	3.68	5.54
375	Tamil Nadu	Vaigai	Vaigai	2,255.13	1958	2012	194.79	32.07	16.46	0.26
376	Tamil Nadu	Vaniyar	Vaniyar	107.76	1983	2010	11.84	0.69	5.79	0.24
377	Tamil Nadu	Varattupallam	Varattupallam	66.82	1980	2010	3.94	0.28	7.11	0.14
378	Tamil Nadu	Veeranam	Coleroon	427.35	1923	1991	40.81	13.06	32.01	0.45
379	Tamil Nadu	Vembakottai	Vaippar	1,593.55	1989	2013	11.29	1.12	9.94	0.03
380	Tamil Nadu	Vidur	Varahanadi	1,298.00	1959	2009	17.73	3.09	17.44	0.05
381	Tamil Nadu	Wallajah	Vellar	191.58	1923	1997	2.57	0.90	34.93	0.06
382	Tamil Nadu	Wellingdon	Vellar	2,849.50	1924	1991	71.46	19.43	27.19	0.10
383	Telangana	Dindi Project	Dindi	3920	1943	2022	73.83	6.07	8.22	0.02
384	Telangana	Himayatsagar	Easa	1,307.94	1927	1976	107.79	28.63	26.56	0.45
385	Telangana	Kaddam	Kaddam	2,656.25	1958	1977	124.43	46.25	37.17	0.92
386	Telangana	Lakhamvaram Lake	Lakhamvaram	268.06	1909	1975	60.42	18.84	31.18	1.06
387	Telangana	Large Tank Bayyaram	Munneru	576	1962	2023	11.62	1.09	9.38	0.03
388	Telangana	M. Baga Reddy Singur	Manjeera	16097	1989	2022	847.15	20.93	2.47	0.04
389	Telangana	Manjira	Manjira	16,770.25	1966	1977	50.94	18.74	36.79	0.10
390	Telangana	Mathadivagu Project	Mathadivagu	236	2008	2022	16.17	2.88	17.79	0.87
391	Telangana	Nagarjuna Sagar	Krishna	2,15,185.00	1967	2009	11,553.00	2,716.96	23.52	0.30
392	Telangana	Nizamsagar	Manjara	21,694.00	1930	1992	841.18	508.66	60.47	0.38

S. No.	State	Name of Reservoir	Name of River	Catchment Area in Sq.Km.	Year of Completion/ first impoundment	Year of last Survey	Initial Gross Storage in MCM	Total Loss of Gross Storage upto Last Survey	Percentage % loss of Gross storage upto Last Survey	Average Observed rate of siltation (Th.Cu.m/ Sq.km./Yr)
393	Telangana	Ntr Sagar Project	Chalamala Vagu	103	1998	2022	10.49	1.71	16.30	0.69
394	Telangana	Palair	Palair	1,686.71	1928	1977	56.56	1.21	2.14	0.01
395	Telangana	Pocharam	Aliaru	673.40	1922	1978	16.85	3.78	22.45	0.10
396	Telangana	Priyadarshini Jurala Project	Krishna	82471	1996	2022	338.13	64.95	19.21	0.03
397	Telangana	Ralivagu Project	Ralivagu	131.36	2016	2022	11.57	5.01	43.30	6.36
398	Telangana	Ramadugu Project	Pedda Vagu	185.187	1964	2022	27.35	8.09	29.58	0.75
399	Telangana	Shanigram Tank	Siddipet	321.00	1891	1972	29.08	2.95	10.14	0.11
400	Telangana	Sri Komarambheem Project	Peddavagu	1132	2011	2022	294.29	25.03	8.50	2.01
401	Telangana	Sri Ram Sagar Project	Godavari	51212	1970	2022	3,171.94	892.44	28.14	0.34
402	Telangana	Suddavagu Project	Suddavagu	699	2006	2022	52.46	0.62	1.17	0.05
403	Telangana	Swarna Reservoir	Swarna	290	1978	2022	42.05	12.66	30.11	0.99
404	Telangana	Upper Manair Reservoir	Upper Manair	2166	1950	2022	84.97	25.79	30.35	0.17
405	Telangana	Wyra	Wyra	709.66	1929	1977	24.66	9.78	39.66	0.29
406	UT of Jammu &	Dulhasti	Chenab	10500	2006	2017	12.98	0.59	4.55	0.01
407	UT of Jammu &	Salal	Chenab	21497	1987	2018	285.00	272.57	95.64	0.41
408	UT of Jammu &	Sewa-II	Sewa	341	2010	2018	7.05	1.14	16.17	0.42
409	UT of Jammu &	Uri-I	Jhelum	12750	1997	2018	0.36	0.12	34.11	0.00
410	UT of Jammu &	Uri-Ii	Jhelum	13400	2013	2018	6.34	2.01	31.74	0.03
411	UT of Laddakh	Chutak	Suru	3488	2012	2018	0.59	0.17	28.23	0.01
412	UT of Laddakh	Nimoo Bazgo	Indus	58880	2013	2016	52.82	19.12	36.20	0.11
413	Uttar Pradesh	Matatila	Betwa	4403	1956	2023	985.65	306.94	31.14	1.14
414	Uttar Pradesh	Rihand	Rihand	13,333.00	1962	2003	10,608.32	1,588.33	14.97	2.91
415	Uttar Pradesh	Dhukwan	Betwa	21,340.00	1907	1980	106.45	47.42	44.55	0.03
416	Uttar Pradesh	Pili	Pili	162.00	1962	2011	55.27	16.07	29.07	2.02
417	Uttar Pradesh & Madhya Pradesh	Rajghat	Betwa	16317	1999	2023	2,172.00	135.66	6.25	0.35
418	Uttarakhand	Baur	Baur & Kakrala	307.2	1967	2023	103.36	15.74	15.23	0.91
419	Uttarakhand	Haripura	Bhakra, Khazia & Nihal	294.4	1975	2023	28.32	13.15	46.43	0.93
420	Uttrakhand	Baigul	Baigul	302	1968	2005	86.68	21.26	24.53	1.90
421	Uttrakhand	Dhauliganga	Dhauliganga	1360	2005	2018	6.20	2.80	45.16	0.16
422	Uttrakhand	Dhora	Dhora	134.68	1962	2005	54.81	11.20	20.43	1.93
423	Uttrakhand	Ichari	Tons	4913	1966	2003	11.55	5.46	47.27	0.03
424	Uttrakhand	Nanaksagar	Deoha	570	1962	2008	209.80	29.30	13.97	1.12
425	Uttrakhand	Ramganga	Ramganga	3134.00	1974	2023	2,448.16	145.67	5.95	0.95
426	Uttrakhand	Sarda Sagar	Sarda	127.00	1962	2009	493.16	116.03	23.53	19.44
427	Uttrakhand	Tanakpur	Sharda	15100	1992	2018	5.96	1.91	32.05	0.00

S. No.	State	Name of Reservoir	Name of River	Catchment Area in Sq.Km.	Year of Completion/ first impoundment	Year of last Survey	Initial Gross Storage in MCM	Total Loss of Gross Storage upto Last Survey	Percentage % loss of Gross storage upto Last Survey	Average Observed rate of siltation (Th.Cu.m/ Sq.km./Yr)
428	Uttrakhand	Tehri Dam	Bhagirathi	7511	2005	2008	3,548.51	21.01	0.59	0.93
429	West Bengal	Buridumur Dam	Buridumur	3.23	1977	2021	0.19	0.01	5.15	0.07
430	West Bengal	Fuljore Dam	Fuljore	3.885	1976	2021	0.20	0.17	82.50	0.94
431	West Bengal	Kangsabati Dam	Kangsabati and Kumari	1606	1965	2022	499.93	56.92	11.39	0.62
432	West Bengal	Kestobazar Dam	Kestobazar Nala	16.64	1969	2021	0.71	0.10	14.57	0.12
433	West Bengal	Kulbera Dam	Kulberia	20.48	1982	2021	0.80	0.77	96.36	0.96
434	West Bengal	Kumari Dam	Kumari	2020	1976	2022	544.63	49.34	9.06	0.53
435	West Bengal	Majra Dam	Majrajore	21.963	1982	2021	0.36	0.13	36.06	0.15
436	West Bengal	Tara Dam	Tara	27.52	1975	2021	0.95	0.19	19.47	0.15
437	West Bengal	TLDP-III	Teesta	7755	2013	2016	18.36	7.19	39.16	0.31
438	West Bengal	TLDP-IV	Teesta	8021	2016	2018	36.63	15.41	42.07	0.96
439	West Bengal	Durgapur Barrage	Damodar	2,295.00	1955	2011	11.85	5.41	45.68	0.04

Details of Sedimentation Survey of workable 71 Reservoirs surveyed through Remote Sensing (Subset of 548 Reservoirs)

S. No.	State	Name of Reservoir	Name of River	Catchment Area in Sq.Km.	Year of Completion/ first impoundment	Year of last Survey	Initial Live Storage in MCM	Total Loss of Live Storage upto Last Survey	Percentage % loss of live storage upto Last Survey
1	Andhra Pradesh	Vamsadhara St I	Vamsadhara	9,731.00	1977	2004	18.74	11.51	61.43
2	Andhra Pradesh	Yerracalva	Yerracalva	1,085.00	1988	2013	59.68	3.16	5.29
3	Bihar	Chandan	Chandan	549.00	1967	2004	124.58	65.08	52.24
4	Gujarat	Sabarmati	Sabarmati	5,540.00	1976	2003	775.89	41.00	5.28
5	Jharkhand	Nandini	Nandini	58.08	1988	2015	16.70	5.48	32.83
6	Karnataka	Bennithora	Bennithora	2204.09	2001	2017	140.7	26.69	18.97
7	Karnataka	Chakra	Chakra	58.60	1985	2010	132.93	5.77	4.34
8	Karnataka	Kodasalli	Kali	1,049.00	1999	2009	178.82	20.93	11.70
9	Karnataka	Nugu	Nugu	984.00	1959	2009	129.94	8.38	6.45
10	Madhya Pradesh	Bargi	Narmada	14,556.00	1990	2008	3,238.44	109.33	3.38
11	Madhya Pradesh	Thanwar	Thanwe	417.00	1983	2005	138.10	8.46	6.13
12	Madhya Pradesh	Upper Wainganga	Wainganga	2,007.75	1995	2003	409.66	15.83	3.86
13	Maharashtra	Adol	Godavari	116.55	1989	2015	12.89	4.52	35.07
14	Maharashtra	Bhama Askhed	Bhama	198.08	2000	2010	152.27	7.89	5.18
15	Maharashtra	Bhatsa	Bhatsa	388.50	1979	2017	942.10	415.53	44.11
16	Maharashtra	Bhojapur	Godavari	154.00	1972	2017	10.22	0.36	3.52
17	Maharashtra	Chandani	Krishna	606.00	1965	2015	21.58	8.17	37.86
18	Maharashtra	Chilewadi	Krishna	103.94	2000	2016	24.60	8.75	35.56
19	Maharashtra	Chitri	Krishna	27.85	2004	2017	52.48	8.91	16.97
20	Maharashtra	Dara	Tapi	63.71	2007	2013	13.45	9.44	70.15
21	Maharashtra	Darna	Godavari	404.00	1916	2015	219.91	31.25	14.21
22	Maharashtra	Dhom	Krishna	217.56	1977	2022	331.05	28.69	8.67
23	Maharashtra	Dudhganga	Krishna	196.00	1999	2018	679.11	16.13	2.38
24	Maharashtra	Ekburji	Godavari	75.16	1964	2016	11.97	2.53	21.14
25	Maharashtra	Gautami	Godavari	41.18	2006	2014	52.90	8.31	15.70
26	Maharashtra	Ghorazari	Godavari	90.65	1923	2015	43.16	19.20	44.49
27	Maharashtra	Hatnur	Tapi	29,430.00	1982	2017	255.00	151.50	59.41
28	Maharashtra	Isapur	Penganga	4,650.00	1983	2021	928.26	87.61	9.44
29	Maharashtra	Jawalgaon	Krishna	223.00	1989	2016	29.19	2.39	8.20
30	Maharashtra	Kadwa	Godavari	173.23	1992	2016	52.92	2.33	4.40
31	Maharashtra	Kanher	Venna	204.69	1987	2018	271.68	3.59	1.32

