



GOVERNMENT OF INDIA



COMPENDIUM ON SEDIMENTATION OF RESERVOIRS IN INDIA 2020

**WATERSHED & RESERVOIR SEDIMENTATION
DIRECTORATE
ENVIRONMENT MANAGEMENT ORGANISATION
WATER PLANNING AND PROJECTS WING
CENTRAL WATER COMMISSION**

Compendium on Sedimentation of Reservoirs in India

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FOREWORD



Dams/reservoirs have played significant role in development of the country. Dams are instrumental in generation of electricity, provide water for irrigation for farmers, supply water to households and industries.

However, sedimentation has impacted the storage capacity of the reservoirs, thus affecting their performance and reducing their benefits. De-silting of reservoirs is an expensive task and the extracted silt has environmental impacts also. In-depth knowledge of rate of sedimentation, 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.

In April 2015, Watershed and Reservoir Sedimentation (WS&RS) Directorate, CWC published 3rd edition of compendium on silting of reservoirs in the country incorporating information about 243 important reservoirs. Since then, information has become available for more number of reservoirs necessitating the publication of revised compendium.

I take profound pleasure in presenting this 4th edition of Compendium on sedimentation of reservoirs in the country. The present compendium has been prepared by incorporating information of 369 reservoirs. The data of Sedimentation survey using Remote Sensing Technique has been incorporated for the first time in the compendium.

I appreciate the efforts of Shri Alok Paul Kalsi, Director and other officers/staff of WS&RS Directorate for bringing out this updated compendium. I would also like to compliment Shri S. K. Halder, Member (WP&P) and Shri Amrendra Kumar Singh, Chief Engineer (EMO) for their valuable guidance. I also express my sincere thanks to various Project Authorities of State Governments and other institutes for providing the valuable data. I hope that this publication will be useful in planning of dams/reservoirs in future as well as better management of existing ones.

A handwritten signature in blue ink, appearing to read 'Rajendra', with a stylized flourish at the end.

(Rajendra Kumar Jain)
Chairman, CWC

PREFACE



Management of water resources in India is of paramount importance to sustain one billion plus population of the country. Water management is a composite area with linkage to various sectors of Indian economy including the agricultural, industrial, domestic and household, power, environment, fisheries and transportation sector. Realizing the need of effective and economical management of our water resources, an effective database has to be developed and updated at regular intervals to facilitate the performance overview of the sector.

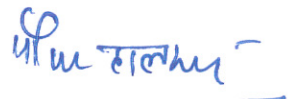
A river, in fact, can be considered a body of flowing sediments as much as one of flowing water. When a river is stilled behind a dam, the sediments it contains sink to the bottom of the reservoir causing sedimentation in reservoirs and hence the dam gradually loses its ability to store intended amount of water. Every reservoir loses storage to sedimentation although the rate at which this happens varies widely. Capacity surveys of various reservoirs at regular intervals are considered necessary to evaluate the balance life as well for optimal reservoir operation. The data obtained are useful to arrive at a realistic sedimentation index for planning of future projects.

Earlier a compendium on silting of reservoirs was published by Central Water Commission in April, 2015 containing sedimentation data on 243 reservoirs. This updated compendium contains data on 369 reservoirs as provided by the project authorities including data of 36 reservoirs survey using Hydrographic survey and 120 Reservoirs surveyed using Remote Sensing Technique by CWC. Some data like design rate of sedimentation, catchment area, different reservoir levels, impoundment year and initial capacities etc. of earlier reservoirs also have been updated as per information provided by the project authorities.

The WP&P Wing, Central Water Commission expresses thank to all authorities of State Governments and other institutes for supplying data on capacity survey of reservoirs. I express my sincere thanks to Shri Rajendra Kumar Jain Chairman, CWC for his valuable suggestions and guidance. I complement Shri Amrendra Kumar Singh, Chief Engineer, EMO and officers & staff of WS&RS Directorate for their efforts in bringing out this publication.

This publication is an effort to provide useful information to administrators and planners in the water management sector.

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



(S.K. Haldar)
Member (WP&P), CWC

OFFICERS AND STAFF ASSOCIATED WITH THE PREPATION OF COMPENDIUM

- Shri. Amrendra Kumar Singh, Chief Engineer
Environmental Management Organisation, CWC
- Shri. Rishi Srivastava, Director
Remote Sensing Directorate, CWC
- Shri. Anuj Kanwal, Director
Monitoring & Punasa Directorate, CWC, Bhopal (Formar Director, WS&RS Dte)
- Shri. Alok Paul Kalsi, Director
Watershed & Reservoir Sedimentation Directorate, CWC
- Shri Harendra Singh, Deputy Director
Watershed & Reservoir Sedimentation Directorate, CWC
- Shri Sudhanshu Mahalwal, Deputy Director
Watershed & Reservoir Sedimentation Directorate, CWC
- Shri Sunny Yadav, Assistant Director
Watershed & Reservoir Sedimentation Directorate, CWC
- Shri Vinod Kumar Gupta, Assistant Director
Watershed & Reservoir Sedimentation Directorate, CWC
- Remote Sensing Directorate, CWC
- National Water Informatics Center (NWIC), Ministry of Jal Shakti

Disclaimer

The data contained in this publication is as received from the State Government / Authorities concerned. No warranty as to the accuracy, usefulness, or completeness is expressed or implied. The sole purpose of the compendium is to provide basic information or about sedimentation data of dam to any interested party. It is in no way intended for the purpose other than mentioned above. The information given in compendium is not binding on any party and does not confer rights or restrictions to any party. CWC would be ever willing to rectify erroneous information if any, brought to its notice.

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GLOSSARY

Live storage: This is the storage available for the intended purpose between full supply level and the invert level of the lowest discharge outlet. The Full Supply Level is normally that level above which over spill to waste would take place. The minimum operating level must be sufficiently above the lowest discharge outlet to avoid vortex formation and air entrainment. This may also be termed as the volume of water actually available at any time between the Dead Storage Level and the lower of the actual water level and Full Reservoir Level.

Dead storage: It is the total storage below the invert level of the lowest discharge outlet from the reservoir. It may be available to contain sedimentation, provided the sediment does not adversely affect the lowest discharge.

Minimum Drawdown Level (MDDL): It is the level below which the reservoir will not be drawn down so as to maintain a minimum head required in power projects.

Full Reservoir Level (FRL): It is the level corresponding to the storage which includes both inactive and active storages and also the flood storage, if provided for. In fact, this is the highest reservoir level that can be maintained without spillway discharge or without passing water downstream through sluice ways.

Bed Load: Bed load refers to the sediment which is in almost continuous contact with the bed, carried forward by rolling, sliding or hopping.

Suspended Load: Suspended load refers to that part of the total sediment transport which is maintained in suspension by turbulence in the flowing water for considerable periods of time without contact with the stream bed. It moves with practically the same velocity as that of the flowing water

Wash Load: wash load consists of fine particles, which do not exist on the bed of the reach under consideration, which remain in suspension throughout the reach.

Dredging: Dredging removes deposited sediment from the bottom of reservoirs using pumps, hydraulic suction, or clamshell buckets

Watershed: A watershed describes an area of land that contains a common set of streams and rivers that all drain into a single larger body of water, such as a larger river, a lake or an ocean.

Sedimentology: It encompasses the study of modern sediments such as sand, silt, and clay, and the processes that result in their formation (erosion and weathering), transport, deposition and diagenesis.

ABBREVIATIONS

Cu.Km.	Cubic Kilometre
Th.Cu.m.	Thousand cubic metre
M.Cu.m	Million Cubic metre
Ha .m.	Hectare metre
Sq .km.	Square kilometre
mm	Millimetre
Cm	Centimetre
m	Metre
Yr.	Year
N.A.	Not Available
ND	Not Defined
HS	Hydrographic Survey
RS	Remote Sensing Survey
C.A.	Catchment Area
F.R.L.	Full Reservoir Level
GPS	Global Positioning System
MDDL	Maximum Drawdown Level
WRIS	Water Resource Information System
NRLD	National Register of Large Dams
SRS	Satellite Remote Sensing

Compendium of Sedimentation of Reservoirs in India

1. SEDIMENTATION IN RESERVOIRS

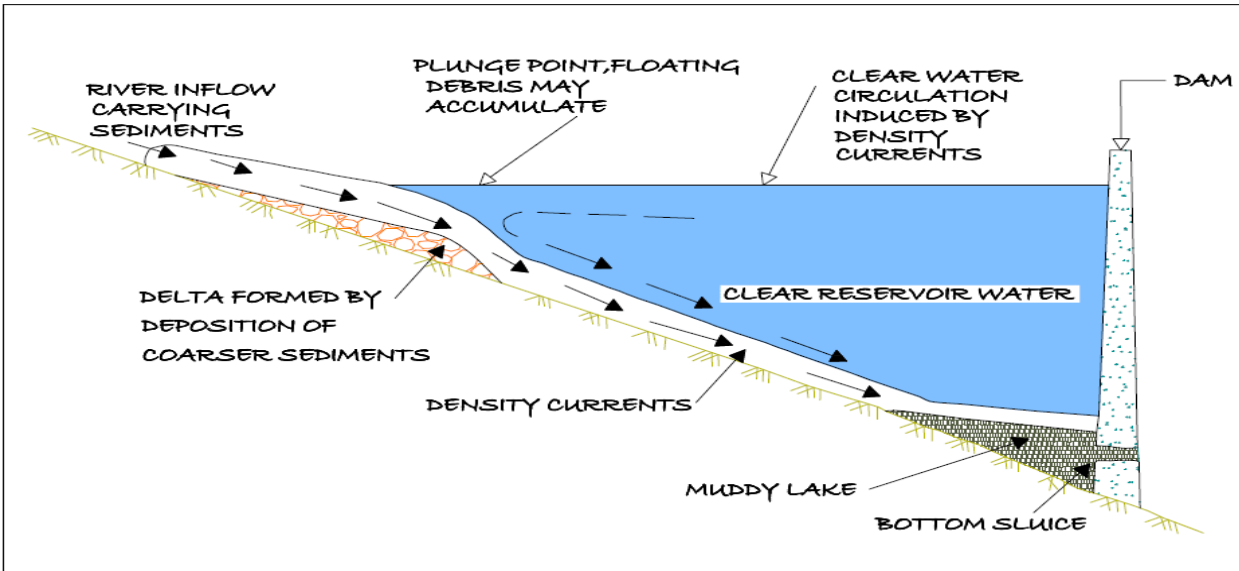
Sedimentation is a process whereby soil particles are eroded and transported by flowing water or other transporting media and deposited as layers of solid particles in water bodies such as reservoirs and rivers. It is a complex process that varies with various factors such as watershed sediment yield,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

1.1 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.

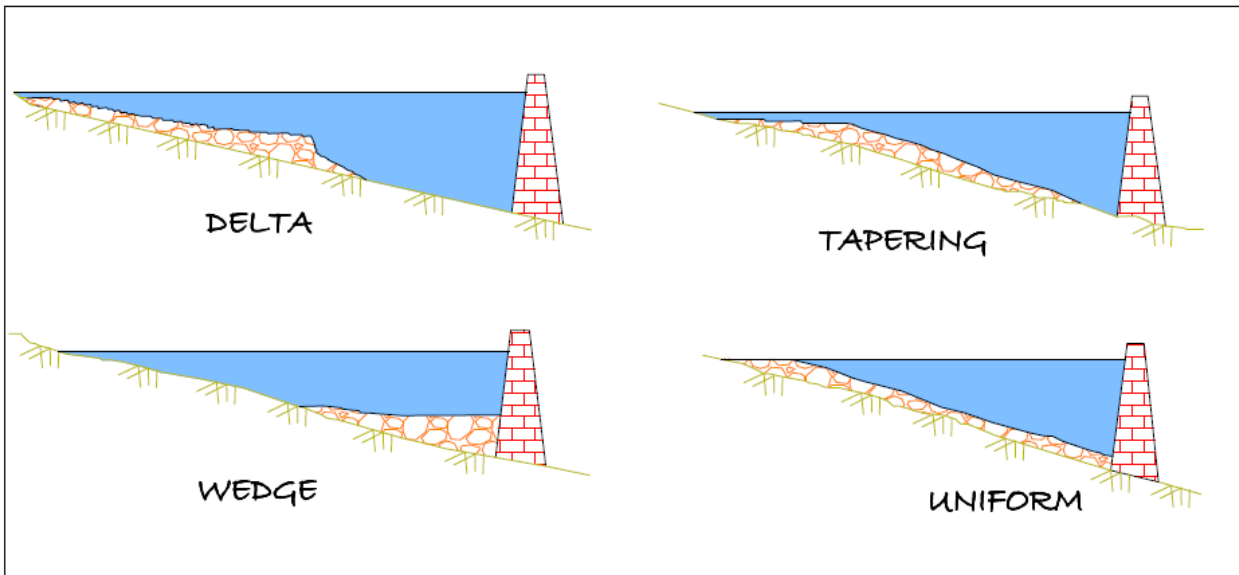
Reservoirs created by dams on rivers lose their storage capacity due to sedimentation. As water enters a reservoir, its velocity diminishes because of the increased cross-sectional area of the channel. If the water stored in the reservoir is clear and the inflow is muddy, the two fluids have different 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.

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:



Conceptual sketch of density currents in a reservoir

Image Source: NPTEL



Longitudinal Patterns of sediment deposition in reservoirs

Image Source: NPTEL

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 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 function 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.

1.2 SEDIMENTATION IMPACT ON RESERVOIRS

High rates of sedimentation in many reservoirs and better care of long term sustainability have emphasized the importance of reservoir sedimentation. 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 reported over US\$13 billion, excluding other environmental and social costs.

1.3 SEDIMENTATION MANAGEMENT IN RESERVOIRS

In order to increase the useful life of a reservoir it is necessary to control the deposition of sediment in the reservoir. The various methods which may be adopted to control the deposition of sediment in a reservoir may be divided into the following two groups:

1.3.1 PRE-CONSTRUCTION METHODS

Pre- construction methods are those methods which may be adopted before and during the construction of a dam and creation of a reservoir.

These methods are as indicated below:

(A)SELECTION OF RESERVOIR SITE

The reservoir sedimentation can be controlled by selecting such a site for the reservoir where the sediment inflow is low. Thus if alternative sites for a reservoir are available then a site which excludes runoff from an easily erodible part of the catchment area should be preferred to the one which includes this runoff. Similarly if tributary of a main river carries more sediment, then the site for a reservoir on the main river should be on the upstream of the confluence of this tributary and the main river, in order to exclude the water from this tributary entering the reservoir

(B)RESERVOIR DESIGN

A reservoir of small capacity on a river having large inflow rate, the rate of sedimentation is less than that for a reservoir of a large capacity on the same river. Thus the rate of sedimentation of a reservoir may be controlled by designing the reservoir in such a way that instead of providing the entire designed capacity at the first instance the capacity of the reservoir may be increased in stages.

For this initially a reservoir of small capacity may be created by constructing the dam upto a certain lower height. Later on when a portion of the reservoir gets silted up its capacity may be increased by raising the dam to the desired height. However, in this case some provision will have to be made in the design of the dam so that it may be raised in stages.

Further an adequate number of outlets may be provided in the dam at different elevations, so that the flood water which is usually heavily sediment- laden may be discharged to the downstream without much of the sediment being deposited in the reservoir.

(C) CONTROL OF SEDIMENT INFLOW

The inflow of sediment to a reservoir can be controlled by constructing check dams and by providing vegetation screens.

A check dam is a small dam usually constructed across a stream to trap most of the coarser sediment transported by the stream. Thus inflow of sediment can be controlled by constructing check dams across those tributaries which might be carrying relatively more sediment. The check dams may also be constructed across gullies to retain some sediment and prevent it from entering the stream.

Vegetation screens may be developed by promoting the growth of vegetation in the catchment as well as at the entrance to the reservoir. The vegetation screens would trap a large amount of sediment if flood waters pass through them before entering the reservoir and hence help in reducing the sediment inflow.

1.3.2 POST-CONSTRUCTION METHODS

Post-construction methods are those methods which may be adopted after the construction of a dam and creation of a reservoir.

These methods are as indicated below:

(A) CONTROL OF SEDIMENT DEPOSITION

The deposition of sediment in a reservoir can be controlled to some extent by designing and operating the outlets in a dam in such a manner that the water having higher sediment content is discharged to the downstream through the outlets.

The sediment content of water in the reservoir is relatively high during and immediately after flood and if most of the water can be discharged to the downstream at such times, the amount of sediment trapped in the reservoir will be reduced. Moreover the concentration of sediment is more at some levels and if water can be withdrawn from these levels through the outlets provided there the deposition of sediment in the reservoir will be reduced.

(B) REMOVAL OF SEDIMENT DEPOSITS

The sediment already deposited in a reservoir may be removed either by excavation, dredging, etc., or by scouring through sluices in the dam. The removal of the deposited sediment by excavation, dredging, etc., is however not feasible in most of the cases except in the case of some very small reservoirs. There are certain limitations in the use of sluices for removing the deposited sediment.

For scouring the deposited sediment the sluices are to be provided near the bottom of the dam which involves a lot of structural problem and hence except for some small dams such sluices are usually not provided. Moreover for scouring of the deposited sediment through sluices considerable amount of water is lost.

Further it is also found that the sluices are not much effective in the removal of the deposited sediment because the water flowing through the sluice scoops out a narrow channel for itself on the upstream side of the sluice and leaves the bulk of the deposited sediment undisturbed.

However, to some extent the scouring action may be made more effective if simultaneously with scouring the deposited sediment is loosened and pushed towards the sluices by mechanical means. The sluices are therefore generally used for allowing the flood waters to escape to the downstream with minimum detention in the reservoir so that much deposition of sediment does not take place.

(C) EROSION CONTROL IN THE CATCHMENT AREA

The control of erosion in the catchment area will reduce the inflow of sediment to the stream and consequently there will be less inflow of sediment to a reservoir created on the stream. The erosion in the catchment area may be controlled by the use of the methods of soil conservation within the area.

The various methods of soil conservation are afforestation, control of deforestation, regressing and control of grazing, control on terrace cultivation and provision of contour bunds, checking gully formation by providing small embankments, providing check dams in the gullies formed, etc. These methods of soil conservation are quite effective in the control of sedimentation of reservoirs but are costly and would show appreciable results only after considerable time.

2. MEASUREMENT OF SEDIMENTS

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

- i) Stream flow analysis and
- ii) Capacity survey

2.1 STREAM FLOW ANALYSIS

Stream flow analysis is a continuous observation process consisting of measurement of inflows and outflows water in streams, rivers, and other channels, with sediment sampling. Apart from the measurements, accuracy of analysis is also vital for the proper estimation of unit-mass of the deposited material from the point of view of volumetric conversion.

In this method, the sediment inflow into the reservoir including estimated bed load and the outflow there from is measured at all significant points of entry and exit. The difference gives the quantity of deposit during the period of analysis. The point of measurement should be sufficiently close to the reservoir periphery and particular care must be taken to complete outflow sampling before it meets the credible channel downstream.

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 of the deposited sediment material. A direct method of doing this is by collecting systematic samples of the deposit in an undisturbed state from all over the reservoir bed and finding out a correlation between the average dry unit mass and the fractional composition of different grains such as clay, silt and sand.

2.2 CAPACITY SURVEY

Capacity surveys of reservoirs are carried out for determination of the volume of silt deposited, its distribution, sedimentation rates, and updating the capacity tables or elevation-area-capacity curves. The normal frequency of the surveys is supposed to be around five year's interval.

2.2.1 CONVENTIONAL METHOD

Regular monitoring and updating of elevation capacity curve of the reservoir immensely helps in better water management. With this aim, conventional hydrographic surveys are conducted at regular intervals at the existing reservoirs to determine the available capacities at different elevations, and to help compute the sedimentation volume at such regular intervals. Such conventional surveys will require computation of water spread area at different water levels. The conventional method of conducting sedimentation surveys in the reservoirs involves the use of conventional equipments e.g. theodolite, plane table, sextant, range finders, sounding rods, echo-sounder and slow moving boat etc. The depths of the reservoirs are recorded with the help of echo. 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.

The surveys conducted by conventional methods are time consuming and sometimes, they take up to three years to complete just one survey of a major reservoir (like Hirakud). Even the accuracy of the survey cannot be ascertained in realistic terms.

2.2.2 MODERN TECHNIQUES

2.2.2.1 HITECH SYSTEM

The system consists of the following components:

- i) Positioning System : This includes GPS Unit in differential mode
- ii) Depth Measuring Units : This consists of Echo-sounder and Transducers
- iii) Computer System: This includes Plotter, Printer, Disc Drive, Monitor etc.

Robotic Boat Survey

The Robotic Boat 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 X, Y and Z values at required interval/grid. The Autonomous Surveying Boat floats in water according to predefined path, getting the coordinates from GPS Sensor and direction is controlled by using Magnetometer Sensor. It stores its data on SD card as a text file for later readings.

DGPS fitted hydrographic surveying allows faster data acquisition with better accuracy than any previous hydrographic survey technique. The work require: Setting up base station on every day of survey and setting up the control points to achieve accuracy and the ability to efficiently collect large amount of data.

2.2.3 REMOTE SENSING

Remote Sensing is the art and science of collecting information about earth's feature without being in physical contact with it. The data from satellites such as LANDSAT, SPOT and IRS are useful for mapping and monitoring the surface water bodies and other land resources based on which better water management strategies can be planned.

Reservoir sedimentation surveys are essentially based on mapping of water-spread area at the time of satellite overpass. Water spread area is the water level contour at that level. Using different contours, capacity between them is calculated.

In the third meeting of National Natural Resources Management Systems- Standing Committee Water Resources held in June, 2000, appreciating the gravity of sedimentation problems and urgent need to tackle them, Government of India constituted a Working Group for National Action Plan for Reservoir Sedimentation Assessment using Satellite Remote Sensing under the Chairmanship of Member (WP&P), Central Water Commission, with its members drawn from various water resources organizations and from Department of Space. The recommendations of the Working Group have emerged as a result of discussions held during its three meetings and deliberations in the brainstorming sessions.

Working Group recommended for laying emphasis and high importance to carrying out reservoir sedimentation surveys in the country. While using remote sensing technique for the sedimentation survey, composite method coupling both the hydrographic technique (below MDDL) and SRS technique needs to be adopted since the latter does not cover the area of reservoir below MDDL. The periodicity of the composite reservoir sedimentation survey can be set as 10 years. It has to be complemented by mid-term survey by Satellite Remote Sensing technique every 5 years. In case of high silting reservoirs, the frequency of mid-term survey can be kept as 3 years.

3. PLANNING FOR SEDIMENTATION OF RESERVOIRS

3.1 Life of Reservoir

The problem of sedimentation of reservoirs and its effect on the useful life of reservoir is complex. The phenomenon of sedimentation and the concept of life of a reservoir and its estimation have been studied in depth over many years.

The term 'life of reservoir' as loosely used denotes the period during which whole or a specified fraction of its total or active capacity is lost. In calculating this life, the progressive changes in trap efficiency towards the end of the period are commonly not considered. Strictly speaking reservoirs do not have a defined 'life' which denotes two functional states 'ON' and OFF. They belong to one of those systems which show gradual degradation of performance without any sudden non-functional stage. Sedimentation and consequent reduction of capacity is a gradual process, which can be classified in following phases:

- Phase-1: The reservoir shows no adverse effect and is able to deliver full planned benefits.
- Phase-II: The reservoir delivers progressively smaller benefits, but its continued operation for the reduced benefits is economically beneficial.
- Phase-III: The sedimentation causes difficulties in operation such as jamming the passage of flow in channels or flow in canals or through turbines.
- Phase-IV: The phase-III difficulties become so serious that the operation becomes impossible.
- Phase-IV A: The benefits reduce to such an extent that it is not longer beneficial to operate the reservoir.

In the existing concept, the end of the Phase-I is depicted as the 'Full-service Time' and the end of Phase-II is called the 'Feasible Service Time'. The beginning of phase-IV will depict the end of physical life. Similarly beginning of phase-IV (A) will depict the end of economic life. However, there are no instances of Phase-IV or IV (A) having been reached amongst the modern projects. Planning of sedimentation includes prefixing the required period of full service period and feasible service period including the sediment levels and capacities to meet these targets.

3.2 Distribution of Sediments in the Reservoir

Initially, the above mentioned life related concepts were vague, as the life of reservoir had been estimated differently from project to project with different assumptions. This is due to the fact that clear knowledge and data regarding the inflow of sediment into the reservoir, its distribution and the consolidation and density aspects of sediment etc. were not available in earlier periods. For instance, it was frequently assumed that all the sediment would first be deposited in the dead storage zone and would then only encroach on the live storage zone. Under this assumption the period taken for the hypothetical total sedimentation of the dead storage was considered as the life. Such an assumption has been made in most of the projects planned up to the mid sixties.

Thus, it can be taken as the normal practice of the earlier period. This assumption was proved wrong by sediment surveys of several reservoirs in the country, conducted since late fifties.

In earlier periods, the life of certain reservoirs like Krishnarajsagara and Hirakud has been worked out by the deltaic theory enunciated by Col. Ellis of Madras PWD which assumed silting up of reservoirs in three stages i.e., **i)** Forming the silt up to sill of sluices **ii)** Intermediate stage is the formation of channel by river flow **iii)** Slow deposit of silt thereafter. For computing the quantity of silt deposited, it had been assumed that the silt deposit in area is proportional to the water standing or flowing over the area.

In case of Bhakra Reservoir, silt load was estimated by suspended silt measurement and its distribution was done assuming that all the coarse silt would be deposited in head reach of reservoir, forming delta below the full reservoir level encroaching on the live storage and that the delta would gradually progress towards the dam.

3.3 Sedimentation Planning Practices

Dr. A.N. Khosla, the then Chairman, Central Water Commission, had reviewed the work of reservoir sedimentation in fifties based on data available for 200 reservoirs all over the world including U.S.A., China and Africa and developed enveloping curves for annual sedimentation rate for major and minor catchments above and below 1000 sq. miles (2600 sq. kms) respectively. He concluded that the sediment rate for major catchments varies from 0.357 to

0.476 mm./year (3.57 to 4.76 Ha.m./100sq.km./yr.) and for minor catchments from 0.38 to 1.28 mm./year (3.80 to 12.80Ha.m./100sq.km./yr.). Up to 1965, these recommendations were adopted in the design of reservoirs and the sediment was assumed to get deposited at the lowest level and “life” was taken as the period required for complete sedimentation of the dead storage.

The assumption that sediment would settle within the dead storage was not supported by the experience in India or other countries. The experience of USA that sedimentation takes place throughout the reservoir and the development of methods for sediment distribution were published around early fifties. It was also realized that the sediment inflow rates need to be checked up through reservoir re-surveys. Hence re-surveys in a number of projects were taken up through research schemes of CBIP. The results, indicating a considerable difference from the initial assumption, started becoming available by 1965.

After 1965, CWC started insisting that the sediment inflow rates be based on the basis of reservoir survey data. It also brought out the need for distributing the sediment throughout the reservoir. Although the earlier practices also continued, at least the more important major projects had to adopt this new approach. However, no guidance was given until then about which stage of sedimentation should be used for the working table studies.

Around 1974, CWC decided that the 50 year sedimentation position of the reservoir should be used in the simulation or working table studies for the project. Also by this time, the observed suspended sediment data from the key hydrologic network of CWC had become available in considerable volume. CWC therefore, started insisting on the use of this measured sediment transport data also to firm up the assumption of the inflow rates of sediment, in addition to the reservoir resurvey information.

In 1980, the report of the working group on the guidelines for the preparation of detailed project report of major and medium irrigation projects was published. In this report, CWC had incorporated the above mentioned practices to make this mandatory on the state government. Also in this report the detailing of the sediment studies was linked with the expected seriousness of the sediment problem. For very serious cases, redistribution and re-estimation of trap efficiency in 10 year block was indicated.

In 1987, CWC got this practice incorporated in the BIS Code 12182 (1987) “Guidelines for determination of Effects of Sedimentation in Planning and Performance of Reservoirs” to make this the national practice. In these guidelines the general philosophy and concept of multiple life related terms was also spelt out. Also these guidelines indicate that the full service time for hydroelectric projects can be reduced to 25 years against 50 years for irrigation projects. These BIS guidelines also include notes on the need for periodic resurveys and given guidance to determine their frequency.

The present practice as incorporated in BIS: 12182(1987) has following main features:

1. The sedimentation rate is to be decided on the basis of observations of river sediment flow and reservoir surveys
2. Methodologies for trap efficiency and sediment distribution have been specified.
3. The live storage is to be so planned that the benefits do not reduce for a period of 50 years (full service time) for irrigation or 25 years for hydropower on account of sedimentation.

4. The feasible service time for irrigation projects shall not be less than 100 years after start of operation. For hydropower projects the feasible service time should not be less than 70 years.
5. For simulation, if sedimentation is not serious, the simulation studies for conditions expected at the end of the full service period may be made. If the problem is serious, studies are to be done by more realistic method. It should be sufficient to consider sediment trapped in every 10 years block, and to use the expected sedimental elevation area capacity curve at the end of each 10 year block for simulation of that block.

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. Under this scheme 28 major reservoirs have been surveyed.

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 thirty six (36) reservoirs in the country till date.

The details of such surveys in respect of 369 reservoirs of the country have been compiled and analyzed by Watershed and Reservoir Sedimentation Directorate of Central Water Commission list of which is given at **Appendix I**. An abstract showing the average rate of sedimentation, percentage loss of storage and other useful information is given at **Appendix II**.

A list of reservoirs whose Hydrographic Survey (HS) data is used for analysis purpose in the compendium is given at **Appendix-III** and list of reservoirs whose Remote Sensing Survey (RS) data is used for analysis is given at **Appendix-IV**. The list of reservoirs which have served more than 50 years of their useful life and those which have lost more than 25 percent of their gross storage is given at **Appendix-V** and **Appendix-VI** respectively. Region wise list of all reservoirs is given at **Appendix-VII**.

5.0 FINDINGS FROM THE HYDROGRAPHIC CAPACITY SURVEYS

Reservoir Capacity data for 369 reservoirs have been included in Appendix I. Out of these 369 reservoirs, 272 reservoirs have hydrographic survey details available. Of these 272 reservoirs, there has been an increase in capacity for 5 reservoirs and for 2 reservoirs there has been no change in the Gross Storage. Hence, annual percentage loss of gross capacity of reservoirs has been calculated based on the data of 265 reservoirs. Out of 272 reservoirs, both designed rate of siltation and actual rate of sedimentation is available for 105 reservoirs.

5.1 Observed Rate of Sedimentation

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 105 reservoirs with known design rate of sedimentation is given in Table 1:

Table 1: 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
Less than 1	23
1-2	24
2-3	15
3-4	11
4-5	7
Greater than 5	25

5.2 Estimation of Loss of Storage in Reservoirs

Out of 265 reservoirs, Catchment Area of kadamba Tank (TN) is not available; hence it is not included in the calculation of sedimentation rate. Based on the sedimentation rate of 264 reservoirs, the computed average annual percentage loss in gross storage due to siltation is 0.95% and based on the sedimentation rates of 141 reservoirs and 126 reservoirs*, the average annual percentage loss in dead and live storage is 2.39 % and 0.67% respectively.

(* reservoirs for which the values for annual percentage loss in live/dead storage are negative have not been considered)

The observed annual percentage loss in gross storage (minimum, maximum and average) is given in Table 2. The annual percentage loss in gross storage has been worked out as the average based on the data of 264 reservoirs i.e. total annual loss in gross storage of 264 reservoirs X 100/ total gross storage of 264 reservoirs.