S. No.	State	Name of Reservoir	Name of River	Catchment Area in Sq.Km.	Year of Completion/ first impoundment	Year of last Survey	Initial Live Storage in MCM	Total Loss of Live Storage upto Last Survey	Percentage % loss of live storage upto Last Survey
32	Maharashtra	Karpara	Godavari	270.00	1974	2014	24.90	8.19	32.90
33	Maharashtra	Kurnur	Godavari	322.56	1968	2017	32.28	1.60	4.96
34	Maharashtra	Mandohol	Godavari	142.45	1981	2015	8.78	3.48	39.64
35	Maharashtra	Masoli	Godavari	281.07	1982	2014	27.14	5.70	21.02
36	Maharashtra	Mayani	Krishna	135.17	1876	2015	1.46	0.39	26.78
37	Maharashtra	Morana (Shirala)	Krishna	85.50	1985	2013	16.54	0.81	4.92
38	Maharashtra	Mukane	Godavari	129.59	1994	2015	204.98	60.45	29.49
39	Maharashtra	Nagya Sakya	Godavari	451.28	1982	2016	11.24	1.31	11.68
40	Maharashtra	Niradeoghar	Godavari	114.48	2002	2010	332.14	35.87	10.80
41	Maharashtra	Paldhag	Tapi	88.27	1978	2016	7.51	1.09	14.51
42	Maharashtra	Panzara	Tapi	215.14	1994	2017	35.63	8.44	23.69
43	Maharashtra	Punegaon	Godavari	66.00	2002	2014	17.57	1.40	7.97
44	Maharashtra	Renapur	Godavari	272.00	2000	2014	16.40	1.93	11.77
45	Maharashtra	Siddheshwar	Purna	440.00	1963	2007	80.82	1.69	2.09
46	Maharashtra	Sirpur	Bagh	432.53	1972	2007	192.52	33.36	17.33
47	Maharashtra	Surya	South Tapi	203.30	1990	2016	276.35	97.48	35.27
48	Maharashtra	Temghar	Mutha	37.70	1997	2010	67.76	5.51	8.13
49	Maharashtra	Tisgaon	Godavari	97.00	1999	2014	12.76	1.98	15.54
50	Maharashtra	Totladoh	Pench	4,273.00	1982	2009	1,091.53	72.95	6.68
51	Maharashtra	Wandri	South Tapi	28.53	1984	2016	35.94	6.92	19.25
52	Maharashtra	Yeralwadi	Krishna	766.84	1978	2014	20.02	2.70	13.46
53	Meghalaya	Kyrdem Kulai	Umtru	150.00	1983	2002	3.82	0.41	10.73
54	Odisha	Kalo	Kalo	153.00	1981	2016	23.93	3.07	12.85
55	Odisha	Ramial	Ramial	328.00	1985	2007	75.83	4.46	5.88
56	Odisha	Salandi	Salandi	673.00	1982	2009	556.50	37.89	6.81
57	Odisha	Sunei	Sunei	227.00	1991	2007	61.60	2.10	3.41
58	Punjab	Thein	Ravi	6100	1999	2022	2344	196.73	8.39
59	Rajasthan	Gudha	Mej	744.96	1958	2007	93.59	25.20	26.93
60	Rajasthan	Mahi Bajaj Sagar	Mahi	6,149.00	1983	2005	1,833.50	141.21	7.70
61	Rajasthan	Ramsagar	Bamani	176.00	1905	2003	29.39	4.73	16.09
62	Rajasthan	Urmila Sagar	Babudhen	77.70	1905	2004	15.14	0.45	2.97
63	Tamil Nadu	Sholayar	Sholayar	121.68	1972	2007	142.88	8.72	6.10
64	Telangana	Kinnersani	Kinnerasani	1,332.55	1966	2010	196.76	30.71	15.61
65	Telangana	Musi	Musi	9,090.00	1963	2013	130.31	10.49	8.05

S. No.	State	Name of Reservoir	Name of River	Catchment Area in Sq.Km.	Year of Completion/ first impoundment	Year of last Survey	Initial Live Storage in MCM	Total Loss of Live Storage upto Last Survey	Percentage % loss of live storage upto Last Survey
66	Tripura	Gumti	Gumti	338.00	1984	2020	312.90	77.23	24.68
67	Uttar Pradesh	Maudaha	Birma Tributary	1692	1991	2019	179	1.27	0.71
68	Uttar Pradesh	Meja	Belan	2020.02	1974	2018	300.725	42.36	14.09
69	Uttar Pradesh	Nagawa	Karmnasa	469	1950	2017	64.408	7.09	11.00
70	Uttar Pradesh	Shahzad	Shahzad	514	1992	2018	118.93	0.12	0.10
71	Uttar Pradesh	Sirsi	Sirsi	601.00	1958	2013	178.64	29.17	16.33

Details of Sedimentation Survey of 330 Reservoirs used for analysis on Live Storage (Subset of 466 Reservoirs)

S. No.	State	Name of Reservoir	Name of River	Catchment Area in Sq.Km.	Year of Completion/ first impoundment	Year of last Survey	Initial Live Storage in MCM	Total Loss of Live Storage upto Last Survey	Percentage % loss of live storage upto Last Survey	Average Observed rate of siltation on basis of live storage (Th.Cu.m/ Sq.km./Yr)
1	Andhra Pradesh	Mylavaram	Pennar	49720	1969	2021	181.97	15.72	8.64	0.01
2	Andhra Pradesh	Raiwada Dam	Sarada	448	1982	2023	92.74	10.12	10.91	0.55
3	Andhra Pradesh	Srisailam Reservoir	Krishna	60350	1976	2021	7165.45	2060.51	28.76	0.76
4	Andhra Pradesh	Thandava Dam	Thandava	448	1975	2023	124.64	9.04	7.25	0.42
5	Andhra Pradesh	Yeleswaram Reservoir	Yeleru	2232	1991	2021	508.00	3.85	0.76	0.06
6	Arunanchal pradesh	Ranganadi	Ranganadi (Panior)	1894	2002	2017	5.70	1.90	33.33	0.07
7	Bihar	Anjan	Anjan	82	1989	2022	24.71	0.39	1.58	0.14
8	Bihar	Badua	Badua	480.7	1965	2006	109.66	10.10	9.21	0.51
9	Bihar	Bilashi	Bilashi	56.462	2001	2022	28.87	0.12	0.42	0.10
10	Bihar	Kharagpur Lake	Mani	178.94	1876	2021	16.51	1.16	7.03	0.10
11	Bihar	Orhni	Orhni	146.5	2000	2022	44.59	15.68	35.16	4.87
12	Chhattisgarh	Baherakhar	Kukurbahra	36.24	1981	2021	13.71	2.69	19.62	1.85
13	Chhattisgarh	Balar	Balar Nallah	81.52	1982	2021	36.67	1.45	3.95	0.46
14	Chhattisgarh	Banki	Banki	37.12	1994	2021	17.07	0.93	5.48	0.93
15	Chhattisgarh	Chhirpani	Phonk	163.3	1992	2021	50.24	10.08	20.06	2.13
16	Chhattisgarh	Dudhawa	Mahanadi	625.27	1963	2021	284.13	32.13	11.31	0.89

S. No.	State	Name of Reservoir	Name of River	Catchment Area in Sq.Km.	Year of Completion/ first impoundment	Year of last Survey	Initial Live Storage in MCM	Total Loss of Live Storage upto Last Survey	Percentage % loss of live storage upto Last Survey	Average Observed rate of siltation on basis of live storage (Th.Cu.m/ Sq.km./Yr)
17	Chhattisgarh	Gej	Gej	57.02	2002	2021	22.87	0.09	0.39	0.08
18	Chhattisgarh	Ghongha	Ghongha	111.37	1981	2021	30.04	1.66	5.52	0.37
19	Chhattisgarh	Ghunghutta (Shyam)	Ghunghutta	492	2000	2021	62.05	13.72	22.10	1.33
20	Chhattisgarh	Gondali	Juar	194.25	1956	2021	96.57	4.42	4.58	0.35
21	Chhattisgarh	Jhumka	Jhumka Nalla	69.15	1993	2021	22.90	0.46	2.01	0.24
22	Chhattisgarh	Khamhar Pakut	Khamhar Pakut	50.58	1991	2021	19.38	1.86	9.57	1.22
23	Chhattisgarh	Kharung	Kharung	614	1930	2021	192.30	16.15	8.40	0.29
24	Chhattisgarh	Kinkari	Kinkari Nalla	42.91	1982	2021	15.72	1.71	10.88	1.02
25	Chhattisgarh	Kodar	Mahanadi	317.17	1984	2021	149.02	20.61	13.83	1.76
26	Chhattisgarh	Maniyari	Maniyari	854.2	1930	2021	147.70	37.68	25.51	0.48
27	Chhattisgarh	Matiyamoti	Moti Nalla	82.875	1988	2021	26.48	4.42	16.68	1.62
28	Chhattisgarh	Minimata Bango	Hasdeo	6730	1990	2021	3046.00	157.52	5.17	0.76
29	Chhattisgarh	Moorumsilli	Siliyari	484.33	1923	2021	155.08	7.26	4.68	0.15
30	Chhattisgarh	Ravi Shankar Sagar Dam	Mahanadi	3670	1979	2021	766.32	65.97	8.61	0.43
31	Chhattisgarh	Saroda	Utani	94.25	1963	2021	30.15	2.50	8.30	0.46
32	Chhattisgarh	Sikaser	Pairy	497	1977	2021	198.81	20.09	10.10	0.92
33	Chhattisgarh	Sondur	Sondur	512	1988	2021	179.61	48.45	26.98	2.87
34	Chhattisgarh	Tandula	Tandula and Sukha	827.09	1923	2021	302.27	22.23	7.35	0.27
35	Goa	Anjunem	Costi nadi	17.18	1989	2021	44.00	8.68	19.73	15.79

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36	Goa	Salaulim	Selaulim River/ Zurai	209.04	1990	2021	226.97	23.27	10.25	3.59
37	Gujarat	Aji-II	Tributory of Aji	450.66	1986	2022	20.76	2.31	11.12	0.14
38	Gujarat	Aji-III	Tributory of Aji	1378.53	1989	2022	57.20	5.83	10.19	0.13
39	Gujarat	Bangavadi	Savadiyanal Tributory of Aji	96.5	1988	2022	5.95	0.01	0.15	0.00
40	Gujarat	Baukha	Tributory of Kaila	9.37	1976	2022	0.55	0.11	19.09	0.24
41	Gujarat	Berachiya	Tributory of Naira	160.06	1987	2022	5.53	0.24	4.36	0.04
42	Gujarat	Bhadar - 1	Bhadar	2406	1964	2021	223.70	10.77	4.81	0.08
43	Gujarat	Bhadar - 2	Bhadar	612.78	2000	2021	41.85	6.65	15.89	0.68
44	Gujarat	Bhalot	Tributory of Local	7.51	1976	2022	0.36	0.18	49.17	0.51
45	Gujarat	Bhukhi	Tributory of Bhukhi	156.9	1983	2022	14.58	2.38	16.30	0.39
46	Gujarat	Brahmani-1	Brahmani	699.3	1953	2021	71.36	1.04	1.46	0.02
47	Gujarat	Chhaparwadi - II	Tributory of Chhaparvadi	375.43	1978	2022	16.76	1.75	10.41	0.11
48	Gujarat	Chopadvav	Doman	27.84	1985	2020	9.40	3.78	40.21	3.88
49	Gujarat	Chunadi	Tributory of Nag	6.73	1985	2022	0.34	0.16	46.04	0.63
50	Gujarat	Damanganga_Madhuban	Damanganga.	1813	1983	2020	502.00	29.15	5.81	0.43
51	Gujarat	Dantiwada	Banas	2862	1965	2020	444.71	60.75	13.66	0.39
52	Gujarat	Darsadi	Tributory of Local	8.29	1971	2022	0.56	0.11	20.36	0.27
53	Gujarat	Demi - I	Tributory of Demi	170.65	1959	2022	22.10	0.12	0.55	0.01
54	Gujarat	Demi - III	Tributory of Demi	573.89	2001	2022	8.47	0.17	2.05	0.01

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55	Gujarat	Dev	Deo	259	1986	2021	76.33	18.69	24.48	2.06
56	Gujarat	Dhaneti	Tributory of Local	36.03	1953	2022	2.51	0.62	24.74	0.25
57	Gujarat	Dhari	Tributory of Sukhbhadar	64.25	1972	2022	2.77	0.25	9.03	0.08
58	Gujarat	Dharoi	Sabarmati	5540	1976	2020	775.89	30.40	3.92	0.12
59	Gujarat	Dondi	Tributory of Dondi	52	2001	2022	2.92	0.50	16.95	0.45
60	Gujarat	Doswada	Mindhola	62.16	1913	2021	4.80	1.47	30.63	0.22
61	Gujarat	Faddangbeti	Tributory of Beti	106	1992	2022	5.37	0.09	1.77	0.03
62	Gujarat	Faradi	Tributory of Faradi	53.61	1964	2022	5.50	1.08	19.58	0.35
63	Gujarat	Fatehgadh	Malan	103.6	1987	2021	6.63	2.64	39.80	0.75
64	Gujarat	Gajansar	Tributory of Naira	165.7	1967	2022	3.91	0.84	21.43	0.09
65	Gujarat	Gajod	Tributory of Nagmati	167.25	1955	2022	9.85	2.65	26.85	0.24
66	Gujarat	Ghelo Somnath	Ghelo Tributory of	59.57	1964	2022	7.32	2.62	35.76	0.76
67	Gujarat	Ghodadhroi	Tributory of Ghodadhroi	145.55	1990	2022	6.24	0.12	1.88	0.03
68	Gujarat	Godhatad	Tributory of Mitiariwali	187.7	1978	2022	12.67	2.60	20.53	0.31
69	Gujarat	Hadaf	Hadaf	507.64	1986	2021	25.02	3.83	15.30	0.22
70	Gujarat	Harnav	Harnav	116	1990	2021	19.97	0.67	3.34	0.19
71	Gujarat	Hathmati	Hathmati	595	1971	2020	152.97	6.65	4.35	0.23
72	Gujarat	Ishwariya	Tributory of Saran	54.8	1983	2022	4.85	0.32	6.58	0.15
73	Gujarat	Jamara Mis	Tributory of Local	7.25	1950	2022	1.10	0.09	8.29	0.17

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74	Gujarat	Jangadiya	Tributory of Khari	147.63	1985	2022	6.85	0.63	9.24	0.12
75	Gujarat	Jhuj	Ambika (Tributary of	42.99	1990	2020	27.58	3.02	10.95	2.34
76	Gujarat	Jinkadi-2	Tributory of Local	2.59	1953	2022	0.39	0.19	47.44	1.04
77	Gujarat	Kabir Sarovar	Tributory of Chhaparwadi	90.655	1975	2022	6.21	0.44	7.02	0.10
78	Gujarat	Kaila	Tributory of Kaila	178	1955	2022	12.08	3.54	29.28	0.30
79	Gujarat	Kakdiamba	Wagti	24.22	1985	2020	7.22	1.29	17.88	1.52
80	Gujarat	Kalaghogha	Tributory of Phot	170.94	1987	2022	4.24	1.08	25.42	0.18
81	Gujarat	Kanazara	Tributory of Local Stream	46.62	1964	2022	2.05	0.17	8.10	0.06
82	Gujarat	Kankavati	Tributory of Kankavati	207.5	1956	2022	9.83	0.02	0.21	0.00
83	Gujarat	Karjan	Karjan	1403.78	1984	2021	581.00	26.47	4.56	0.51
84	Gujarat	Karmal	Tributory of Karmal	167.57	1984	2022	10.30	0.27	2.59	0.04
85	Gujarat	Karnuki	Tributory of Karnuki	103.6	2004	2022	8.31	0.03	0.30	0.01
86	Gujarat	Kaswati	Tributory of Kaswati	66.56	1987	2022	7.96	0.84	10.60	0.36
87	Gujarat	Keliya	Kharera Tributary of	27.58	1984	2020	17.36	1.81	10.40	1.82
88	Gujarat	Khedoi	Tributory of Local	56.46	2003	2022	2.65	0.06	2.34	0.06
89	Gujarat	Khengar Sagar	Tributory of Bhukhi	151.51	1944	2022	8.41	1.51	17.93	0.13
90	Gujarat	Khodiyar	Shetrunji	383	1962	2021	40.36	9.55	23.65	0.42
91	Gujarat	Lakhigam	Dhakani Khadi	13.34	1982	2021	4.61	0.55	11.87	1.05
92	Gujarat	Ler	Tributory of Pat	14.5	1939	2022	1.63	0.69	42.02	0.57

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93	Gujarat	Loriya	Tributory of Local Stream	9.6	1970	2022	0.46	0.16	35.51	0.33
94	Gujarat	Ludawa	Tributory of Local	12.43	1984	2022	0.75	0.15	19.87	0.32
95	Gujarat	Machhu-3	Tributory of Machhu	2088.05	2015	2022	6.46	0.01	0.19	0.00
96	Gujarat	Machhannala	Machhan	244.91	1982	2021	29.16	2.07	7.10	0.22
97	Gujarat	Machhu-2	Machhu	1193.47	1972	2021	90.99	2.13	2.34	0.04
98	Gujarat	Malgadh	Tributory of Ghelo	32.24	1985	2022	2.54	0.19	7.50	0.16
99	Gujarat	Mamuara	Tributory of Local	7.68	1943	2022	0.70	0.35	49.79	0.58
100	Gujarat	Mathal	Tributory of Dhadodh	114	1985	2022	11.19	0.71	6.32	0.17
101	Gujarat	Mazam	Mazam	407.8	1984	2021	36.58	1.88	5.15	0.12
102	Gujarat	Meshwo	Meshwo	259	1968	2021	77.25	5.06	6.55	0.37
103	Gujarat	Mitti	Mitti	260.295	1983	2021	16.28	2.00	12.30	0.20
104	Gujarat	Moj	Tributory of Moj	440.3	1995	2022	36.69	0.25	0.70	0.02
105	Gujarat	Mukteshwar	Saraswati	305.62	1990	2021	32.81	6.53	19.90	0.69
106	Gujarat	Nirona	Tributory of Bharud	388.35	1958	2022	22.98	1.97	8.57	0.08
107	Gujarat	Nyari-II	Tributory of Nyari	314	1986	2022	11.70	0.25	2.11	0.02
108	Gujarat	Panam	Panam	2314	1977	2021	679.20	55.85	8.22	0.55
109	Gujarat	Patadungri	Khan	249	1954	2021	39.64	6.79	17.14	0.41
110	Gujarat	Phophal-I	Tributory of Phophal	525.77	1974	2022	51.68	3.38	6.53	0.13
111	Gujarat	Phot	Tributory of Phot	18.13	1961	2022	2.02	0.17	8.55	0.16

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112	Gujarat	Punadi	Tributory of Local	5.7	1959	2022	0.52	0.04	8.46	0.12
113	Gujarat	Ratnal	Tributory of Local Stream	29.78	1981	2022	1.32	0.02	1.21	0.01
114	Gujarat	Rudramata	Khari	383.17	1970	2021	55.76	0.45	0.81	0.02
115	Gujarat	Sanandro	Tributory of Kail	147.57	1955	2022	10.09	0.26	2.60	0.03
116	Gujarat	Sardar Sarovar	Narmada	26358	1995	2024	5760.00	289.09	5.02	0.38
117	Gujarat	Satapar Rata	Tributory of Local	56.98	1950	2022	2.84	0.21	7.37	0.05
118	Gujarat	Serai Mis	Tributory of Serai	56.32	1981	2022	3.67	0.11	3.08	0.05
119	Gujarat	Shaktisagar (Brahmani-Ii)	Tributory of Brahmani	850.81	2011	2022	18.50	2.39	12.90	0.26
120	Gujarat	Sodvadar	Utavali Tributory of	48.22	2001	2022	4.63	0.76	16.32	0.75
121	Gujarat	Sukhi	Sukhi	411.81	1987	2021	167.14	0.94	0.56	0.07
122	Gujarat	Surkhan	Tributory of Surkhan	58.27	1966	2022	3.18	0.06	1.89	0.02
123	Gujarat	Survo	Tributory of Survo	238.11	2000	2022	13.67	0.71	5.17	0.13
124	Gujarat	Suvi	Tributory of Suvi	160.52	1969	2022	11.90	3.77	31.65	0.44
125	Gujarat	Tappar	Sakara	283.6	1967	2021	48.60	1.71	3.52	0.11
126	Gujarat	Vadzar	Tributory of Local	6.34	1984	2022	0.53	0.45	84.91	1.87
127	Gujarat	Varshamedi	Tributory of Local	12.95	1942	2022	1.76	0.08	4.77	0.08
128	Gujarat	Venu - II	Tributory of Venu	781.68	1988	2022	18.80	4.35	23.16	0.16
129	Gujarat	Ver_2-Amli	Ver	90	1984	2020	37.05	5.33	14.39	1.65
130	Gujarat	Veri	Tributory of Veri	178.42	1901	2022	8.48	3.10	36.56	0.14

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131	Gujarat	Vijaysagar Mis	Tributory of Kojachora	229.21	1948	2022	19.34	1.51	7.80	0.09
132	Gujarat	Wankleshwar	Bed River (River that	44.5	1978	2021	11.69	0.55	4.72	0.29
133	Gujarat	Watrak	Watrak	1114	1984	2021	152.79	6.23	4.08	0.15
134	Gujarat	Zuran	Tributory of Zuran	14.77	1946	2022	0.88	0.44	49.66	0.39
135	Gujarat	Bhadar(P)	Bhadar	407	1983	2009	39.90	10.73	26.88	1.01
136	Gujarat	Hiran-II	Hiran	168	1981	1998	35.02	1.12	3.20	0.39
137	Gujarat	Kadana	Mahi	25486	1977	2000	1203.00	248.32	20.64	0.42
138	Gujarat	Rami	Narmada	25	1983	1999	6.61	2.12	32.00	5.29
139	Gujarat	Sani	Sani	506	1984	2010	46.15	13.98	30.28	1.06
140	Gujarat	Sasoi	Sasoi	562.03	1954	2009	46.75	8.78	18.78	0.28
141	Gujarat	Shetrunji	Shetrunji	4317	1959	2008	374.83	46.39	12.38	0.22
142	Gujarat	Sipu	Banas	122	1992	2007	156.00	10.60	6.79	5.79
143	Gujarat	Ukai	Tapi	62225	1972	2003	7097.00	367.10	5.17	0.19
144	Himachal Pradesh	ADHPL	Allain & Duhangan	195.1	2010	2018	0.22	0.04	19.00	0.03
145	Himachal Pradesh	Baira	Baira	669	1980	2017	2.48	1.88	75.81	0.08
146	Himachal Pradesh	Bhakra	Sutlej	56880	1963	2022	7436.03	1374.69	18.49	0.41
147	Himachal Pradesh	Chamera-I	Ravi	4725	1994	2018	94.85	6.95	7.33	0.06
148	Himachal Pradesh	Chamera-II	Ravi	2593	2003	2018	1.57	0.18	11.46	0.00
149	Himachal Pradesh	Chamera-III	Ravi	2203	2012	2018	3.64	0.76	20.88	0.06

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150	Himachal Pradesh	Parbati-III	Sainj	650	2014	2018	1.28	0.30	23.44	0.12
151	Himachal Pradesh	Pong	Indus	12562	1974	2018	7291.22	786.53	10.79	1.42
152	Himachal Pradesh	Kol	Sutlej	7361	2015	2021	89.12	16.81	18.86	0.38
153	UT of Jammu & Kashmir	Dulhasti	Chenab	10500	2006	2017	12.00	0.39	3.25	0.00
154	UT of Laddakh	Nimoo Bazgo	Indus	58880	2013	2016	9.66	0.56	5.80	0.00
155	UT of Jammu & Kashmir	Sewa-II	Sewa	341	2010	2018	4.39	0.14	3.19	0.05
156	Jharkhand	Getalsud	Subarnrekha	717	1971	2022	231.89	13.89	5.99	0.38
157	Jharkhand	Konar	Damodar	842	1955	2020	220.05	62.96	28.61	1.15
158	Jharkhand	Maithon	Barakar	6293	1955	2019	607.30	177.65	29.25	0.44
159	Jharkhand	Panchet Hill Dam	Damodar	10878	1956	2020	252.30	80.64	31.96	0.12
160	Jharkhand	Tilaiya	Barakar	984	1953	2019	194.90	84.26	43.23	1.30
161	Jharkhand & West Bengal	Massanjore Dam	Mayurakshi	1859.6	1954	2022	540.13	28.90	5.35	0.23
162	Karnataka	Basavasagara Reservoir	Krishna	47850	1982	2022	868.55	114.19	13.15	0.06
163	Karnataka	Gerusuppa	Sharavathi	151.5	2001	2021	58.70	0.81	1.38	0.27
164	Karnataka	Ghataprabha (Hidkal)	Ghatraprabha	1411.55	1974	2000	1366.14	88.98	6.51	2.42
165	Karnataka	Harangi	Cauvery	419.58	1982	2009	228.59	20.77	9.09	1.83
166	Karnataka	Hemavathy	Cauvery	2810	1979	2009	1012.60	91.79	9.06	1.09
167	Karnataka	Hippargi	Krishna	22699	1998	2007	68.35	1.36	1.98	0.01
168	Karnataka	Krishnaraja Sagar	Cauvery	10620	1932	2009	1275.69	58.41	4.58	0.07

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169	Karnataka	Linganamakki	Sharavathi	1991.71	1963	2021	4294.04	400.46	9.33	3.47
170	Karnataka	Malaprabha	Malaprabha	2176	1981	1991	1106.66	34.58	3.12	1.59
171	Karnataka	Mani	Varahi	163.16	1989	2021	883.80	61.35	6.94	11.75
172	Karnataka	Savehaklu	Savehaklu	48.11	1980	2022	66.97	1.51	2.25	0.75
173	Karnataka	Supa	Kali river	1057	1987	2022	3758.40	66.41	1.77	1.80
174	Karnataka	Tattihalla	Tattihalla	1165	1980	2022	249.26	16.03	6.43	0.33
175	Karnataka	Tungabhadra	Tungabhadra	28180	1953	2008	3718.34	862.45	23.19	0.56
176	Karnataka	Vani Vilas Sagar Reservoir	Vedavathi	1554	1901	2022	802.50	0.38	0.05	0.00
177	Kerala	Idamalayar	Idamalayar	375	1986	2023	1135.23	27.48	2.42	6.11
178	Kerala	Idukki	Periyar	668.83	1976	2023	1461.60	61.13	4.18	1.94
179	Kerala	Kakki	Kakki	214.5	1966	2023	446.53	31.71	7.10	2.59
180	Kerala	Kallada Dam	Kallada	549	1986	2018	507.00	99.70	19.66	5.67
181	Kerala	Kanjirapuzha	Kanjirapuzha	70	1980	2017	69.23	20.96	30.28	8.09
182	Kerala	Karapuzha Dam	Karapuzha	62	2005	2016	72.00	40.23	55.88	58.99
183	Kerala	Kuttiyadi	Kuttiyadi	108.78	1973	2010	113.44	22.88	20.17	5.69
184	Kerala	Malampuzha	Bharathapuzha	147.64	1955	2006	213.60	18.49	8.65	2.45
185	Kerala	Mangalam	Cherrukunapuzha	48.85	1966	2015	25.34	5.50	21.68	2.30
186	Kerala	Meenkara	Meenkara	90.65	1960	2009	10.33	1.08	10.43	0.24
187	Kerala	Neyyar	Neyyar	139.859	1964	2015	95.73	0.66	0.68	0.09