Table- 2: Annual percentage loss of gross, live and dead storage capacity of reservoirs

S.No.	Description	Minimum	Maximum	Average	Remarks
1	Annual percentage loss of gross storage	0.03	21.03	0.95	Based on average data of 264 reservoirs
2	Annual percentage loss of dead storage	0.01	26.49	2.39	Based on average data of 141 reservoirs
3	Annual percentage loss of live storage	0.01	5.86	0.67	Based on average data of 126 reservoirs

The reduction in annual loss of gross storage capacity in 264 reservoirs is given in Table 3:

Table 3: Annual percentage Loss of annual gross capacity in 264 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%	16	55
0.1% to 0.5%	131	41
0.51% to 1.0%	65	37
More than 1.0	52	19

The pictorial representation of Annual Percentage Loss Gross Storage is given at **Figure 1**

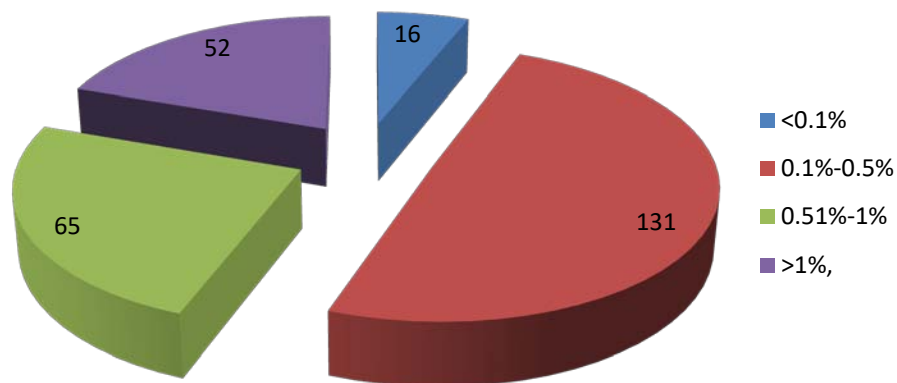


Figure 1: Annual percentage loss of Gross Storage capacity of 264 reservoirs

The pictorial representation of Percentage Loss in Gross Storage Capacity is given at **Figure 2**

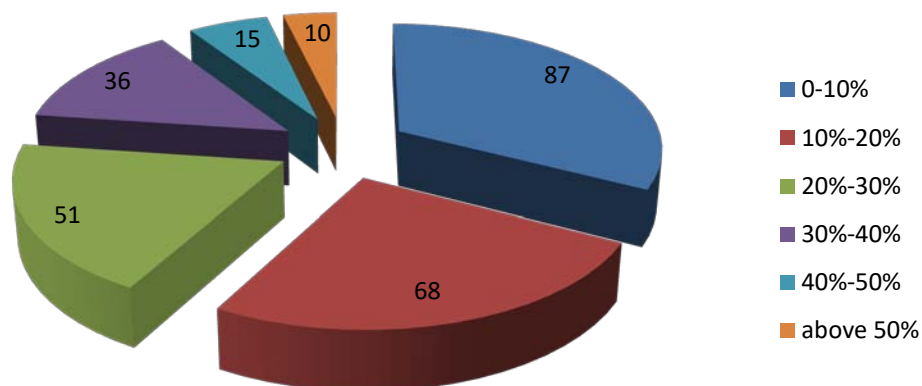


Figure 2: Percentage loss in Gross Storage Capacity of 264 reservoirs

Table 4: List of reservoirs with percentage loss in Gross capacity more than 50 percent

S.No	Reservoir	State	River	Designed Gross Storage (in MCM)	Surveyed Gross Storage (in MCM)	Percentage loss
1	Chamera-I	Himachal Pradesh	Ravi	391.3	195.1	50.14
2	Mhaswad	Maharashtra	Man	86.94	41.7	52.04
3	Karapuzha Dam	Kerala	Karapuzha	76.5	34.71	54.63
4	Sanandro	Gujarat	Kali	12.28	5.24	57.33
5	Nizamsagar	Telangana	Manjira	841.18	332.52	60.47
6	Rangit-III	Sikkim	Rangit	1.79	0.69	61.45
7	Kundah	Tamil Nadu	Kundah	1.76	0.65	63.07
8	Ranganadi	Arnachal Pradesh	Ranganadi	21.28	5.48	74.25
9	Baira	Himachal Pradesh	Baira	3.75	0.7	81.33
10	Salal	Jammu & Kashmir	Chenab	285	12.43	95.64

5.3 Region-wise Sedimentation Rates

Out of 264 reservoirs, catchment area was not available for Kadamba reservoir. Therefore, sedimentation rate is worked out for 263 reservoirs. The analysis of capacity survey data of 263 reservoirs shows a wide variation in sedimentation rate of reservoirs. The sedimentation rate is affected by multiple factors like hydrometeorology, physiographic and climate etc. Considering these factors, **the whole country has been classified into 7 regions (Plate-1)**. Region wise distribution of 263 reservoirs has been shown in **Plate 2-8**. The region-wise sedimentation rates in reservoirs are given in Table 5. The region-wise list of 263 reservoirs whose capacity survey data has been compiled is given at **Appendix VII**. Region wise distribution of 272 reservoirs is shown pictorially in **Figure 3**.

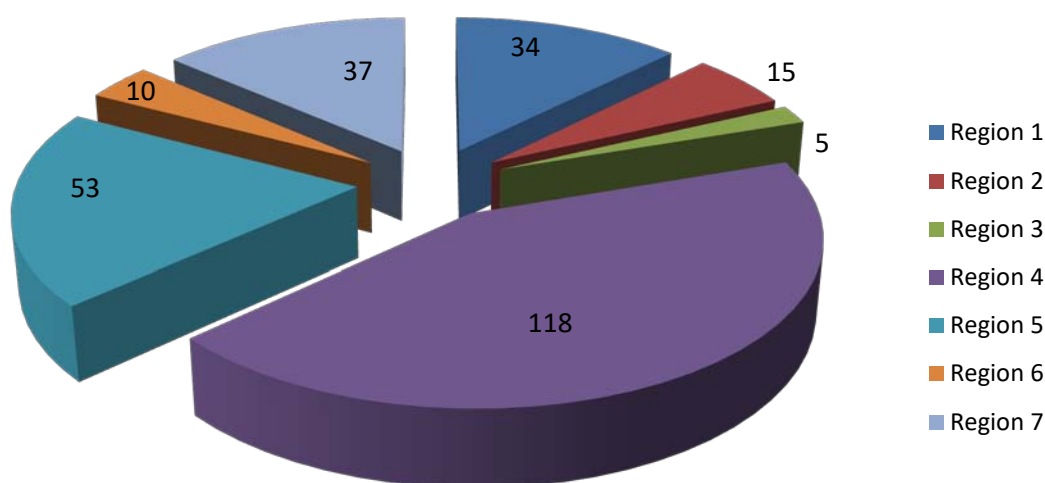


Figure 3: Region wise Distribution of 272 reservoirs (Hydrographically Surveyed)

Table 5: Average and Median values for Rate of Sedimentation of Reservoirs (Region wise)

Region No.	Region	Reference of Plate Number	No. of reservoirs	Average rate of siltation	Median values of rate of siltation
				Th.cu.m./sq.km/yr	Th.cu.m./sq.km/yr
1	Himalayan Region (Indus, Ganga and Brahmaputra basins)	II	31	1.22	0.42
2	Indo Gangetic Plains	III	15	0.95	0.72
3	East flowing rivers upto Godavari (Excluding Ganga)	IV	5	0.76	0.68
4	Deccan Peninsular east flowing rivers including Godavari and south Indian rivers	V	114	2.27	0.44
5	West flowing rivers upto Narmada	VI	53	1.12	0.86
6.	Narmada and Tapi Basins	VII	10	2.84	0.65
7.	West flowing rivers beyond Tapi and south Indian rivers	VIII	35	3.07	2.07
	All regions		263	1.96	0.716

It is observed that the arithmetic mean values given above are badly affected by the extreme values. In region No. 7, if the mean is worked out without bifurcating into two sub regions, the mean for 35 reservoirs will be 3.07 and this value is not representative for most of the reservoirs in the region. Similar is the case with other region, but with less variation. Hence median values (which divide the value into two parts, one part comprising all values greater and the other all values less than the median) have been worked out and given in Table No 5, which appears to be more representative.

A tabular representation of the finding of the region wise analysis of 272 reservoirs is given below in table no. 6:

Table 6: Region wise analysis of 272 reservoirs using Hydrographic Survey

S.No	Number of Reservoirs	Region No.	Gross Storage (BCM)	Gross Storage Surveyed (BCM)	Loss In Gross Storage (BCM)	Annual Loss In Gross Storage (BCM)	% Loss in Gross Storage	% Annual Loss In Gross Storage	Avg. Observed Rate of Siltation (Th.CU.M/Y R/Sq. KM)	Median (Th.CU.M/YR/Sq. KM)
1	34	1	27.15	22.88	4.27	4.05	32.7	3.58	1.22	0.41
2	15	2	28.95	24.98	3.97	6.29	21.2	0.46	0.95	0.72
3	5	3	17.23	14.15	3.08	17.76	11.66	0.36	0.76	0.68
4	118	4	69.15	57	12.15	3.08	19.25	0.61	2.33	0.44
5	53	5	6.4	5.28	1.12	0.76	19.36	0.82	1.12	0.86
6	10	6	10.15	8.88	1.27	4.09	18.63	0.86	2.84	0.65
7	37	7	11.63	10.78	0.85	0.73	15.27	0.41	3.07	2.07

6.0 FINDINGS FROM THE REMOTE SENSING CAPACITY SURVEYS

Reservoir Capacity data for 369 reservoirs have been included in Appendix I. Out of these 369 reservoirs, 97 reservoirs have been surveyed through remote sensing technique.

Remote sensing directorate of CWC has carried 130 studies of 120 reservoirs. Out of these 120 reservoirs 61 reservoirs have also been surveyed through hydrographic survey, so 59 reservoirs have been surveyed only through remote sensing have been included. Further, data of 38 reservoirs have been provided by the respective State Govts totaling to 97 reservoirs.

Out of these 97 reservoirs, there has been an increase in capacity for 11 reservoirs. Hence, annual percentage loss of live capacity of reservoirs has been calculated based on the data of 86 reservoirs.

6.1 Estimation of Loss of Live Storage in Reservoirs (SRS)

Based on the data of 86 reservoirs, the computed average annual percentage loss in live storage due to siltation is 0.73%.

Out of 86 reservoirs, Year of Survey of Nesa reservoir (Orrisa) has not been provided by the State Govt, hence it is not included in the calculation of Annual loss in Live Storage.

The annual loss in live storage (minimum, maximum and average) is given in Table 7. The annual loss in live storage has been worked out as the average based on the data of 86 reservoirs.

Table- 7: Annual percentage loss of live storage capacity of reservoirs (SRS Based)

S.No.	Description	Minimum	Maximum	Average	Remarks
1	Percentage loss of live storage (In MCM)	0.2	70.15	16.76	Based on average data of 86 reservoirs
2	Annual loss of live storage (In MCM)	0.01	54.46	1.86	Based on average data of 86 reservoirs
3	Annual Percentage loss of live storage	0.03	11.69	0.73	Based on average data of 85 reservoirs

The reduction in annual loss of live storage capacity in 85 reservoirs is given in Table 8:

Table 8: Loss of annual live capacity in 85 reservoirs

Range of annual Live 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%	7	70
0.1% to 0.5%	41	42
0.51% to 1.0%	15	26
More than 1.0	22	21

The pictorial representation of Annual Percentage loss of Live Storage capacity is given at **Figure 4** and the pictorial representation of Percentage Loss in Live Storage Capacity is given at **Figure 5**

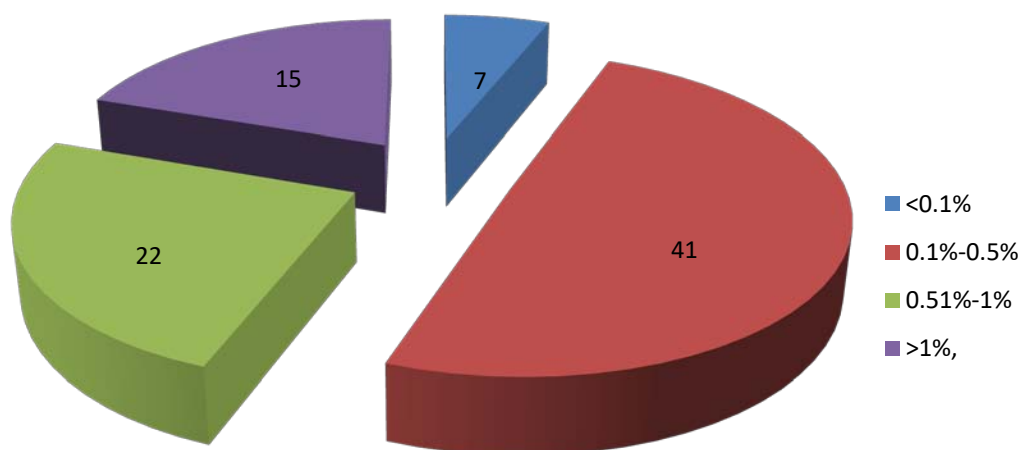


Figure 4: Annual Percentage loss of Live Storage capacity of 85 reservoirs

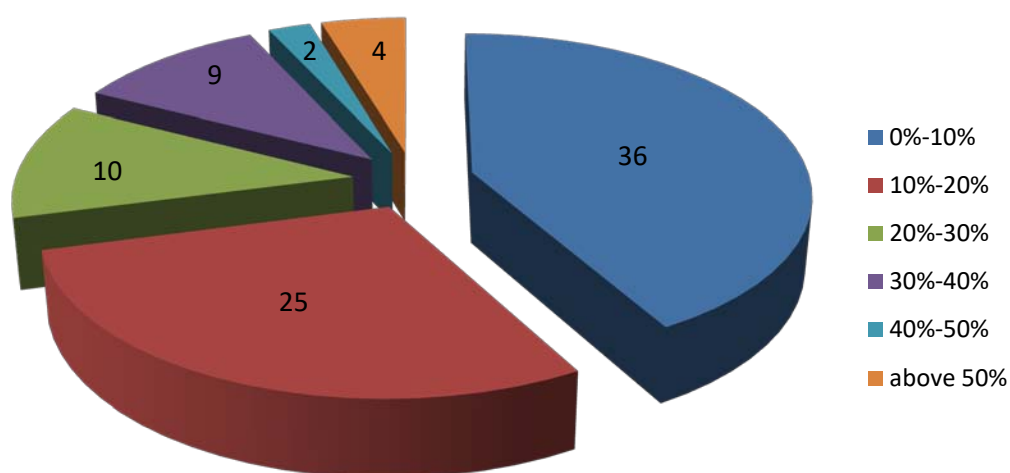


Figure 5: Percentage loss of Live Capacity of 86 reservoirs.

Table 9: List of reservoirs with percentage loss in Live Storage capacity more than 50%

S.No	Reservoir	State	River	Designed Live Storage (in MCM)	Surveyed Live Storage (in MCM)	Percentage loss
1	Chandan	Bihar	Chandan	124.58	59.50	52.24
2	Hatnur	Maharashta	Tapi	255.00	103.50	59.41
3	Vamsadhara st-I	Andhra Pradesh	Vamsadhara	18.74	7.23	61.43
4	Dara	Maharashta	Tapi	13.45	4.02	70.15

6.2 Region-wise Sedimentation Rates (Based on loss in Live capacity)

Out of 86 reservoirs, catchment area was not available for Matoba reservoir and year of survey is not provided by the State Govt. for Nesa reservoir. Therefore, sedimentation rate is worked out for 84 reservoirs. The analysis of capacity survey data of 84 reservoirs shows a wide variation in sedimentation rate of reservoirs. The sedimentation rate is affected by multiple factors like hydrometeorology, physiographic and climate etc. Considering these factors, **the whole country has been classified into 7 regions (Plate-1)**. Region wise distribution of 97 reservoirs has been shown in **Plate 2-8**. The region-wise sedimentation rates in reservoirs are given in Table 10. The region-wise list of 85 reservoirs whose capacity survey data has been compiled is given at **Appendix VII**. Region wise distribution of 97 reservoirs is shown pictorially in **Figure 6**.

Table 10: Average Rate of Sedimentation of Reservoirs (SRS Based)*

Region No.	Region	Reference of Plate Number	No. of reservoirs	Average rate of siltation*	Median values of rate of siltation*
				Th.cu.m./sq.km/yr	Th.cu.m./sq.km/yr
1	Himalayan Region (Indus, Ganga and Brahmaputra basins)	II	2	0.504	0.504
2	Indo Gangetic Plains	III	11	0.78	0.4
3	East flowing rivers upto Godavari (Excluding Ganga)	IV	11	1.638	0.730
4	Deccan Peninsular east flowing rivers including Godavari and south Indian rivers	V	43	4.48	0.719
5	West flowing rivers upto Narmada	VI	2	0.66	0.66
6.	Narmada and Tapi Basins	VII	10	5.607	1.079
7.	West flowing rivers beyond Tapi and south Indian rivers	VIII	5	17.53	3.94
	All regions		84	4.46	0.711

* Average rate of sedimentation of reservoir (SRS Based) is calculated using loss in live storage only thus it does not represent true value of sedimentation

It is observed that the arithmetic mean values given above are badly affected by the extreme values. Hence median values (*which divide the value into two parts, one part comprising all values greater and the other all values less than the median*) have been worked out and given in Table No 10, which appears to be more representative.

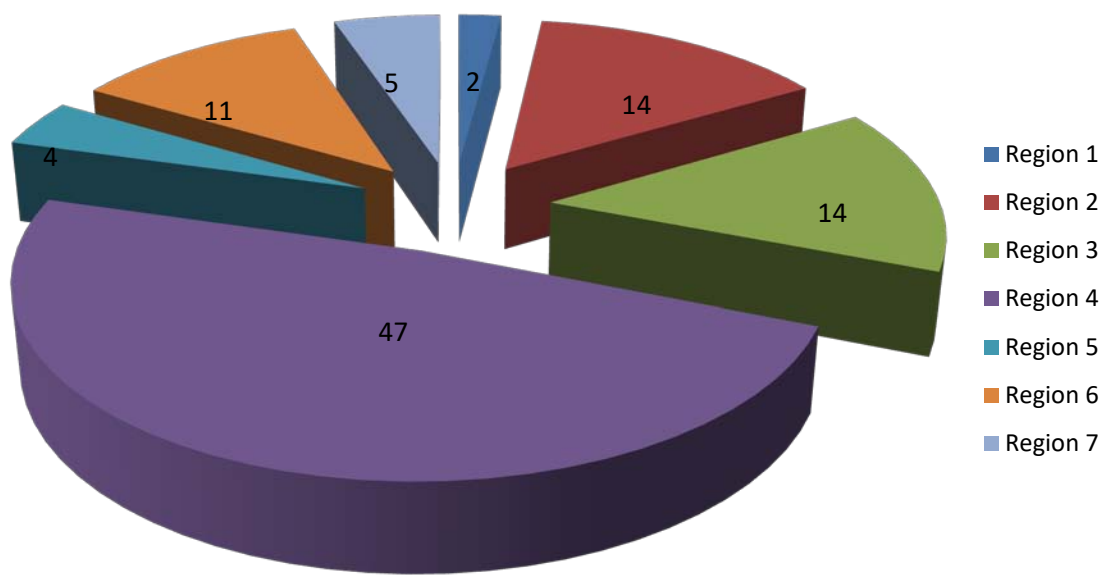


Figure 6: Region wise Distribution of 97 reservoirs

7.0 CONCLUSIONS

1. The surveys conducted during last five decades have indicated that sedimentation rates in some of the reservoirs are higher than that envisaged at the planning stage.
2. The variation in actual sedimentation rate with the rate assumed at the time of design is due to the fact that enough reliable data on Indian reservoirs was not available earlier at their planning stage. The earlier assumption that the sediment would settle within the dead storage is no longer supported by the experience gained in India as well as other countries. The hydrographic surveys have clearly indicated that the sedimentation takes place not only in dead storage but also in live storage of the reservoirs.
3. The present design practice (followed progressively since 1965) incorporates that the design sedimentation inflow rates be based on the basis of reservoir survey data as well as actual observed sediment inflow data available from key hydrological station /network of CWC. This practice has already been incorporated in the IS: 12185 (1987) "Guidelines of determination of effects of sedimentation on planning and performance of reservoirs", to make this a national practice.
4. Regarding apprehension about the higher rates of sedimentation in reservoirs and that they will not last for their planned life, the analysis of data collected for various reservoirs show that the sedimentation rates are not so alarming. Further it has been experienced that the sedimentation rate in reservoirs is higher during the initial period of their operation and thereafter it reduces significantly. Even some of the reservoirs having completed their planned life are still continuing to serve and provide substantial benefits.
5. DGPS enabled bathymetric survey techniques in conducting capacity surveys of reservoirs saves time and obtain more reliable results.

6. Since sedimentation study of reservoirs using remote sensing technique is fast and economical but considering its limitation that sedimentation taking place below MDDL cannot be measured, it would be appropriate to conduct hydrographic surveys at longer intervals and remote sensing based sedimentation surveys are carried out at shorter intervals to make both surveys complementary to each other.

7. It is observed that the rate of sedimentation is maximum in the reservoirs lying in West flowing rivers beyond Tapi and South Indian rivers i.e. the region No. 7. Median value of sedimentation observed in this region is 2.07 mm/year (20.7 Ha.m./100sq.km./year). Second highest rate of sedimentation is observed in the region 5 West flowing rivers upto Narmada (0.86 mm/year i.e.8.6 Ha.m./100sq.km year). In the Himalayan Region (Indus, Ganga and Brahmaputra Basins) rate of sedimentation of 0.42 mm/yr (4.2 Ha.m/100sq.km/yr) is observed. In the plains of Indus and Ganga, only 0.72 mm/year (7.2 Ha.m./100sq.km /year) is observed. The rate of 0.68 mm/year (6.8 Ha.m/100sq.km/year) observed in the east flowing rivers up to Godavari. Rate of sedimentation in the reservoirs lying in Narmada and Tapi basins is 0.651 mm/year (6.51 Ha.m./100sq.km /year).The least sedimentation rate of 0.44 mm/year (4.4 Ha.m./100sq.km /year) is observed in the Deccan Peninsular region.

8. It is observed that the average annual percentage loss of capacity is 0.95 in gross storages, 2.39 in dead storage and 0.67 in live storage (as per Hydrographic surveys)

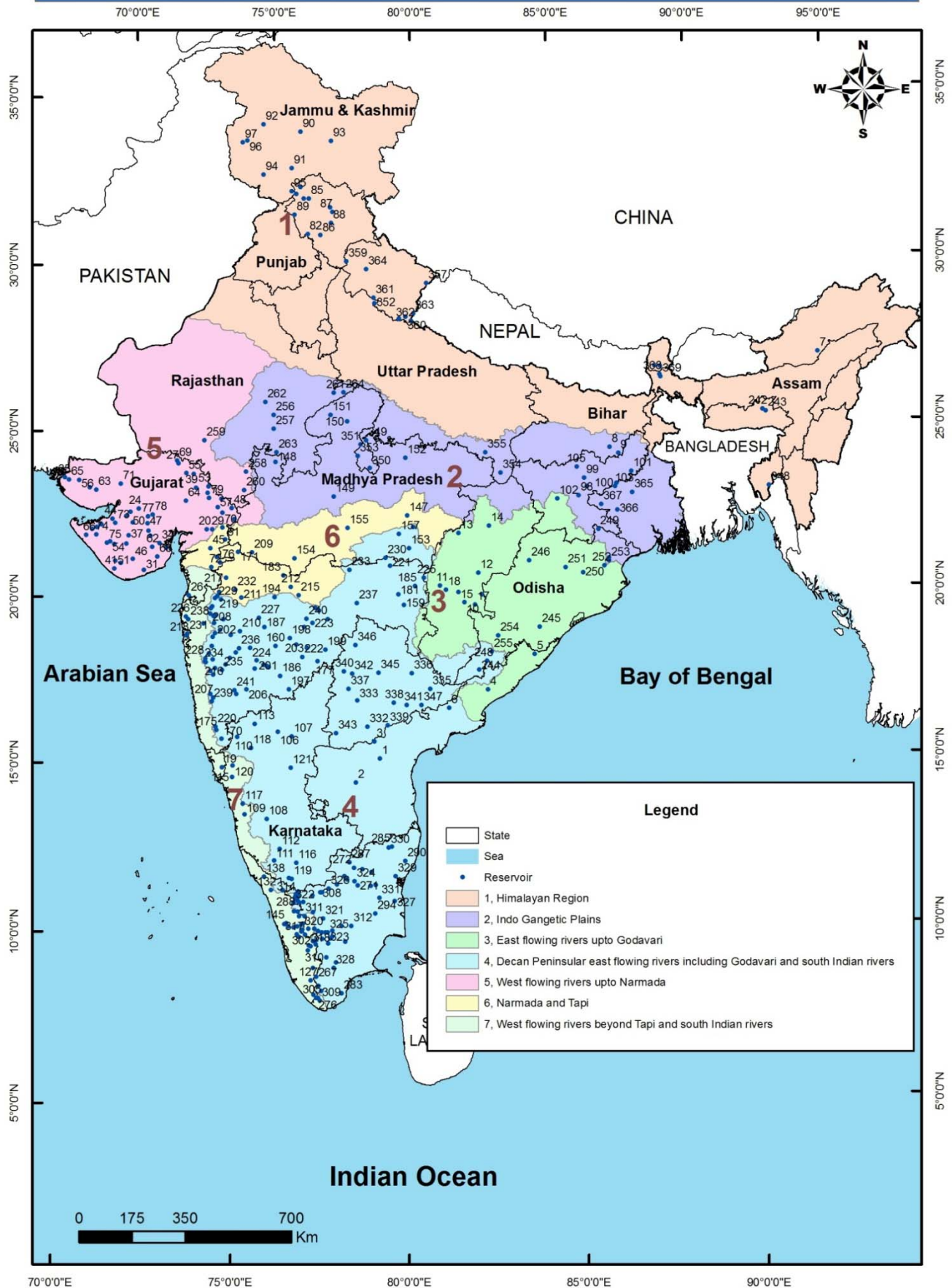
9. Based on the findings from the Remote Sensing Survey it is observed that the rate of sedimentation of different regions are more or less comparable with that of hydrographic Survey with few deviations due to different numbers of reservoirs surveyed through SRS and Hydrographic Surveys in that region.

10. It is observed that from the SRS Survey the rate of sedimentation calculated (based on loss in live storage) is maximum in the reservoirs lying in West flowing rivers beyond Tapi and South Indian rivers i.e. the region No. 7. Median value of sedimentation observed in this region is 3.94 mm/year (39.4 Ha.m./100sq.km./year). Second highest rate of sedimentation is observed in the Narmada and Tapi basins region 6 West flowing rivers upto Narmada (1.079 mm/year i.e.10.76 Ha.m./100sq./km year). In the Himalayan Region (Indus, Ganga and Brahmaputra Basins) rate of sedimentation of 0.504 mm/yr (5.04 Ha.m/100sq.km/yr) is observed which is the least. In the plains of Indus and Ganga, only 0.4 mm/year (4 Ha.m./100sq.km /year) is observed. The rate of 0.73 mm/year (7.3 Ha.m/100sq.km/year) of sedimentation is observed in the east flowing rivers up to Godavari. Rate of sedimentation in the reservoirs lying in the Deccan Peninsular region is 0.719 mm/year (7.19 Ha.m./100sq.km /year).The sedimentation rate of 0.66 mm/year (6.6 Ha.m./100sq.km /year) is observed in region 5 which is West flowing rivers upto Narmada.

11. It is observed that the average annual percentage loss of live capacity is 0.73, (as per Remote sensing surveys).

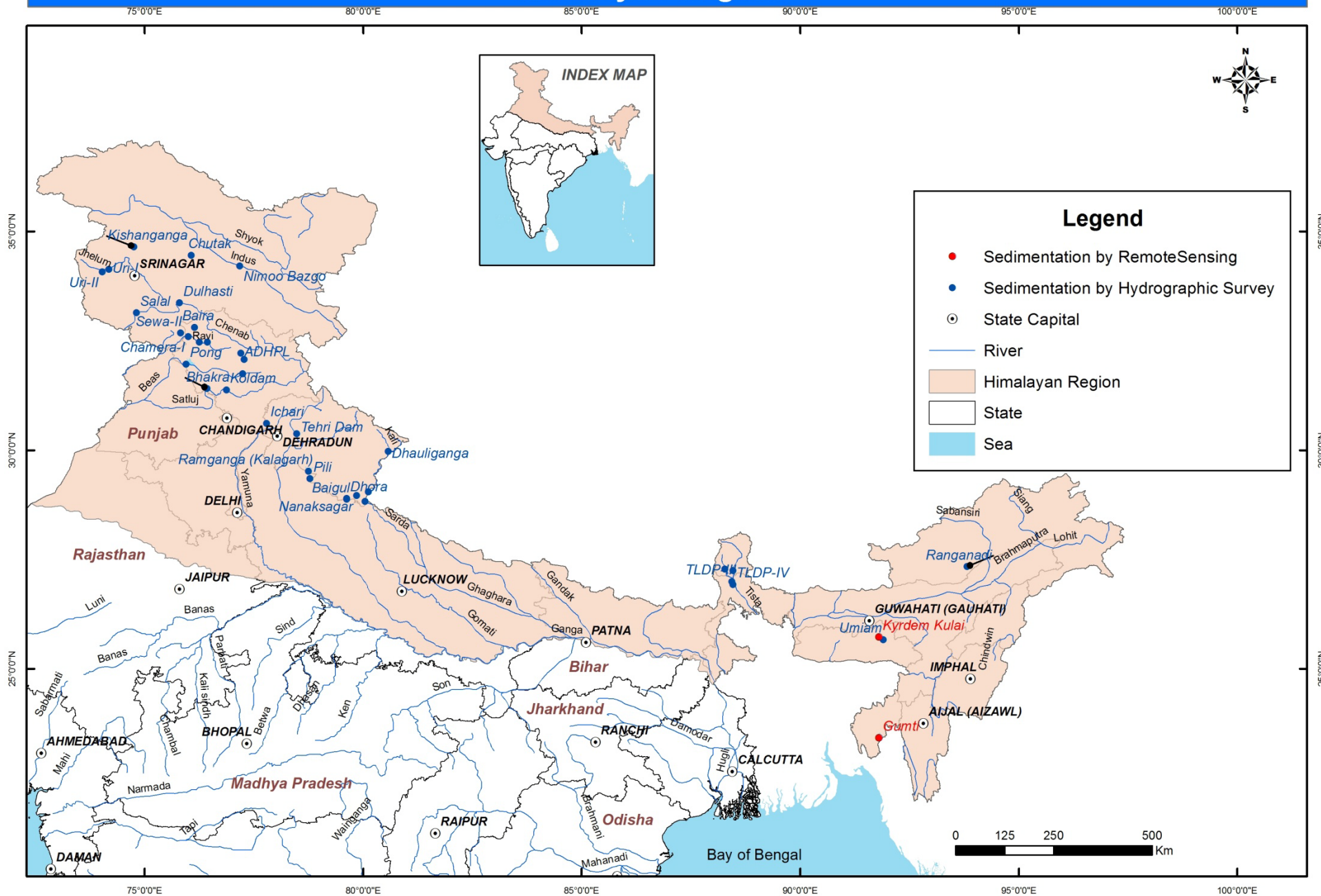
12. It has been observed that from the findings of both Hydrographic and Remote Sensing Survey data analysis Region7 is the one with maximum rate of Siltation. However, from Hydrographic Survey least sedimentation rate is for region 4 and in case of Remote sensing survey least sedimentation rate is for region 2. This may be due to the different sample size for same region and different reservoirs taken for respective surveys.