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188	Kerala	Pazhassy Dam	Pazhassi	640	1979	2016	97.50	50.62	51.92	2.14
189	Kerala	Peechi	Manali	107.1	1957	2013	108.15	13.95	12.89	2.33
190	Kerala	Pothundi	Bharatpuzha	31	1971	2009	43.90	1.03	2.33	0.87
191	Kerala	Siruvani Dam	Siruvani	22.47	1984	2012	18.42	0.43	2.32	0.68
192	Kerala	Walayar Dam	Bharathapuzha	106.355	1956	2009	15.19	0.74	4.88	0.13
193	Madhya Pradesh	Bahoriband	Bhuta Nalla	108.76	1927	2022	34.52	1.68	4.86	0.16
194	Madhya Pradesh	Barna	Barna	1176	1975	2023	455.90	62.46	13.70	1.11
195	Madhya Pradesh	Chandrakeshar	Chandrakeshar	111.369	1976	2022	28.49	2.71	9.51	0.53
196	Madhya Pradesh	Dejla Dewada	Kunda	335.4	1988	2022	50.29	0.30	0.60	0.03
197	Madhya Pradesh	Gandhi Sagar Dam	Chambal	23025	1960	2024	6910.00	497.91	7.21	0.34
198	Madhya Pradesh	Harsi Dam	Parwati	828	1935	2023	192.66	20.30	10.54	0.28
199	Madhya Pradesh	Jobat	Jobat	792	2007	2022	70.04	0.05	0.08	0.00
200	Madhya Pradesh	Man	man	690	2007	2022	129.48	16.71	12.90	1.61
201	Madhya Pradesh	Mohini Pick Up Weir	Sind	469.95	1989	2023	107.11	9.45	8.82	0.59
202	Madhya Pradesh	Pagara	Asan	540.5	1927	2023	120.40	21.53	17.88	0.41
203	Madhya Pradesh	Samrat Ashok Sagar (Halali)	Halali (Thal)	735	1976	2023	303.71	30.15	9.93	0.87
204	Madhya Pradesh	Sukta	Sukta	468.79	1984	2022	78.06	8.35	10.70	0.47
205	Madhya Pradesh	Tawa	Tawa	5396	1975	2023	1943.96	318.64	16.39	1.79
206	Madhya Pradesh	Upper Beda	Narmada/Beda	523	2010	2022	76.24	14.58	19.12	2.32

S. No.	State	Name of Reservoir	Name of River	Catchment Area in Sq.Km.	Year of Completion/ first impoundment	Year of last Survey	Initial Live Storage in MCM	Total Loss of Live Storage upto Last Survey	Percentage % loss of live storage upto Last Survey	Average Observed rate of siltation on basis of live storage (Th.Cu.m/ Sq.km./Yr)
207	Maharashta	Bhatghar	Yelwandi	331.5	1927	2007	672.65	108.59	16.14	4.09
208	Maharashta	Chankapur	Girna	269	1913	2009	76.86	14.44	18.79	0.56
209	Maharashta	Girna	Girna	4727.3	1969	2010	523.55	13.35	2.55	0.07
210	Maharashtra	Jayakwadi	Godavari	21774	1976	1999	2170.94	94.15	4.34	0.19
211	Maharashtra	Karanjvan	Kadwa	248	1974	2008	164.19	8.59	5.23	1.02
212	Maharashta	Koyna	Koyna	891.78	1962	2012	2860.89	139.43	4.87	3.13
213	Maharashtra	Majalgaon	Sindfana	3840	1987	2010	312.00	19.24	6.17	0.22
214	Maharashtra	Mula	Mula	2275.86	1972	2008	609.34	24.25	3.98	0.30
215	Maharashta	Panshet	Ambi	120.3	1968	2007	301.45	25.09	8.32	5.35
216	Maharashta	Radhnagri	Bhogavati	108.8	1908	2011	219.97	16.90	7.68	1.51
217	Maharashta	Varasgaon	Musa	130	1986	2007	363.19	1.96	0.54	0.72
218	Maharashta	Vir	Nira	1756	1965	2008	266.25	30.25	11.36	0.40
219	Maharashtra	Waghad	Kolvan	119	1978	2011	70.85	5.67	8.00	1.44
220	Maharashta	Warna	Warna	301	1984	2003	779.35	14.91	1.91	2.61
221	Maharashtra	Yeldari	Puma	7329.7	1968	2011	809.77	66.01	8.15	0.21
222	Maharashtra	Ashti	Ashti Nalla	238.28	1882	2023	32.54	13.87	42.62	0.41
223	Maharashtra	Bhima (Ujjani)	Bhima	9201.4	1977	2023	1517.20	182.67	12.04	0.43
224	Maharashtra	Chaskaman Dam	Bhima	305.56	1991	2023	214.50	10.66	4.97	1.09
225	Maharashtra	Dimbhe	Ghod	298	1988	2023	382.79	5.05	1.32	1.30

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226	Maharashtra	Ekrukh	Adhella Nalla	411.81	1871	2023	89.54	30.48	34.04	0.49
227	Maharashtra	Ghod	Ghod	2541.321	1965	2023	154.80	11.20	7.24	0.08
228	Maharashtra	Gosi Khurd Dam	Wainganga	5902	2010	2023	665.91	25.24	3.79	0.33
229	Maharashtra	Kasari	Kasari	32.28	1989	2023	77.96	2.33	2.99	2.12
230	Maharashtra	Khairy	Kar nadi	207.8	1990	2023	13.74	1.94	14.12	0.28
231	Maharashtra	Lower Terna	Terna	1373	1989	2023	113.99	27.37	24.01	0.59
232	Maharashtra	Manikdoh Dam	Kukadi	110	1984	2023	288.18	22.63	7.85	5.28
233	Maharashtra	Manjara	Manjara	2061.88	1980	2023	192.90	14.28	7.40	0.16
234	Maharashtra	Pimpalgaon Joge	Pushpavati-Aar	100	2000	2023	110.32	1.27	1.15	0.55
235	Maharashtra	Sina	Sina	1266.52	1985	2023	52.30	23.38	44.70	0.49
236	Maharashtra	Sina Kolegaon	Sina	3841.23	2007	2023	89.35	5.22	5.84	0.08
237	Maharashtra	Tulshi	Tulshi	34.92	1978	2023	92.69	2.46	2.65	1.57
238	Maharashtra	Upper Wardha	Wardha	4196.19	1993	2023	612.51	53.30	8.70	0.42
239	Maharashtra	Wadaj	Meena	155	1983	2023	33.10	3.11	9.40	0.50
240	Maharashtra	Yedgaon Dam	Kukadi	408.3	1977	2023	79.28	26.29	33.16	1.40
241	Meghalaya	Umiam	Umiam	220	1965	2004	141.80	7.11	5.01	0.83
242	Odisha	Balimela	Sileru	2953	1972	2023	2676.04	246.69	9.22	1.64
243	Odisha	Harabhangi Dam	Harabhangi	503.8	1998	2023	86.25	2.03	2.35	0.16
244	Odisha	Hirakud Dam	Mahanadi	83400	1957	2024	5825.84	1024.58	17.59	0.18

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245	Odisha	Rengali	Brahmani	25250	1985	2023	3413.71	138.63	4.06	0.14
246	Orissa	Upper Kolab	Kolab	1641.1	1986	2023	935.00	95.84	10.25	1.58
247	Punjab	Dholbaha Dam	Dholbaha Khad	56.14	1987	2021	10.36	1.22	11.77	0.64
248	Punjab	Jainti Dam	Soonk	7.1	2003	2021	2.62	0.47	17.93	3.67
249	Punjab	Janauri Dam	Janauri Khad	6.1	1986	2021	1.84	0.93	50.77	4.37
250	Punjab	Maili Dam	Maili Choe	17	1986	2021	4.13	1.70	41.04	2.85
251	Punjab	Mirzapur Dam	Budki	13.9	1996	2021	3.15	1.97	62.38	5.65
252	Punjab	Patiari Dam	Patiari	11.71	2002	2021	3.29	1.67	50.70	7.50
253	Punjab	Perch Dam	Perch Khad	5.6	1993	2021	0.57	0.47	83.52	3.03
254	Punjab	Saleran Dam	Saleran	7.2	1998	2021	7.52	2.88	38.25	17.37
255	Punjab	Siswan Dam	Siswan	15.2	1996	2021	3.43	0.53	15.38	1.39
256	Rajasthan	Bisalpur	Banas	27726	2004	2021	1039.22	45.00	4.33	0.10
257	Rajasthan	Chhapi	Chhapi	751.53	2006	2023	73.57	4.86	6.61	0.38
258	Rajasthan	Gambhiri Dam	Gambhiri	948.04	1957	2023	53.48	0.49	0.92	0.01
259	Rajasthan	Jaisamand	Gomti	1792.19	1973	2023	298.09	17.55	5.89	0.20
260	Rajasthan	Jakham	Jakham	1010	1986	2021	175.45	12.76	7.27	0.66
261	Rajasthan	Kota Barrage	Chambal	2005	1960	2021	29.92	0.88	2.94	0.01
262	Rajasthan	Ora	Khari	235.52	1958	2023	22.28	1.81	8.12	0.12
263	Rajasthan	Panchana Dam	Utangan/Gambhir	620.31	2006	2023	52.65	4.54	8.62	0.43

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264	Rajasthan	Parbati	Parbati	786	1963	2021	102.89	18.73	18.20	0.41
265	Rajasthan	Raj Samand	Chambal	513.8	1676	2021	98.65	5.55	5.63	0.03
266	Rajasthan	Ranapratap Sagar	Chambal	2280	1970	2021	1715.74	13.03	0.76	0.11
267	Rajasthan	Som Kamla Amba	Som	1242.5	1992	2021	176.34	8.74	4.96	0.24
268	Rajasthan	Sukli Selwara	Sukli River	201.96	2008	2023	25.58	1.27	4.96	0.42
269	Rajasthan	West Banas	West Banas	414.4	1962	2023	36.25	2.58	7.12	0.10
270	Sikkim	Rangit-III	Rangit	979	2000	2018	1.17	0.50	42.74	0.03
271	Sikkim	Teesta-V	Teesta	4307	2008	2018	6.28	0.71	11.31	0.02
272	Tamil Nadu	Adavinainar	Hanumannathi	15.54	2003	2010	4.93	0.09	1.79	0.81
273	Tamil Nadu	Anaikuttam	Arjuna	795.265	1990	2014	3.45	0.19	5.59	0.01
274	Tamil Nadu	Berijam	-	7.77	1911	1987	2.20	0.39	17.81	0.66
275	Tamil Nadu	Bhavani Sagar	Bhavani	4134.5	1953	2021	792.46	83.29	10.51	0.30
276	Tamil Nadu	Gadana	Gadana	46.46	1971	2003	9.97	1.84	18.49	1.24
277	Tamil Nadu	Glennmorgan (Fb)	Glennmorgan Stream	12.43	1976	1998	5.85	2.30	39.32	8.41
278	Tamil Nadu	Glennmorgan (Kariappa)	Glennmorgan Stream	2.59	1930	2013	0.74	0.04	5.41	0.19
279	Tamil Nadu	Kamraj Sagar	Kundah	44.035	1963	2002	23.11	3.32	14.37	1.93
280	Tamil Nadu	Kodaganar	Kodaganar	1670	1977	2007	12.29	2.16	17.53	0.04
281	Tamil Nadu	Kundah	Kundah	113.96	1960	1982	1.56	0.91	58.33	0.36
282	Tamil Nadu	Manimuthar	Thamirabarani	161.62	1958	2006	159.50	10.05	6.30	1.30

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283	Tamil Nadu	Manjalar	Manjalar	119.139	1967	2009	13.76	4.31	31.34	0.86
284	Tamil Nadu	Maravakandy	Pykara	20.72	1947	2004	0.82	0.21	26.03	0.18
285	Tamil Nadu	Marudhanadhi	Marudhanathi	53.315	1979	2010	5.11	0.19	3.62	0.11
286	Tamil Nadu	Mettur	Cauvery	30569.6	1934	2021	2646.75	440.14	16.63	0.17
287	Tamil Nadu	Mukurthy	Pykara	25.25	1938	2006	50.71	18.72	36.92	10.90
288	Tamil Nadu	Parappalar	Nangangi	72.88	1974	2003	5.61	1.59	28.27	0.75
289	Tamil Nadu	Parson' Valley	Kundah	14.5	1966	1995	17.19	6.19	36.01	14.72
290	Tamil Nadu	Pechipparai	Kodayar	172	1971	2013	123.23	16.46	13.35	2.28
291	Tamil Nadu	Pegumbahalla	Kundah	41.44	1966	1982	1.03	0.40	38.83	0.60
292	Tamil Nadu	Pillavukkal Periyar	Periyar	36	1976	2013	5.44	0.26	4.86	0.20
293	Tamil Nadu	Pillur	Bhavani	1191.4	1967	2013	34.97	9.06	25.91	0.17
294	Tamil Nadu	Ponnaniyar	Ponnaniyar	87.02	1974	1995	3.39	1.08	31.90	0.59
295	Tamil Nadu	Pykara	Pykara	38.1	1954	2010	54.52	19.35	35.49	9.07
296	Tamil Nadu	Sathiyarar	Sathiyarar	95.71	1965	2010	1.33	0.21	15.37	0.05
297	Tamil Nadu	Vaigai	Vaigai	2255.127	1958	2012	193.33	30.61	15.83	0.25
298	Tamil Nadu	Vembakottai	Vaippar	1593.55	1989	2013	11.28	1.11	9.82	0.03
299	Telangana	Large Tank Bayyaram	Munneru	576	1962	2023	11.24	0.73	6.49	0.02
300	Telangana	M. Baga Reddy Singur Project	Manjeera	16097	1989	2022	822.46	4.15	0.50	0.01
301	Telangana	Mathadivagu Project	Mathadivagu	236	2008	2022	14.32	1.86	13.01	0.56