Region Wise Distribution of Reservoirs (Plate-I)



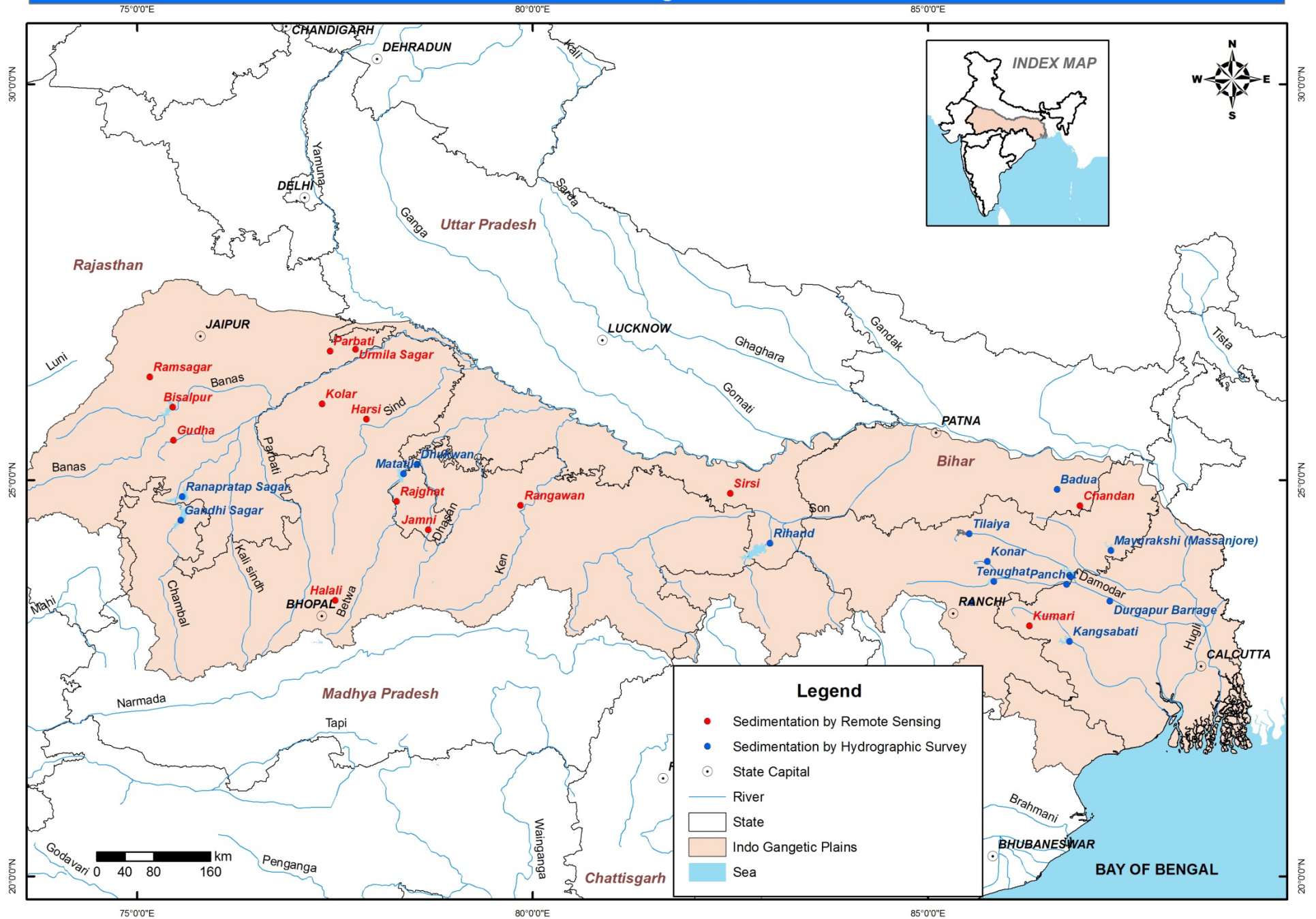
Region-1 Himalayan Region

(Plate-II)



Region-2 Indo Gangetic Plains

(Plate-III)

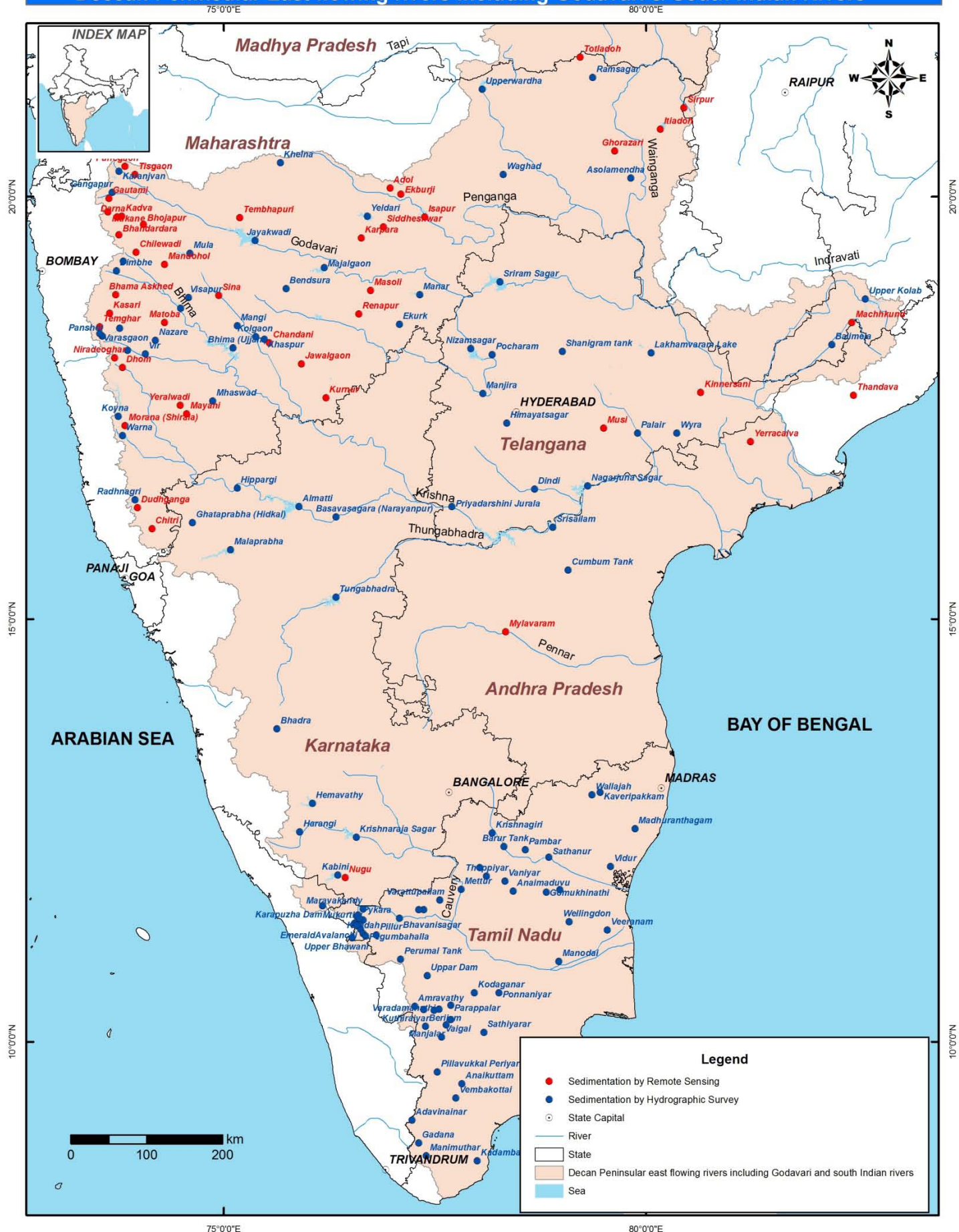


Region-3
East flowing rivers upto Godavari excluding Ganga

(Plate-IV)

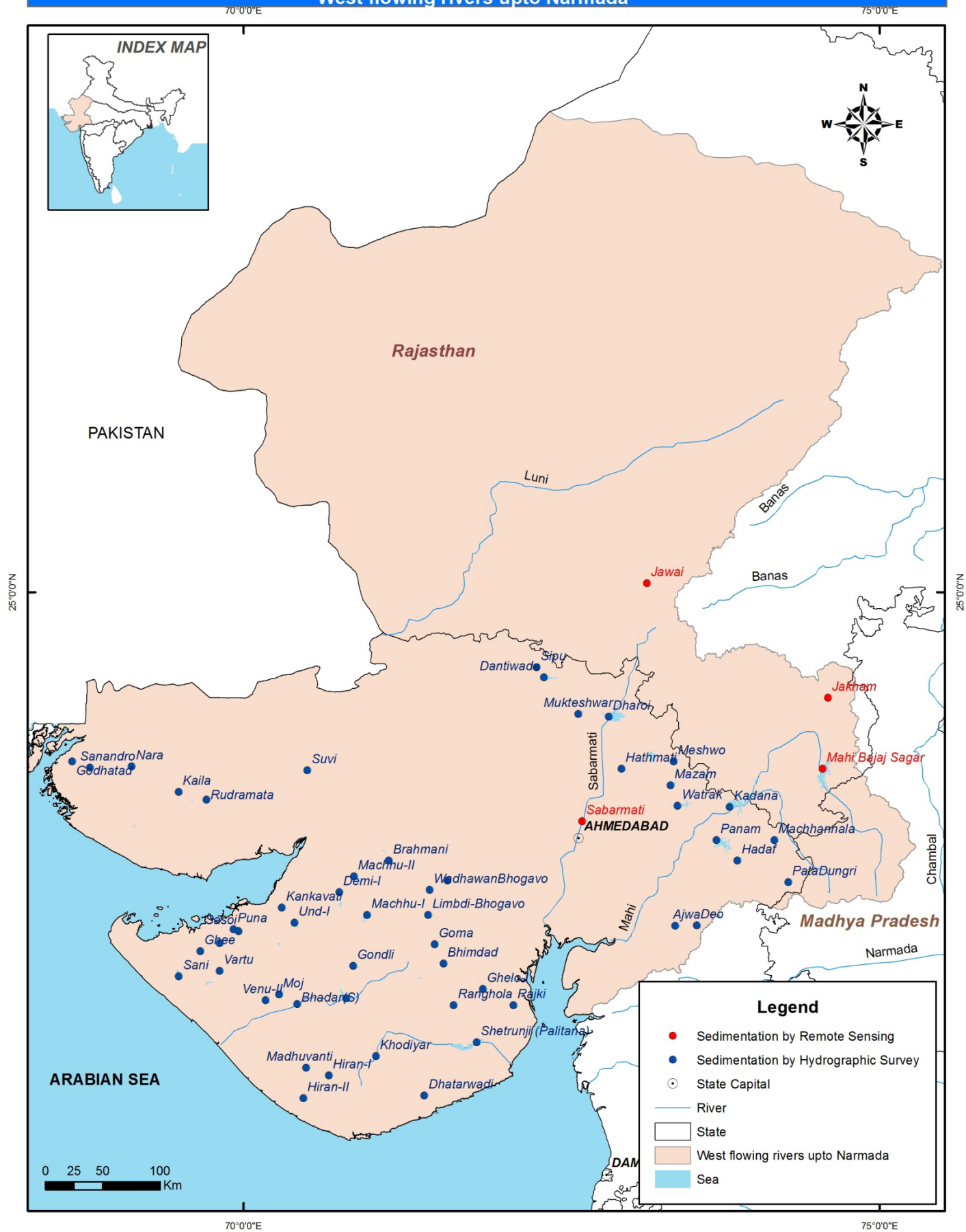


(Plate- V)

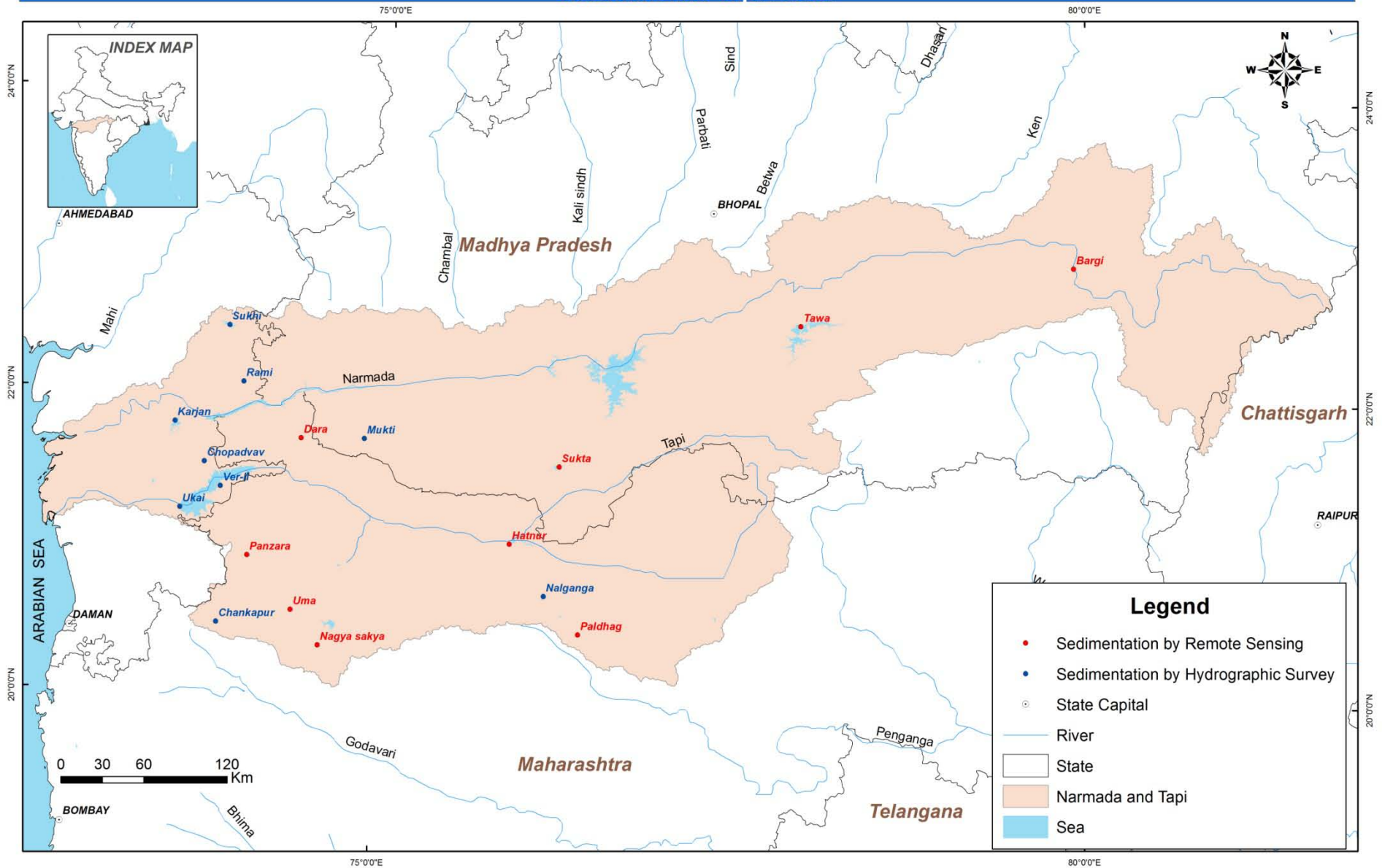


Region- 5
West flowing rivers upto Narmada

Plate-VI

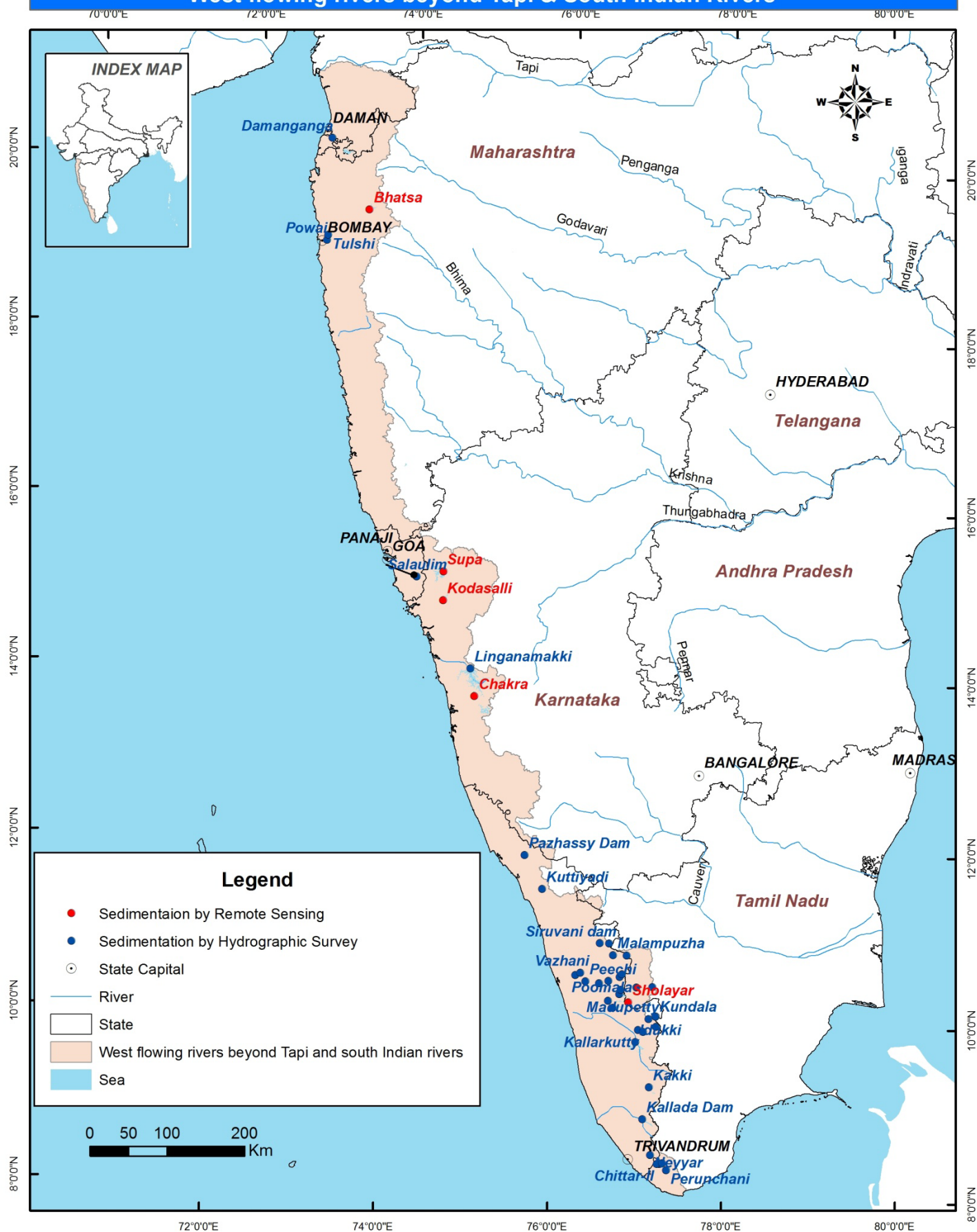


(Plate-VII)



Region-7 West flowing rivers beyond Tapi & South Indian Rivers

(Plate-VIII)



LIST OF RESERVOIRS

S. No.	State	Name of Reservoir	Name of River	Catchment Area in Sq.Km.	Year of first impoundment	Year of Last survey	Initial Gross Storage in MCM	Total Loss of Gross Storage upto last survey in MCM	% Loss of gross storage upto last survey	% Loss of live storage upto last survey	% Loss of dead storage upto last survey	Average Annual % Loss in gross storage	Designated Rate of Siltation (Th.Cu.m / Sq.km./Yr)	Average Observed rate of siltation (Th.Cu.m/ Sq.km./Yr)
1	Andhra Pradesh	Cumbum Tank	Gundukamma	993.00	1956	1978	105.76	21.61	20.43	-	-	0.93	-	0.99
2	Andhra Pradesh	Mylavaram	Pennar	49,717.28	1985	2009	283.00	ND	-	14.94	-	ND	-	-
3	Andhra Pradesh	Srisaillam	Krishna	2,06,030.00	1976	2011	8,724.88	2,613.97	29.96	-	-	0.86	0.08	0.36
4	Andhra Pradesh	Thandava	Thandava	448.00	1975	2013	140.50	ND	-	12.72	-	ND	-	-
5	Andhra Pradesh	Vamsadhara st l	Vamsadhara	9,731.00	1977	2004	-	ND	-	61.43	-	ND	-	-
6	Andhra Pradesh	Yerracalva	Yerracalva	1,085.00	1988	2013	70.36	ND	-	5.29	-	ND	-	-
7	Arunachal pradesh	Ranganadi	Ranganadi (Panior)	1,894.00	2002	2017	21.28	15.80	74.25	33.33	89.22	4.95	0.82	0.56
8	Bihar	Badua	Badua	480.70	1965	2006	129.25	15.81	12.23	9.21	29.17	0.30	0.36	0.80
9	Bihar	Chandan	Chandan	549.00	1967	2004	146.07	ND	-	52.24	-	ND	-	-
10	Chhattisgarh	Dudhawa	Mahanadi	625.27	1963	2011	288.66	28.53	9.88	8.81	77.22	0.21	-	0.95
11	Chhattisgarh	Kharkhara	Kharkhara	371.66	1967	2010	167.83	ND	-	3.19	-	ND	-	-
12	Chhattisgarh	Kodar	Kodar nallah	317.17	1980	2009	160.35	ND	-	15.93	-	ND	-	-
13	Chhattisgarh	Maniyari	Maniyari	854.00	1930	2009	151.26	ND	-	32.13	-	ND	-	-
14	Chhattisgarh	Minimata Bango	Hasdeo	6,730.00	1990	2001	3,416.00	50.21	1.47	0.71	7.74	0.13	0.55	0.68
15	Chhattisgarh	Ravishankar sagar	Mahanadi	3,670.00	1979	2003	909.32	28.20	3.10	1.20	13.29	0.13	0.39	0.32
16	Chhattisgarh	Sikasar	Pairi	497.00	1977	2003	216.50	ND	-	7.96	-	ND	-	-
17	Chhattisgarh	Sondur	Sondur	518.00	1988	2003	198.10	ND	-	24.95	-	ND	-	-
18	Chhattisgarh	Tandula	Tandula	818.00	1920	2016	312.18	ND	-	3.01	-	ND	-	-
19	Goa	Salaulim	Sanguem	209.00	1990	2011	234.36	41.68	17.78	15.98	74.69	0.85	-	9.50
20	Gujarat	Ajwa	Surya Rivulet	177.30	1891	1987	62.70	7.71	12.30	-	-	0.13	-	0.45
21	Gujarat	Bhadar(P)	Bhadar	407.00	1983	2009	46.72	15.77	33.76	26.88	73.96	1.30	0.36	1.49
22	Gujarat	Bhadar(S)	Bhadar	2,406.00	1964	2004	237.86	91.55	38.49	34.74	97.67	0.96	-	0.95
23	Gujarat	Bhimdad	Madhu	109.82	1953	1986	11.19	4.50	40.21	-	-	1.22	0.14	1.24
24	Gujarat	Brahmani	Brahmani	699.27	1953	1986	74.95	16.62	22.17	-	-	0.67	0.72	0.72
25	Gujarat	Chopadvav	Doman	27.00	1985	1998	10.15	4.46	43.92	42.00	68.00	3.38	0.36	12.70
26	Gujarat	Damanganga	Damanganga	1,813.00	1983	2008	567.00	42.14	7.43	4.76	28.05	0.30	0.56	0.93

27	Gujarat	Dantiwada	Banas	2,862.00	1965	2007	464.40	69.07	14.87	11.58	89.36	0.35	0.36	0.57
28	Gujarat	Demi-I	Demi	168.34	1959	1984	21.52	4.97	23.09	-	-	0.92	-	1.18
29	Gujarat	Deo	Deo	259.00	1986	2005	84.09	16.14	19.20	19.62	15.03	1.01	0.33	3.28
30	Gujarat	Dharoi	Sabarmati	5,475.00	1976	2006	907.83	94.69	10.43	4.22	47.76	0.35	0.36	0.58
31	Gujarat	Dhatarwadi	Dhatarwadi	429.94	1975	1986	32.73	5.93	18.12	-	-	1.65	0.19	1.25
32	Gujarat	Fulzar-I	Und	142.45	1957	1986	14.90	2.67	17.92	-	-	0.62	-	0.65
33	Gujarat	Ghee	Ghee	129.49	1953	1986	13.84	1.23	8.89	-	-	0.27	-	0.29
34	Gujarat	Ghelo-I	Ghelo	103.60	1963	1986	13.35	3.35	25.09	-	-	1.09	0.38	1.41
35	Gujarat	Godhatad	Mitiariwali	167.04	1977	1987	14.70	0.72	4.90	-	-	0.49	0.90	0.43
36	Gujarat	Goma	Goma	155.40	1972	1986	18.26	2.35	12.87	-	-	0.92	0.15	1.08
37	Gujarat	Gondli	Gondli	67.41	1956	1986	11.35	1.24	10.93	-	-	0.36	-	0.61
38	Gujarat	Hadaf	Hadaf	508.00	1986	2009	32.26	10.17	31.54	30.98	33.48	1.37	0.34	0.87
39	Gujarat	Hathmati	Sabarmati	594.95	1971	1987	160.71	9.43	5.87	-	-	0.37	0.24	0.99
40	Gujarat	Hiran-I	Hiran	80.91	1966	1987	21.65	1.43	6.61	-	-	0.31	0.84	0.84
41	Gujarat	Hiran-II	Hiran	168.00	1981	1998	38.58	3.43	8.89	3.20	64.89	0.52	0.19	1.20
42	Gujarat	Kadana	Mahi	25,486.00	1977	2000	1,543.00	293.74	19.04	20.64	13.36	0.83	0.13	0.50
43	Gujarat	Kaila	Kaila	178.05	1956	1987	13.98	5.12	36.62	-	-	1.18	0.24	0.93
44	Gujarat	Kankavati	Kankavati	207.19	1956	1987	14.62	4.09	27.98	-	-	0.90	0.19	0.64
45	Gujarat	Karjan	Karjan	1,404.00	1984	2013	630.00	91.25	14.48	11.42	50.82	0.50	0.48	2.24
46	Gujarat	Khodiyar	Shetrunji	383.00	1967	2002	40.35	6.37	15.79	9.43	100.00	0.45	0.07	0.48
47	Gujarat	Limbdi-Bhogavo	Limbdi-Bhogavo	331.50	1960	1986	30.15	7.66	25.41	-	-	0.98	-	0.89
48	Gujarat	Machhannala	Mahi	245.00	1982	1999	37.91	10.79	28.46	27.29	32.34	1.67	0.34	2.59
49	Gujarat	Machhu-I	Machhu	730.00	1958	1994	83.13	8.04	9.67	7.77	100.00	0.27	0.74	0.31
50	Gujarat	Machhu-II	Machhu	1,193.00	1972	2004	100.56	12.65	12.58	9.56	61.10	0.39	0.48	0.33
51	Gujarat	Madhuvanti	Madhuvanti	45.32	1973	1986	12.14	0.49	4.04	-	-	0.31	0.83	0.83
52	Gujarat	Mazam	Mazam/Sabarmati	407.00	1984	1998	44.65	0.57	1.28	0.11	7.28	0.09	0.36	0.10
53	Gujarat	Meshwo	Meshwo/Sabarmati	259.00	1968	1997	82.12	28.99	35.30	31.30	98.77	1.22	0.09	3.86
54	Gujarat	Moj	Moj	440.00	1956	1999	52.98	16.29	30.75	26.72	100.00	0.72	0.34	0.86
55	Gujarat	Mukteshwar	Saraswati	306.00	1990	2007	41.00	9.54	23.27	19.86	36.95	1.37	0.36	1.83
56	Gujarat	Nara	Nara	233.03	1975	1987	41.06	1.36	3.31	-	-	0.28	0.19	0.49
57	Gujarat	Panam	Panam/Mahi	2,314.00	1977	2012	735.80	155.42	21.12	18.26	55.44	0.60	0.36	1.92

58	Gujarat	PataDungri	Khan	212.38	1974	1981	41.06	2.02	4.92	-	-	0.70	-	1.36
59	Gujarat	Puna	Sasoi	137.27	1954	1986	13.99	4.15	29.66	-	-	0.93	-	0.94
60	Gujarat	Rajki	Malan	88.06	1964	1986	12.02	2.79	23.21	-	-	1.06	0.20	1.44
61	Gujarat	Rami	Narmada	25.00	1983	1999	7.08	2.53	35.73	32.00	87.00	2.23	0.19	6.33
62	Gujarat	Ranghola	Rangholi	370.37	1952	1986	44.52	7.84	17.61	-	-	0.52	0.14	0.62
63	Gujarat	Rudramata	Khari	383.30	1963	1987	64.78	3.62	5.59	-	-	0.23	0.19	0.39
64	Gujarat	Sabarmati	Sabarmati	5,540.00	1976	2003	907.89	ND	-	5.28	-	ND	-	-
65	Gujarat	Sanandro	Kali	147.62	1956	1986	12.28	7.04	57.33	-	-	1.91	0.24	1.59
66	Gujarat	Sani	Sani	506.00	1984	2010	55.08	16.06	29.16	30.28	23.38	1.12	-	1.22
67	Gujarat	Sasoi	Sasoi	562.03	1954	2009	51.00	13.03	25.55	18.78	99.98	0.46	0.17	0.42
68	Gujarat	Shetrunji (Palitana)	Shetrunji	4,317.00	1959	2008	415.41	81.22	19.55	12.38	85.83	0.40	0.48	0.38
69	Gujarat	Sipu	Banas	122.00	1992	2007	177.80	16.37	9.21	6.79	26.47	0.61	0.72	8.95
70	Gujarat	Sukhi	Sukhi	412.00	1987	2005	178.47	1.46	0.82	-0.04	13.57	0.05	0.48	0.20
71	Gujarat	Suvi	Suvi	160.52	1964	1987	14.28	3.83	26.82	-	-	1.17	0.24	1.04
72	Gujarat	Ukai	Tapi	62,225.00	1972	2003	8,510.00	1,095.7 1	12.88	5.17	51.56	0.42	0.15	0.57
73	Gujarat	Und-I	Und	769.00	1988	2010	72.50	3.46	4.77	-0.72	55.86	0.22	0.01	0.20
74	Gujarat	Vartu	Vartu	170.94	1964	1986	13.30	1.60	12.03	-	-	0.55	0.19	0.43
75	Gujarat	Venu-II	Bhadar	751.00	1989	1999	22.58	7.26	32.17	31.60	35.00	3.22	0.48	0.97
76	Gujarat	Ver-II	Tapi	90.00	1984	1998	38.30	5.67	14.80	12.65	78.40	1.06	0.20	4.50
77	Gujarat	WadhawanBhogav o	WadhawaBhogav o	435.10	1960	1986	18.15	2.67	14.71	-	-	0.57	-	0.24
78	Gujarat	WadhawanBhogav o-II	WadhawaBhogav o	569.77	1959	1986	23.36	2.97	12.71	-	-	0.47	0.76	0.19
79	Gujarat	Watrak	Watrak	1,113.70	1984	2003	177.00	15.40	8.70	9.00	7.07	0.46	0.20	0.73
80	Himachal Pradesh	ADHPL	Allain & Duhangan revulets	195.10	2010	2018	0.22	0.00	0.00	19.00	- 2,150.0 0	0.00	-	0.00
81	Himachal Pradesh	Baira	Baira	669.00	1980	2017	3.75	3.05	81.33	75.81	92.13	2.20	-	0.12
82	Himachal Pradesh	Bhakra	Sutlej	56,980.00	1958	2017	9,868.00	2,272.0 3	23.02	-	-	0.39	33.61	0.68
83	Himachal Pradesh	Chamera-I	Ravi	4,725.00	1994	2018	391.30	196.20	50.14	7.33	63.84	2.09	1.50	1.73
84	Himachal Pradesh	Chamera-II	Ravi	2,593.00	2003	2018	2.25	0.57	25.33	11.46	55.88	1.69	-	0.01
85	Himachal Pradesh	Chamera-III	Ravi	2,203.00	2012	2018	5.48	2.51	45.80	20.88	95.11	7.63	-	0.19
86	Himachal Pradesh	Koldam	Satluj	53,770.00	2015	2017	576.00	4.75	0.82	0.00	0.98	0.41	-	0.04

87	Himachal Pradesh	Malana-1	Malana	178.50	2001	-	0.25	0.00	0.00	11.04	-309.19	ND	48.03	-
88	Himachal Pradesh	Parbati-III	Sainj	650.00	2014	2018	1.67	0.46	27.54	23.44	41.03	6.89	0.85	0.18
89	Himachal Pradesh	Pong	Indus	12,562.00	1974	2018	8,579.00	1,068.88	12.46	10.79	21.93	0.28	2.01	1.93
90	Jammu & Kashmir	Chutak	Suru	3488	2012	2018	0.588	0.17	28.23	-	-	4.71	0.57	0.01
91	Jammu & Kashmir	Dulhasti	Chenab	10500	2006	2017	12.98	0.59	4.55	3.25	20.41	0.41	2.24	0.01
92	Jammu & Kashmir	Kishanganga	Kishanganga	1815	2018	2018	18.35	0.00	0.00	0.00	0.00	ND	0.41	-
93	Jammu & Kashmir	Nimoo Bazgo	Indus	58880	2013	2016	52.82	19.12	36.20	5.80	43.00	12.07	0.12	0.11
94	Jammu & Kashmir	Salal	Chenab	21497	1987	2018	285	272.57	95.64	-	95.64	3.09	-	0.41
95	Jammu & Kashmir	Sewa-II	Sewa	341	2010	2018	7.05	1.14	16.17	3.19	37.59	2.02	0.69	0.42
96	Jammu & Kashmir	Uri-I	Jhelum	12750	1997	2018	0.3597	0.12	34.11	-	-	1.62	0.16	0.00
97	Jammu & Kashmir	Uri-II	Jhelum	13400	2013	2018	6.343	2.01	31.74	-	-	6.35	0.32	0.03
98	Jharkhand	Getalsud	Subarnarekha	725.00	1971	2001	288.63	21.06	7.30	3.63	22.29	0.24	0.78	0.97
99	Jharkhand	Konar	Konar	997.15	1955	1996	281.13	71.48	25.43	20.50	43.42	0.62	0.62	1.75
100	Jharkhand	Maithon	Barakar	6,294.00	1955	1994	1,348.80	264.04	19.58	-	-	0.50	0.91	1.08
101	Jharkhand	Mayurakshi (Massanjore)	Mayurakshi	1,860.00	1954	2001	608.20	48.71	8.01	6.39	21.85	0.17	0.38	0.56
102	Jharkhand	Nandini	Nandini	58.08	1988	2015	19.28	ND	-	32.83	-	ND	-	-
103	Jharkhand	Panchet	Damodar	10,966.00	1956	2011	1,581.00	387.54	24.51	19.09	55.40	0.45	0.67	0.64
104	Jharkhand	Tenughat	Damodar	4,481.00	1970	2001	592.18	99.50	16.80	-0.40	23.99	0.54	0.47	0.72
105	Jharkhand	Tilaiya	Barakar	984.20	1953	1997	335.83	120.92	36.01	46.22	0.62	0.82	0.76	2.79
106	Karnataka	Almatti	Krishna	35,925.00	2001	2007	3,486.00	150.34	4.31	-1.54	39.24	0.72	0.48	0.70
107	Karnataka	Basavasagara (Narayanpur)	Krishna	47,850.00	1982	2007	1,071.55	287.60	26.84	11.52	92.36	1.07	0.02	0.24
108	Karnataka	Bhadra	Krishna	1,968.40	1964	2011	2,025.87	95.74	4.73	4.24	8.35	0.10	-	1.03
109	Karnataka	Chakra	Chakra	58.60	1985	2010	222.85	ND	-	4.34	-	ND	-	-
110	Karnataka	Ghataprabha (Hidkal)	Ghataprabha	1,411.55	1974	2000	1,434.14	115.52	8.06	6.51	39.03	0.31	0.41	3.15
111	Karnataka	Harangi	Cauvery	419.58	1982	2009	240.69	23.57	9.79	9.09	23.14	0.36	-	2.08
112	Karnataka	Hemavathy	Cauvery	2,810.00	1979	2009	1,050.63	76.13	7.25	9.06	-41.18	0.24	-	0.90
113	Karnataka	Hippargi	Krishna	22,699.00	1998	2007	99.74	3.57	3.58	1.98	7.06	0.40	-	0.02
114	Karnataka	Kabini	Kabini	2,141.90	1974	2010	552.63	23.06	4.17	-3.05	33.55	0.12	-	0.30
115	Karnataka	Kodasalli	Kali	1,049.00	1999	2009	286.49	ND	-	11.70	-	ND	-	-

116	Karnataka	Krishnaraja Sagar	Cauvery	10,620.00	1932	2009	1,400.31	93.91	6.71	4.58	28.49	0.09	-	0.11
117	Karnataka	Linganamakki	Sharavathy	1,991.71	1964	1999	4,435.35	171.83	3.87	2.21	54.31	0.11	0.71	2.46
118	Karnataka	Malaprabha	Malaprabha	2,176.00	1981	1991	1,239.66	78.58	6.34	3.12	33.35	0.63	0.43	3.61
119	Karnataka	Nugu	Nugu	984.00	1959	2009	154.06	ND	-	6.45	-	ND	-	-
120	Karnataka	Supa	Kalinadi	1,057.00	1985	2005	4,178.00	ND	-	28.98	-	ND	-	-
121	Karnataka	Tungabhadra	Tungabhadra	28,180.00	1953	2008	3,751.17	895.28	23.87	23.19	100.00	0.43	0.43	0.58
122	Kerala	Anayirankal	Panniar	65.68	1964	1997	49.84	15.41	30.92	-	-	0.94	-	7.11
123	Kerala	Chulliar	Bharatpuzha	27.80	1966	2009	13.70	0.48	3.47	-	-	0.08	-	0.40
124	Kerala	Idamalayar	Idamalayar	481.79	1986	2011	1,208.23	32.04	2.65	0.09	43.11	0.11	-	2.66
125	Kerala	Idukki	Periyar	649.31	1974	1999	1,998.57	25.85	1.29	0.60	3.18	0.05	-	1.59
126	Kerala	Kakki	Kakki	217.55	1966	1999	454.07	25.29	5.57	5.66	0.26	0.17	-	3.52
127	Kerala	Kallada Dam	Kallada	549.00	1986	2018	577.25	169.86	29.43	19.66	99.88	0.92	-	9.67
128	Kerala	Kallarkutty	Mudhirapuzzha	759.85	1962	1992	6.80	0.75	11.00	-	-	0.37	-	0.03
129	Kerala	Kanjirapuzha	Kanjirapuzha	70.00	1980	2017	70.87	21.71	30.64	30.28	44.13	0.83	-	8.38
130	Kerala	Karapuzha Dam	Karapuzha	62.00	2005	2016	76.50	41.79	54.63	55.88	34.64	4.97	-	61.28
131	Kerala	Kundala	Palar	37.55	1948	1994	7.79	1.26	16.20	-	-	0.35	-	0.73
132	Kerala	Kuttiyadi	Kuttiyadi	108.78	1973	2010	120.52	28.65	23.77	20.17	81.43	0.64	-	7.12
133	Kerala	Madupetty	Palar	104.90	1967	1995	55.22	6.43	11.65	-	-	0.42	-	2.19
134	Kerala	Malampuzha	Bharathapuzha	147.64	1955	2006	226.00	30.67	13.57	8.65	91.13	0.27	-	4.07
135	Kerala	Mangalam	Cherrukunapuzha	48.85	1966	2015	25.49	5.61	21.99	21.68	73.33	0.45	-	2.34
136	Kerala	Meenkara	Meenkara	90.65	1960	2009	11.33	1.48	13.10	10.43	40.70	0.27	-	0.33
137	Kerala	Neyyar	Neyyar	139.86	1964	2015	106.25	8.91	8.38	0.68	78.43	0.16	-	1.25
138	Kerala	Pazhassy Dam	Pazhassi	640.00	1979	2016	97.50	48.53	49.77	51.92	-672.32	1.35	-	2.05
139	Kerala	Peechi	Manali	107.10	1957	2013	110.43	15.48	14.02	12.89	67.50	0.25	-	2.58
140	Kerala	Ponmudi	Panniyar	220.52	1962	1992	51.54	11.08	21.50	-	-	0.72	-	1.67
141	Kerala	Poomala	Poomala	1.17	1968	2010	0.58	0.01	1.90	-	-	0.05	-	0.22
142	Kerala	Porinngalkuthu	Chalakudi	512.00	1957	1993	31.99	8.16	25.50	-	-	0.71	-	0.44
143	Kerala	Pothundi	Bharatpuzha	31.00	1971	2009	50.91	1.81	3.55	2.33	11.12	0.09	-	1.53
144	Kerala	Siruvani dam	Siruvani	22.47	1984	2012	25.50	2.94	11.53	2.32	35.49	0.41	-	4.67
145	Kerala	Vazhani	Wadakkanchery	20.48	1959	2009	18.12	1.00	5.54	-0.22	70.56	0.11	-	0.98
146	Kerala	Walayar Dam	Bharathapuzha	106.36	1956	2009	18.40	2.37	12.89	4.88	50.75	0.24	-	0.42
147	Madhya	Bargi	Narmada	14,556.00	1990	2008	4,059.69	ND	-	3.38	-	ND	-	-

	Pradesh													
148	Madhya Pradesh	Gandhi Sagar	Chambal	23,025.00	1960	2001	7,746.00	519.85	6.71	3.49	33.32	0.16	0.41	0.55
149	Madhya Pradesh	Halali	Halali	699.00	1976	2003	252.84	ND	-	16.90	-	ND	-	-
150	Madhya Pradesh	Harsi	Parbati	1,960.00	1935	2007	206.30	ND	-	11.23	-	ND	-	-
151	Madhya Pradesh	Kolar	Kolar	759.00	1988	2006	270.00	ND	-	-8.17	-	ND	-	-
152	Madhya Pradesh	Rangawan	Ken	828.80	1957	2009	164.24	ND	-	-4.39	-	ND	-	-
153	Madhya Pradesh	Sarhi	Vartu	197.57	1974	1986	10.69	3.38	31.62	-	-	2.63	-	1.43
154	Madhya Pradesh	Sukta	Sukta	468.79	1984	2006	89.38	ND	-	5.98	-	ND	-	-
155	Madhya Pradesh	Tawa	Tawa	5,982.90	1990	2009	2,204.00	ND	-	13.05	-	ND	-	-
156	Madhya Pradesh	Thanwar	Thanwe	417.00	1983	2005	149.89	ND	-	6.13	-	ND	-	-
157	Madhya Pradesh	Upper Wainganga	Wainganga	2,007.75	1995	2003	506.66	ND	-	3.86	-	ND	-	-
158	Maharashta	Adol	Godavari	116.55	1989	2015	15.01	ND	-	35.07	-	ND	-	-
159	Maharashta	Asolamendha	Pathari	246.00	1918	1994	92.96	29.97	32.24	-	-	0.42	1.60	1.60
160	Maharashta	Bendsura	Bendsura	188.42	1955	1995	13.12	5.24	39.95	-	-	1.00	0.30	0.70
161	Maharashta	Bhama Askhed	Bhama	198.08	2000	2010	165.96	ND	-	5.18	-	ND	-	-
162	Maharashta	Bhandardara	Godavari	121.73	1926	2015	312.60	ND	-	9.02	-	ND	-	-
163	Maharashta	Bhatghar	Yelwandi	331.50	1927	2007	672.65	108.59	16.14	16.14	-	0.20	-	4.09
164	Maharashta	Bhatsa	Bhatsa	388.50	1979	2017	976.10	ND	-	44.11	-	ND	-	-
165	Maharashta	Bhima (Ujjani)	Bhima	14,858.00	1977	2012	3,320.00	423.91	12.77	7.14	17.50	0.36	-	0.82
166	Maharashta	Bhojapur	Godavari	154.00	1972	2017	13.26	ND	-	3.52	-	ND	-	-
167	Maharashta	Chandani	Krishna	606.00	1965	2015	23.78	ND	-	37.86	-	ND	-	-
168	Maharashta	Chankapur	Girna	269.00	1913	2009	79.94	17.52	21.92	18.79	100.00	0.23	-	0.68
169	Maharashta	Chilewadi	Krishna	103.94	2000	2016	27.17	ND	-	35.56	-	ND	-	-
170	Maharashta	Chitri	Krishna	27.85	2004	2017	53.41	ND	-	16.97	-	ND	-	-
171	Maharashta	Dara	Tapi	63.71	2007	2013	14.76	ND	-	70.15	-	ND	-	-
172	Maharashta	Darna	Godavari	404.00	1916	2015	226.96	ND	-	14.21	-	ND	-	-
173	Maharashta	Dhom	Krishna	217.56	1977	2005	382.22	ND	-	5.24	-	ND	-	-
174	Maharashta	Dimbhe	Ghod	298.00	2000	2010	394.85	-34.54	-8.75	-6.82	-33.67	-0.87	-	-11.59
175	Maharashta	Dudhganga	Krishna	196.00	1989	2018	719.12	ND	-	2.38	-	ND	-	-
176	Maharashta	Ekburji	Godavari	75.16	1964	2016	14.12	ND	-	21.14	-	ND	-	-

177	Maharashta	Ekurk	Adelanalla	412.00	1871	1991	94.30	26.44	28.03	-	-	0.23	0.15	0.53
178	Maharashta	Gangapur	Godavari	357.40	1965	1997	212.51	48.89	23.01	-	-	0.72	0.34	4.27
179	Maharashta	Gautami	Godavari	41.18	2006	2014	53.22	ND	-	15.70	-	ND	-	-
180	Maharashta	Ghod	Ghod	3,586.00	1965	2007	216.30	47.00	21.73	10.86	49.09	0.52	-	0.31
181	Maharashta	Ghorazari	Godavari	90.65	1923	2015	50.24	ND	-	44.49	-	ND	-	-
182	Maharashta	Girna	Girna	4,727.30	1969	2010	608.45	42.88	7.05	2.55	34.78	0.17	0.18	0.22
183	Maharashta	Hatnur	Tapi	29,430.00	1982	2017	388.00	ND	-	59.41	-	ND	-	-
184	Maharashta	Isapur	Penganga	4,650.00	1983	2003	1,241.26	ND	-	3.08	-	ND	-	-
185	Maharashta	Itiadh	Garvi	704.48	1972	2007	381.58	ND	-	-0.13	-	ND	-	-
186	Maharashta	Jawalgaon	Krishna	223.00	1989	2016	34.91	ND	-	8.20	-	ND	-	-
187	Maharashta	Jayakwadi	Godavari	21,774.00	1976	1999	2,909.04	249.80	8.59	4.34	21.09	0.37	-	0.50
188	Maharashta	Kadva	Godavari	173.23	1992	2016	59.59	ND	-	4.40	-	ND	-	-
189	Maharashta	Karanjvan	Kadwa	248.00	1974	2008	175.57	16.96	9.66	5.23	73.55	0.28	-	2.01
190	Maharashta	Karpara	Godavari	270.00	1974	2014	28.82	ND	-	32.90	-	ND	-	-
191	Maharashta	Kasari	Krishna	33.28	1998	2016	78.56	ND	-	25.15	-	ND	-	-
192	Maharashta	Khadakwasla	Mutha	501.80	1879	2007	86.00	-1.87	-2.17	-14.21	20.30	-0.02	-	-0.03
193	Maharashta	Khaspur	Sina	554.20	1954	1996	19.82	6.34	31.97	-	-	0.76	0.12	0.27
194	Maharashta	Khelna	Khelna	161.60	1964	1985	12.61	0.70	5.57	-	-	0.27	0.13	0.21
195	Maharashta	Kolgaon	Hanga	55.74	1956	1988	2.87	1.37	47.87	-	-	1.50	0.11	0.77
196	Maharashta	Koyna	Koyna	891.78	1962	2012	2,980.68	173.79	5.83	4.87	28.68	0.12	-	3.90
197	Maharashta	Kurnur	Godavari	322.56	1968	2017	35.26	ND	-	4.96	-	ND	-	-
198	Maharashta	Majalgaon	Sindfana	3,840.00	1987	2010	454.00	45.92	10.11	6.17	18.79	0.44	-	0.52
199	Maharashta	Manar	Manar	1,585.08	1969	1999	138.35	18.73	13.54	-	-	0.45	0.17	0.39
200	Maharashta	Mandohol	Godavari	142.45	1981	2015	11.30	ND	-	39.64	-	ND	-	-
201	Maharashta	Mangi	Kanola	304.00	1955	1995	33.84	3.44	10.15	-	-	0.25	0.05	0.28
202	Maharashta	Manikdoh	Kukadi	129.00	1984	2006	308.06	34.53	11.21	9.24	39.88	0.51	-	12.17
203	Maharashta	Masoli	Godavari	281.07	1982	2014	34.08	ND	-	21.02	-	ND	-	-
204	Maharashta	Matoba	Krishna	-	1878	2014	4.55	ND	-	0.00	-	ND	-	-
205	Maharashta	Mayani	Krishna	135.17	1876	2015	1.46	ND	-	26.78	-	ND	-	-
206	Maharashta	Mhaswad	Man	1,243.20	1888	1990	86.94	45.24	52.04	-	-	0.51	0.18	0.36
207	Maharashta	Morana (Shirala)	Krishna	85.50	1985	2013	21.18	ND	-	4.92	-	ND	-	-
208	Maharashta	Mukane	Godavari	129.59	1994	2015	214.16	ND	-	29.49	-	ND	-	-

209	Maharashta	Mukti	Motinala	88.60	1893	1991	9.68	2.81	29.03	-	-	0.30	0.01	0.32
210	Maharashta	Mula	Mula	2,275.86	1972	2008	738.02	41.57	5.63	3.98	13.26	0.16	-	0.51
211	Maharashta	Nagya sakya	Godavari	451.28	1982	2016	15.62	ND	-	11.68	-	ND	-	-
212	Maharashta	Nalganga	Nalganga	315.98	1963	1985	76.20	4.34	5.69	-	-	0.26	0.19	0.62
213	Maharashta	Nazare	Karha	397.82	1975	1986	22.32	7.68	34.43	-	-	3.13	0.24	1.76
214	Maharashta	Niradeoghar	Godavari	114.48	2002	2010	337.39	ND	-	10.80	-	ND	-	-
215	Maharashta	Paldhag	Tapi	88.27	1978	2016	9.14	ND	-	14.51	-	ND	-	-
216	Maharashta	Panshet	Ambi	120.30	1968	2007	310.62	28.43	9.15	8.32	36.44	0.23	-	6.06
217	Maharashta	Panzara	Tapi	215.14	1994	2017	43.41	ND	-	23.69	-	ND	-	-
218	Maharashta	Powai	Local nala	6.61	1890	1996	5.45	1.06	19.45	-	-	0.18	-	1.51
219	Maharashta	Punegaon	Godavari	66.00	2002	2014	20.39	ND	-	7.97	-	ND	-	-
220	Maharashta	Radhnagri	Bhogavati	108.80	1908	2011	236.79	27.97	11.81	7.68	65.81	0.11	-	2.50
221	Maharashta	Ramsagar	Sur	212.35	1914	1987	117.18	14.78	12.61	-	-	0.17	0.21	0.95
222	Maharashta	Renapur	Godavari	272.00	2000	2014	21.69	ND	-	11.77	-	ND	-	-
223	Maharashta	Siddheshwar	Purna	440.00	1963	2007	250.71	ND	-	2.09	-	ND	-	-
224	Maharashta	Sina	Krishna	1,582.00	1985	2014	67.95	ND	-	37.78	-	ND	-	-
225	Maharashta	Sirpur	Bagh	432.53	1972	2007	203.84	ND	-	17.33	-	ND	-	-
226	Maharashta	Surya	South Tapi	203.30	1990	2016	285.31	ND	-	35.27	-	ND	-	-
227	Maharashta	Tembhapuri	Godavari	283.86	2006	2018	21.26	ND	-	-6.52	-	ND	-	-
228	Maharashta	Temghar	Mutha	37.70	1997	2010	70.71	ND	-	8.13	-	ND	-	-
229	Maharashta	Tisgaon	Godavari	97.00	1999	2014	15.46	ND	-	15.54	-	ND	-	-
230	Maharashta	Totladoh	Pench	4,273.00	1982	2009	1,241.11	ND	-	6.68	-	ND	-	-
231	Maharashta	Tulshi	Tulshi	34.92	1978	2011	98.29	-3.81	-3.88	-1.35	-40.35	-0.12	-	-3.31
232	Maharashta	Uma	Tapi	129.76	1983	2016	14.01	ND	-	-15.85	-	ND	-	-
233	Maharashta	Upperwardha	Wardha	4,302.00	1993	2011	802.98	47.49	5.91	5.63	6.83	0.33	0.64	0.61
234	Maharashta	Varasgaon	Musa	130.00	1986	2007	375.36	2.12	0.57	0.54	1.36	0.03	-	0.78
235	Maharashta	Vir	Nira	1,756.00	1965	2008	278.50	39.36	14.13	11.36	74.37	0.33	-	0.52
236	Maharashta	Visapur	Hanga	412.59	1927	1988	37.63	12.42	33.01	-	-	0.54	0.36	0.49
237	Maharashta	Waghad	Kolvan	119.00	1978	2011	75.10	7.38	9.83	8.00	40.24	0.30	-	1.88
238	Maharashta	Wandri	South Tapi	28.53	1984	2016	37.11	ND	-	19.25	-	ND	-	-
239	Maharashta	Warna	Warna	301.00	1984	2003	974.19	49.15	5.05	1.91	17.57	0.27	-	8.59
240	Maharashta	Yeldari	Puma	7,329.70	1968	2011	934.44	134.34	14.38	8.15	54.81	0.33	0.36	0.43

241	Maharashtra	Yeralwadi	Krishna	766.84	1978	2014	33.24	ND	-	13.46	-	ND	-	-
242	Meghalaya	Kyrdem Kulai	Umtru	150.00	1983	2002	-	ND	-	10.73	-	ND	-	-
243	Meghalaya	Umiam	Umiam	220.00	1965	2004	179.76	20.55	11.43	5.01	37.77	0.29	1.78	2.40
244	Odisha	Balimela	Machkund	4,908.00	1972	1999	3,610.00	282.50	7.83	5.21	15.32	0.29	10.46	2.13
245	Odisha	Harabhangi	Harabhangi	503.80	1998	2012	141.25	ND	-	-0.41	-	ND	-	-
246	Odisha	Hirakud	Mahanadi	83395	1957	2000	8,105.00	2,210.21	27.27	17.47	52.57	0.63	0.25	0.62
247	Odisha	Kalo	Kalo	153.00	1981	2016	29.39	ND	-	12.85	-	ND	-	-
248	Odisha	Machhkund	Machhkund	1,955.00	1955	2002	970.50	ND	-	-6.91	-	ND	-	-
249	Odisha	Nesa	Nesa	25.00	1981	-	7.86	ND	-	10.23	-	ND	-	-
250	Odisha	Ramial	Ramial	328.00	1985	2007	86.00	ND	-	5.88	-	ND	-	-
251	Odisha	Rengali	Rengali	25250	1982	2006	4,494.77	745.02	16.58	10.71	37.38	0.69	-	1.23
252	Odisha	Salandi	Salandi	673.00	1982	2009	565.00	ND	-	6.81	-	ND	-	-
253	Odisha	Sunei	Sunei	227.00	1991	2007	70.00	ND	-	3.41	-	ND	-	-
254	Odisha	Upper Indravati	Upper Indravati	2,636.00	1989	2007	2,307.71	ND	-	-1.93	-	ND	-	-
255	Odisha	Upper Kolab	Kolab	1,630.00	1986	2011	1,215.00	141.05	11.61	8.11	23.30	0.46	-	3.46
256	Rajasthan	Bisalpur	Banas	27,726.00	1994	2009	1,095.94	ND	-	9.11	-	ND	-	-
257	Rajasthan	Gudha	Mej	744.96	1958	2007	95.57	ND	-	26.93	-	ND	-	-
258	Rajasthan	Jakham	Jakham	1,010.00	1986	2003	142.02	ND	-	-32.64	-	ND	-	-
259	Rajasthan	Jawai	Jawai	720.00	1957	2009	207.50	ND	-	-1.71	-	ND	-	-
260	Rajasthan	Mahi Bajaj Sagar	Mahi	6,149.00	1983	2005	2,180.00	ND	-	7.70	-	ND	-	-
261	Rajasthan	Parbati	Parbati	786.00	1963	2003	115.23	ND	-	16.03	-	ND	-	-
262	Rajasthan	Ramsagar	Bamani	176.00	1905	2003	30.83	ND	-	16.09	-	ND	-	-
263	Rajasthan	Ranapratap Sagar	Chambal	25,305.00	1970	2011	3,128.11	238.59	7.63	0.00	16.89	0.19	-	0.23
264	Rajasthan	Urmila Sagar	Babudhen	77.70	1905	2004	16.22	ND	-	2.97	-	ND	-	-
265	Sikkim	Rangit-III	Rangit	979	2000	2018	1.79	1.10	61.45	42.74	96.77	3.41	-	0.06
266	Sikkim	Teesta-V	Teesta	4307	2008	2018	13.52	4.22	31.21	11.31	32.32	3.12	1.39	0.10
267	Tamil Nadu	Adavinainar	Hanumannathi	15.54	2003	2010	4.928	0.09	1.79	1.79	-	0.26	-	0.81
268	Tamil Nadu	Aliyar	Aliyar	195.00	1962	2004	112.75	9.34	8.28	-	-	0.20	-	1.14
269	Tamil Nadu	Amravathy	Amravathy	839.16	1958	2013	117.16	22.58	19.27	-	-	0.35	-	0.49
270	Tamil Nadu	Anaikuttam	Arjuna	795.27	1990	2014	3.60	0.34	9.52	5.59	100.00	0.40	-	0.02
271	Tamil Nadu	Anaimaduvu	Anaimaduvu	145.02	1993	2013	7.56	0.31	4.14	-	-	0.21	-	0.11

272	Tamil Nadu	Barur Tank	Pannaiyar	35.07	1919	1986	7.04	0.18	2.56	-	-	0.04	-	0.08
273	Tamil Nadu	Berijam	-	7.77	1911	1987	2.20	0.39	17.81	17.81	-	0.23	-	0.66
274	Tamil Nadu	Bhavanisagar	Bhavani	4,134.50	1953	2006	928.90	193.08	20.79	20.03	53.17	0.39	-	0.88
275	Tamil Nadu	Chittar-I	Chittar	22.01	1970	1997	17.28	2.85	16.49	0.00	46.34	0.61	-	4.80
276	Tamil Nadu	Chittar-II	Chittar	26.16	1972	2010	28.59	5.93	20.74	0.00	51.16	0.55	-	5.97
277	Tamil Nadu	EmeraldAvalanchi	Kundah	58.53	1961	2000	156.75	7.18	4.58	-	-	0.12	-	3.14
278	Tamil Nadu	Gadana	Gadana	46.46	1971	2003	9.97	1.84	18.49	18.49	-	0.58	-	1.24
279	Tamil Nadu	Glenmorgan (FB)	Glenmorgan Stream	12.43	1976	1998	5.85	2.30	39.32	39.32	-	1.79	-	8.41
280	Tamil Nadu	Glenmorgan (Kariappa)	Glenmorgan Stream	2.59	1930	2013	0.74	0.04	5.41	5.41	-	0.07	-	0.19
281	Tamil Nadu	Gomukhinathi	Gomukhi (Vellar)	292.67	1965	2002	15.86	2.91	18.37	-	-	0.50	-	0.27
282	Tamil Nadu	Gunderipallam	Gunderipallam	72.23	1979	2010	3.06	0.30	9.80	-	-	0.32	-	0.13
283	Tamil Nadu	Kadamba Tank	Thamirabarani	-	1904	2005	9.58	0.25	2.62	2.62	-	0.03	-	-
284	Tamil Nadu	Kamraj Sagar	Kundah	44.04	1963	2002	26.62	6.83	25.66	14.37	-	0.66	-	3.98
285	Tamil Nadu	Kaveripakkam	Palar	157.99	1902	1996	41.73	4.80	11.50	-	-	0.12	-	0.32
286	Tamil Nadu	Kodaganar	Kodaganar	1,670.00	1977	2007	12.29	2.16	17.53	17.53	-	0.58	-	0.04
287	Tamil Nadu	Krishnagiri	Ponnaiyar	5,428.00	1957	2006	68.20	28.50	41.79	-	-	0.85	-	0.11
288	Tamil Nadu	Kundah	Kundah	113.96	1960	1982	1.76	1.11	63.07	58.33	100.00	2.87	-	0.44
289	Tamil Nadu	Kuthiraiyar	Kuthiraiyar	71.40	1990	2002	7.36	0.05	0.68	-	-	0.06	-	0.06
290	Tamil Nadu	Madhuranthagam	Killivaru	34.82	1798	2005	17.25	1.17	6.78	-	-	0.03	-	0.16
291	Tamil Nadu	Manimukthanadi	Manimuktha	478.72	1970	2012	20.88	2.60	12.47	-	-	0.30	-	0.13
292	Tamil Nadu	Manimuthar	Thamirabarani	161.62	1958	2006	159.73	10.29	6.44	6.30	-	0.13	-	1.33
293	Tamil Nadu	Manjalar	Manjalar	119.14	1967	2009	13.76	4.31	31.34	31.34	-	0.75	-	0.86
294	Tamil Nadu	Manodai	Cauvery	21.42	1962	1986	2.47	0.16	6.57	-	-	0.27	-	0.32
295	Tamil Nadu	Maravakandy	Pykara	20.72	1947	2004	0.96	0.35	36.60	26.03	100.00	0.64	-	0.30
296	Tamil Nadu	Marudhanadhi	Marudhanathi	53.32	1979	2010	5.34	0.41	7.70	3.62	100.00	0.25	-	0.25
297	Tamil Nadu	Mettur	Cauvery	42,200.00	1934	2004	2,708.76	714.57	26.38	-	-	0.38	-	0.24
298	Tamil Nadu	Mukurthy	Pykara	25.25	1938	2006	50.98	18.99	37.25	36.92	100.00	0.55	-	11.06
299	Tamil Nadu	Nagavathy	Nagavathy	105.36	1985	2012	4.65	0.48	10.25	-	-	0.38	-	0.17
300	Tamil Nadu	Palar Poranthalar	Palar and Poranthalar	259.00	1978	2000	43.19	1.56	3.61	-	-	0.16	-	0.27
301	Tamil Nadu	Pambar	Pambar	1,736.00	1983	2013	7.93	0.39	4.92	-	-	0.16	-	0.01
302	Tamil Nadu	Parambikulam	Parambikulam	230.50	1967	2013	504.66	62.36	12.36	-	-	0.27	-	5.88

303	Tamil Nadu	Parappalar	Nangangi	72.88	1974	2003	5.61	1.59	28.27	28.27	-	0.97	-	0.75
304	Tamil Nadu	Parson' Valley	Kundah	14.50	1966	1995	19.25	8.25	42.86	36.01	100.00	1.48	-	19.62
305	Tamil Nadu	Pechipparai	Kodayar	172.00	1971	2013	150.27	43.50	28.94	13.35	100.00	0.69	-	6.02
306	Tamil Nadu	Pegumbahalla	Kundah	41.44	1966	1982	1.07	0.44	41.12	38.83	100.00	2.57	-	0.66
307	Tamil Nadu	Perumal Tank	Paravahar	504.59	1961	1998	17.77	2.78	15.65	-	-	0.42	-	0.15
308	Tamil Nadu	Perumpallam	Perumpallam Odai	44.53	1990	2012	3.28	0.13	4.09	-	-	0.19	-	0.14
309	Tamil Nadu	Perunchani	Kodayar	160.27	1953	2012	65.03	-4.07	-6.26	-	-	-0.11	-	-0.43
310	Tamil Nadu	Pillavukkal Periyar	Periyar	36.00	1976	2013	5.44	0.26	4.86	4.86	-	0.13	-	0.20
311	Tamil Nadu	Pillur	Bhavani	1,191.40	1967	2013	44.40	18.49	41.64	25.91	100.00	0.91	-	0.34
312	Tamil Nadu	Ponnaniyar	Ponnaniyar	87.02	1974	1995	3.39	1.08	31.90	31.90	-	1.52	-	0.59
313	Tamil Nadu	Porthimund	Kundah	10.55	1966	1996	60.00	12.11	20.18	0.00	84.84	0.67	-	38.25
314	Tamil Nadu	Pykara	Pykara	38.10	1954	2010	56.70	21.53	37.97	35.49	100.00	0.68	-	10.09
315	Tamil Nadu	Sathanur	Ponnaniyar	10,826.10	1957	1982	234.83	27.53	11.72	-	-	0.47	-	0.10
316	Tamil Nadu	Sathiyarar	Sathiyarar	95.71	1965	2010	1.59	0.46	28.81	15.37	100.00	0.64	-	0.11
317	Tamil Nadu	Sholayar	Sholayar	121.68	1972	2007	152.48	ND	-	6.10	-	ND	-	-
318	Tamil Nadu	Thirumurthy	Palar	80.29	1967	2009	54.80	7.00	12.77	-	-	0.30	-	2.07
319	Tamil Nadu	Thoppiyar	Thoppiyar	276.90	1987	2012	8.46	0.50	5.92	-	-	0.24	-	0.07
320	Tamil Nadu	Thunakadavu	Thunakadavu	43.36	1965	2013	15.76	2.61	16.56	-	-	0.35	-	1.25
321	Tamil Nadu	Uppar Dam	Uppar	903.56	1968	1995	16.20	6.91	42.63	-	-	1.58	-	0.28
322	Tamil Nadu	Upper Bhawani	Bhavani	33.57	1965	1985	101.20	3.72	3.68	0.00	23.25	0.18	-	5.54
323	Tamil Nadu	Vaigai	Vaigai	2,255.13	1958	2012	194.79	32.07	16.46	15.83	100.00	0.30	-	0.26
324	Tamil Nadu	Vaniyar	Vaniyar	107.76	1983	2010	11.84	0.69	5.79	-	-	0.21	-	0.24
325	Tamil Nadu	Varadamanathi	Varadamanathi	74.07	1978	1998	3.06	-0.08	-2.61	-	-	-0.13	-	-0.05
326	Tamil Nadu	Varattupallam	Varattupallam	66.82	1980	2010	3.94	0.28	7.11	-	-	0.24	-	0.14
327	Tamil Nadu	Veeranam	Coleroon	427.35	1923	1991	40.81	13.06	32.01	-	-	0.47	-	0.45
328	Tamil Nadu	Vembakottai	Vaippar	1,593.55	1989	2013	11.29	1.12	9.94	9.82	100.00	0.41	-	0.03
329	Tamil Nadu	Vidur	Varahanadi	1,298.00	1959	2009	17.73	3.09	17.44	-	-	0.35	-	0.05
330	Tamil Nadu	Wallajah	Vellar	191.58	1923	1997	2.57	0.90	34.93	-	-	0.47	-	0.06
331	Tamil Nadu	Wellington	Vellar	2,849.50	1924	1991	71.46	19.43	27.19	-	-	0.41	-	0.10
332	Telangana	Dindi	Dindi	3,919.96	1943	1976	73.83	2.21	2.99	-	-	0.09	-	0.02
333	Telangana	Himayatsagar	Easa	1,307.94	1927	1976	107.79	28.63	26.56	-	-	0.54	-	0.45
334	Telangana	Kaddam	Kaddam	2,656.25	1958	1977	124.43	46.25	37.17	-	-	1.96	-	0.92