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302	Telangana	Nagarjuna Sagar	Krishna	215185	1967	2009	6840.00	797.51	11.66	0.09
303	Telangana	Ntr Sagar Project (Chelimela Vagu)	Chalamala Vagu	103	1998	2022	8.76	0.63	7.20	0.26
304	Telangana	Priyadarshini Jurala Project	Krishna	82471	1996	2022	192.44	13.63	7.08	0.01
305	Telangana	Ralivagu Project	Ralivagu	131.36	2016	2022	10.81	4.35	40.23	5.52
306	Telangana	Ramadugu Project	Pedda Vagu	185.187	1964	2022	25.58	7.19	28.11	0.67
307	Telangana	Sri Ram Sagar Project	Godavari	51212	1970	2022	2298.95	437.73	19.04	0.16
308	Telangana	Swarna Reservoir	Swarna	290	1978	2022	35.83	7.16	19.98	0.56
309	Telangana	Upper Manair Reservoir	Upper Manair	2166	1950	2022	75.87	17.00	22.41	0.11
310	Uttar Pradesh	Matatila	Betwa	4403	1956	2023	876.63	208.06	23.73	0.77
311	Uttar Pradesh	Rihand	Rihand	13333	1962	2003	8979.94	1346.35	14.99	2.46
312	Uttar Pradesh	Pili	Pili	162	1962	2011	54.28	15.08	27.78	1.90
313	Uttar Pradesh & Madhya Pradesh	Rajghat	Betwa	16317	1999	2023	1945.00	30.21	1.55	0.08
314	Uttarakhand	Baur	Baur & Kakrala	307.2	1967	2023	102.51	15.04	14.67	0.87
315	Uttarakhand	Haripura	Bhakra, Khazia & Nihal	294.4	1975	2023	27.60	12.44	45.07	0.88
316	Uttrakhand	Baigul	Baigul	302	1968	2005	78.36	12.94	16.51	1.16
317	Uttrakhand	Dhauliganga	Dhauliganga	1360	2005	2018	3.20	0.87	27.19	0.05
318	Uttrakhand	Dhora	Dhora	134.68	1962	2005	50.99	8.05	15.78	1.39
319	Uttrakhand	Ichari	Tons	4913	1966	2003	11.55	5.46	47.27	0.03
320	Uttrakhand	Nanaksagar	Deoha	570	1962	2008	200.50	24.92	12.43	0.95

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321	Uttrakhand	Ramganga	Ramganga	3134	1974	2023	2192.81	47.75	2.18	0.31
322	Uttrakhand	Sarda Sagar	Sarda	127	1962	2009	364.67	57.03	15.64	9.55
323	Uttrakhand	Tehri Dam	Bhagirathi	7511	2005	2008	2632.30	15.48	0.59	0.69
324	West Bengal	Kangsabati Dam	Kangsabati and Kumari	1606	1965	2022	434.72	33.33	7.67	0.36
325	West Bengal	Kestobazar Dam	Kestobazar Nala	16.64	1969	2021	0.62	0.02	3.24	0.02
326	West Bengal	Kumari Dam	Kumari	2020	1976	2022	465.41	31.86	6.85	0.34
327	West Bengal	Tara Dam	Tara	27.52	1975	2021	0.53	0.05	10.00	0.04
328	West Bengal	TLDP-III	Teesta	7755	2013	2016	6.80	0.37	5.44	0.02
329	West Bengal	TLDP-IV	Teesta	8021	2016	2018	7.90	0.19	2.41	0.01
330	West Bengal	Durgapur Barrage	Damodar	2295	1955	2011	6.10	2.16	35.43	0.02

Appendix-V

Details of Sedimentation survey of 170 Reservoirs with Gross Capacity Less than or equal to 20 MCM (Subset of 466 Reservoirs)

S. No.	State	Name of Reservoir	Name of River	Catchment Area in Sq.Km.	Year of Completion/first impound ment	Year of Survey	DESIGNED Reservior Capacity MCM	LOSS of Storage Capacity MCM	Percentage % loss of storage	Average Observed rate of siltation (Th.Cu.m/ Sq.km./Yr)
1	Bihar	Kharagpur Lake	Mani	178.94	1876	2021	16.51	1.16	7.03	0.10
2	Chhattisgarh	Baherakhar	Kukurbahra	36.24	1981	2021	14.76	3.29	22.29	2.27
3	Chhattisgarh	Banki	Banki	37.12	1994	2021	18.42	1.71	9.30	1.71
4	Chhattisgarh	Kinkari	Kinkari Nalla	42.91	1982	2021	16.79	2.19	13.07	1.31
5	Gujarat	Berachiya	Tributory of Naira	160.06	1987	2022	6.87	1.01	14.66	0.18
6	Gujarat	Bhalot	Tributory of Local	7.51	1976	2022	0.43	0.25	57.44	0.71
7	Gujarat	Bhimdad	Madhu	109.82	1953	1986	11.19	4.50	40.21	1.24
8	Gujarat	Bhukhi	Tributory of Bhukhi	156.9	1983	2022	15.58	3.09	19.84	0.51
9	Gujarat	Bhuvad	Tributory of Local	14.76	1965	2022	0.89	0.04	4.72	0.05
10	Gujarat	Chhaparwadi - II	Tributory of Chhaparvadi	375.43	1978	2022	17.26	1.03	5.98	0.06
11	Gujarat	Chopadvav	Doman	27.84	1985	2020	10.15	4.53	44.63	4.65
12	Gujarat	Chunadi	Tributory of Nag	6.73	1985	2022	0.40	0.22	54.09	0.88
13	Gujarat	Darsadi	Tributory of Local	8.29	1971	2022	0.70	0.25	35.00	0.58
14	Gujarat	Dhaneti	Tributory of Local	36.03	1953	2022	2.68	0.70	26.04	0.28
15	Gujarat	Dhari	Tributory of Sukhbhadar	64.25	1972	2022	3.62	0.45	12.51	0.14
16	Gujarat	Don	Tributory of Khrod	140.29	1987	2022	2.28	0.33	14.37	0.07
17	Gujarat	Dondi	Tributory of Dondi	52	2001	2022	3.80	0.87	22.87	0.80
18	Gujarat	Doswada	Mindhola	62.16	1913	2021	5.00	1.57	31.40	0.23
19	Gujarat	Fachariya	Tributory of Local	5.18	1961	2022	0.47	0.06	12.98	0.19
20	Gujarat	Faddangbeti	Tributory of Beti	106	1992	2022	5.89	0.11	1.95	0.04
21	Gujarat	Faradi	Tributory of Faradi	53.61	1964	2022	6.18	1.66	26.78	0.53
22	Gujarat	Fatehgadh	Malan	103.6	1987	2021	7.45	3.41	45.74	0.97
23	Gujarat	Fulzar-I	Und	142.45	1957	1986	14.90	2.67	17.92	0.65
24	Gujarat	Gajansar	Tributory of Naira	165.7	1967	2022	5.99	2.08	34.62	0.23
25	Gujarat	Gajod	Tributory of Nagmati	167.25	1955	2022	10.67	3.36	31.52	0.30
26	Gujarat	Ghee	Ghee	129.49	1953	1986	13.84	1.23	8.89	0.29
27	Gujarat	Ghelo Somnath	Ghelo Tributory of Ghelo	59.57	1964	2022	8.13	3.23	39.67	0.93
28	Gujarat	Ghelo-I	Ghelo	103.6	1963	1986	13.35	3.35	25.09	1.41
29	Gujarat	Ghodadhroi	Tributory of Ghodadhroi	145.55	1990	2022	8.34	0.55	6.55	0.12
30	Gujarat	Godhatad	Tributory of Mitiariwali	187.7	1978	2022	13.97	3.69	26.42	0.45

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31	Gujarat	Goma	Goma	155.4	1972	1986	18.26	2.35	12.87	1.08
32	Gujarat	Ishwariya	Tributory of Saran	54.8	1983	2022	5.25	0.54	10.32	0.25
33	Gujarat	Jamara Mis	Tributory of Local	7.25	1950	2022	1.10	0.05	4.46	0.09
34	Gujarat	Jangadiya	Tributory of Khari	147.63	1985	2022	9.05	1.96	21.71	0.36
35	Gujarat	Jinkadi-2	Tributory of Local	2.59	1953	2022	0.39	0.18	46.67	1.02
36	Gujarat	Kabir Sarovar	Tributory of Chhaparwadi	90.655	1975	2022	6.49	0.01	0.17	0.00
37	Gujarat	Kaila	Tributory of Kaila	178	1955	2022	13.98	5.44	38.89	0.46
38	Gujarat	Kakdiamba	Wagti	24.22	1985	2020	7.87	1.92	24.42	2.27
39	Gujarat	Kalaghogha	Tributory of Phot	170.94	1987	2022	4.96	1.73	34.89	0.29
40	Gujarat	Kanazara	Tributory of Local Stream	46.62	1964	2022	2.94	0.94	32.07	0.35
41	Gujarat	Kankavati	Tributory of Kankavati	207.5	1956	2022	10.51	0.55	5.27	0.04
42	Gujarat	Karmal	Tributory of Karmal	167.57	1984	2022	12.70	0.22	1.76	0.04
43	Gujarat	Karnuki	Tributory of Karnuki	103.6	2004	2022	8.54	0.07	0.83	0.04
44	Gujarat	Kaswati	Tributory of Kaswati	66.56	1987	2022	8.20	0.94	11.51	0.41
45	Gujarat	Keliya	Kharera Tributary of River Kaveri	27.58	1984	2020	18.10	2.44	13.46	2.45
46	Gujarat	Khedoi	Tributory of Local	56.46	2003	2022	2.75	0.10	3.56	0.09
47	Gujarat	Khengar Sagar	Tributory of Bhukhi	151.51	1944	2022	9.60	2.57	26.72	0.22
48	Gujarat	Khodapipar	Tributory of Ghogham	53.07	1996	2022	2.99	0.01	0.33	0.01
49	Gujarat	Lakhigam	Dhakani Khadi	13.34	1982	2021	4.90	0.64	12.97	1.22
50	Gujarat	Ler	Tributory of Pat	14.5	1939	2022	2.21	1.27	57.24	1.05
51	Gujarat	Loriya	Tributory of Local Stream	9.6	1970	2022	0.57	0.27	47.89	0.54
52	Gujarat	Machhu-3	Tributory of Machchhu	2088.05	2015	2022	7.99	0.03	0.35	0.00
53	Gujarat	Madhuvanti	Madhuvanti	45.32	1973	1986	12.14	0.49	4.04	0.83
54	Gujarat	Malgadh	Tributory of Ghelo	32.24	1985	2022	2.65	0.25	9.45	0.21
55	Gujarat	Mamuara	Tributory of Local	7.68	1943	2022	0.74	0.37	50.34	0.61
56	Gujarat	Mathal	Tributory of Dhadodh	114	1985	2022	12.29	1.43	11.64	0.34
57	Gujarat	Motisar	Tributory of Motisar	34.32	1992	2022	2.58	0.05	2.09	0.05
58	Gujarat	Nyari-II	Tributory of Nyari	314	1986	2022	13.00	1.19	9.12	0.10
59	Gujarat	Phot	Tributory of Phot	18.13	1961	2022	2.30	0.18	7.90	0.16
60	Gujarat	Puna	Sasoi	137.27	1954	1986	13.99	4.15	29.66	0.94
61	Gujarat	Punadi	Tributory of Local	5.7	1959	2022	0.60	0.09	14.33	0.24
62	Gujarat	Rajki	Malan	88.06	1964	1986	12.02	2.79	23.21	1.44
63	Gujarat	Rami	Narmada	25	1983	1999	7.08	2.53	35.73	6.33