335	Telangana	Kinnersani	Kinnerasani	1,332.55	1966	2010	237.82	ND	-	15.61	-	ND	-	-
336	Telangana	Lakhamvaram Lake	Lakhamvaram	268.06	1909	1975	60.42	18.84	31.18	-	-	0.47	-	1.06
337	Telangana	Manjira	Manjira	16,770.25	1966	1977	50.94	18.74	36.79	-	-	3.34	-	0.10
338	Telangana	Musi	Musi	9,090.00	1963	2013	136.94	ND	-	8.05	-	ND	-	-
339	Telangana	Nagarjuna Sagar	Krishna	2,15,185.00	1967	2009	11,553.00	2,716.96	23.52	11.66	40.73	0.56	0.22	0.30
340	Telangana	Nizamsagar	Manjara	21,694.00	1930	1992	841.18	508.66	60.47	-	-	0.98	0.24	0.38
341	Telangana	Palair	Palair	1,686.71	1928	1977	56.56	1.21	2.14	-	-	0.04	-	0.01
342	Telangana	Pocharam	Aliaru	673.40	1922	1978	16.85	3.78	22.45	-	-	0.40	-	0.10
343	Telangana	Priyadarshini Jurala	Krishna	82,471.00	1996	2012	338.10	64.66	19.13	12.38	28.02	1.20	-	0.05
344	Telangana	Ramappa	Godavari	183.81	1919	1975	82.48	2.66	3.23	-	-	0.06	-	0.26
345	Telangana	Shanigram tank	Siddipet	321.00	1891	1972	29.08	2.95	10.14	-	-	0.13	-	0.11
346	Telangana	Sriram Sagar	Godavari	54,054.00	1970	2013	3,171.94	903.67	28.49	-	-	0.66	0.36	0.39
347	Telangana	Wyra	Wyra	709.66	1929	1977	24.66	9.78	39.66	-	-	0.83	-	0.29
348	Tripura	Gumti	Gumti	338.00	1984	2003	328.40	ND	-	20.40	-	ND	-	-
349	Uttar Pradesh	Dhukwan	Betwa	21,340.00	1907	1980	106.45	47.42	44.55	-	-	0.61	0.04	0.03
350	Uttar Pradesh	Jamni	Jamni	410.00	1973	2010	92.87	ND	-	-5.35	-	ND	-	-
351	Uttar Pradesh	Matatila	Betwa	20,720.00	1956	1999	1,132.70	430.37	38.00	-	-	0.88	0.13	0.48
352	Uttar Pradesh	Pili	Pili	162.00	1962	2011	55.27	16.07	29.07	27.78	100.00	0.59	-	2.02
353	Uttar Pradesh	Rajghat	Betwa	16,317.00	2002	2004	2,205.00	ND	-	0.20	-	ND	-	-
354	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
355	Uttar Pradesh	Sirsi	Sirsi	601.00	1958	2013	195.64	ND	-	16.33	-	ND	-	-
356	Uttarakhand	Baigul	Baigul	302	1968	2005	86.68	21.26	24.53	16.51	100.00	0.66	-	1.90
357	Uttarakhand	Dhauliganga	Dhauliganga	1360	2005	2018	6.2	2.80	45.16	27.19	64.33	3.47	-	0.16
358	Uttarakhand	Dhora	Dhora	134.68	1962	2005	54.809	11.20	20.43	15.78	82.47	0.48	-	1.93
359	Uttarakhand	Ichari	Tons	4913	1966	2003	11.55	5.46	47.27	47.27	ND	1.28	-	0.03
360	Uttarakhand	Nanaksagar	Deoha	570	1962	2008	209.8	29.30	13.97	12.43	47.10	0.30	-	1.12
361	Uttarakhand	Ramganga (Kalagarh)	Ramganga	3134	1974	2008	2590.72	134.25	5.18	-2.94	50.30	0.15	0.43	1.26
362	Uttarakhand	Sarda Sagar	Sarda	127.00	1962	2009	493.16	116.03	23.53	15.64	45.92	0.50	-	19.44
363	Uttarakhand	Tanakpur	Sharda	15100	1992	2018	5.96	1.91	32.05	-	-	1.23	-	0.00
364	Uttarakhand	Tehri Dam	Bhagirathi	7511	2005	2008	3548.512	21.01	0.59	0.59	0.60	0.20	-	0.93
365	West Bengal	Durgapur Barrage	Damodar	2,295.00	1955	2011	11.85	5.41	45.68	35.43	56.56	0.82	-	0.04

366	West Bengal	Kangsabati	Kangsabati	3,626.00	1965	2006	1,053.65	111.72	10.60	8.16	28.21	0.26	-	0.75
367	West Bengal	Kumari	Kangsabati	2,020.00	1975	2005	544.65	ND	-	5.21	-	ND	-	-
368	West Bengal	TLDP-III	Teesta	7755	2013	2016	18.36	7.19	39.16	5.44	59.03	13.05	-	0.31
369	West Bengal	TLDP-IV	Teesta	8021	2016	2018	36.63	15.41	42.07	2.41	52.98	21.03	-	0.96

APPENDIX-II (ABSTRACT OF ALL RESERVOIRS)

CUMBUM TANK

State: Andhra Pradesh	District : Prakasam	River: Gundukarmma
Year of 1st Impoundment: : 1956	MDDL: N.A	FRL: 203.2m
Year of Last Survey: 1978	Catchment Area: 993.00 Sq.km	Latitude: 15.58
Longitude: 79.08	Reservoir Area at FRL: NA	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1956	-	-	105.76	-	-	-	-	-
2	1978	St. Govt (HS)	22	84.15	-	-	21.61	21.61	20.43

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 22 Years (Th.Cum/SqKm/yr)
1	1956	-	63	-	0.99
2	1978	22		0.99	

MYLAVARAM

State: Andhra Pradesh	District: Kadapa	River: Pennar
Year of 1st Impoundment: 1985	MDDL: NA	FRL: 202.65 m
Year of Last Survey: 2009	Catchment Area: 49,717.28 Sq. km	Latitude: 14.85
Longitude: 78.34	Reservoir Area at FRL: 41.00 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity(M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1985	-	-	283.00	253.48	29.52	-	-	-
2	2009	CWC (RS)	24	-	215.60	-	37.88	37.88	14.94

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 24 Years (Th.Cum/SqKm/yr)
1	1985	-	34	-	0.032*-
2	2009	24			

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

SRISAILAM

State: Andhra pradesh	District: Kurnool	River: Krishna
Year of 1st Impoundment: 1976	MDDL: 243.84 m	FRL: 269.75 m
Year of Last Survey: 2011	Catchment Area: 206030.00 Sq.km	Latitude: 16.09
Longitude: 78.90	Reservoir Area at FRL: 616.42 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity(M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1976	CWC (HS)	-	8724.88	7167.196	1557.684	-	-	-
2	1989	CWC (RS)	13	-	5505.85	-	-	-	-
3	1998	-do-	9	-	5152.05	-	-	-	-
4	2001	CWC (HS)	3	6245.282	5133.602	1111.68	2479.60	2479.60	28.42
5	2006	-do-	5	6632.93	-	-	-387.65	2091.95	23.98
6	2011	-do-	5	6110.907	-	-	522.02	2613.97	29.96

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 35 Years (Th.Cum/SqKm/yr)
1	1976	-	43	-	0.36
2	1989	13		-	
3	1998	9		-	
4	2001	3		0.48	
5	2006	5		-	
6	2011	5		0.51	

THANDAVA

State: Andhra Pradesh	District : Visakhapatnam	River: Thandava
Year of 1st Impoundment: 1975	MDDL: 108.20 m	FRL: 115.82 m
Year of Last Survey: 2013	Catchment Area: 448.00 Sq.km	Latitude: 17.65
Longitude: 82.46	Reservoir Area at FRL: N.A	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1975	-	-	140.50	124.64	15.86	-	-	-
2	2013	CWC (RS)	38	-	108.79	-	15.85	15.85	12.72

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 38 Years (Th.Cum/SqKm/yr)
1	1975	-	44	-	0.931*
2	2013	38		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

VAMSADHARA ST 1

State: Andhra Pradesh	District : Srikakulam	River: Vamsadhara
Year of 1st Impoundment: : 1977	MDDL: 34.44m	FRL: 136.1m
Year of Last Survey: 2004	Catchment Area: 9731.00 Sq.km	Latitude: 18.69
Longitude: 83.96	Reservoir Area at FRL: N.A	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1977	-	-	-	18.742	-	-	-	-
2	2004	CWC (RS)	27	-	7.229	-	11.51	11.51	61.41

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 27 Years (Th.Cum/SqKm/yr)
1	1977	-	42	-	0.044*
2	2004	27		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

YERRACALVA

State: Andhra Pradesh	District : West Godavari	River: Yerracalva
Year of 1st Impoundment: : 1988	MDDL: 34.44m	FRL: 136.1m
Year of Last Survey: 2013	Catchment Area: 1085 Sq.km	Latitude: 17.10
Longitude: 81.24	Reservoir Area at FRL: N.A	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity(M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1988	-	-	-	59.68	-	-	-	-
2	2013	CWC (RS)	25	-	56.52	-	3.16	3.16	5.29

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 25 Years (Th.Cum/SqKm/yr)
1	1988	-	31	-	0.116*
2	2013	25		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

RANGANADI

State: Arunanchal Pradesh	District : Lower Subansiri	River: Ranganadi (Panior)
Year of 1st Impoundment:: 2002	MDDL: 560.0m	FRL: 567.0 m
Year of Last Survey: 2017	Catchment Area: 1894.00 Sq.km	Latitude: 27.34
Longitude: 93.82	Reservoir Area at FRL: 0.91Sq.km	

Survey Details

S. No .	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	2002	-	-	21.28	5.7	15.58	-	-	-
2	2016	St.Govt. (HS)	14	5.81	3.86	1.95	15.47	15.47	72.70
2	2017	-do-	1	5.48	3.8	1.68	0.33	15.80	74.25

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 15 Years (Th.Cum/SqKm/yr)
1	2002	-	17	-	0.556
2	2016	14		0.583	
3	2017	1		0.556	

BADUA

State: Bihar	District: Banka	River: Badua
Year of 1st Impoundment: 1965	MDDL: 112.78 m	FRL: 128.63 m
Year of Last Survey: 2008	Catchment Area: 480.70 Sq. km	Latitude: 24.88
Longitude: 86.63	Reservoir Area at FRL: 11.42 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1965	-	-	129.245	109.656	19.589	-	-	-
2	2006	CWC (HS)	41	113.432	99.557	13.875	15.81	15.81	12.23
3	2008	CWC (RS)	2	-	102.11	-	-	-	-

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 41 Years (Th.Cum/SqKm/yr)
1	1965	-	54	-	0.802
2	2006	41		0.802	
3	2008	2		-	-

CHANDAN

State: - Bihar	District: Banka	River: Chandan
Year of 1st Impoundment: 1967	MDDL: N.A	FRL: N.A
Year of Last Survey: 2004	Catchment Area: 549.00 Sq. km	Latitude: 24.67
Longitude: 86.92	Reservoir Area at FRL: 108.10 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity(M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1967	-	-	146.07	124.58	21.49	-	-	-
2	2004	CWC (RS)	37	-	59.5	-	65.08	65.08	52.24

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 37 Years (Th.Cum/SqKm/yr)
1	1967	-	52	-	3.204*
2	2004	37		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

DUDHAWA

State: Chhattisgarh	District: Dhamtari	River: Mahanadi
Year of 1st Impoundment: 1963	MDDL: 409.92 m	FRL: 425.10 m
Year of Last Survey: 2011	Catchment Area: 625.27 Sq. km	Latitude: 20.30
Longitude: 81.76	Reservoir Area at FRL: 44.87 Sq. km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1963	-	-	288.65	284.12	4.53	-	-	-
2	2003	CWC (RS)	40	-	284.13	-	-	-	-
3	2011	CWC (HS)	8	260.132	259.100	1.032	28.518	28.518	9.88

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 48 Years (Th.Cum/SqKm/yr)
1	1963	-	56	-	0.950
2	2003	40		-	
3	2011	8		0.950	

KHARKHARA

State: Chhattisgarh	District: Rajnandgaon	River: Kharkhara
Year of 1st Impoundment: 1967	MDDL: NA	FRL: 333.80 m
Year of Last Survey: 2010	Catchment Area: 371.66 Sq. km	Latitude: 20.80
Longitude: 80.97	Reservoir Area at FRL: 24.29 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity(M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1967	-	-	167.83	137.79	30.04	-	-	-
2	2010	CWC (RS)	43	-	133.40	-	4.39	4.39	3.19

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 43 Years (Th.Cum/SqKm/yr)
1	1967	-	52	-	0.275*
2	2010	43		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

KODAR

State: Chhattisgarh	District: Mahasamund	River: Kodar Nallah
Year of 1st Impoundment: 1980	MDDL: NA	FRL: 295.24 m
Year of Last Survey: 2009	Catchment Area: 317.17 Sq. km	Latitude: 21.18
Longitude: 82.21	Reservoir Area at FRL: 13.88 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1980	-	-	160.35	149.02	11.33	-	-	-
2	2009	CWC (RS)	29	-	125.28	-	23.74	23.74	15.93

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 29 Years (Th.Cum/SqKm/yr)
1	1980	-	39	-	2.581*
2	2009	29		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

MANIYARI

State: Chhattisgarh	District: Mungeli	River: Maniyari
Year of 1st Impoundment: 1930	MDDL: NA	FRL: 358.14 m
Year of Last Survey: 2009	Catchment Area: 854.00 Sq. km	Latitude: 22.40
Longitude: 81.59	Reservoir Area at FRL: 25.27 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1930	-	-	151.26	147.70	3.56	-	-	-
2	2009	CWC (RS)	79	-	100.24	-	47.46	47.46	32.13

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 79 Years (Th.Cum/SqKm/yr)
1	1930	-	89	-	0.703*
2	2009	79		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

MINIMATA BANGO

State: Chhattisgarh	District: Korba	River: Hasdeo
Year of 1st Impoundment: 1990	MDDL: 329.79 m	FRL: 359.66 m
Year of Last Survey: 2005	Catchment Area: 6730.00 Sq. km	Latitude: 22.60
Longitude: 82.59	Reservoir Area at FRL: 184.99 sq. Km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1990	-	-	3,416.00	3,045.81	370.19	-	-	-
2	2001	CWC (HS)	11	3,365.79	3,024.27	341.52	50.21	50.21	1.47
3	2005	CWC (RS)	4	-	2894.331	-	-	-	-

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 11 Years (Th.Cum/SqKm/yr)
1	1990	-	29	-	0.678
2	2001	11		0.678	
3	2005	4		-	-

RAVI SHANKAR

State: Chhattisgarh	District: Dhamtari	River: Mahanadi
Year of 1st Impoundment: 1979	MDDL: 336.21 m	FRL: 348.70 m
Year of Last Survey: 2014	Catchment Area: 3670.00 Sq. km	Latitude: 20.61
Longitude: 81.56	Reservoir Area at FRL: 95.17 sq. Km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1979	-	-	909.32	766.32	143.00	-	-	
2	2003	CWC (HS)	24	881.12	757.12	124.00	28.2	28.2	3.10
3	2014	CWC (RS)	11	-	744.783	-	-	-	-

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 24 Years (Th.Cum/SqKm/yr)
1	1979	-	40	-	0.320
2	2003	24		0.320	
3	2014	11		-	-

SIKASAR

State: Chhattisgarh	District: Gariaband	River: Pairi
Year of 1st Impoundment: 1977	MDDL: NA	FRL: 406.39 m
Year of Last Survey: 2003	Catchment Area: 497.00 Sq. km	Latitude: 20.52
Longitude: 82.32	Reservoir Area at FRL: 252.40 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1977	-	-	216.50	198.81	17.69	-	-	-
2	2003	CWC (RS)	26	-	182.98	-	15.83	15.83	7.96

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 26 Years (Th.Cum/SqKm/yr)
1	1977	-	42	-	1.225*
2	2003	26		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

SONDUR

State: Chhattisgarh	District: Dhamtari	River: Sondur
Year of 1st Impoundment: 1988	MDDL: NA	FRL: 471.67 m
Year of Last Survey: 2003	Catchment Area: 518.00 Sq. km	Latitude: 20.22
Longitude: 82.10	Reservoir Area at FRL: 24.16 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity(M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1988	-	-	198.10	179.61	18.49	-	-	-
2	2003	CWC (RS)	15	-	134.79	-	44.82	44.82	24.95

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 15 Years (Th.Cum/SqKm/yr)
1	1988	-	31	-	5.768*
2	2003	15		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

TANDULA

State: Chhattisgarh	District: Balod	River: Tandula
Year of 1st Impoundment: 1920	MDDL: NA	FRL: NA
Year of Last Survey: 2016	Catchment Area: 818.00 Sq. km	Latitude: 20.68
Longitude: 81.17	Reservoir Area at FRL: NA	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity(M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1920	-	-	312.18	302.31	9.87	-	-	-
2	2016	CWC (RS)	96	-	293.20	-	9.11	9.11	3.01

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 15 Years (Th.Cum/SqKm/yr)
1	1920	-	99	-	0.116*
2	2016	96		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

SALAULIM

State: Goa	District : South Goa	River: Sanguem
Year of 1st Impoundment: 1990	MDDL: 20.42 m	FRL: 41.15 m
Year of Last Survey: 2011	Catchment Area: 209.0 Sq.km	Latitude: 15.2
Longitude : 74.2	Reservoir Area at FRL: 29.64 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1990	-	-	234.36	227.16	7.2	-	-	-
2	2011	CWC (HS)	21	192.68	190.85	1.822	41.68	41.68	17.78

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 21 Years (Th.Cum/SqKm/yr)
1	1990	-	29	-	9.496
2	2011	21		9.496	

AJWA

State: Gujarat	District: Vadodara	River: Surya Rivulet
Year of 1st Impoundment: 1891	MDDL: 175.77 m	FRL: 189.59 m
Year of Last Survey: 1987	Catchment Area: 177.30 Sq. km	Latitude: 22.38
Longitude: 73.39	Reservoir Area at FRL: 14.00 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity(M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1891	-	-	62.7	-	-	-	-	-
2	1987	St.Govt (HS)	96	54.99	-	-	7.71	7.71	12.30

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 96 Years (Th.Cum/SqKm/yr)
1	1891	-	128	-	0.453
2	1987	96		0.453	

BHADAR (P)

State: Gujarat	District : Panchmahal	River: Bhadar
Year of 1st Impoundment: 1983	MDDL: 110.95 m	FRL: 123.72 m
Year of Last Survey: 2009	Catchment Area: 407 Sq.km	Latitude: 21.81
Longitude: 70.81	Reservoir Area at FRL: 5.07 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1983	-	-	46.72	39.9	6.82	-	-	-
2	1995	St. Govt (HS)	12	35.71	31.92	3.79	11.01	11.01	23.57
3	1999	-do-	4	32.17	29.28	2.89	3.54	14.55	31.14
4	2009	-do-	10	30.95	29.174	1.776	1.22	15.77	33.75

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 26 Years (Th.Cum/SqKm/yr)
1	1983	-	36	-	1.490
2	1995	12		2.254	
3	1999	4		2.174	
4	2009	10		0.300	

BHADAR(S)

State: Gujarat	District : Rajkot	River: Bhadar
Year of 1st Impoundment: 1964	MDDL: 97.56 m	FRL: 107.9 m
Year of Last Survey: 2004	Catchment Area: 2406.0 Sq.km	Latitude: 21.76
Longitude: 70.42	Reservoir Area at FRL: 44.0 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1964	-	-	237.86	223.7	14.16	-	-	-
2	2002	CWC (RS)	38	-	191.74	-	-	-	-
3	2004	St. Govt (HS)	2	146.31	145.98	0.33	91.55	91.55	38.49

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 40 Years (Th.Cum/SqKm/yr)
1	1964	-	55	-	0.951
2	2002	38		-	
3	2004	2		0.951	

BHIMDAD

State: Gujarat	District : Bhavnagar	River: Madhu
Year of 1st Impoundment: 1953	MDDL: NA	FRL: 104.85 m
Year of Last Survey: 1986	Catchment Area: 109.82 Sq.km	Latitude: 22.08
Longitude: 71.57	Reservoir Area at FRL: 3.5 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1953	-	-	11.19	-	-	-	-	-
2	1974	St. Govt (HS)	21	10.01	-	-	1.18	1.18	10.55
3	1986	-do-	12	6.69	-	-	3.32	3.50	40.21

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 33 Years (Th.Cum/SqKm/yr)
1	1953	-	66	-	1.242
2	1974	21		0.512	
3	1986	12		2.519	

BRAMANI

State: Gujarat	District : Surendra Nagar	River: Bramani
Year of 1st Impoundment: 1953	MDDL: NA	FRL: 64.82m
Year of Last Survey: 1986	Catchment Area: 699.27 Sq.km	Latitude: 22.89
Longitude: 71.14	Reservoir Area at FRL: 19.14 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1953	-	-	74.95	-	-	-	-	-
2	1986	St. Govt (HS)	33	58.33	-	-	16.62	16.62	22.17

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 33 Years (Th.Cum/SqKm/yr)
1	1953	-	66	-	0.720
2	1986	33		0.720	

CHOPADVAV

State: Gujarat	District : Narmada	River: Doman
Year of 1st Impoundment: 1985	MDDL: 176.4m	FRL: 186.3m
Year of Last Survey: 1998	Catchment Area: 27.00 Sq.km	Latitude: 21.54
Longitude: 73.75	Reservoir Area at FRL: 1.72Sq.km	

Findings from Survey

S. No	Year of Survey	Source of data	Period (years)	Reservoir Capacity(M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1985	-	-	10.15	9.4	0.75	-	-	
2	1998	St. Govt (HS)	13	5.692	5.452	0.24	4.46	4.46	43.94

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 13 Years (Th.Cum/SqKm/yr)
1	1985	-	34	-	12.707
2	1998	13		12.707	

DAMANGANGA

State: Gujarat	District : Valsad	River: Damanganga
Year of 1st Impoundment: 1983	MDDL: 61.6 m	FRL: 79.86 m
Year of Last Survey: 2008	Catchment Area: 1813 Sq.km	Latitude: 20.34
Longitude : 72.91	Reservoir Area at FRL: 51.44 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1983	-	-	567	502	65	-	-	-
2	1992	St. Govt (HS)	9	558.04	492.26	65.78	8.96	8.96	1.58
3	1996	-do-	4	557.56	500.01	57.55	0.48	9.44	1.66
4	1999	-do-	3	525.81	464.46	61.35	31.75	41.19	7.26
5	2002	CWC (RS)	3	-	476.13	-	-	-	-
6	2008	St. Govt (HS)	6	524.857	478.087	46.77	0.953	42.14	7.433

Sedimentation Details

S.No.	Year of Survey	Year elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 25 Years (Th.Cum/SqKm/yr)
1	1983	-	36	-	0.930
2	1992	9		0.549	
3	1996	4		0.066	
4	1999	3		5.837	
5	2002	3		-	
6	2008	6		0.058	

DANTIWADA

State: Gujarat	District : Banaskantha	River: Banas
Year of 1st Impoundment: 1965	MDDL: 159.9 m	FRL: 184.15m
Year of Last Survey: 2007	Catchment Area: 2862 Sq.km	Latitude: 24.33
Longitude: 72.36	Reservoir Area at FRL: 40.47 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1965	-	-	464.4	444.73	19.67	-	-	-
2	1984	St. Govt (HS)	19	396.15	384.58	11.57	68.25	68.25	14.70
3	1991	-do-	7	408.43	408.43	0	-12.28	55.97	12.05
4	1994	-do-	3	319.32	319.32	0	89.11	145.08	31.24
5	2007	-do-	13	395.33	393.237	2.093	-76.01	69.07	14.87
6	2007	CWC (RS)	0	-	389.52	-	-	-	-

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 42 Years (Th.Cum/SqKm/yr)
1	1965	-	54	-	0.575
2	1984	19		1.255	
3	1991	7		-	
4	1994	3		10.379	
5	2007	13		-	
6	2007	0		-	-

DEMI-I

State: Gujarat	District : Rajkot	River: Demi
Year of 1st Impoundment: 1959	MDDL: NA	FRL: 59.44 m
Year of Last Survey: 1984	Catchment Area: 168.34 Sq.km	Latitude: 22.64
Longitude: 70.75	Reservoir Area at FRL: 5.44 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1959	-	-	21.52	-	-	-	-	-
2	1984	St. Govt (HS)	25	16.55	-	-	4.97	4.97	23.09

Sedimentation Details

S.No.	Year of Survey	Year elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 25 Years (Th.Cum/SqKm/yr)
1	1959	-	60	-	1.181
2	1984	25		1.181	

DEO

State: Gujarat	District: Panchmahal	River: Deo
Year of 1st Impoundment: 1986	MDDL: 80.00 m	FRL: 89.65 m
Year of Last Survey: 2005	Catchment Area: 259.00 Sq. km	Latitude: 22.38
Longitude: 73.56	Reservoir Area at FRL: 16.68 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1986	-	-	84.09	76.33	7.76	-	-	-
2	1998	St. Govt (HS)	12	74.26	66.92	7.34	9.83	9.83	11.69
3	2005	-do-	7	67.946	61.352	6.594	6.314	16.144	19.20

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 19 Years (Th.Cum/SqKm/yr)
1	1986	-	33	-	3.281
2	1998	12		3.163	
3	2005	7		0.348	

DHAROI

State: Gujarat	District: Mehsana	River: Sabarmati
Year of 1st Impoundment: 1976	MDDL: 175.77 m	FRL: 189.59 m
Year of Last Survey: 2006	Catchment Area: 5475.00 Sq. km	Latitude: 24.02
Longitude: 72.87	Reservoir Area at FRL: 107.00 Sq. Km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1976	-	-	907.83	778.31	129.52	-	-	-
2	1990	CWC (HS)	14	760.65	689.89	70.76	147.18	147.18	16.21
3	1991	-do-	1	745.86	673.63	72.23	16.26	163.44	18.00
4	1992	-do-	1	838.54	747.91	90.63	-92.68	70.76	7.79
5	1994	-do-	2	842.19	760.01	82.18	-3.65	67.11	7.39
6	2000	-do-	6	802.207	727.4	74.807	39.983	107.093	11.80
7	2006	-do-	6	813.137	745.482	67.655	-10.93	96.163	10.59

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 30 Years (Th.Cum/SqKm/yr)
1	1976	-	43	-	0.59
2	1990	14		1.920	
3	1991	1		2.970	
4	1992	1		-	
5	1994	2		-	
6	2000	6		1.217	
7	2006	6		-	

DHATARWADI

State: Gujarat	District : Amreli	River: Dhatarwadi
Year of 1st Impoundment: 1975	MDDL: NA	FRL: 34.41m
Year of Last Survey: 1986	Catchment Area: 429.94 Sq.km	Latitude: 21.04
Longitude: 71.42	Reservoir Area at FRL: 36.5 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1975	-	-	32.73	-	-	-	-	-
2	1986	St. Govt (HS)	11	26.8	-	-	5.93	5.93	18.12

Sedimentation Details

S.No.	Year of Survey	Year elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 11 Years (Th.Cum/SqKm/yr)
1	1975	-	44	-	1.254
2	1986	11		1.254	

FULZAR-I

State: Gujarat	District : Jamnagar	River: Und
Year of 1st Impoundment: 1957	MDDL: NA	FRL: 24.69m
Year of Last Survey: 1986	Catchment Area: 142.45 Sq.km	Latitude: 22.24
Longitude: 69.81	Reservoir Area at FRL : 4.37 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1957	-	-	14.9	-	-	-	-	-
2	1986	St. Govt (HS)	29	12.23	-	-	2.67	2.67	17.92

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 29 Years (Th.Cum/SqKm/yr)
1	1957	-	62	-	0.646
2	1986	29		0.646	

GHEE

State: Gujarat	District : Jamnagar	River: Ghee
Year of 1st Impoundment: 1953	MDDL: NA	FRL: 40.54 m
Year of Last Survey: 1986	Catchment Area: 129.49 Sq.km	Latitude: 22.18
Longitude: 69.66	Reservoir Area at FRL: 3.82 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1953	-	-	13.84	-	-	-	-	-
2	1986	St. Govt (HS)	33	12.61	-	-	1.23	1.23	8.89

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 33 Years (Th.Cum/SqKm/yr)
1	1953	-	66	-	0.288
2	1986	33		0.288	

GHELO-I

State: Gujarat	District : Amreli	River: Ghelo
Year of 1st Impoundment: 1963	MDDL: 127.25 m	FRL: 166.72 m
Year of Last Survey: 1986	Catchment Area: 103.6 Sq.km	Latitude: 21.88
Longitude: 71.88	Reservoir Area at FRL: 3.54 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1963	-	-	13.35	-	-	-	-	-
2	1974	St. Govt (HS)	11	12.23	-	-	1.12	1.12	8.4
3	1986	-do-	12	10	-	-	2.23	3.35	25.09

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 23 Years (Th.Cum/SqKm/yr)
1	1963	-	56	-	1.406
2	1974	11		0.983	
3	1986	12		1.794	

GODHATAD

State: Gujarat	District : Kachchh	River: Mitariwali
Year of 1st Impoundment: 1977	MDDL: NA	FRL: 23 .0m
Year of Last Survey: 1987	Catchment Area: 167.04 Sq.km	Latitude: 23.67
Longitude: 68.65	Reservoir Area at FRL: 3.55 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1977	-	-	14.7	-	-	-	-	-
2	1987	St. Govt (HS)	10	13.98	-	-	0.72	0.72	4.90

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 10 Years (Th.Cum/SqKm/yr)
1	1977	-	42	-	0.431
2	1987	10		0.431	

GOMA

State: Gujarat	District : Bhavnagar	River: Goma
Year of 1st Impoundment: 1972	MDDL: 120.4 m	FRL: 126.5 m
Year of Last Survey: 1986	Catchment Area: 155.4 Sq.km	Latitude: 22.23
Longitude: 71.50	Reservoir Area at FRL: 4.92 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1972	-	-	18.26	-	-	-	-	-
2	1986	St. Govt (HS)	14	15.91	-	-	2.35	2.35	12.87

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 14 Years (Th.Cum/SqKm/yr)
1	1972	-	47	-	1.080
2	1986	14		1.080	

GONDALI

State: Gujarat	District : Rajkot	River: Gondli
Year of 1st Impoundment: 1956	MDDL: NA	FRL: 45.80m
Year of Last Survey: 1986	Catchment Area: 67.41 Sq.km	Latitude: 22.06
Longitude: 70.86	Reservoir Area at FRL: 2.74 Sq .km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity(M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1956	-	-	11.35	-	-	-	-	-
2	1986	St. Govt (HS)	30	10.11	-	-	1.24	1.24	10.93

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 30 Years (Th.Cum/SqKm/yr)
1	1956	-	63	-	0.613
2	1986	30		0.613	

HADAF

State: Gujarat	District: Panchmahal	River: Hadaf
Year of 1st Impoundment: 1986	MDDL: 161.50 m	FRL: 166.20 m
Year of Last Survey: 2009	Catchment Area: 508.00 Sq. km	Latitude: 22.89
Longitude: 73.88	Reservoir Area at FRL: 7.50 Sq. km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1986	-	-	32.26	25.02	7.24	-	-	-
2	2000	St. Govt (HS)	14	22.29	15.74	6.55	9.97	9.97	30.91
3	2009	-do-	9	22.086	17.27	4.816	0.204	10.174	31.54

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 23 Years (Th.Cum/SqKm/yr)
1	1986	-	33	-	0.871
2	2000	14		1.402	
3	2009	9		0.045	

HATHMATI

State: Gujarat	District: Sabarkantha	River: Sabarmati
Year of 1st Impoundment: 1971	MDDL: NA	FRL: 180.74 m
Year of Last Survey: 2009	Catchment Area: 594.95 Sq. km	Latitude: 23.61
Longitude: 72.97	Reservoir Area at FRL: 37.15 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1971	-	-	160.71	-	-	-	-	-
2	1987	St. Govt (HS)	16	151.28	-	-	9.43	9.43	5.87
3	2009	CWC (RS)	22	-	142.36	-	-	-	-

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 16 Years (Th.Cum/SqKm/yr)
1	1971	-	48	-	0.991
2	1987	16		0.991	
3	2009	22		-	-

HIRAN-I

State: Gujarat	District : Junagarh	River: Hiran
Year of 1st Impoundment: 1966	MDDL: 31.24 m	FRL: 38.58 m
Year of Last Survey: 1987	Catchment Area: 80.91 Sq.km	Latitude: 21.20
Longitude: 70.67	Reservoir Area at FRL : 3.35 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1966	-	-	21.65	-	-	-	-	-
2	1987	St. Govt (HS)	21	20.22	-	-	1.43	1.43	6.61

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 21 Years (Th.Cum/SqKm/yr)
1	1966	-	53	-	0.842
2	1987	21		0.842	

HIRAN-II

State: Gujarat	District : Junagarh	River : Hiran
Year of 1st Impoundment: 1981	MDDL: 63.03 m	FRL: 71.27 m
Year of Last Survey: 1998	Catchment Area: 168.00 Sq.km	Latitude: 21.02
Longitude: 70.47	Reservoir Area at FRL : 8 .00 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1981	-	-	38.58	35.02	3.56	-	-	-
2	1998	St. Govt (HS)	17	35.15	33.9	1.25	3.43	3.43	8.89

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 17 Years (Th.Cum/SqKm/yr)
1	1981	-	38	-	1.201
2	1998	17		1.201	

KADANA

State: Gujarat	District: Dungarpur	River: Mahi
Year of 1st Impoundment: 1977	MDDL: 114.00 m	FRL: 127.7 m
Year of Last Survey: 2005	Catchment Area: 25486.00 Sq. km	Latitude: 23.31
Longitude: 73.82	Reservoir Area at FRL: 166.00 Sq. km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1977	-	-	1543	1203	340	-	-	-
2	1980	St. Govt. (HS)	3	1493	1173	320	50	50	3.24
3	1983	-do-	3	1473	1098	375	20	70	4.54
4	1996	CWC (RS)	13	-	1078.52	-	-	-	-
5	2000	St. Govt. (HS)	4	1249.26	954.68	294.58	223.74	293.74	19.04
6	2005	CWC (RS)	5	-	1153.55	-	-	-	-

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 23 Years (Th.Cum/SqKm/yr)
1	1977	-	42	-	0.501
2	1980	3		0.654	
3	1983	3		0.262	
4	1996	13		-	
5	2000	4		0.516	
6	2005	5		-	-

KAILA

State: Gujarat	District : Kachch	River: Kaila
Year of 1st Impoundment: 1956	MDDL: NA	FRL: 79.25m
Year of Last Survey: 1987	Catchment Area: 178.05 Sq.km	Latitude: 23.43
Longitude: 69.49	Reservoir Area at FRL : 3.2 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1956	-	-	13.98	-	-	-	-	-
2	1987	St. Govt (HS)	31	8.86	-	-	5.12	5.12	36.62

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 31 Years (Th.Cum/SqKm/yr)
1	1956	-	63	-	0.928
2	1987	31		0.928	

KANAKVATI

State: Gujarat	District : Surendranagar	River: Kankavati
Year of 1st Impoundment: 1956	MDDL: NA	FRL: 131.67m
Year of Last Survey: 1987	Catchment Area: 207.19 Sq.km	Latitude: 22.52
Longitude: 70.30	Reservoir Area at FRL : 3.54 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1956	-	-	14.62	-	-	-	-	-
2	1987	St. Govt (HS)	31	10.53	-	-	4.09	4.09	27.98

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 31 Years (Th.Cum/SqKm/yr)
1	1956	-	63	-	0.637
2	1987	31		0.637	

KARJAN

State: Gujarat	District : Narmada	River: Karjan
Year of 1st Impoundment: 1984	MDDL: 78.0m	FRL: 115.25m
Year of Last Survey: 2013	Catchment Area: 1404Sq.km	Latitude: 21.80
Longitude: 73.53	Reservoir Area at FRL: 36.77Sq.km	

Findings from Survey

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1984	-	-	630	581	49	-	-	
2	1991	St. Govt (HS)	7	622.05	599.06	22.99	7.95	7.95	1.26
3	1992	-do-	1	625.56	589.08	36.48	-3.51	4.44	0.7
4	1993	-do-	1	615.26	577.42	37.84	10.3	14.74	2.34
5	1998	-do-	5	580.21	531.25	48.96	35.05	49.79	7.90
6	2005	-do-	7	545.39	522.76	22.63	34.82	84.61	13.43
7	2013	-do-	8	538.75	514.652	24.098	6.64	91.25	14.48

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 29 Years (Th.Cum/SqKm/yr)
1	1984	-	35	-	2.241
2	1991	7		0.809	
3	1992	1		-	
4	1993	1		7.336	
5	1998	5		4.993	
6	2005	7		0.354	
7	2013	8		0.591	

KHODIYAR

State: Gujarat	District : Amreli	River: Shetrunji
Year of 1st Impoundment: 1967	MDDL: 179.83 Sq.km	FRL: 202.69 m
Year of Last Survey: 2002	Catchment Area: 383 Sq.km	Latitude: 21.35
Longitude: 71.04	Reservoir Area at FRL : 3.6 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1967	-	-	40.35	37.52	2.83	-	-	-
2	1974	St. Govt (HS)	7	32.21	-	-	8.14	8.14	20.18
3	1987	-do-	13	29.94	29.94	0	2.27	10.41	25.80
4	2001	-do-	14	33.44	33.44	0	-3.50	6.91	17.13
5	2002	-do-	1	33.98	33.98	0	-0.54	6.37	15.79

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 35 Years (Th.Cum/SqKm/yr)
1	1967	-	52	-	0.475
2	1974	7		3.036	
3	1987	13		0.456	
4	2001	14		-	
5	2002	1		-	

LIMDI BHOGAVO

State: Gujarat	District: Surendra Nagar	River: Limdi Bhogavo
Year of 1st Impoundment: 1960	MDDL: N.A	FRL: 46.02 m
Year of Last Survey: 1986	Catchment Area: 331.50Sq. km	Latitude: 22.46
Longitude: 71.45	Reservoir Area at FRL: 9.19 Sq. km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity(M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1960	-	-	30.15	-	-	-	-	-
2	1974	St. Govt (HS)	14	24.49	-	-	5.66	5.66	18.77
3	1986	-do-	12	22.49	-	-	2	7.66	25.41

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 26 Years (Th.Cum/SqKm/yr)
1	1960	-	59	-	0.889
2	1974	14		1.220	
3	1986	12		0.503	

MACHHANNALA

State: Gujarat	District: Panchmahal	River: Machhan/Mahi
Year of 1st Impoundment: 1982	MDDL: 271.31 m	FRL: 277.64 m
Year of Last Survey: 1999	Catchment Area: 245.00 Sq. km	Latitude: 23.05
Longitude: 74.17	Reservoir Area at FRL : 7.96 Sq. km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1982	-	-	37.91	29.16	8.75	-	-	-
2	1999	St. Govt. (HS)	17	27.12	21.2	5.92	10.79	10.79	28.46

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 17 Years (Th.Cum/SqKm/yr)
1	1982	-	37	-	2.591
2	1999	17		2.591	

MACHHU-I

State: Gujarat	District : Rajkot	River: Machhu
Year of 1st Impoundment: 1958	MDDL: 114.3 m	FRL: 135.33 m
Year of Last Survey: 1994	Catchment Area: 730 .0 Sq.km	Latitude: 22.46
Longitude: 70.97	Reservoir Area at FRL : 12 .0 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1958	-	-	83.13	81.42	1.71	-	-	-
2	1989	St. Govt (HS)	31	75.79	75.79	0	7.34	7.34	8.83
3	1994	-do-	5	75.09	75.09	0	0.7	8.04	9.67

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 36 Years (Th.Cum/SqKm/yr)
1	1958	-	61	-	0.306
2	1989	31		0.324	
3	1994	5		0.192	

MACHHU-II

State: Gujarat	District : Rajkot	River: Machhu
Year of 1st Impoundment: 1972	MDDL: 47.24 m	FRL: 57.3 m
Year of Last Survey: 2004	Catchment Area: 1193 Sq.km	Latitude: 22.76
Longitude: 70.87	Reservoir Area at FRL : 13.96 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1972	-	-	100.56	90.78	9.78	-	-	-
2	1997	St. Govt (HS)	25	60.70	58.46	2.24	39.86	39.86	39.64
3	2004	-do-	7	87.906	82.102	3.804	-27.21	12.65	12.58

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 32 Years (Th.Cum/SqKm/yr)
1	1972	-	47		0.33
2	1997	25		1.336	
3	2004	7		-	

MADHUVANTI

State: Gujarat	District : Junagarh	River: Madhuvanti
Year of 1st Impoundment: 1973	MDDL: NA	FRL: 165.19m
Year of Last Survey: 1986	Catchment Area: 45.32 Sq.km	Latitude: 21.26
Longitude: 70.49	Reservoir Area at FRL : 2.27 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1973	-	-	12.14	-	-	-	-	-
2	1986	St. Govt (HS)	13	11.65	-	-	0.49	0.49	4.04

Sedimentation Details

S.No.	Year of Survey	Year elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 13 Years (Th.Cum/SqKm/yr)
1	1973	-	46	-	0.832
2	1986	13		0.832	

MAZAM

State: Gujarat	District: Sabarkantha	River: Mazam/Sabarmati
Year of 1st Impoundment: 1984	MDDL: 150.77 m	FRL: 157.1 m
Year of Last Survey: 1998	Catchment Area: 407.00Sq. km	Latitude: 23.48
Longitude: 73.36	Reservoir Area at FRL: 13.1 Sq. km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last Survey	Cumulative	%Cumulative
1	1984	-	-	44.65	37.37	7.28	-	-	
2	1998	St. Govt.(HS)	14	44.08	37.33	6.75	0.57	0.57	1.28

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 14 Years (Th.Cum/SqKm/yr)
1	1984	-	35	-	0.100
2	1998	14		0.100	

MESHWO

State: Gujarat	District: Banaskantha	River: Meshwo/Sabarmati
Year of 1st Impoundment: 1968	MDDL: 156.76 m	FRL: 163.07 m
Year of Last Survey: 1997	Catchment Area: 259.00Sq. km	Latitude: 23.67
Longitude: 73.38	Reservoir Area at FRL: 11.16 Sq. km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last Survey	Cumulative	%Cumulative
1	1968	-	-	82.12	77.25	4.87	-	-	-
2	1997	St. Govt. (HS)	29	53.13	53.07	0.06	28.99	28.99	35.30

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 29 years (Th.Cum/SqKm/yr)
1	1968	-	51	-	3.860
2	1997	29		3.860	

MOJ

State: Gujarat	District : Rajkot	River: Moj
Year of 1st Impoundment: 1956	MDDL: 59.13 m	FRL: 72.54 m
Year of Last Survey: 1999	Catchment Area: 440 Sq. Km	Latitude: 21.84
Longitude: 70.28	Reservoir Area at FRL : 12.03 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1956	-	-	52.98	50.07	2.91	-	-	-
2	1974	St. Govt (HS)	18	42.48	-	-	10.5	10.5	19.82
3	1986	-do-	12	38.94	-	-	3.54	14.04	26.50
4	1999	-do-	13	36.69	36.69	0	2.25	16.29	30.75

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 43 Years (Th.Cum/SqKm/yr)
1	1956	-	63	-	0.861
2	1974	18		1.326	
3	1986	12		0.670	
4	1999	13		0.393	

MUKTESHWAR

State: Gujarat	District : Banaskantha	River: Saraswati
Year of 1st Impoundment: 1990	MDDL: 193.67 m	FRL: 201.65 m
Year of Last Survey: 2007	Catchment Area: 306 Sq.km	Latitude: 24.04
Longitude: 72.63	Reservoir Area at FRL : 5.81 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1990	-	-	41.00	32.81	8.19	-	-	-
2	1994	St. Govt (HS)	4	37.8	28.98	8.82	3.2	3.2	7.80
3	1998	-do-	4	31.57	25.77	5.8	6.23	9.43	23.00
4	2007	-do-	9	31.459	26.295	5.164	0.111	9.541	23.271

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 17 Years (Th.Cum/SqKm/yr)
1	1990	-	29	-	1.834
2	1994	4		2.614	
3	1998	4		5.090	
4	2007	9		0.040	

NARA

State: Gujarat	District : Kachchh	River: Nara
Year of 1st Impoundment: 1975	MDDL: NA	FRL: 27.43m
Year of Last Survey: 1987	Catchment Area: 233.03 Sq.km	Latitude: 23.63
Longitude: 69.12	Reservoir Area at FRL : 12.13 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1975	-	-	41.06	-	-	-	-	-
2	1987	St. Govt (HS)	12	39.7	-	-	1.36	1.36	3.31

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 12 Years (Th.Cum/SqKm/yr)
1	1975	-	44	-	0.486
2	1987	12		0.486	

PANAM

State: Gujarat	District: Panchmahal	River: Panam/Mahi
Year of 1st Impoundment: 1977	MDDL: 99.70 m	FRL: 127.44 m
Year of Last Survey: 2012	Catchment Area: 2314.00 Sq. km	Latitude: 23.05
Longitude: 73.72	Reservoir Area at FRL : 89.80 Sq. km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity(M.cum)			Loss of Capacity		
				Gross	Live	Dead	Since Last Survey	Cumulative	%Cumulative
1	1977	-	-	735.8	679.2	56.6	-	-	-
2	1984	St.Govt (HS)	7	697.55	624.85	72.7	38.25	38.25	5.20
3	1990	-do-	6	720.19	671.95	48.24	-22.64	15.61	2.12
4	2004	-do-	14	544.95	511.11	33.84	175.24	190.85	25.94
5	2012	-do-	8	580.378	555.159	25.219	-35.428	155.422	21

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 35 Years (Th.Cum/SqKm/yr)
1	1977	-	42	-	1.919
2	1984	7		2.361	
3	1990	6		-	
4	2004	14		0.541	
5	2012	8		-	

PATADUNGRI

State: Gujarat	District: Dohad	River: Khan
Year of 1st Impoundment: 1974	MDDL: NA	FRL: 170.84 m
Year of Last Survey: 1981	Catchment Area: 212.38 Sq. km	Latitude: 22.72
Longitude: 74.28	Reservoir Area at FRL: 10.13 Sq. Km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1974	-	-	41.06	-	-	-	-	-
2	1981	St. Govt. (HS)	7	39.04	-	-	2.02	2.02	4.92

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 7 Years (Th.Cum/SqKm/yr)
1	1974	-	45	-	1.359
2	1981	7		1.359	

PUNA

State: Gujarat	District : Jamnagar	River: Sasoi
Year of 1st Impoundment: 1954	MDDL: NA	FRL: 24.38m
Year of Last Survey: 1986	Catchment Area: 137.27 Sq.km	Latitude: 22.35
Longitude: 69.92	Reservoir Area at FRL : 3.80 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1954	-	-	13.99	-	-	-	-	-
2	1986	St.Govt (HS)	32	9.84	-	-	4.15	4.15	29.66

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 32 Years (Th.Cum/SqKm/yr)
1	1954	-	65	-	0.945
2	1986	32		0.945	

RAJKI

State: Gujarat	District : Bhavnagar	River: Malan
Year of 1st Impoundment: 1964	MDDL: NA	FRL: 89.08m
Year of Last Survey: 1986	Catchment Area: 88.06 Sq.km	Latitude: 21.75
Longitude: 72.12	Reservoir Area at FRL : 1.97 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1964	-	-	12.02	-	-	-	-	-
2	1974	St.Govt (HS)	10	9.94	-	-	2.08	2.08	17.30
3	1986	-do-	12	9.23	-	-	0.71	2.79	23.21

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 22 Years (Th.Cum/SqKm/yr)
1	1964	-	55	-	1.440
2	1974	10		2.362	
3	1986	12		0.672	

RAMI

State: Gujarat	District : Vadodara	River: Narmada
Year of 1st Impoundment: 1983	MDDL: 184.0 m	FRL: 196.35 m
Year of Last Survey: 1999	Catchment Area: 25.0 Sq.km	Latitude: 22.08
Longitude: 74.01	Reservoir Area at FRL: 1.3 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity(M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1983	-	-	7.08	6.61	0.47	-	-	-
2	1999	St. Govt (HS)	16	4.55	4.49	0.06	2.53	2.53	35.73

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 16 Years (Th.Cum/SqKm/yr)
1	1983	-	36		6.325
2	1999	16		6.325	

RANGHOLA

State: Gujarat	District : Bhavnagar	River: Rangholi
Year of 1st Impoundment: 1952	MDDL: NA	FRL: 62.50m
Year of Last Survey: 1986	Catchment Area: 370.37 Sq.km	Latitude: 21.75
Longitude: 71.65	Reservoir Area at FRL : 10.58 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1952	-	-	44.52	-	-	-	-	-
2	1974	St.Govt (HS)	22	42.42	-	-	2.1	2.1	4.72
3	1986	-do-	12	36.68	-	-	5.74	7.84	17.61

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 34 Years (Th.Cum/SqKm/yr)
1	1952	-	67	-	0.623
2	1974	22		0.258	
3	1986	12		1.292	

RUDRAMATA

State: Gujarat	District : Kachchh	River: Pur(Khari)
Year of 1st Impoundment: 1963	MDDL: NA	FRL: NA
Year of Last Survey: 1987	Catchment Area: 383.3 Sq.km	Latitude: 23.37
Longitude: 69.71	Reservoir Area at FRL : 8.19 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1963	-	-	64.78	-	-	-	-	-
2	1987	St.Govt (HS)	24	61.16	-	-	3.62	3.62	5.59

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 24 Years (Th.Cum/SqKm/yr)
1	1963	-	56	-	0.394
2	1987	24		0.394	

SABARMATI

State: Gujarat	District: Mehsana	River: Sabarmati
Year of 1st Impoundment: 1976	MDDL: NA	FRL: NA
Year of Last Survey: 2003	Catchment Area: 5540.00 Sq. km	Latitude: 23.20
Longitude: 72.66	Reservoir Area at FRL : NA	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1976	-	-	907.89	775.89	132.00	-	-	-
2	2003	CWC (RS)	27	-	734.89	-	41	41	5.28

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 27 Years (Th.Cum/SqKm/yr)
1	1976	-	43	-	0.274*
2	2003	27		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

SANANDRO

State: Gujarat	District : Kachchh	River: Kali
Year of 1st Impoundment: 1956	MDDL: NA	FRL: 59.74
Year of Last Survey: 1986	Catchment Area: 147.62 Sq.km	Latitude: 23.62
Longitude: 68.79	Reservoir Area at FRL : 3.175 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1956	-	-	12.28	-	-	-	-	-
2	1974	St.Govt (HS)	18	10.35	-	-	1.93	1.93	15.72
3	1986	-do-	12	5.24	-	-	5.11	7.04	57.33

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 30 Years (Th.Cum/SqKm/yr)
1	1956	-	63	-	1.590
2	1974	18		0.726	
3	1986	12		2.885	

SANI

State: Gujarat	District : Jamnagar	River: Sani
Year of 1st Impoundment: 1984	MDDL: 13.65 m	FRL: 17.35 m
Year of Last Survey: 2010	Catchment Area: 506 Sq.km	Latitude: 21.98
Longitude: 69.49	Reservoir Area at FRL: 18.2 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1984	-	-	55.08	46.15	8.93	-	-	-
2	2001	St.Govt (HS)	17	45.45	37.85	7.6	9.63	9.63	17.48
3	2010	-do-	9	39.016	32.174	6.842	6.434	16.064	29.16

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 26 Years (Th.Cum/SqKm/yr)
1	1984	-	35	-	1.221
2	2001	17		1.120	
3	2010	9		1.413	

SASOI

State: Gujarat	District : Jamnagar	River: Sasoi
Year of 1st Impoundment: 1954	MDDL: 22.25 m	FRL: 28.95 m
Year of Last Survey: 2009	Catchment Area: 562.03 Sq.km	Latitude: 22.33
Longitude: 69.96	Reservoir Area at FRL : 14.68 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1954	-	-	51.00	46.75	4.25	-	-	-
2	1986	St.Govt (HS)	32	38.97	-	-	12.3	12.3	23.59
3	2009	-do-	23	37.97	37.969	0.001	1	13.3	25.55

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 55 Years (Th.Cum/SqKm/yr)
1	1954	-	65	-	0.422
2	1986	32		0.669	
3	2009	23		0.077	

SHETRUNJI

State: Gujarat	District : Bhavnagar	River: Shetrunji
Year of 1st Impoundment: 1959	MDDL: 45.15 m	FRL: 55.53 m
Year of Last Survey: 2008	Catchment Area: 4317 Sq.km	Latitude: 21.46
Longitude: 71.83	Reservoir Area at FRL : 67.34 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1959	-	-	415.41	374.83	40.58	-	-	-
2	1988	St.Govt (HS)	29	372.54	361.49	11.5	42.87	42.87	10.32
3	1996	-do-	8	308.69	299.9	8.79	63.85	106.72	25.69
4	2000	-do-	4	291.49	286.18	5.31	17.2	123.92	29.83
5	2003	CWC (RS)	3	-	324.31	-	-	-	-
6	2008	St. Govt (HS)	5	334.19	328.44	5.75	-42.7	81.22	19.55

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 49 Years (Th.Cum/SqKm/yr)
1	1959	-	60	-	0.384
2	1988	29		0.342	
3	1996	8		1.849	
4	2000	4		0.996	
5	2003	3		-	
6	2008	5		-	

SIPU

State: Gujarat	District : Banaskantha	River: Banas
Year of 1st Impoundment: 1992	MDDL: 173.5 m	FRL: 186.43 m
Year of Last Survey: 2007	Catchment Area: 122 Sq.km	Latitude: 24.41
Longitude: 72.30	Reservoir Area at FRL : 28.87 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1992	-	-	177.8	156.00	21.8	-	-	-
2	1998	St.Govt (HS)	6	133.05	115.42	17.63	44.75	44.75	25.17
3	2007	-do-	9	161.43	145.4	16.03	-28.38	16.37	9.21

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 15 Years (Th.Cum/SqKm/yr)
1	1992	-	27	-	8.95
2	1998	6		61.134	
3	2007	9		-	

SUKHI

State: Gujarat	District : Vadodra	River: Sukhi
Year of 1st Impoundment: 1987	MDDL: 135.6m	FRL: 147.82 m
Year of Last Survey: 2013	Catchment Area: 412.00 Sq.km	Latitude: 22.45
Longitude: 73.89	Reservoir Area at FRL: 31.74 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1987	-	-	178.47	167.14	11.33	-	-	-
2	1997	St. Govt (HS)	10	164.08	156.08	8.0	14.39	14.39	8.06
3	1999	-do-	2	175.14	164.24	10.9	-11.06	3.33	1.87
4	2005	-do-	6	177.006	167.213	9.793	-1.866	1.464	0.82
5	2013	CWC (RS)	8	-	163.218	-	-	-	-

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation in For 18 Years (Th.Cum/SqKm/yr)
1	1987	-	32	-	0.20
2	1997	10		3.493	
3	1999	2		-	
4	2005	6		-	
5	2013	8		-	-

SUVI

State: Gujarat	District : Kachchh	River: Suvi
Year of 1st Impoundment: 1964	MDDL: NA	FRL: 42.67 m
Year of Last Survey: 1987	Catchment Area: 160.52 Sq.km	Latitude: 23.60
Longitude: 70.50	Reservoir Area at FRL : 3.1 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1964	-	-	14.28	-	-	-	-	-
2	1987	St.Govt (HS)	23	10.45	-	-	3.83	3.83	26.82

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 23 Years (Th.Cum/SqKm/yr)
1	1964	-	55	-	1.037
2	1987	23		1.037	

UKAI

State: Gujarat	District: Tapi	River: Tapi
Year of 1st Impoundment: 1972	MDDL: 82.30 m	FRL: 105.15 m
Year of Last Survey: 2005	Catchment Area: 62225.00 Sq. km	Latitude: 21.23
Longitude: 73.59	Reservoir Area at FRL: 520.00 Sq. km	

Survey Details

S . N o .	Year of Surve y	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1972	-	-	8,510.00	7,097.00	1,413	-	-	-
2	1979	CWC (HS)	7	8240	6852	1388	270	270	3.17
3	1983	-do-	4	7963	6803	1160	277	547	6.43
4	1992	-do-	9	7496.8	6615.05	881.75	466.2	1013.2	11.91
5	2001	-do-	9	7902	7144.2	757.8	-405.2	608	7.14
6	2003	-do-	2	7,414.29	6,729.90	684.39	487.71	1095.71	12.88
7	2005	CWC (RS)	2	-	6002.5	-	-	-	-

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 31 Years (Th.Cum/SqKm/yr)
1	1972	-	47	-	0.568
2	1979	7		0.620	
3	1983	4		1.113	
4	1992	9		0.832	
5	2001	9		-	
6	2003	2		3.92	
7	2005	2		-	-

UND-I

State: Gujarat	District: Jamnagar	River: Und
Year of 1st Impoundment: 1988	MDDL: 90.1m	FRL: 97.86 m
Year of Last Survey: 2010	Catchment Area: 769 Sq.km	Latitude: 22.40
Longitude: 70.40	Reservoir Area at FRL : 17.69 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1988	-	-	72.5	65.47	7.03	-	-	-
2	2010	St. Govt (HS)	22	69.045	65.942	3.103	3.455	3.455	4.77

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 22 Years (Th.Cum/SqKm/yr)
1	1988	-	31	-	0.204
2	2010	22		0.204	

VARTU

State: Gujarat	District: Jamnagar	River: Vartu
Year of 1st Impoundment: 1964	MDDL: NA	FRL: 39.01m
Year of Last Survey: 1986	Catchment Area: 170.94 Sq.km	Latitude: 22.02
Longitude: 69.81	Reservoir Area at FRL : 3.44 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1964	-	-	13.3	-	-	-	-	-
2	1986	St.Govt (HS)	22	11.7	-	-	1.6	1.6	12.03

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 22 Years (Th.Cum/SqKm/yr)
1	1964	-	55	-	0.425
2	1986	22		0.425	

VENU-II

State: Gujarat	District: Rajkot	River: Venu/Bhadar
Year of 1st Impoundment: 1989	MDDL: 49.00 m	FRL: 55 .00m
Year of Last Survey: 1999	Catchment Area: 751 Sq.km	Latitude: 21.79
Longitude: 70.17	Reservoir Area at FRL : 6.25 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1989	-	-	22.58	18.8	3.78	-	-	-
2	1999	St.Govt (HS)	10	15.32	12.86	2.46	7.26	7.26	32.15

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th. Cum/SqKm/yr)	Average Rate of Sedimentation For 10 Years (Th.Cum/SqKm/yr)
1	1989	-	30	-	0.967
2	1999	10		0.967	

VER-II

State: Gujarat	District: Tapi	River: Ver/Tapi
Year of 1st Impoundment: 1984	MDDL: 101.00 m	FRL: 115.80 m
Year of Last Survey: 1998	Catchment Area: 90.00 Sq. km	Latitude: 21.38
Longitude: 73.87	Reservoir Area at FRL: 5.81 Sq. km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1984	-	-	38.30	37.05	1.25	-	-	-
2	1998	St.Govt (HS)	14	32.63	32.36	0.27	5.67	5.67	14.80

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 14 Years (Th.Cum/SqKm/yr)
1	1984	-	35	-	4.500
2	1998	14		4.500	

WADHOVAN BHOGAVO

State: Gujarat	District: Surendra Nagar	River: Wadhovan Bhogavo
Year of 1st Impoundment: 1960	MDDL: NA	FRL: NA
Year of Last Survey: 1986	Catchment Area: 435.10 Sq. km	Latitude: 22.66
Longitude: 71.46	Reservoir Area at FRL: 5.57 Sq. km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1960	-	-	18.15	-	-	-	-	-
2	1986	St. Govt. (HS)	26	15.48	-	-	2.67	2.67	14.71

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 26 Years (Th.Cum/SqKm/yr)
1	1960	-	59	-	0.236
2	1986	26		0.236	

WADHOVAN BHOGAVO-II

State: Gujarat	District: Surendra Nagar	River: Wadhovan Bhogavo
Year of 1st Impoundment: 1959	MDDL: NA	FRL: NA
Year of Last Survey: 1986	Catchment Area: 569.77 Sq. km	Latitude: 22.73
Longitude: 71.60	Reservoir Area at FRL: 6.13 Sq. km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1960	-	-	23.36	-	-	-	-	-
2	1974	St. Govt. (HS)	15	21.8	-	-	1.56	1.56	6.68
3	1986	-do-	12	20.39	-	-	1.41	2.97	12.71

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 27 Years (Th.Cum/SqKm/yr)
1	1960	-	60	-	0.193
2	1974	15		0.183	
3	1986	12		0.206	

WATRAK

State: Gujarat	District: Sabarkantha	River: Watrak
Year of 1st Impoundment: 1984	MDDL: 126.39 m	FRL: 136.25 m
Year of Last Survey: 2003	Catchment Area: 1113.70 Sq. km	Latitude: 23.32
Longitude: 73.41	Reservoir Area at FRL: 44.75 Sq. km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1984	-	-	177.00	154.35	22.65	-	-	-
2	1999	CWC (RS)	15	-	134.79	-	-	-	-
3	2003	CWC (HS)	4	161.60	140.552	21.048	15.4	15.4	8.70

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 19 Years (Th.Cum/SqKm/yr)
1	1984	-	35	-	0.728
2	1999	15		-	
3	2003	4		0.728	

ADHPL

State: Himachal Pradesh	District : Kullu	River: Allain & Duhangan revulets
Year of 1st Impoundment: :2010	MDDL: 2734.0m	FRL: 2746.0m
Year of Last Survey: 2018	Catchment Area: 195.1Sq.km	Latitude: 32.22
Longitude: 77.20	Reservoir Area at FRL: 0.02 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	2010	-	-	0.224	0.221	0.002	-	-	-
2	2018	St. Govt (HS)	8	0.224	0.179	0.045	0	0	0

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 8 Years (Th.Cum/SqKm/yr)
1	2010	-	9	-	0
2	2018	8		0	

BAIRA

State: Himachal Pradesh	District: Chamba	River: Baira
Year of 1st Impoundment : 1980	MDDL: 1113.00 m	FRL: 1122.15 m
Year of Last Survey: 2017	Catchment Area: 669.0 Sq.km	Latitude: 32.81
Longitude: 76.14	Reservoir Area at FRL: 0.10 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1980	-	-	3.75	2.48	1.27	-	-	-
2	2011	St. Govt (HS)	31	0.59	0.51	0.08	3.16	3.16	84.27
3	2017	-do-	6	0.7	0.6	0.1	-0.11	3.05	81.33

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 37 Years (Th.Cum/SqKm/yr)
1	1980	-	39	-	0.123
2	2011	31		0.159	
3	2017	6		-	