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64	Gujarat	Ratnal	Tributory of Local Stream	29.78	1981	2022	1.67	0.07	4.31	0.06
65	Gujarat	Sanandro	Tributory of Kail	147.57	1955	2022	10.34	0.48	4.63	0.05
66	Gujarat	Satapar Rata	Tributory of Local	56.98	1950	2022	3.07	0.25	8.08	0.06
67	Gujarat	Serai Mis	Tributory of Serai	56.32	1981	2022	3.82	0.25	6.44	0.11
68	Gujarat	Shaktisagar (Brahmani-Ii)	Tributory of Brahmani	850.81	2011	2022	19.80	0.50	2.50	0.05
69	Gujarat	Sodvadar	Utavali Tributory of Bhadar River	48.22	2001	2022	4.89	0.88	18.04	0.87
70	Gujarat	Surkhan	Tributory of Surkhan	58.27	1966	2022	4.02	0.57	14.18	0.17
71	Gujarat	Survo	Tributory of Survo	238.11	2000	2022	13.90	0.58	4.17	0.11
72	Gujarat	Suvi	Tributory of Suvi	160.52	1969	2022	14.28	5.43	38.04	0.64
73	Gujarat	Vadzar	Tributory of Local	6.34	1984	2022	0.83	0.74	88.92	3.06
74	Gujarat	Varshamedi	Tributory of Local	12.95	1942	2022	1.78	0.10	5.84	0.10
75	Gujarat	Vartu	Vartu	170.94	1964	1986	13.30	1.60	12.03	0.43
76	Gujarat	Veri	Tributory of Veri	178.42	1901	2022	10.88	3.14	28.86	0.15
77	Gujarat	Wadhovan Bhogavo	Wadhovan Bhogavo	435.1	1960	1986	18.15	2.67	14.71	0.24
78	Gujarat	Wankleshwar	Bed River (River that joins Panam tributary)	44.5	1978	2021	13.30	0.68	5.11	0.36
79	Gujarat	Zuran	Tributory of Zuran	14.77	1946	2022	0.93	0.49	52.37	0.43
80	Himachal Pradesh	ADHPL	Allain & Duhangan revulets	195.1	2010	2018	0.22	0.00	0.00	0.00
81	Himachal Pradesh	Baira	Baira	669	1980	2017	3.75	3.05	81.33	0.12
82	Himachal Pradesh	Chamera-II	Ravi	2593	2003	2018	2.25	0.57	25.33	0.01
83	Himachal Pradesh	Chamera-III	Ravi	2203	2012	2018	5.48	2.51	45.80	0.19
84	Himachal Pradesh	Parbati-III	Sainj	650	2014	2018	1.67	0.46	27.54	0.18
85	Kerala	Chulliar	Bharatpuzha	27.8	1966	2009	13.70	0.48	3.47	0.40
86	Kerala	Kallarkutty	Mudhirapuzzha	759.85	1962	1992	6.80	0.75	11.00	0.03
87	Kerala	Kundala	Palar	37.55	1948	1994	7.79	1.26	16.20	0.73
88	Kerala	Meenkara	Meenkara	90.65	1960	2009	11.33	1.48	13.10	0.33
89	Kerala	Poomala	Poomala	1.17	1968	2010	0.58	0.01	1.90	0.22
90	Kerala	Vazhani	Wadakkanchery	20.48	1959	2009	18.12	1.00	5.54	0.98
91	Kerala	Walayar Dam	Bharathapuzha	106.355	1956	2009	18.40	2.37	12.89	0.42
92	Madhya Pradesh	Sarthi	Vartu	197.57	1974	1986	10.69	3.38	31.62	1.43
93	Maharashtra	Khaspur	Sina	554.2	1954	1996	19.82	6.34	31.97	0.27
94	Maharashtra	Kolgaon	Hanga	55.74	1956	1988	2.87	1.37	47.87	0.77

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95	Maharashtra	Mukti	Motinala	88.6	1893	1991	9.68	2.81	29.03	0.32
96	Maharashtra	Powai	Local nala	6.61	1890	1996	5.45	1.06	19.45	1.51
97	Maharashtra	Bendsura	Bendsura	188.42	1955	1995	13.12	5.24	39.95	0.70
98	Maharashtra	Khairy	Kar nadi	207.8	1990	2023	15.11	2.70	17.87	0.39
99	Maharashtra	Khelna	Khelna	161.6	1964	1985	12.61	0.70	5.57	0.21
100	Manipur	Khoupum	Manchen Diu	18.88	1995	2020	2.78	0.05	1.98	0.12
101	Manipur	Singda	Singda	25.3	1995	2020	9.71	3.28	33.78	5.19
102	Punjab	Dholbaha Dam	Dholbaha Khad	56.14	1987	2021	11.38	1.87	16.43	0.98
103	Punjab	Jainti Dam	Soonk	7.1	2003	2021	2.87	0.67	23.16	5.20
104	Punjab	Janauri Dam	Janauri Khad	6.1	1986	2021	2.28	1.34	58.73	6.27
105	Punjab	Maili Dam	Maili Choe	17	1986	2021	4.81	2.35	48.86	3.95
106	Punjab	Mirzapur Dam	Budki	13.9	1996	2021	4.30	3.12	72.44	8.96
107	Punjab	Patiari Dam	Patiari	11.71	2002	2021	3.46	1.84	53.09	8.26
108	Punjab	Perch Dam	Perch Khad	5.6	1993	2021	1.25	1.16	92.50	7.37
109	Punjab	Saleran Dam	Saleran	7.2	1998	2021	7.55	2.90	38.44	17.51
110	Punjab	Siswan Dam	Siswan	15.2	1996	2021	4.80	1.90	39.53	4.99
111	Sikkim	Rangit-III	Rangit	979	2000	2018	1.79	1.10	61.45	0.06
112	Sikkim	Teesta-V	Teesta	4307	2008	2018	13.52	4.22	31.21	0.10
113	Tamil Nadu	Adavinainar	Hanumannathi	15.54	2003	2010	4.93	0.09	1.79	0.81
114	Tamil Nadu	Anaikuttam	Arjuna	795.265	1990	2014	3.60	0.34	9.52	0.02
115	Tamil Nadu	Anaimaduvu	Anaimaduvu	145.02	1993	2013	7.56	0.31	4.14	0.11
116	Tamil Nadu	Barur Tank	Pannaiyar	35.07	1919	1986	7.04	0.18	2.56	0.08
117	Tamil Nadu	Berijam	-	7.77	1911	1987	2.20	0.39	17.81	0.66
118	Tamil Nadu	Chittar-I	Chittar	22.01	1970	1997	17.28	2.85	16.49	4.80
119	Tamil Nadu	Gadana	Gadana	46.46	1971	2003	9.97	1.84	18.49	1.24
120	Tamil Nadu	Glennmorgan (Fb)	Glennmorgan Stream	12.43	1976	1998	5.85	2.30	39.32	8.41
121	Tamil Nadu	Glennmorgan (Kariappa)	Glennmorgan Stream	2.59	1930	2013	0.74	0.04	5.41	0.19
122	Tamil Nadu	Gomukhinathi	Gomukhi (Vellar)	292.67	1965	2002	15.86	2.91	18.37	0.27
123	Tamil Nadu	Gunderipallam	Gunderipallam	72.23	1979	2010	3.06	0.30	9.80	0.13
124	Tamil Nadu	Kodaganar	Kodaganar	1670	1977	2007	12.29	2.16	17.53	0.04
125	Tamil Nadu	Kundah	Kundah	113.96	1960	1982	1.76	1.11	63.07	0.44
126	Tamil Nadu	Kuthiraiyar	Kuthiraiyar	71.4	1990	2002	7.36	0.05	0.68	0.06
127	Tamil Nadu	Madhuranthagam	Killivaru	34.82	1798	2005	17.25	1.17	6.78	0.16
128	Tamil Nadu	Manjalar	Manjalar	119.139	1967	2009	13.76	4.31	31.34	0.86
129	Tamil Nadu	Manodai	Cauvery	21.42	1962	1986	2.47	0.16	6.57	0.32
130	Tamil Nadu	Maravakandy	Pykara	20.72	1947	2004	0.96	0.35	36.60	0.30
131	Tamil Nadu	Marudhanadhi	Marudhanathi	53.315	1979	2010	5.34	0.41	7.70	0.25
132	Tamil Nadu	Nagavathy	Nagavathy	105.357	1985	2012	4.65	0.48	10.25	0.17
133	Tamil Nadu	Pambar	Pambar	1736	1983	2013	7.93	0.39	4.92	0.01

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134	Tamil Nadu	Parappalar	Nangangi	72.88	1974	2003	5.61	1.59	28.27	0.75
135	Tamil Nadu	Parson' Valley	Kundah	14.5	1966	1995	19.25	8.25	42.86	19.62
136	Tamil Nadu	Pegumbahalla	Kundah	41.44	1966	1982	1.07	0.44	41.12	0.66
137	Tamil Nadu	Perumal Tank	Paravahar	504.59	1961	1998	17.77	2.78	15.65	0.15
138	Tamil Nadu	Perumpallam	Perumpallam Odai	44.53	1990	2012	3.28	0.13	4.09	0.14
139	Tamil Nadu	Pillavukkal Periyar	Periyar	36	1976	2013	5.44	0.26	4.86	0.20
140	Tamil Nadu	Ponnaniyar	Ponnaniyar	87.02	1974	1995	3.39	1.08	31.90	0.59
141	Tamil Nadu	Sathiyarar	Sathiyarar	95.71	1965	2010	1.59	0.46	28.81	0.11
142	Tamil Nadu	Thoppiyar	Thoppiyar	276.9	1987	2012	8.46	0.50	5.92	0.07
143	Tamil Nadu	Thunakadavu	Thunakadavu	43.36	1965	2013	15.76	2.61	16.56	1.25
144	Tamil Nadu	Uppar Dam	Uppar	903.56	1968	1995	16.20	6.91	42.63	0.28
145	Tamil Nadu	Vaniyar	Vaniyar	107.76	1983	2010	11.84	0.69	5.79	0.24
146	Tamil Nadu	Varattupallam	Varattupallam	66.82	1980	2010	3.94	0.28	7.11	0.14
147	Tamil Nadu	Vembakottai	Vaippar	1593.55	1989	2013	11.29	1.12	9.94	0.03
148	Tamil Nadu	Vidur	Varahanadi	1298	1959	2009	17.73	3.09	17.44	0.05
149	Tamil Nadu	Wallajah	Vellar	191.577	1923	1997	2.57	0.90	34.93	0.06
150	Telangana	Large Tank Bayyaram	Munneru	576	1962	2023	11.62	1.09	9.38	0.03
151	Telangana	Mathadivagu Project	Mathadivagu	236	2008	2022	16.17	2.88	17.79	0.87
152	Telangana	Ntr Sagar Project (Chelimela Vagu)	Chalamala Vagu	103	1998	2022	10.49	1.71	16.30	0.69
153	Telangana	Pocharam	Aliaru	673.4	1922	1978	16.85	3.78	22.45	0.10
154	Telangana	Ralivagu Project	Ralivagu	131.36	2016	2022	11.57	5.01	43.30	6.36
155	UT of Jammu & Kashmir	Dulhasti	Chenab	10500	2006	2017	12.98	0.59	4.55	0.01
156	UT of Jammu & Kashmir	Sewa-II	Sewa	341	2010	2018	7.05	1.14	16.17	0.42
157	UT of Jammu & Kashmir	Uri-I	Jhelum	12750	1997	2018	0.36	0.12	34.11	0.00
158	UT of Jammu & Kashmir	Uri-Ii	Jhelum	13400	2013	2018	6.34	2.01	31.74	0.03
159	UT of Laddakh	Chutak	Suru	3488	2012	2018	0.59	0.17	28.23	0.01
160	Uttrakhand	Dhauliganga	Dhauliganga	1360	2005	2018	6.20	2.80	45.16	0.16
161	Uttrakhand	Ichari	Tons	4913	1966	2003	11.55	5.46	47.27	0.03
162	Uttrakhand	Tanakpur	Sharda	15100	1992	2018	5.96	1.91	32.05	0.00
163	West Bengal	Buridumur Dam	Buridumur	3.23	1977	2021	0.19	0.01	5.15	0.07
164	West Bengal	Fuljore Dam	Fuljore	3.885	1976	2021	0.20	0.17	82.50	0.94
165	West Bengal	Kestobazar Dam	Kestobazar Nala	16.64	1969	2021	0.71	0.10	14.57	0.12
166	West Bengal	Kulbera Dam	Kulberia	20.48	1982	2021	0.80	0.77	96.36	0.96
167	West Bengal	Majra Dam	Majrajore	21.963	1982	2021	0.36	0.13	36.06	0.15
168	West Bengal	Tara Dam	Tara	27.52	1975	2021	0.95	0.19	19.47	0.15
169	West Bengal	TLDP-III	Teesta	7755	2013	2016	18.36	7.19	39.16	0.31

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170	West Bengal	Durgapur Barrage	Damodar	2295	1955	2011	11.85	5.41	45.68	0.04

Details of Sedimentation survey of 117 Reservoirs with Gross Capacity Less than or equal to 20 MCM used for analysis on Live Storage (Subset of 466 Reservoirs)

S. No.	State	Name of Reservoir	Name of River	Catchment Area in Sq.Km.	Year of Completion/ first impoundment	Year of last Survey	Initial Live Storage in MCM	Total Loss of Live Storage upto Last Survey	Percentage % loss of live storage upto Last Survey	Average Observed rate of siltation on basis of live storage (Th.Cu.m/ Sq.km./Yr)
1	Bihar	Kharagpur Lake	Mani	178.94	1876	2021	16.51	1.16	7.03	0.10
2	Chhattisgarh	Baherakhar	Kukurbahra	36.24	1981	2021	13.71	2.69	19.62	1.85
3	Chhattisgarh	Banki	Banki	37.12	1994	2021	17.07	0.93	5.48	0.93
4	Chhattisgarh	Kinkari	Kinkari Nalla	42.91	1982	2021	15.72	1.71	10.88	1.02
5	Gujarat	Bangavadi	Savadiyanal Tributory of Aji	96.5	1988	2022	5.95	0.01	0.15	0.00
6	Gujarat	Baukha	Tributory of Kaila	9.37	1976	2022	0.55	0.11	19.09	0.24
7	Gujarat	Berachiya	Tributory of Naira	160.06	1987	2022	5.53	0.24	4.36	0.04
8	Gujarat	Bhalot	Tributory of Local	7.51	1976	2022	0.36	0.18	49.17	0.51
9	Gujarat	Bhukhi	Tributory of Bhukhi	156.9	1983	2022	14.58	2.38	16.30	0.39
10	Gujarat	Chhaparwadi - II	Tributory of Chhaparvadi	375.43	1978	2022	16.76	1.75	10.41	0.11
11	Gujarat	Chopadvav	Doman	27.84	1985	2020	9.40	3.78	40.21	3.88
12	Gujarat	Chunadi	Tributory of Nag	6.73	1985	2022	0.34	0.16	46.04	0.63
13	Gujarat	Darsadi	Tributory of Local	8.29	1971	2022	0.56	0.11	20.36	0.27
14	Gujarat	Demi - III	Tributory of Demi	573.89	2001	2022	8.47	0.17	2.05	0.01
15	Gujarat	Dhaneti	Tributory of Local	36.03	1953	2022	2.51	0.62	24.74	0.25
16	Gujarat	Dhari	Tributory of Sukhbhadar	64.25	1972	2022	2.77	0.25	9.03	0.08
17	Gujarat	Dondi	Tributory of Dondi	52	2001	2022	2.92	0.50	16.95	0.45
18	Gujarat	Doswada	Mindhola	62.16	1913	2021	4.80	1.47	30.63	0.22
19	Gujarat	Faddangbeti	Tributory of Beti	106	1992	2022	5.37	0.09	1.77	0.03
20	Gujarat	Faradi	Tributory of Faradi	53.61	1964	2022	5.50	1.08	19.58	0.35