BHAKRA

State: Himachal Pradesh	District: Bilaspur	River: Sutlej
Year of 1st Impoundment: :1958	MDDL: 445.6m	FRL: 515.08m
Year of Last Survey: 2017	Catchment Area: 56980 Sq.km	Latitude: 31.41
Longitude: 76.43	Reservoir Area at FRL: 166 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1958	-		9868.00	-	-	-	-	-
2	1959	St. Govt. (HS)	1	9867.84	7436.03	2431.81	0.16	0.16	0.00
3	1963	-do-	4	9724.53	-	-	143.31	143.47	1.45
4	1965	-do-	2	9631.92	-	-	92.61	236.08	2.39
5	1966	-do-	1	9607.71	-	-	24.21	260.29	2.64
6	1967	-do-	1	9556.01	-	-	51.7	311.99	3.16
7	1968	-do-	1	9523.55	-	-	32.46	344.45	3.49
8	1969	-do-	1	9507.11	-	-	16.44	360.89	3.66
9	1970	-do-	1	9462.41	-	-	44.7	405.59	4.11
10	1971	-do-	1	9447.57	-	-	14.84	420.43	4.26
11	1972	-do-	1	9417.53	-	-	30.04	450.47	4.56
12	1973	-do-	1	9395.39	-	-	22.14	472.61	4.79
13	1974	-do-	1	9341.83	-	-	53.56	526.17	5.33
14	1975	-do-	1	9320.98	-	-	20.85	547.02	5.54
15	1976	-do-	1	9285.25	-	-	35.73	582.75	5.91
16	1977	-do-	1	9259.82	-	-	25.43	608.18	6.16
17	1979	-do-	2	9160.32	-	-	99.5	707.68	7.17
18	1981	-do-	2	9091.14	-	-	69.18	776.86	7.87
19	1983	-do-	2	9034.62	-	-	56.52	833.38	8.45
20	1984	-do-	1	9007.28	-	-	27.34	860.72	8.72
21	1986	-do-	2	8932.94	-	-	74.34	935.06	9.48

22	1988	-do-	2	8855.72	-	-	77.22	1012.28	10.26
23	1990	-do-	2	8736.25	-	-	119.47	1131.75	11.47
24	1992	-do-	2	8681.57	-	-	54.68	1186.43	12.02
25	1994	-do-	2	8585.29	-	-	96.28	1282.71	13.00
26	1996	-do-	2	8533.49	-	-	51.8	1334.51	13.52
27	1998	-do-	2	8477.64	-	-	55.85	1390.36	14.09
28	2000	-do-	2	8385.58	6715.00	1670.58	92.06	1482.42	15.02
29	2002	-do-	2	8321.76	6668.88	1652.88	63.82	1546.24	15.67
30	2005	-do-	3	8144.17	6603.27	1540.9	177.59	1723.83	17.47
31	2007	-do-	2	8042.45	6511.74	1530.71	101.72	1825.55	18.50
32	2009	-do-	2	7930.06	6437.31	1492.75	112.39	1937.94	19.64
33	2012	-do-	3	7769.66	6271.18	1498.48	160.4	2098.34	21.26
34	2017	-do-	2	7595.97	6208.11	1387.86	173.69	2272.03	23.02

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 59 Years (Th.Cum/SqKm/yr)
1	1958	-	61	-	0.676
2	1959	1		0.003	
3	1963	4		0.629	
4	1965	2		0.813	
5	1966	1		0.425	
6	1967	1		0.907	
7	1968	1		0.570	
8	1969	1		0.289	
9	1970	1		0.784	
10	1971	1		0.260	
11	1972	1		0.527	
12	1973	1		0.389	
13	1974	1		0.940	
14	1975	1		0.366	
15	1976	1		0.627	
16	1977	1		0.446	
17	1979	2		0.873	
18	1981	2		0.607	
19	1983	2		0.496	
20	1984	1		0.480	

21	1986	2		0.652	
22	1988	2		0.678	
23	1990	2		1.048	
24	1992	2		0.480	
25	1994	2		0.845	
26	1996	2		0.455	
27	1998	2		0.490	
28	2000	2		0.808	
29	2002	2		0.560	
30	2005	3		1.039	
31	2007	2		0.893	
32	2009	2		0.986	
33	2012	3		0.938	
34	2017	5		38.41	

CHAMERA-I

State: Himachal Pradesh	District: Chamba	River: Ravi
Year of 1st Impoundment: 1994	MDDL: 749.00m	FRL: 760.00 m
Year of Last Survey: 2018	Catchment Area: 4725 Sq. km	Latitude: 32.60
Longitude: 76.00	Reservoir Area at FRL: 10.94 Sq. Km.	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1994	-	-	391.3	94.85	296.45	-	-	-
2	2010	St. Govt (HS)	16	237.1	104.05	133.05	154.2	154.2	39.41
3	2017	-do-	7	195.60	86.7	108.9	41.5	195.7	50.01
4	2018	-do-	1	195.1	87.9	107.2	0.5	196.2	50.14

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 24 Years (Th.Cum/SqKm/yr)
1	1994	-	25	-	1.73
2	2010	16		2.040	
3	2017	7		1.79	
4	2018	1		1.04	

CHAMERA-II

State: Himachal Pradesh	District: Chamba	River: Ravi
Year of 1st Impoundment: 2003	MDDL: 1152.0 m	FRL: 1162.0 m
Year of Last Survey: 2018	Catchment Area: 2593 Sq. km	Latitude: 32.47
Longitude: 76.25	Reservoir Area at FRL: 0.23 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	2003	-	-	2.25	1.57	0.68	-	-	-
2	2010	St. Govt (HS)	7	1.84	1.51	0.33	0.41	0.41	18.22
3	2017	-do-	7	1.7	1.4	0.3	0.14	0.55	24.44
4	2018	-do-	1	1.68	1.39	0.3	0.02	0.57	25.33

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 15 Years (Th.Cum/SqKm/yr)
1	2003	-	16	-	0.015
2	2010	7		0.023	
3	2017	7		0.81	
4	2018	1		0.29	

CHAMERA –III

State: Himachal Pradesh	District: Chamba	River: Ravi
Year of 1st Impoundment:: 2012	MDDL: 1380.0m	FRL: 1397.0m
Year of Last Survey: 2018	Catchment Area: 2203 Sq. km	Latitude: 32.47
Longitude: 76.44	Reservoir Area at FRL: 0.28 Sq.km	

Survey Details

S. No	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	2012	-	-	5.48	3.64	1.84	-	-	-
2	2017	St. Govt (HS)	5	4.00	3.20	0.80	1.48	1.48	27.15
3	2018	-do-	1	2.97	2.88	0.09	1.03	2.51	45.80

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 6 Years (Th.Cum/SqKm/yr)
1	2012	-	7	-	0.190
2	2017	5		0.62	
3	2018	1		0.8	

KOLDAM

State: Himachal Pradesh	District: Bilaspur	River: Satluj
Year of 1st Impoundment:: 2015	MDDL: 636.0 m	FRL: 642.0 m
Year of Last Survey: 2017	Catchment Area: 53770 Sq.km	Latitude: 31.38
Longitude: 76.87	Reservoir Area at FRL: 12.5 Sq.km	

Survey Details

S . N o.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	2015	St. Govt (HS)	-	576	90	486	-	-	-
2	2017	-do-	2	571.251	90	481.251	4.75	4.75	0.82

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 2 Years(Th.Cum/SqKm/yr)
1	2015	-	4	-	0.044
2	2017	2		0.044	

MALANA-I

State: Himachal Pradesh	District : Kullu	River: Malana
Year of 1st Impoundment:: 2001	MDDL: 1878.5m	FRL: 1893.65m
Year of Last Survey: -	Catchment Area: 178.5 Sq.km	Latitude: 32.08
Longitude: 77.28	Reservoir Area at FRL: 0.02 Sq.km	

Survey Details

S . N o.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	2001	-	-	0.25	0.24	0.01	-	-	-
2	-	St. Govt (HS)	-	0.25	0.22	0.22	0	0	0

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for Years (Th.Cum/SqKm/yr)
1	2001	-	18	-	-
2	-	-		0	

PARBATI-III

State: Himachal Pradesh	District : Kullu	River: Sainj
Year of 1st Impoundment:: 2014	MDDL: 1314.0m	FRL: 1330.0m
Year of Last Survey: 2018	Catchment Area: 650 Sq.km	Latitude: 31.75
Longitude: 77.24	Reservoir Area at FRL: 0.13 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	2014	St. Govt (HS)	-	1.67	1.28	0.39	-	-	-
2	2017	-do-	3	1.1	1.0	0.1	0.57	0.57	34.13
3	2018	-do-	1	1.21	0.98	0.23	-0.11	0.46	27.54

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 4 Years (Th.Cum/SqKm/yr)
1	2014	-	6	-	0.177
2	2017	3		0.219	
3	2018	1		-	

PONG

State: Himachal Pradesh	District : Kangra	River: Beas
Year of 1st Impoundment:: 1974	MDDL: 384.05 m	FRL: 426.72 m
Year of Last Survey: 2018	Catchment Area: 12562 Sq.km	Latitude: 31.97
Longitude: 75.95	Reservoir Area at FRL: 260.66 Sq.km	

Survey Details

S. No	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1974	-	-	8579	7291.22	1287.78	-	-	-
2	1980	St. Govt (HS)	6	8407.91	-	-	171.09	171.09	1.99
3	1982	-do-	2	8347.33	-	-	60.58	231.67	2.70
4	1984	-do-	2	8257.51	-	-	89.82	321.49	3.75
5	1986	-do-	2	8159.25	-	-	98.26	419.75	4.89
6	1988	-do-	2	8114.09	-	-	45.16	464.91	5.42
7	1989	-do-	1	8088.53	-	-	25.56	490.47	5.72
8	1990	-do-	1	8070.79	-	-	17.74	508.21	5.92
9	1991	-do-	1	8052.86	-	-	17.93	526.14	6.13
10	1992	-do-	1	8041.88	-	-	10.98	537.12	6.26
11	1993	-do-	1	8033.27	-	-	8.61	545.73	6.36
12	1994	-do-	1	8025.36	-	-	7.91	553.64	6.45
13	1996	-do-	2	7983.04	-	-	42.32	595.96	6.95
14	1997	-do-	1	7964.12	-	-	18.92	614.88	7.17
15	1998	-do-	1	7942.43	-	-	21.69	636.57	7.42
16	1999	-do-	1	7918.06	-	-	24.37	660.94	7.70
17	2000	-do-	1	7896.04	-	-	22.02	682.96	7.96
18	2001	-do-	1	7887.42	-	-	8.62	691.58	8.06
19	2002	-do-	1	7871.6	-	-	15.82	707.4	8.25
20	2003	-do-	1	7850.9	-	-	20.7	728.1	8.49
21	2004	-do-	1	7828.99	-	-	21.91	750.01	8.74

22	2005	CWC (RS)	1	-	6712.18	-	-	-	-
22	2005	St. Govt (HS)	1	7812.66	-	-	16.33	766.34	8.93
2	2006	-do-	1	7789.25	-	-	23.41	789.75	9.21
24	2007	-do-	1	7764.53	-	-	24.72	814.47	9.49
25	2008	-do-	1	7742.49	-	-	22.04	836.51	9.75
26	2009	-do-	1	7719.39	-	-	23.1	859.61	10.02
27	2010	-do-	1	7699.25	-	-	20.14	879.75	10.25
28	2012	-do-	2	7651.71	-	-	47.54	927.29	10.81
29	2018	-do-	6	7510.12	6504.69	1005.42	141.59	1068.88	12.46

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 44 Years (Th.Cum/SqKm/yr)
1	1974	-	45		1.934
2	1980	6		2.270	
3	1982	2		2.411	
4	1984	2		3.575	
5	1986	2		3.911	
6	1988	2		1.797	
7	1989	1		2.035	
8	1990	1		1.412	
9	1991	1		1.427	
10	1992	1		0.874	
11	1993	1		0.685	
12	1994	1		0.630	
13	1996	2		1.684	
14	1997	1		1.506	
15	1998	1		1.727	
16	1999	1		1.940	
17	2000	1		1.753	
18	2001	1		0.686	
19	2002	1		1.259	
20	2003	1		1.648	
21	2004	1		1.744	
22	2005	1		1.300	
23	2006	1		1.864	
24	2007	1		1.968	
25	2008	1		1.754	
26	2009	1		1.839	

27	2010	1		1.603	
28	2012	2		1.892	
29	2018	6		1.878	

CHUTAK

State: Jammu & Kashmir	District: Kargil	River: Suru
Year of 1st Impoundment: 2012	MDDL: NA	FRL: 2781.0 m
Year of Last Survey: 2018	Catchment Area: 3488 Sq.km	Latitude: 34.46
Longitude: 76.07	Reservoir Area at FRL: NA	

Survey Details

S. No	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	2012	-	-	0.588	-	-	-	-	-
2	2018	St. Govt (HS)	6	0.422	-	-	0.166	0.166	28.23

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th. Cum/SqKm/yr)	Average Rate of Sedimentation for 6 Years (Th. Cum/SqKm/yr)
1	2012	-	7	-	0.008
2	2018	6		0.008	

DULHASTI

State: Jammu & Kashmir	District: Kishtwar	River: Chenab
Year of 1st Impoundment: 2006	MDDL: 1238.9 m	FRL: 1266.5 m
Year of Last Survey: 2017	Catchment Area: 10500 Sq.km	Latitude: 33.37
Longitude: 75.80	Reservoir Area at FRL: NA	

Survey Details

S. No	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	2006	-	-	12.98	12	0.98	-	-	-
2	2017	St. Govt (HS)	11	12.39	11.61	0.78	0.59	0.59	4.54

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 11 Years (Th.Cum/SqKm/yr)
1	2006	-	13	-	0.005
2	2017	11		0.005	

KISHANGANGA

State: Jammu & Kashmir	District: Bandipora	River: Kishanganga
Year of 1st Impoundment:: 2018	MDDL: 2384.5 m	FRL: 2390.0 m
Year of Last Survey: 2018	Catchment Area: 1815 Sq.km	Latitude: 34.65
Longitude: 74.75	Reservoir Area at FRL: NA	

Survey Details

S. No	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	2018	-	-	18.35	7.55	10.8	-	-	-
2	2018	St. Govt (HS)	0	18.35	7.55	10.8	0	0	0

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 0 Years (Th.Cum/SqKm/yr)
1	2018	-	1	-	0
2	2018	0		0	

NIMOO BAZGO

State: Jammu & Kashmir	District : NA	River: Indus
Year of 1st Impoundment:: 2013	MDDL: 3090.0m	FRL: 3093.0m
Year of Last Survey: 2016	Catchment Area: 58880Sq.km	Latitude: 34.21
Longitude: 77.18	Reservoir Area at FRL: NA	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	2013	-	-	52.82	9.66	43.16	-	-	-
2	2016	St. Govt (HS)	3	33.7	9.1	24.6	19.12	19.12	36.198

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 3 Years (Th.Cum/SqKm/yr)
1	2013	-	6	-	0.108
2	2016	3		0.108	

SALAL

State: Jammu & Kashmir	District : NA	River: Chenab
Year of 1st Impoundment:: 1987	MDDL: NA	FRL: 487.68 m
Year of Last Survey: 2018	Catchment Area: 21497 Sq.km	Latitude: 33.14
Longitude: 74.81	Reservoir Area at FRL: NA	

Survey Details

S . N o.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1987	-	-	285	-	285	-	-	-
2	2018	St. Govt (HS)	31	12.43	-	12.43	272.57	272.57	95.638

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 31 Years (Th.Cum/SqKm/yr)
1	1987	-	32	-	0.409
2	2018	31		0.409	

SEWA-II

State: Jammu & Kashmir	District : NA	River: Sewa
Year of 1st Impoundment:: 2010	MDDL: 1185.0 m	FRL: 1197.5 m
Year of Last Survey: 2018	Catchment Area: 341 Sq.km	Latitude: 32.68
Longitude: 75.82	Reservoir Area at FRL: NA	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	2010	-	-	7.05	4.39	2.66	-	-	-
2	2018	St. Govt (HS)	8	5.91	4.25	1.66	1.14	1.14	16.17

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 8 Years (Th.Cum/SqKm/yr)
1	2010	-	9	-	0.418
2	2018	8		0.418	

URI-I

State: Jammu & Kashmir	District : NA	River: Jhelum
Year of 1st Impoundment:: 1997	MDDL: NA	FRL: 1491.0 m
Year of Last Survey: 2018	Catchment Area: 12750 Sq.km	Latitude: 34.14
Longitude: 74.18	Reservoir Area at FRL: NA	

Survey Details

S. No	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1997	-	-	0.3597	-	-	-	-	-
2	2018	St. Govt (HS)	21	0.237	-	-	0.1227	0.1227	34.11

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 21 years (Th.Cum/SqKm/yr)
1	1997	-	22	-	0.00046
2	2018	21		0.00046	

URI-II

State: Jammu & Kashmir	District : NA	River: Jhelum
Year of 1st Impoundment:: 2013	MDDL: NA	FRL: 1241.0m
Year of Last Survey: 2018	Catchment Area: 13400 Sq.km	Latitude: 34.08
Longitude: 74.03	Reservoir Area at FRL: NA	

Survey Details

S. No	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	2013	-	-	6.343	-	-	-	-	-
2	2018	St. Govt (HS)	5	4.33	-	-	2.013	2.013	31.74

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 5 Years (Th.Cum/SqKm/yr)
1	2013	-	6	-	0.03
2	2018	5		0.03	

GETALSUD

State: Jharkhand	District: Ranchi	River: Subarnarekha
Year of 1st Impoundment: 1971	MDDL: 579.09 m	FRL: 590.06 m
Year of Last Survey: 2005	Catchment Area: 725.00 Sq. km	Latitude: 23.45
Longitude: 85.55	Reservoir Area at FRL: 34.40 Sq. km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1971	-	-	288.63	231.89	56.74	-	-	-
2	2001	CWC (HS)	30	267.57	223.48	44.09	21.06	21.06	7.30
3	2005	CWC (RS)	4	-	200.78	-	-	-	-

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 30 Years (Th.Cum/SqKm/yr)
1	1971	-	48	-	0.968
2	2001	30		0.968	
3	2005	4		-	-

KONAR

State: Jharkhand	District: Hazaribagh	River: Konar
Year of 1st Impoundment: 1955	MDDL: 410.56 m	FRL: 425.80 m
Year of Last Survey: 1997	Catchment Area: 997.15 Sq. km	Latitude: 23.97
Longitude: 85.75	Reservoir Area at FRL: 23.15 Sq. km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1955	-	-	281.13	220.69	60.44	-	-	-
2	1996	CWC (HS)	41	209.65	175.453	34.197	71.48	71.48	25.43
3	1997	CWC (RS)	1	-	194.83	-	-	-	-

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 41 Years (Th.Cum/SqKm/yr)
1	1955	-	64	-	1.748
2	1996	41		1.748	
3	1997	1		-	-

MAITHON

State: Jharkhand	District: Jamtara	River: Barakar
Year of 1st Impoundment: 1955	MDDL: 132.56 m	FRL: 146.31 m
Year of Last Survey: 2001	Catchment Area: 6294.00 Sq. km	Latitude: 23.78
Longitude: 86.80	Reservoir Area at FRL: 107.16 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1955	-	-	1348.80	-	-			
2	1963	St. Govt. (HS)	8	1285.70	-	-	63.10	63.10	4.68
3	1965	-do-	2	1275.00	-	-	10.70	73.80	5.47
4	1971	-do-	6	1239.60	-	-	35.40	109.20	8.10
5	1979	-do-	8	1194.00	-	-	45.60	154.80	11.48
6	1987	-do-	8	1134.00	-	-	60.00	214.80	15.93
7	1994	-do-	7	1084.76	-	-	49.24	264.04	19.58
8	2001	CWC (RS)	7	-	453.69	-	-	-	-

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 39 Years (Th.Cum/SqKm/yr)
1	1955	-	64	-	1.076
2	1963	8		1.253	
3	1965	2		0.850	
4	1971	6		0.937	
5	1979	8		0.906	
6	1987	8		1.192	
7	1994	7		1.118	
8	2001	7		-	-

MAYURAKSHI

State: Jharkhand	District: Dumka	River: Mayurakshi
Year of 1st Impoundment: 1954	MDDL: 106.38 m	FRL: 121.31 m
Year of Last Survey: 2003	Catchment Area: 1860.00 Sq. km	Latitude: 24.11
Longitude: 87.31	Reservoir Area at FRL: 67.50 Sq. km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1954	-	-	608.20	544.40	63.8	-	-	-
2	1965	CWC (HS)	11	581.42	-	-	26.78	26.78	4.40
3	1970	-do-	5	561.01	-	-	20.41	47.19	7.76
4	1973	-do-	3	539.99	-	-	21.02	68.21	11.22
5	1980	-do-	7	538.30	-	-	1.69	69.9	11.49
6	1995	-do-	15	515.61	-	-	22.69	92.59	15.22
7	2001	-do-	6	559.49	509.63	49.86	-43.88	48.71	8.01
8	2003	CWC (RS)	2	-	485.41	-	-	-	-

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 47 Years (Th.Cum/SqKm/yr)
1	1954	-	65	-	0.557
2	1965	11		1.309	
3	1970	5		2.195	
4	1973	3		3.767	
5	1980	7		0.130	
6	1995	15		0.813	
7	2001	6		-	
8	2003	2		-	-

NANDINI

State: Jharkhand	District: Lohardaga	River: Nandini
Year of 1st Impoundment: 1988	MDDL: NA	FRL: NA
Year of Last Survey: 2015	Catchment Area: 58.08 Sq. km	Latitude: 23.38
Longitude: 84.84	Reservoir Area at FRL: NA	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1988	-	-	19.28	16.70	2.58	-	-	-
2	2015	CWC (RS)	27	-	11.22	-	5.48	5.48	32.83

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 15 Years (Th.Cum/SqKm/yr)
1	1988	-	31	-	3.497*
2	2015	27		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

PANCHET

State: Jharkhand	District: Dhanbad	River: Damodar
Year of 1st Impoundment: 1956	MDDL: 119.48 m	FRL: 124.97 m
Year of Last Survey: 2011	Catchment Area: 10966.00 Sq. km	Latitude: 23.68
Longitude: 86.75	Reservoir Area at FRL: 153.38 Sq. km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1956	-	-	1581.00	1344.80	236.20	-	-	-
2	1962	CWC. (HS)	6	1501.80	-	-	79.20	79.20	5.01
3	1964	-do-	2	1484.30	-	-	17.50	96.70	6.12
4	1966	-do-	2	1475.20	-	-	9.10	105.80	6.69
5	1974	-do-	8	1435.80	-	-	39.40	145.20	9.18
6	1985	-do-	11	1395.60	-	-	40.20	185.40	11.73
7	1996	-do-	11	1358.09	-	-	37.51	222.91	14.10
8	2001	CWC (RS)	5	-	149.08	-	-	-	-
9	2005	-do-	4	-	145.91	-	-	-	-
10	2011	CWC. (HS)	6	1193.46	1088.12	105.34	164.63	387.54	24.51

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 55 Years (Th.Cum/SqKm/yr)
1	1956	-	63	-	0.631
2	1962	6		1.20	
3	1964	2		0.80	
4	1966	2		0.41	
5	1974	8		0.45	
6	1985	11		0.33	

7	1996	11		0.31	
8	2001	5		-	
9	2005	4		-	
10	2011	6		1.00	

TENUGHAT

State: Jharkhand	District: Bokaro	River: Damodar
Year of 1st Impoundment: 1970	MDDL: N.A	FRL: 268.83 m
Year of Last Survey: 2001	Catchment Area: 4481 Sq. km	Latitude: 23.72
Longitude: 85.83	Reservoir Area at FRL: 63.50 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1970	-	-	592.18	330.41	211.77	-	-	-
2	2001	CWC (HS)	31	492.68	331.72	160.96	99.5	99.5	16.80

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 31 Years (Th.Cum/SqKm/yr)
1	1970	-	49	-	0.716
2	2001	31		0.716	

TILAIYA

State: Jharkhand	District: Hazaribagh	River: Barakar
Year of 1st Impoundment: 1953	MDDL: 363.32 m	FRL: 368.80 m
Year of Last Survey: 2004	Catchment Area: 984.20 Sq. km	Latitude: 24.32
Longitude: 85.52	Reservoir Area at FRL: 38.44 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1953	-	-	335.83	260.59	75.24	-	-	-
2	1997	CWC (HS)	44	214.91	140.134	74.776	120.92	120.92	36.01
3	1997	CWC (RS)	0	-	150.53	-	-	-	-
4	2004	-do-	7	-	138.43	-	-	-	-

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 44 Years (Th.Cum/SqKm/yr)
1	1953	-	66	-	2.792
2	1997	44		2.792	
3	1997	0		-	-
4	2004	7		-	

ALMATTI

State: Karnataka	District: Bijapur	River: Krishna
Year of 1st Impoundment: 2001	MDDL: 506.87 m	FRL: 519.6 m
Year of Last Survey: 2007	Catchment Area: 35925.00 Sq. km	Latitude: 16.33
Longitude: 75.89	Reservoir Area at FRL: 493.48 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	2001	-	-	3486.0	2986	500	-	-	-
2	2004	CWC (RS)	3	-	2791.36	-	-	-	-
3	2007	St. Govt (HS)	3	3335.66	3031.87	303.79	150.34	150.34	4.31

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 6 Years (Th.Cum/SqKm/yr)
1	2001	-	18	-	0.697
2	2004	3		-	
3	2007	3		0.697	

BHASAVASAGARA

State: Karnataka	District: Bijapur/Raichur	River: Krishna
Year of 1st Impoundment: 1982	MDDL: 485.52 m	FRL: 492.25 m
Year of Last Survey: 2007	Catchment Area: 47850.00 Sq. km	Latitude: 16.21
Longitude: 76.33	Reservoir Area at FRL: 132.06 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1982	-	-	1071.55	868.55	203	-	-	-
2	1991	St. Govt (HS)	9	815.76	762.17	53.59	255.79	255.79	23.87
3	2003	CWC (RS)	12	-	842.25	-	-	-	-
4	2007	St. Govt (HS)	4	783.95	768.45	15.5	31.81	287.60	26.84

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 25 Years (Th.Cum/SqKm/yr)
1	1982	-	37	-	0.240
2	1991	9		0.594	
3	2003	12		-	
4	2007	4		0.04	

BHADRA

State: Karnataka	District: Chikkamagalur	River: Krishna
Year of 1st Impoundment: 1964	MDDL: 631.54 m	FRL: 657.75 m
Year of Last Survey: 2011	Catchment Area: 1968.40 Sq. km	Latitude: 13.70
Longitude: 75.63	Reservoir Area at FRL: 117.30 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1964	-	-	2025.87	1785.15	240.72	-	-	-
2	2005	CWC (RS)	41	-	1679.36	-	-	-	-
3	2006	CWC (HS)	1	1964.95	1716.4	248.6	60.92	60.92	3.01
4	2011	-do-	5	1930.125	1709.509	220.616	34.825	95.745	4.87

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 47 Years (Th.Cum/SqKm/yr)
1	1964	-	55	-	1.035
2	2005	41		-	
3	2006	1		0.737	
4	2011	5		9.728	

CHAKRA

State: Karnataka	District: Shimoga	River: Chakra
Year of 1st Impoundment: 1985	MDDL: N.A	FRL: N.A
Year of Last Survey: 2010	Catchment Area: 58.60 Sq. km	Latitude: 13.82
Longitude: 74.95	Reservoir Area at FRL: 11.5 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1985	-	-	222.95	132.93	89.92	-	-	-
2	2010	CWC (RS)	25	-	127.16		5.77	5.77	4.34

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 25 Years (Th.Cum/SqKm/yr)
1	1985	-	34	-	3.939*
2	2010	25		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

GHATAPRABHA

State: Karnataka	District: Belgaum	River: Ghataprabha
Year of 1st Impoundment:: 1974	MDDL: 633.29 m	FRL: 662.94 m
Year of Last Survey: 2014	Catchment Area: 1411.55 Sq. km	Latitude: 16.14
Longitude: 74.63	Reservoir Area at FRL: 72.59 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1974	-	-	1434.136	1366.136	68	-	-	-
2	2000	CWC (HS)	26	1318.612	1277.152	41.46	115.524	115.524	8.06
3	2014	CWC (RS)	14	-	1366.136	-	-	-	-

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 26 Years (Th.Cum/SqKm/yr)
1	1974	-	45	-	3.148
2	2000	26		3.148	
3	2014	14		-	-

HARANGI

State: Karnataka	District: Kodagu	River: Harangi
Year of 1st Impoundment: 1982	MDDL: 849.98 m	FRL: 871.42 m
Year of Last Survey: 2009	Catchment Area: 419.58 Sq.km	Latitude: 12.48
Longitude: 75.90	Reservoir Area at FRL: 19.1 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1982	-	-	240.69	228.59	12.1	-	-	-
2	2005	CWC (RS)	23	-	157.47	-	-	-	-
3	2009	St.Govt. (HS)	4	217.12	207.82	9.3	23.57	23.57	9.79

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations As on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 27 Years (Th.Cum/SqKm/yr)
1	1982	-	37	-	2.081
2	2005	23		-	
3	2009	4		2.081	

HEMAVATHY

State: Karnataka	District: Hassan	River: Hemavathy
Year of 1st Impoundment: 1979	MDDL: 872.34 m	FRL: 890.63 m
Year of Last Survey: 2009	Catchment Area: 2810.00 Sq.km	Latitude: 12.82
Longitude: 76.05	Reservoir Area at FRL: 91.62 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1979	-	-	1050.63	1012.6	38.03	-	-	-
2	2005	CWC (RS)	26	-	857.07	-	-	-	-
3	2009	St.Govt. (HS)	4	974.5	920.81	53.69	76.13	76.13	7.25

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations As on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 30 Years (Th.Cum/SqKm/yr)
1	1979	-	40	-	0.903
2	2005	26		-	
3	2009	4		0.903	

HIPPARGI

State: Karnataka	District: Bagalkot	River: Krishna
Year of 1st Impoundment: 1998	MDDL: 517.47 m	FRL: 524.87 m
Year of Last Survey: 2007	Catchment Area: 22699.00 Sq. km	Latitude: 16.55
Longitude: 75.16	Reservoir Area at FRL: 29.92 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1998	-	-	99.74	68.35	31.39	-	-	-
2	2007	St.Govt. (HS)	9	96.17	67.00	29.17	3.57	3.57	3.58

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 9 Years (Th.Cum/SqKm/yr)
1	1998	-	21	-	0.017
2	2007	9		0.017	

KABINI

State: Karnataka	District: Mysore	River: Kabini
Year of 1st Impoundment: 1974	MDDL: 690.67 m	FRL: 696.16 m
Year of Last Survey: 2018	Catchment Area: 2141.90 Sq.km	Latitude: 11.97
Longitude: 76.35	Reservoir Area at FRL: 61.34 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1974	-	-	552.63	443.63	109	-	-	-
2	2010	St.Govt. (HS)	36	529.57	457.14	72.43	23.06	23.06	4.17
3	2018	CWC (RS)	8	-	430.199	-	-	-	-

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations As on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 36 Years (Th.Cum/SqKm/yr)
1	1974	-	45	-	0.30
2	2010	36		0.30	
3	2018	8		-	-

KODASALLI

State: Karnataka	District : NA	River: Kali
Year of 1st Impoundment: 1999	MDDL: NA	FRL: NA
Year of Last Survey: 2009	Catchment Area: 1049 .0 Sq.km	Latitude: 14.93
Longitude : 74.53	Reservoir Area at FRL: 17.14 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1999	-	-	286.49	178.82	107.67	-	-	-
2	2009	CWC (RS)	10	-	157.89	-	20.93	20.93	11.70

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 10 Years (Th.Cum/SqKm/yr)
1	1999	-	20	-	1.995*
2	2009	10		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

KRISHNARAJA SAGAR

State: Karnataka	District: Mandya	River: Cauvery
Year of 1st Impoundment: 1932	MDDL: 737.01 m	FRL: 752.49 m
Year of Last Survey: 2009	Catchment Area: 10620.00 Sq.km	Latitude: 12.42
Longitude: 76.57	Reservoir Area at FRL: 131.00 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1932	-	-	1400.31	1275.69	124.62	-	-	-
2	1990	St.Govt. (HS)	58	1348.2	1262.35	85.85	52.11	52.11	3.72
3	2000	CWC (RS)	10	-	1215.94	-	-	-	-
4	2009	St.Govt. (HS)	9	1306.4	1217.28	89.12	41.8	93.91	6.71

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations As on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 77 Years (Th.Cum/SqKm/yr)
1	1932	-	87	-	0.115
2	1990	58		0.085	
3	2000	10		-	
4	2009	9		0.21	

LINGANAMAKKI

State: Karnataka	District: Shimoga	River: Sharavathy
Year of 1st Impoundment: 1963	MDDL: 522.73 m	FRL: 554.43 m
Year of Last Survey: 1999	Catchment Area: 1991.71 Sq. km	Latitude: 14.14
Longitude: 74.89	Reservoir Area at FRL: 317.28 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1963	-	-	4435.35	4294.04	141.31	-	-	-
2	1999	CWC (HS)	36	4263.52	4198.96	64.56	171.83	171.83	3.87