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21	Gujarat	Fatehgadh	Malan	103.6	1987	2021	6.63	2.64	39.80	0.75
22	Gujarat	Gajansar	Tributory of Naira	165.7	1967	2022	3.91	0.84	21.43	0.09
23	Gujarat	Gajod	Tributory of Nagmati	167.25	1955	2022	9.85	2.65	26.85	0.24
24	Gujarat	Ghelo Somnath	Ghelo Tributory of Ghelo	59.57	1964	2022	7.32	2.62	35.76	0.76
25	Gujarat	Ghodadhroi	Tributory of Ghodadhroi	145.55	1990	2022	6.24	0.12	1.88	0.03
26	Gujarat	Godhatad	Tributory of Mitiariwali	187.7	1978	2022	12.67	2.60	20.53	0.31
27	Gujarat	Ishwariya	Tributory of Saran	54.8	1983	2022	4.85	0.32	6.58	0.15
28	Gujarat	Jamara Mis	Tributory of Local	7.25	1950	2022	1.10	0.09	8.29	0.17
29	Gujarat	Jangadiya	Tributory of Khari	147.63	1985	2022	6.85	0.63	9.24	0.12
30	Gujarat	Jinkadi-2	Tributory of Local	2.59	1953	2022	0.39	0.19	47.44	1.04
31	Gujarat	Kabir Sarovar	Tributory of Chhaparwadi	90.655	1975	2022	6.21	0.44	7.02	0.10
32	Gujarat	Kaila	Tributory of Kaila	178	1955	2022	12.08	3.54	29.28	0.30
33	Gujarat	Kakdiamba	Wagti	24.22	1985	2020	7.22	1.29	17.88	1.52
34	Gujarat	Kalaghogha	Tributory of Phot	170.94	1987	2022	4.24	1.08	25.42	0.18
35	Gujarat	Kanazara	Tributory of Local Stream	46.62	1964	2022	2.05	0.17	8.10	0.06
36	Gujarat	Kankavati	Tributory of Kankavati	207.5	1956	2022	9.83	0.02	0.21	0.00
37	Gujarat	Karmal	Tributory of Karmal	167.57	1984	2022	10.30	0.27	2.59	0.04
38	Gujarat	Karnuki	Tributory of Karnuki	103.6	2004	2022	8.31	0.03	0.30	0.01
39	Gujarat	Kaswati	Tributory of Kaswati	66.56	1987	2022	7.96	0.84	10.60	0.36
40	Gujarat	Keliya	Kharera Tributary of River Kaveri	27.58	1984	2020	17.36	1.81	10.40	1.82
41	Gujarat	Khedoi	Tributory of Local	56.46	2003	2022	2.65	0.06	2.34	0.06
42	Gujarat	Khengar Sagar	Tributory of Bhukhi	151.51	1944	2022	8.41	1.51	17.93	0.13
43	Gujarat	Lakhigam	Dhakani Khadi	13.34	1982	2021	4.61	0.55	11.87	1.05
44	Gujarat	Ler	Tributory of Pat	14.5	1939	2022	1.63	0.69	42.02	0.57

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45	Gujarat	Loriya	Tributory of Local Stream	9.6	1970	2022	0.46	0.16	35.51	0.33
46	Gujarat	Ludawa	Tributory of Local	12.43	1984	2022	0.75	0.15	19.87	0.32
47	Gujarat	Machhu-3	Tributory of Machchhu	2088.05	2015	2022	6.46	0.01	0.19	0.00
48	Gujarat	Malgadh	Tributory of Ghelo	32.24	1985	2022	2.54	0.19	7.50	0.16
49	Gujarat	Mamuara	Tributory of Local	7.68	1943	2022	0.70	0.35	49.79	0.58
50	Gujarat	Mathal	Tributory of Dhadodh	114	1985	2022	11.19	0.71	6.32	0.17
51	Gujarat	Nyari-II	Tributory of Nyari	314	1986	2022	11.70	0.25	2.11	0.02
52	Gujarat	Phot	Tributory of Phot	18.13	1961	2022	2.02	0.17	8.55	0.16
53	Gujarat	Punadi	Tributory of Local	5.7	1959	2022	0.52	0.04	8.46	0.12
54	Gujarat	Ratnal	Tributory of Local Stream	29.78	1981	2022	1.32	0.02	1.21	0.01
55	Gujarat	Sanandro	Tributory of Kail	147.57	1955	2022	10.09	0.26	2.60	0.03
56	Gujarat	Satapar Rata	Tributory of Local	56.98	1950	2022	2.84	0.21	7.37	0.05
57	Gujarat	Serai Mis	Tributory of Serai	56.32	1981	2022	3.67	0.11	3.08	0.05
58	Gujarat	Shaktisagar (Brahmani-Ii)	Tributory of Brahmani	850.81	2011	2022	18.50	2.39	12.90	0.26
59	Gujarat	Sodvadar	Utavali Tributory of Bhadar River	48.22	2001	2022	4.63	0.76	16.32	0.75
60	Gujarat	Surkhan	Tributory of Surkhan	58.27	1966	2022	3.18	0.06	1.89	0.02
61	Gujarat	Survo	Tributory of Survo	238.11	2000	2022	13.67	0.71	5.17	0.13
62	Gujarat	Suvi	Tributory of Suvi	160.52	1969	2022	11.90	3.77	31.65	0.44
63	Gujarat	Vadzar	Tributory of Local	6.34	1984	2022	0.53	0.45	84.91	1.87
64	Gujarat	Varshamedi	Tributory of Local	12.95	1942	2022	1.76	0.08	4.77	0.08
65	Gujarat	Veri	Tributory of Veri	178.42	1901	2022	8.48	3.10	36.56	0.14
66	Gujarat	Wankleshwar	Bed River (River that joins Panam tributary)	44.5	1978	2021	11.69	0.55	4.72	0.29
67	Gujarat	Zuran	Tributory of Zuran	14.77	1946	2022	0.88	0.44	49.66	0.39
68	Gujarat	Rami	Narmada	25	1983	1999	6.61	2.12	32.00	5.29

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69	Himachal Pradesh	ADHPL	Allain & Duhangan revulets	195.1	2010	2018	0.22	0.04	19.00	0.03
70	Himachal Pradesh	Baira	Baira	669	1980	2017	2.48	1.88	75.81	0.08
71	Himachal Pradesh	Chamera-II	Ravi	2593	2003	2018	1.57	0.18	11.46	0.00
72	Himachal Pradesh	Chamera-III	Ravi	2203	2012	2018	3.64	0.76	20.88	0.06
73	Himachal Pradesh	Parbati-III	Sainj	650	2014	2018	1.28	0.30	23.44	0.12
74	UT of Jammu & Kashmir	Dulhasti	Chenab	10500	2006	2017	12.00	0.39	3.25	0.00
75	UT of Jammu & Kashmir	Sewa-II	Sewa	341	2010	2018	4.39	0.14	3.19	0.05
76	Kerala	Meenkara	Meenkara	90.65	1960	2009	10.33	1.08	10.43	0.24
77	Kerala	Walayar Dam	Bharathapuzha	106.355	1956	2009	15.19	0.74	4.88	0.13
78	Maharashtra	Khairy	Kar nadi	207.8	1990	2023	13.74	1.94	14.12	0.28
79	Punjab	Dholbaha Dam	Dholbaha Khad	56.14	1987	2021	10.36	1.22	11.77	0.64
80	Punjab	Jainti Dam	Soonk	7.1	2003	2021	2.62	0.47	17.93	3.67
81	Punjab	Janauri Dam	Janauri Khad	6.1	1986	2021	1.84	0.93	50.77	4.37
82	Punjab	Maili Dam	Maili Choe	17	1986	2021	4.13	1.70	41.04	2.85
83	Punjab	Mirzapur Dam	Budki	13.9	1996	2021	3.15	1.97	62.38	5.65
84	Punjab	Patiari Dam	Patiari	11.71	2002	2021	3.29	1.67	50.70	7.50
85	Punjab	Perch Dam	Perch Khad	5.6	1993	2021	0.57	0.47	83.52	3.03
86	Punjab	Saleran Dam	Saleran	7.2	1998	2021	7.52	2.88	38.25	17.37
87	Punjab	Siswan Dam	Siswan	15.2	1996	2021	3.43	0.53	15.38	1.39
88	Sikkim	Rangit-III	Rangit	979	2000	2018	1.17	0.50	42.74	0.03
89	Sikkim	Teesta-V	Teesta	4307	2008	2018	6.28	0.71	11.31	0.02
90	Tamil Nadu	Adavinainar	Hanumannathi	15.54	2003	2010	4.93	0.09	1.79	0.81
91	Tamil Nadu	Anaikuttam	Arjuna	795.265	1990	2014	3.45	0.19	5.59	0.01
92	Tamil Nadu	Berijam	-	7.77	1911	1987	2.20	0.39	17.81	0.66

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93	Tamil Nadu	Gadana	Gadana	46.46	1971	2003	9.97	1.84	18.49	1.24
94	Tamil Nadu	Glennmorgan (Fb)	Glennmorgan Stream	12.43	1976	1998	5.85	2.30	39.32	8.41
95	Tamil Nadu	Glennmorgan (Kariappa)	Glennmorgan Stream	2.59	1930	2013	0.74	0.04	5.41	0.19
96	Tamil Nadu	Kodaganar	Kodaganar	1670	1977	2007	12.29	2.16	17.53	0.04
97	Tamil Nadu	Kundah	Kundah	113.96	1960	1982	1.56	0.91	58.33	0.36
98	Tamil Nadu	Manjalar	Manjalar	119.139	1967	2009	13.76	4.31	31.34	0.86
99	Tamil Nadu	Maravakandy	Pykara	20.72	1947	2004	0.82	0.21	26.03	0.18
100	Tamil Nadu	Marudhanadhi	Marudhanathi	53.315	1979	2010	5.11	0.19	3.62	0.11
101	Tamil Nadu	Parappalar	Nangangi	72.88	1974	2003	5.61	1.59	28.27	0.75
102	Tamil Nadu	Parson' Valley	Kundah	14.5	1966	1995	17.19	6.19	36.01	14.72
103	Tamil Nadu	Pegumbahalla	Kundah	41.44	1966	1982	1.03	0.40	38.83	0.60
104	Tamil Nadu	Pillavukkal Periyar	Periyar	36	1976	2013	5.44	0.26	4.86	0.20
105	Tamil Nadu	Ponnaniyar	Ponnaniyar	87.02	1974	1995	3.39	1.08	31.90	0.59
106	Tamil Nadu	Sathiyarar	Sathiyarar	95.71	1965	2010	1.33	0.21	15.37	0.05
107	Tamil Nadu	Vembakottai	Vaippar	1593.55	1989	2013	11.28	1.11	9.82	0.03
108	Telangana	Large Tank Bayyaram	Munneru	576	1962	2023	11.24	0.73	6.49	0.02
109	Telangana	Mathadivagu Project	Mathadivagu	236	2008	2022	14.32	1.86	13.01	0.56
110	Telangana	Ntr Sagar Project (Chelimela Vagu)	Chalamala Vagu	103	1998	2022	8.76	0.63	7.20	0.26
111	Telangana	Ralivagu Project	Ralivagu	131.36	2016	2022	10.81	4.35	40.23	5.52
112	Uttrakhand	Dhauliganga	Dhauliganga	1360	2005	2018	3.20	0.87	27.19	0.05
113	Uttrakhand	Ichari	Tons	4913	1966	2003	11.55	5.46	47.27	0.03
114	West Bengal	Kestobazar Dam	Kestobazar Nala	16.64	1969	2021	0.62	0.02	3.24	0.02
115	West Bengal	Tara Dam	Tara	27.52	1975	2021	0.53	0.05	10.00	0.04
116	West Bengal	TLDP-III	Teesta	7755	2013	2016	6.80	0.37	5.44	0.02

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117	West Bengal	Durgapur Barrage	Damodar	2295	1955	2011	6.10	2.16	35.43	0.02

Details of Sedimentation survey of 103 Reservoirs with Designed rate of Siltation (Subset of 548 Reservoirs)

S. No.	State	Name of Reservoir	Name of River	Catchment Area in Sq.Km.	Year of Completion/first impoundment	Year of Survey	DESIGNED Reservior Gros Capacity MCM	LOSS of Gross Storage Capacity MCM	Percentage % loss of Gross storage	Average Observed rate of siltation (Th.Cu.m/ Sq.km./Yr)	Designed Rate of Siltation (Th.Cu.m/ Sq.km./Yr	Ratio of actual rate of sedimentation to the design rate of sedimentation
1	Andhra Pradesh	Srisailam Reservoir	Krishna	60350	1976	2021	8,723	2,891.38	33.15	1.06	0.08	13.48
2	Arunanchal Pradesh	Ranganadi	Ranganadi (Panior)	1,894.00	2002	2017	21	15.80	74.25	0.56	0.82	0.68
3	Bihar	Badua	Badua	480.70	1965	2006	129	15.81	12.23	0.80	0.36	2.25
4	Chhattisgarh	Minimata Bango	Hasdeo	6730.000	1990	2021	3,416	196.18	5.74	0.94	0.55	1.71
5	Chhattisgarh	Ravi Shankar Sagar Dam	Mahanadi	3670	1979	2021	909	83.43	9.17	0.54	0.39	1.39
6	Gujarat	Bhadar(P)	Bhadar	407.00	1983	2009	47	15.77	33.76	1.49	0.36	4.17
7	Gujarat	Bhimdad	Madhu	109.82	1953	1986	11	4.50	40.21	1.24	0.14	8.68
8	Gujarat	Brahmani-1	Brahmani	699.3	1953	2021	75	1.37	1.83	0.03	0.72	0.04
9	Gujarat	Chopadvav	Doman	27.84	1985	2020	10	4.53	44.63	4.65	0.36	13.02
10	Gujarat	Damanganga_Madhuban	Damanganga.	1813	1983	2020	567	45.45	8.02	0.68	0.56	1.21
11	Gujarat	Dantiwada	Banas	2862	1965	2020	464	75.32	16.22	0.48	0.36	1.33
12	Gujarat	Dev	Deo	259.000	1986	2021	84	22.65	26.94	2.50	0.33	7.50
13	Gujarat	Dharoi	Sabarmati	5540	1976	2020	908	88.37	9.73	0.36	0.36	1.02
14	Gujarat	Dhatarwadi	Dhatarwadi	429.94	1975	1986	33	5.93	18.12	1.25	0.19	6.60
15	Gujarat	Ghelo-I	Ghelo	103.60	1963	1986	13	3.35	25.09	1.41	0.38	3.75
16	Gujarat	Godhatad	Tributory of Mitiariwali	187.7	1978	2022	14	3.69	26.42	0.45	0.90	0.50
17	Gujarat	Goma	Goma	155.40	1972	1986	18	2.35	12.87	1.08	0.15	7.11
18	Gujarat	Hadaf	Hadaf	507.640	1986	2021	32	4.83	14.97	0.27	0.34	0.81
19	Gujarat	Hathmati	Hathmati	595	1971	2020	161	12.56	7.78	0.43	0.24	1.81

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20	Gujarat	Hiran-I	Hiran	80.91	1966	1987	22	1.43	6.61	0.84	0.84	1.01
21	Gujarat	Hiran-II	Hiran	168.00	1981	1998	39	3.43	8.89	1.20	0.19	6.29
22	Gujarat	Kadana	Mahi	25,486.00	1977	2000	1,543	293.74	19.04	0.50	0.13	3.85
23	Gujarat	Kaila	Tributory of Kaila	178	1955	2022	14	5.44	38.89	0.46	0.24	1.92
24	Gujarat	Kankavati	Tributory of Kankavati	207.5	1956	2022	11	0.55	5.27	0.04	0.19	0.21
25	Gujarat	Karjan	Karjan	1403.78	1984	2021	630	48.60	7.71	0.94	0.48	1.97
26	Gujarat	Khodiyar	Shetrunji	383.00	1962	2021	40	9.55	23.65	0.42	0.07	5.95
27	Gujarat	Machhannala	Machhan	244.910	1982	2021	38	4.80	12.66	0.50	0.34	1.50
28	Gujarat	Machhu-1	Machhu	730.00	1959	2021	83	1.35	1.63	0.03	0.74	0.04
29	Gujarat	Machhu-2	Machhu	1193.47	1972	2021	101	8.74	8.67	0.15	0.48	0.31
30	Gujarat	Madhuvanti	Madhuvanti	45.32	1973	1986	12	0.49	4.04	0.83	0.83	1.00
31	Gujarat	Mazam	Mazam	407.8	1984	2021	44	4.12	9.39	0.27	0.36	0.76
32	Gujarat	Meshwo	Meshwo	259	1968	2021	82	9.75	11.88	0.71	0.09	8.29
33	Gujarat	Moj	Tributory of Moj	440.3	1995	2022	37	0.25	0.70	0.02	0.34	0.06
34	Gujarat	Mukteshwar	Saraswati	305.62	1990	2021	41	9.82	23.94	1.04	0.36	2.90
35	Gujarat	Panam	Panam	2314.000	1977	2021	736	75.00	10.19	0.74	0.36	2.07
36	Gujarat	Rajki	Malan	88.06	1964	1986	12	2.79	23.21	1.44	0.20	7.39
37	Gujarat	Rami	Narmada	25.00	1983	1999	7	2.53	35.73	6.33	0.19	33.29
38	Gujarat	Ranghola	Rangholi	370.37	1952	1986	45	7.84	17.61	0.62	0.14	4.35
39	Gujarat	Rudramata	Khari	383.17	1970	2021	65	4.82	7.44	0.25	0.19	1.30
40	Gujarat	Sanandro	Tributory of Kail	147.57	1955	2022	10	0.48	4.63	0.05	0.24	0.20

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41	Gujarat	Sasoi	Sasoi	562.03	1954	2009	51	13.03	25.55	0.42	0.17	2.42
42	Gujarat	Shetrunji	Shetrunji	4,317.00	1959	2008	415	81.22	19.55	0.38	0.48	0.81
43	Gujarat	Sipu	Banas	122.00	1992	2007	178	16.37	9.21	8.95	0.72	12.42
44	Gujarat	Sukhi	Sukhi	411.810	1987	2021	178	3.23	1.81	0.23	0.48	0.49
45	Gujarat	Suvi	Tributory of Suvi	160.52	1969	2022	14	5.43	38.04	0.64	0.24	2.68
46	Gujarat	Ukai	Tapi	62,225.00	1972	2003	8,510	1,095.71	12.88	0.57	0.15	3.81
47	Gujarat	Vartu	Vartu	170.94	1964	1986	13	1.60	12.03	0.43	0.19	2.19
48	Gujarat	Venu - II	Tributory of Venu	781.68	1988	2022	23	6.06	26.84	0.23	0.48	0.48
49	Gujarat	Ver_2-Amli	Ver	90.00	1984	2020	38	6.42	16.77	1.98	0.20	9.91
50	Gujarat	Wadhovan Bhogavo-II	Wadhovan Bhogavo	569.77	1959	1986	23	2.97	12.71	0.19	0.76	0.25
51	Gujarat	Watrak	Watrak	1114	1984	2021	176	7.71	4.38	0.19	0.20	0.92
52	Himachal Pradesh	Bhakra	Sutlej	56,880.00	1963	2022	9,868	2,509.27	25.43	0.75	33.61	0.02
53	Himachal Pradesh	Chamera-I	Ravi	4,725.00	1994	2018	391	196.20	50.14	1.73	1.50	1.15
54	Himachal Pradesh	Parbati-III	Sainj	650.00	2014	2018	2	0.46	27.54	0.18	0.85	0.21
55	Himachal Pradesh	Pong	Indus	12,562.00	1974	2018	8,579	1,068.88	12.46	1.93	2.01	0.96
56	Jharkhand	Getalsud	Subarnrekha	717	1971	2022	292	31.86	10.92	0.87	0.78	1.12
57	Jharkhand	Konar	Damodar	842.000	1955	2020	281	94.15	33.46	1.72	0.62	2.78
58	Jharkhand	Maithon	Barakar	6293.000	1955	2019	814	294.35	36.17	0.73	0.91	0.81
59	Jharkhand	Panchet Hill Dam	Damodar	10878.000	1956	2020	489	210.28	43.05	0.30	0.67	0.45
60	Jharkhand	Tenughat	Damodar	4480.67	1978	2022	1,014	44.24	4.36	0.22	0.47	0.47
61	Jharkhand	Tilaiya	Barakar	984.000	1953	2019	336	184.57	55.01	2.84	0.76	3.74

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62	Jharkhand & West Bengal	Massanjore Dam	Mayurakshi	1859.6	1954	2022	608	51.98	8.55	0.41	0.38	1.10
63	Karnataka	Almatti	Krishna	35,925.00	2001	2007	3,486	150.34	4.31	0.70	0.48	1.47
64	Karnataka	Basavasagara Reservoir	Krishna	47850	1982	2022	1,072	298.73	27.88	0.16	0.02	8.48
65	Karnataka	Ghataprabha (Hidkal)	Ghatraprabha	1,411.55	1974	2000	1,434	115.52	8.06	3.15	0.41	7.77
66	Karnataka	Krishnaraja Sagar	Cauvery	10,620.00	1932	2009	1,400	93.91	6.71	0.11	0.71	0.16
67	Karnataka	Malaprabha	Malaprabha	2,176.00	1981	1991	1,240	78.58	6.34	3.61	0.43	8.36
68	Karnataka	Tungabhadra	Tungabhadra	28,180.00	1953	2008	3,751	895.28	23.87	0.58	0.43	1.35
69	Madhya Pradesh	Gandhi Sagar Dam	Chambal	23025	1960	2024	7,746	846.20	10.92	0.57	0.41	1.42
70	Maharashtra	Girna	Girna	4,727.30	1969	2010	608	42.88	7.05	0.22	0.18	1.23
71	Maharashtra	Khaspur	Sina	554.20	1954	1996	20	6.34	31.97	0.27	0.12	2.27
72	Maharashtra	Kolgaon	Hanga	55.74	1956	1988	3	1.37	47.87	0.77	0.11	6.76
73	Maharashtra	Mangi	Kanola	304.00	1955	1995	34	3.44	10.15	0.28	0.05	5.65
74	Maharashtra	Mhaswad	Man	1,243.20	1888	1990	87	45.24	52.04	0.36	0.18	2.03
75	Maharashtra	Mukti	Motinala	88.60	1893	1991	10	2.81	29.03	0.32	0.01	46.23
76	Maharashtra	Nalganga	Nalganga	315.98	1963	1985	76	4.34	5.69	0.62	0.19	3.28
77	Maharashtra	Nazare	Karha	397.82	1975	1986	22	7.68	34.43	1.76	0.24	7.38
78	Maharashtra	Asolamendha	Pathari	246.00	1918	1994	93	29.97	32.24	1.60	1.60	1.000
79	Maharashtra	Bendsura	Bendsura	188.42	1955	1995	13	5.24	39.95	0.70	0.30	2.30
80	Maharashtra	Ekrukh	Adhella Nalla	411.81	1871	2023	94	31.78	33.70	0.51	0.15	3.30
81	Maharashtra	Gangapur	Godavari	357.40	1965	1997	213	48.89	23.01	4.27	0.34	12.76
82	Maharashtra	Khelna	Khelna	161.60	1964	1985	13	0.70	5.57	0.21	0.13	1.64

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83	Maharashtra	Manar	Manar	1,585.08	1969	1999	138	18.73	13.54	0.39	0.17	2.36
84	Maharashtra	Ramsagar	Sur	212.35	1914	1987	117	14.78	12.61	0.95	0.21	4.63
85	Maharashtra	Upper Wardha	Wardha	4,196.190	1993	2023	803	88.13	10.98	0.70	0.64	1.09
86	Maharashtra	Visapur	Hanga	328	1927	2023	38	4.94	13.13	0.16	0.36	0.44
87	Maharashtra	Yeldari	Puma	7,329.70	1968	2011	934	134.34	14.38	0.43	0.36	1.19
88	Meghalaya	Umiam	Umiam	220.00	1965	2004	180	20.55	11.43	2.40	1.78	1.35
89	Odisha	Balimela	Sileru	2953	1972	2023	3,611	476.53	13.20	3.16	10.46	0.30
90	Odisha	Hirakud Dam	Mahanadi	83400	1957	2024	8,144	2,202.28	27.04	0.39	0.25	1.58
91	Sikkim	Teesta-V	Teesta	4307	2008	2018	14	4.22	31.21	0.10	1.39	0.07
92	Telangana	Nagarjuna Sagar	Krishna	2,15,185.00	1967	2009	11,553	2,716.96	23.52	0.30	0.22	1.40
93	Telangana	Nizamsagar	Manjara	21,694.00	1930	1992	841	508.66	60.47	0.38	0.24	1.59
94	Telangana	Sri Ram Sagar Project	Godavari	51212	1970	2022	3,172	892.44	28.14	0.34	0.36	0.94
95	UT of Jammu & Kashmir	Dulhasti	Chenab	10500	2006	2017	13	0.59	4.55	0.01	2.24	0.00
96	UT of Jammu & Kashmir	Sewa-II	Sewa	341	2010	2018	7	1.14	16.17	0.42	0.69	0.61
97	UT of Jammu & Kashmir	Uri-I	Jhelum	12750	1997	2018	0	0.12	34.11	0.00	0.16	0.00
98	UT of Jammu & Kashmir	Uri-Ii	Jhelum	13400	2013	2018	6	2.01	31.74	0.03	0.32	0.09
99	UT of Laddakh	Chutak	Suru	3488	2012	2018	1	0.17	28.23	0.01	0.57	0.01
100	UT of Laddakh	Nimoo Bazgo	Indus	58880	2013	2016	53	19.12	36.20	0.11	0.12	0.88
101	Uttar Pradesh	Matatila	Betwa	4403	1956	2023	986	306.94	31.14	1.14	0.13	8.59
102	Uttar Pradesh	Dhukwan	Betwa	21,340.00	1907	1980	106	47.42	44.55	0.03	0.04	0.72
103	Uttrakhand	Ramganga	Ramganga	3134.00	1974	2023	2,448	145.67	5.95	0.95	0.43	2.23

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