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 36 Years (Th.Cum/SqKm/yr)
1	1963	-	56	-	2.396
2	1999	36		2.396	

MALAPRABHA

State: Karnataka	District: Belgaon	River: Malaprabha
Year of 1st Impoundment: 1981	MDDL: 619.35 m	FRL: 633.8 m
Year of Last Survey: 2005	Catchment Area: 2176.00 Sq. km	Latitude: 15.82
Longitude: 75.08	Reservoir Area at FRL: 130.17 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1981	-	-	1239.657	1106.657	133	-	-	-
3	1991	St.Govt. (HS)	10	1161.08	1072.08	88.642	78.57	78.57	6.34
4	2005	CWC (RS)	14	-	977.142	-	-	-	-

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 10 Years (Th.Cum/SqKm/yr)
1	1981	-	38	-	3.611
3	1991	10		3.611	
4	2005	14		-	

NUGU

State: Karnataka	District: Mysore	River: Nugu
Year of 1st Impoundment: 1959	MDDL: 709.57 m	FRL: 725.42 m
Year of Last Survey: 2009	Catchment Area: 984.00 Sq.km	Latitude: 11.94
Longitude: 76.44	Reservoir Area at FRL: 14.13 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1959	-	-	154.06	129.94	24.12	-	-	-
2	2009	CWC (RS)	60	-	121.56	-	-	-	-

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last surveys	Year of operations As on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 50 Years (Th.Cum/SqKm/yr)
1	1959	-	60	-	0.170*
2	2009	50		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

SUPA

State: Karnataka	District : Uttara Kannada	River: Kalinadi
Year of 1st Impoundment: 1985	MDDL: NA	FRL: 564.00m
Year of Last Survey: 2005	Catchment Area: 1057 Sq.km	Latitude: 15.27
Longitude : 74.52	Reservoir Area at FRL: 123.00 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1985	-	-	4178	3758.4	419.6	-	-	-
2	2005	CWC (RS)	20	-	2669.16	-	1089.24	1089.24	28.98

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 20 Years (Th.Cum/SqKm/yr)
1	1985	-	34	-	51.525*
2	2005	20		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

TUNGABHADRA

State: Karnataka	District: Koppal	River: Tungabhadra
Year of 1st Impoundment: 1953	MDDL: 482.19 m	FRL: 497.74 m
Year of Last Survey: 2008	Catchment Area: 28180.00 Sq.km	Latitude: 15.26
Longitude: 76.33	Reservoir Area at FRL: 378.00 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1953	-	-	3751.17	3718.34	32.83	-	-	-
2	1963	St.Govt. (HS)	10	3246.79	3239.75	7.04	504.38	504.38	13.45
3	1972	-do	9	3428.6	3426.53	2.07	-181.81	322.57	8.60
4	1978	-do	6	3332.75	3332.75	0	95.85	418.42	11.15
5	1981	-do-	3	3275.68	3275.68	0	57.07	475.49	12.68
6	1985	-do-	4	3166.74	3166.74	0	108.94	584.43	15.58
7	1993	-do-	8	3157.53	3157.53	0	9.21	593.64	15.83
8	1995	CWC (RS)	2	-	2817.01	-	-	-	-
9	2000	-do-	5	-	2740.58	-	-	-	-
10	2004	St.Govt. (HS)	4	2954.58	2954.58	0	202.95	796.59	21.24
11	2008	-do-	4	2855.89	2855.89	0	98.69	895.28	23.87

Sedimentation Details

S.No.	Year of Survey	Year of elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 55 Years (Th.Cum/SqKm/yr)
1	1953	-	66	-	0.578
2	1963	10		1.790	
3	1972	9		-	
4	1978	6		0.567	
5	1981	3		0.675	
6	1985	4		0.97	
7	1993	8		0.04	

8	1995	2		-	
9	2000	5		-	
10	2004	4		0.65	
11	2008	4		0.88	

ANIYARANKAL

State: Kerala	District: Idukki	River: Panniar
Year of 1st Impoundment: 1964	MDDL: 1188.10 m	FRL: 1207.01 m
Year of Last Survey: 1997	Catchment Area: 65.68 Sq. km	Latitude: 10.02
Longitude: 77.21	Reservoir Area at FRL: 4.86 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1964	-	-	49.84	-	-	-	-	-
2	1997	St.Govt. (HS)	33	34.43	-	-	15.41	15.41	30.92

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 33 Years (Th.Cum/SqKm/yr)
1	1964	-	55	-	7.110
2	1997	33		7.110	

CHULLIAR

State: Kerala	District: Palakkad	River: Bharatpuzha
Year of 1st Impoundment: 1966	MDDL: 136.55 m	FRL: 154.08 m
Year of Last Survey: 2009	Catchment Area: 27.80 Sq. km	Latitude: 10.59
Longitude: 76.77	Reservoir Area at FRL: 1.65 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1966	-	-	13.70	13.67	0.03	-	-	-
2	1994	St.Govt (HS)	28	10.601	-	-	3.099	3.099	22.62
3	2009	-do-	15	13.23	-	-	-2.624	0.475	3.47

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 43 Years (Th.Cum/SqKm/yr)
1	1966	-	53	-	0.397
2	1994	28		3.981	
3	2009	15		-	

IDAMALAYAR

State: Kerala	District: Idukki	River: Idamalayar
Year of 1st Impoundment: 1986	MDDL: 115.00 m	FRL: 169.00 m
Year of Last Survey: 2018	Catchment Area: 481.79 Sq. km	Latitude: 10.23
Longitude: 76.70	Reservoir Area at FRL: 28.30 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1986	-	-	1208.23	1136.23	72	-	-	-
2	2007	CWC (RS)	21	-	1286.81	-	-	-	-
3	2011	CWC (HS)	4	1176.187	1135.227	40.96	32.043	32.043	2.65
4	2018	CWC (RS)	7	-	1117.93	-	-	-	-

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 25 Years (Th.Cum/SqKm/yr)
1	1986	-	33	-	2.660
2	2007	21		-	
3	2011	4		2.660	
4	2018	7		-	-

IDUKKI

State: Kerala	District: Idukki	River: Periyar
Year of 1st Impoundment: 1974	MDDL: 694.94 m	FRL: 732.43 m
Year of Last Survey: 2019	Catchment Area: 649.31 Sq. km	Latitude: 9.84
Longitude: 76.97	Reservoir Area at FRL: 60.63 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1974	-	-	1998.57	1461.81	536.76	-	-	-
2	1999	CWC (HS)	25	1972.72	1453.04	519.68	25.85	25.85	1.29
3	2003	CWC (RS)	4	-	1464.39	-	-	-	-
4	2019	-do-	16	-	1449.907	-	-	-	-

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 25 Years (Th.Cum/SqKm/yr)
1	1974	-	45	-	1.592
2	1999	25		1.592	
3	2003	4		-	
4	2019	16		-	

KAKKI

State: Kerala	District: Pathanamthitta	River: Kakki
Year of 1st Impoundment: 1966	MDDL: 908.30 m	FRL: 981.46 m
Year of Last Survey: 2019	Catchment Area: 217.55 Sq. km	Latitude: 9.32
Longitude: 77.14	Reservoir Area at FRL: 17.52 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1966	-	-	454.07	446.25	7.82	-	-	-
2	1999	CWC (HS)	33	428.78	420.98	7.8	25.29	25.29	5.57
3	2019	CWC (RS)	20	-	409.175	-	-	-	-

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 33 Years (Th.Cum/SqKm/yr)
1	1966	-	53	-	3.523
2	1999	33		3.523	
3	2019	20			

KALLADA

State: Kerala	District: Kollam	River: Kallada
Year of 1st Impoundment: 1986	MDDL: 70.25 m	FRL: 115.82 m
Year of Last Survey: 2018	Catchment Area: 549.00 Sq. km	Latitude: 8.95
Longitude: 77.07	Reservoir Area at FRL: 23.00 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1986	-	-	577.25	507.00	70.25	-	-	-
2	2003	CWC (RS)	17	-	376.71	-	-	-	-
3	2018	St.Govt (HS)	15	407.39	407.304	0.086	169.86	169.86	29.426

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 32 Years (Th.Cum/SqKm/yr)
1	1986	-	33	-	9.668
2	2003	17		-	
3	2018	15		9.668	

KALLARKUTTY

State: Kerala	District: Idukki	River: Mudirapuzha
Year of 1st Impoundment: 1962	MDDL: 445.91m	FRL: 456.59m
Year of Last Survey: 1992	Catchment Area: 759.85 Sq. km	Latitude: 9.98
Longitude: 77.00	Reservoir Area at FRL: 0.65 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1962	-	-	6.8	-	-	-	-	-
2	1992	St.Govt. (HS)	30	6.052	-	-	0.748	0.748	11.00

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 30 Years (Th.Cum/SqKm/yr)
1	1962	-	57	-	0.033
2	1992	30		0.033	

KANJIRAPUZHA

State: Kerala	District: Palakkad	River: Kanjirapuzha
Year of 1st Impoundment: 1980	MDDL: 77.40 m	FRL: 97.50 m
Year of Last Survey: 2017	Catchment Area: 70.00 Sq. km	Latitude: 10.98
Longitude: 76.53	Reservoir Area at FRL: 5.15 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1980	-	-	70.87	69.23	1.60	-	--	-
2	2017	St.Govt. (HS)	37	49.16	48.27	0.89	21.71	21.71	30.64

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 37 Years (Th.Cum/SqKm/yr)
1	1980	-	39	-	8.383
2	2017	37		8.383	

KARAPUZHA

State: Kerala	District: Wayanad	River: Karapuzha
Year of 1st Impoundment: 2005	MDDL: 748.00 m	FRL: 763.00 m
Year of Last Survey: 2016	Catchment Area: 62.00 Sq. km	Latitude: 11.61
Longitude: 76.17	Reservoir Area at FRL: 8.55 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	2005	.-	-	76.50	72.00	4.50	-	-	-
2	2016	St.Govt (HS)	11	34.71	31.77	2.94	41.79	41.79	54.63

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 11 Years (Th.Cum/SqKm/yr)
1	2005	-	14	-	61.277
2	2016	11		61.277	

KUNDALA

State: Kerala	District: Idukki	River: Palar
Year of 1st Impoundment: 1948	MDDL: 1735.64 m	FRL: 1758.70 m
Year of Last Survey: 1994	Catchment Area: 37.55 Sq. km	Latitude: 10.14
Longitude: 77.20	Reservoir Area at FRL: 0.47 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1948	-	-	7.79	-	-	-	-	-
2	1994	St.Govt (HS)	46	6.528	-	-	1.262	1.262	16.20

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 46 Years (Th.Cum/SqKm/yr)
1	1948	-	71	-	0.731
2	1994	46		0.731	

KUTTIYADI

State: Kerala	District: Kozhikode	River: Kuttiyadi
Year of 1st Impoundment: 1973	MDDL: 25.52 m	FRL: 44.41 m
Year of Last Survey: 2010	Catchment Area: 108.78 Sq. km	Latitude: 11.59
Longitude: 75.83	Reservoir Area at FRL: 2.79 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1973	-	-	120.52	113.44	7.08	-	-	-
2	2010	St.Govt (HS)	37	91.87	90.56	1.32	28.65	28.65	23.77

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 37 Years (Th.Cum/SqKm/yr)
1	1973	-	46	-	7.118
2	2010	37		7.118	

MADUPETTY

State: Kerala	District: Idukki	River: Palar
Year of 1st Impoundment: 1967	MDDL: 1554.48 m	FRL: 1599.59 m
Year of Last Survey: 1995	Catchment Area: 104.90 Sq. km	Latitude: 10.11
Longitude: 77.12	Reservoir Area at FRL: 3.24 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1967	-	-	55.22	-	-	-	-	-
2	1995	St.Govt (HS)	28	48.787	-	-	6.433	6.433	11.65

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 28 Years (Th.Cum/SqKm/yr)
1	1967	-	52	-	2.190
2	1995	28		2.190	

MALAMPUZHA

State: Kerala	District: Palakkad	River: Bharathapuzha
Year of 1st Impoundment: 1955	MDDL: 91.44 m	FRL: 115.06 m
Year of Last Survey: 2006	Catchment Area: 147.64 Sq. km	Latitude: 10.84
Longitude: 76.69	Reservoir Area at FRL: 24.83 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1955	-	-	226.00	213.60	2.40	-	-	-
2	1977	St.Govt (HS)	22	220.15	-	-	5.85	5.85	2.588
3	1990	-do-	13	208.13	-	-	12.02	17.87	7.907
4	2005	CWC (RS)	15	-	203.95	-	-	-	-
5	2006	St.Govt (HS)	1	195.328	195.12	0.21	12.802	30.672	13.57

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 51 Years (Th.Cum/SqKm/yr)
1	1955	-	64	-	4.074
2	1977	22		1.801	
3	1990	13		6.623	
4	2005	15		-	
5	2006	1		5.419	

MANGALAM

State: Kerala	District: Palakkad	River: Cherukunnappuzha
Year of 1st Impoundment: 1966	MDDL: 68.00 m	FRL: 77.88 m
Year of Last Survey: 2015	Catchment Area: 48.85 Sq. km	Latitude: 10.51
Longitude: 76.53	Reservoir Area at FRL: 3.96 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1966	-	-	25.49	25.34	0.15	-	-	-
2	1985	St.Govt (HS)	19	16.50	-	-	8.99	8.99	35.23
3	2008	-do-	23	20.30	-	-	-3.8	5.19	20.36
4	2015	-do-	7	19.89	19.85	0.04	0.41	5.60	21.97

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 49 Years (Th.Cum/SqKm/yr)
1	1966	-	53	-	2.342
2	1985	19		9.686	
3	2008	23		-	
4	2015	7		1.2	

MEENKARA

State: Kerala	District: Palakkad	River:: Bharathpuzha
Year of 1st Impoundment: 1960	MDDL: 143.64 m	FRL: 156.36 m
Year of Last Survey: 2009	Catchment Area: 90.65 Sq. km	Latitude: 10.62
Longitude: 76.80	Reservoir Area at FRL: 2.495 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1960	-	-	11.33	10.33	1.00	-	-	-
2	1989	St.Govt (HS)	29	8.135	-	-	3.195	3.195	28.20
3	2009	-do-	20	9.846	9.253	0.593	-1.711	1.484	13.10

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 49 Years (Th.Cum/SqKm/yr)
1	1960	-	59	-	0.334
2	1989	29		1.215	
3	2009	20		-	

NEYYAR

State: Kerala	District: Thiruvananthapuram	River: Neyyar
Year of 1st Impoundment: 1964	MDDL: 56.60 m	FRL: 84.734 m
Year of Last Survey: 2015	Catchment Area: 139.86 Sq. km	Latitude: 8.54
Longitude: 77.17	Reservoir Area at FRL: 9.10 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1964	-	-	106.25	95.73	10.52	-	-	-
2	2011	St.Govt (HS)	47	88.66	86.39	2.27	17.59	17.59	16.55
3	2015	-do-	4	97.35	95.08	2.27	-8.69	8.9	8.38

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 51 Years (Th.Cum/SqKm/yr)
1	1964	-	55	-	1.248
2	2011	47		2.676	
3	2015	4		-	

PAZHASSY

State: Kerala	District: Kannur	River: Pazhassi
Year of 1st Impoundment: 1979	MDDL: 23.80 m	FRL: 26.52 m
Year of Last Survey: 2016	Catchment Area: 640.00 Sq. km	Latitude: 11.98
Longitude: 75.61	Reservoir Area at FRL: 6.50 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1979	-	-	97.50	97.50	0.27	-	-	-
2	2016	St.Govt. (HS)	37	48.97	46.88	2.09	48.53	48.53	49.77

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 37 Years (Th.Cum/SqKm/yr)
1	1979	-	40	-	2.049
2	2016	37		2.049	

PEECHI

State: Kerala	District: Thrissur	River: Manali
Year of 1st Impoundment: 1957	MDDL: 53.34 m	FRL: 79.25 m
Year of Last Survey: 2013	Catchment Area: 107.10 Sq. km	Latitude: 10.53
Longitude: 76.37	Reservoir Area at FRL: 12.95 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1957	-	-	110.43	108.15	2.28	-	-	-
2	1982	St.Govt. (HS)	25	87.62	-	-	22.81	22.81	20.66
3	1995	-do-	13	79.61	-	-	8.01	30.82	27.91
4	2004	-do-	9	96.414	-	-	- 16.804	14.106	12.69
5	2013	-do-	9	94.95	94.21	0.74	1.464	15.57	14.2

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 56 Years (Th.Cum/SqKm/yr)
1	1957	-	62	-	2.582
2	1982	25		5.819	
3	1995	13		5.753	
4	2004	9		-	
5	2013	9		16.15	

PONMUDI

State: Kerala	District: Idukki	River: Panniyar
Year of 1st Impoundment: 1962	MDDL: N.A	FRL: N.A
Year of Last Survey: 1992	Catchment Area: 220.52 Sq. km	Latitude: 9.96
Longitude: 77.06	Reservoir Area at FRL: 2.79 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1962	-	-	51.54	-	-	-	-	-
2	1992	St.Govt. (HS)	30	40.46	-	-	11.08	11.08	21.50

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 30 Years (Th.Cum/SqKm/yr)
1	1962	-	57	-	1.675
2	1992	30		1.675	

POOMALA

State: Kerala	District: Thrissur	River:: Panniyar
Year of 1st Impoundment: 1968	MDDL: N.A	FRL: 92.96 m
Year of Last Survey: 2010	Catchment Area: 1.17 Sq. km	Latitude: 10.60
Longitude: 76.25	Reservoir Area at FRL: 0.13 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1968	-	-	0.58	-	-	-	-	-
2	2010	St.Govt. (HS)	42	0.569	-	-	0.011	0.011	1.90

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 42 Years (Th.Cum/SqKm/yr)
1	1968	-	51	-	0.224
2	2010	42		0.224	

PORINNAGALKUTHU

State: Kerala	District: Thrissur	River: Chalakudi
Year of 1st Impoundment: 1957	MDDL: 405.69 m	FRL: 423.98 m
Year of Last Survey: 1993	Catchment Area: 512.00 Sq. km	Latitude: 10.31
Longitude: 76.64	Reservoir Area at FRL: 2.85 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1957	-	-	31.99	-	-	-	-	-
2	1993	St.Govt. (HS)	36	23.833	-	-	8.157	8.157	25.50

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 36 Years (Th.Cum/SqKm/yr)
1	1957	-	62	-	0.443
2	1993	36		0.443	

POTHUNDY

State: Kerala	District: Palakkad	River: Bharathpuzha
Year of 1st Impoundment: 1971	MDDL: 91.44 m	FRL: 108.204 m
Year of Last Survey: 2009	Catchment Area: 31.00 Sq. km	Latitude: 10.54
Longitude: 76.64	Reservoir Area at FRL: 4.14 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1971	-	-	50.914	43.90	7.01	-	-	-
2	1987	St.Govt (HS)	16	49.935	-	-	0.979	0.979	1.923
3	2009	-do-	22	49.109	42.875	6.234	0.826	1.805	3.545

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 38 Years (Th.Cum/SqKm/yr)
1	1971	-	48		1.532
2	1987	16		1.974	
3	2009	22		2.532	

SIRUVANI

State: Kerala	District: Palakkad	River: Siruvani
Year of 1st Impoundment: 1984	MDDL: 863.00 m	FRL: 878.50 m
Year of Last Survey: 2012	Catchment Area: 22.47 Sq. km	Latitude: 10.98
Longitude: 76.64	Reservoir Area at FRL: 1.64 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1984	-	-	25.50	18.42	7.08	-	-	-
2	2012	St.Govt. (HS)	28	22.56	17.99	4.57	2.94	2.94	11.53

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operation As on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 28 Years (Th.Cum/SqKm/yr)
1	1984	-	35	-	4.674
2	2012	28		4.674	

VAZHANI

State: Kerala	District: Thrissur	River: Wadakkanchery
Year of 1st Impoundment: 1959	MDDL: 45.72 m	FRL: 62.48 m
Year of Last Survey: 2009	Catchment Area: 20.48 Sq. km	Latitude: 10.63
Longitude: 76.31	Reservoir Area at FRL: 1.82 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1959	-	-	18.12	16.65	1.47	-	-	-
2	2009	St.Govt. (HS)	50	17.12	16.69	0.43	1.00	1.00	5.54

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations As on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 50 Years (Th.Cum/SqKm/yr)
1	1959	-	60	-	0.979
2	2009	50		0.979	

WALAYAR

State: Kerala	District: Palakkad	River: Bharathpuzha
Year of 1st Impoundment: 1956	MDDL: 182.58 m	FRL: 203.00 m
Year of Last Survey: 2009	Catchment Area: 106.36 Sq. km	Latitude: 10.84
Longitude: 76.85	Reservoir Area at FRL: 2.59 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1956	-	-	18.40	15.19	3.21	-	-	-
2	2009	St.Govt. (HS)	53	16.03	14.45	1.58	2.37	2.37	12.89

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations As on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 53 Years (Th.Cum/SqKm/yr)
1	1956	-	63	-	0.421
2	2009	53		0.421	

BARGI

State: Madhya Pradesh	District : Jabalpur	River: Narmada
Year of 1st Impoundment: 1990	MDDL: NA	FRL: 422.76 m
Year of Last Survey: 2008	Catchment Area: 14556 Sq.km	Latitude: 22.94
Longitude: 79.92	Reservoir Area at FRL: NA	

Survey Details

S. No	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1990	-	-	4059.69	3238.44	821.25	-	-	-
2	2008	CWC (RS)	18	-	3129.11	-	109.33	109.33	3.38

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 18 Years (Th.Cum/SqKm/yr)
1	1990	-	29	-	0.417*
2	2008	18		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

GANDHI SAGAR

State: Madhya Pradesh	District: Mandsaur	River: Chambal
Year of 1st Impoundment: 1960	MDDL: 381.00 m	FRL: 400.00 m
Year of Last Survey: 2015	Catchment Area: 23025.00 Sq. km	Latitude: 24.49
Longitude: 75.55	Reservoir Area at FRL: 72.30 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1960	-	-	7746	6910	836	-	-	-
2	1975	CWC (HS)	15	7413	6827	586	333	333	4.3
3	1989	-do-	14	7323	6798	525	90	423	5.46
4	2001	-do-	12	7226.15	6668.74	557.41	96.85	519.85	6.71
5	2015	CWC (RS)	14	-	6513.21	-	-	-	-

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 41 Years (Th.Cum/SqKm/yr)
1	1960	-	59	-	0.551
2	1975	15		0.964	
3	1989	14		0.279	
4	2001	12		0.351	
5	2015	14		-	-

HALALI

State: Madhya Pradesh	District: Bhopal	River: Halali
Year of 1st Impoundment: 1976	MDDL: NA	FRL: 459.61m
Year of Last Survey: 2003	Catchment Area: 699.00 Sq. km	Latitude: 23.48
Longitude: 77.50	Reservoir Area at FRL: 25.28 Sq. km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1976	-	-	252.84	226.94	25.90	-	-	-
2	2003	CWC (RS)	27	-	188.58	-	38.36	38.36	16.90

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 27 Years (Th.Cum/SqKm/yr)
1	1976	-	43	-	2.033*
2	2003	27		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

HARSI

State: Madhya Pradesh	District: Gwalior	River: Parbati
Year of 1st Impoundment: 1935	MDDL: NA	FRL: 264.93m
Year of Last Survey: 2007	Catchment Area: 1960.00 Sq. km	Latitude: 25.77
Longitude: 77.90	Reservoir Area at FRL: 25.23 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1935	-	-	206.3	192.66	13.64	-	-	-
2	2007	CWC (RS)	72	-	171.02	-	21.64	21.64	11.23

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 72 Years (Th.Cum/SqKm/yr)
1	1935	-	84	-	0.153*
2	2007	72		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

KOLAR

State: Madhya Pradesh	District : Nagpur	River: Kolar
Year of 1st Impoundment: 1988	MDDL: NA	FRL: 462.20 m
Year of Last Survey: 2006	Catchment Area: 759.0 Sq.km	Latitude: 25.96
Longitude: 77.34	Reservoir Area at FRL: 23.80 Sq.km	

Findings from Survey

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1988	-	-	270	265	5	-	-	-
2	2006	CWC (RS)	18	-	286.66	-	-21.66	-21.66	-8.17

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 18 Years (Th.Cum/SqKm/yr)
1	1988	-	31	-	
2	2006	18		-	

RANGAWAN

State: Madhya Pradesh	District: Chatarpur	River: Ken
Year of 1st Impoundment: 1957	MDDL: N.A	FRL: 233.17m
Year of Last Survey: 2009	Catchment Area: 828.80 Sq. km	Latitude: 24.68
Longitude: 79.85	Reservoir Area at FRL: 25.90 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1957	-	-	164.24	155.17	9.07	-	-	-
2	2009	St.Govt, (RS)	52	-	161.98	-	-6.81	-6.81	-4.39

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 52 Years (Th.Cum/SqKm/yr)
1	1957	-	62	-	-
2	2009	52		-	

SARTHI

State: Madhya pradesh	District : Junagarh	River: Vartu
Year of 1st Impoundment: 1974	MDDL: NA	FRL: 95.50m
Year of Last Survey: 1986	Catchment Area: 197.57 Sq.km	Latitude: 21.94
Longitude: 79.98	Reservoir Area at FRL : 3.3 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1974	-	-	10.69	-	-	-	-	-
2	1986	CWC (HS)	12	7.31	-	-	3.38	3.38	31.62

Sedimentation Detailss

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 12 Years (Th.Cum/SqKm/yr)
1	1974	-	45	-	1.426
2	1986	12		1.426	

SUKTA

State: Madhya Pradesh	District : Burhanpur	River: Sukta
Year of 1st Impoundment: 1984	MDDL: NA	FRL: 410.57 m
Year of Last Survey: 2006	Catchment Area: 468.79 Sq.km	Latitude: 21.58
Longitude: 76.27	Reservoir Area at FRL: 12.07 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1984	-	-	89.38	78.06	11.32	-	-	-
2	2006	CWC (RS)	22	-	73.39	-	4.67	4.67	5.98

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation in for 22 Years (Th.Cum/SqKm/yr)
1	1984	-	35	-	0.453*
2	2006	22		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

TAWA

State: Madhya Pradesh	District : Hoshangabad	River: Tawa
Year of 1st Impoundment: 1990	MDDL: NA	FRL: 355.40 m
Year of Last Survey: 2009	Catchment Area: 5982.9 Sq.km	Latitude: 22.54
Longitude: 77.97	Reservoir Area at FRL: 200.55 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1990	-	-	2204	1944	260	-	-	-
2	2009	CWC (RS)	19	-	1690.33	-	253.67	253.67	13.05

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation in For 19 Years (Th.Cum/SqKm/yr)
1	1990	-	29	-	2.232*
2	2009	19		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

THANWAR

State: Madhya Pradesh	District: Mandia	River: Thanwe
Year of 1st Impoundment: 1983	MDDL: NA	FRL: 481.10m
Year of Last Survey: 2005	Catchment Area: 417.00 Sq. km	Latitude: 22.58
Longitude: 80.11	Reservoir Area at FRL: 24.67 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1983	-	-	149.89	138.10	11.79	-	-	-
2	2005	CWC (RS)	22	-	129.64	-	8.46	8.46	6.13

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 22 Years (Th.Cum/SqKm/yr)
1	1983	-	36	-	0.922*
2	2005	22		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

UPPER WAINGANGA

State: Madhya pradesh	District: Seoni	River: Wainganga
Year of 1st Impoundment: 1995	MDDL: NA	FRL: 519.38 m
Year of Last Survey: 2003	Catchment Area: 2007.75 Sq. km	Latitude: 22.37
Longitude: 79.65	Reservoir Area at FRL: 55.36 Sq. km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1995	-	-	506.66	409.66	97.00	-	-	-
2	2003	CWC (RS)	8	-	393.83	-	15.83	15.83	3.86

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 8 Years (Th.Cum/SqKm/yr)
1	1995	-	24	-	0.986
2	2003	8		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

ADOL

State: Maharashtra	District: Washim	River: Godavari
Year of 1st Impoundment: 1989	MDDL: 506.35 m	FRL: 512.20 m
Year of Last Survey: 2015	Catchment Area: 116.55 Sq. km	Latitude: 20.10
Longitude: 76.97	Reservoir Area at FRL: 3.14 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1989	-	-	15.01	12.89	2.12	-	-	-
2	2015	St. Govt (RS)	26	-	8.37	-	4.52	4.52	35.07

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 26 Years (Th.Cum/SqKm/yr)
1	1989	-	30	-	1.492*
2	2015	26		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

ASOLAMENDHA

State: Maharashtra	District: Chandrapur	River: Pathari
Year of 1st Impoundment: 1918	MDDL: NA	FRL: NA
Year of Last Survey: 1994	Catchment Area: 246.00 Sq. km	Latitude: 20.22
Longitude: 79.82	Reservoir Area at FRL: 14.81 Sq. km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1918	-	-	92.96	-	-	-	-	-
2	1987	St. Govt (HS)	69	65.94	-	-	27.02	27.02	29.07
3	1994	-do-	7	62.99	-	-	2.95	29.97	32.24

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 76 Years (Th.Cum/SqKm/yr)
1	1918	-	101	-	1.603
2	1987	69		1.592	
3	1994	7		1.713	

BENDSURA

State: Maharashtra	District: Beed	River: Bendsura
Year of 1st Impoundment: 1955	MDDL: NA	FRL: NA
Year of Last Survey: 1995	Catchment Area: 188.42 Sq. km	Latitude: 18.91
Longitude: 75.74	Reservoir Area at FRL: 1.80 Sq. km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1955	-	-	13.12	-	-	-	-	-
2	1981	St. Govt (HS)	26	9.579	-	-	3.541	3.541	26.99
3	1990	-do-	9	7.902	-	-	1.677	5.218	39.77
4	1995	-do-	5	7.879	-	-	0.023	5.241	39.95

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 40 Years (Th.Cum/SqKm/yr)
1	1955	-	64	-	0.695
2	1981	26		0.723	
3	1990	9		0.989	
4	1995	5		0.024	

BHAMA ASKHED

State: Maharashtra	District: Pune	River: Bhama
Year of 1st Impoundment: 2000	MDDL: N.A	FRL: N.A
Year of Last Survey: 2010	Catchment Area: 198.08 Sq. km	Latitude: 18.84
Longitude: 73.72	Reservoir Area at FRL: 217.10 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	2000	-	-	165.96	152.27	13.69	-	-	-
2	2010	CWC (RS)	10	-	144.38	-	7.89	7.89	5.18

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 10 Years (Th.Cum/SqKm/yr)
1	2000	-	19	-	3.983*
2	2010	10		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

BHANDARDARA

State: Maharashtra	District: Ahmednagar	River: Godavari
Year of 1st Impoundment: 1926	MDDL: 698.07 m	FRL: 744.73 m
Year of Last Survey: 2015	Catchment Area: 121.73 Sq. km	Latitude: 19.55
Longitude: 73.76	Reservoir Area at FRL: 18.76 Sq. km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1926	-	-	312.595	304.1	8.495	-	-	-
2	2015	St. Govt (RS)	89	-	276.663	-	27.437	27.437	9.02

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 89 Years (Th.Cum/SqKm/yr)
1	1926	-	93	-	2.532
2	2015	89		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

BHATGHAR

State: Maharashtra	District: Pune	River: Yelwandi
Year of 1st Impoundment: 1927	MDDL: 578.48 m	FRL: 623.28 m
Year of Last Survey: 2007	Catchment Area: 331.50 Sq. km	Latitude: 18.18
Longitude: 73.86	Reservoir Area at FRL: 37.90 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1927	-	-	672.65	672.65	0	-	-	-
2	2007	St. Govt (HS)	80	564.06	564.06	0	108.59	108.59	16.14

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 80 Years (Th.Cum/SqKm/yr)
1	1927	-	92	-	4.09
2	2007	80		4.09	

BHATSA

State: Maharashtra	District : Thane	River: Bhatsa
Year of 1st Impoundment: :1979	MDDL: 79.2 m	FRL: 142.07 m
Year of Last Survey: 2017	Catchment Area: 388.5 Sq.km	Latitude: 19.51
Longitude : 73.42	Reservoir Area at FRL: 2.73 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1979	-	-	976.1	942.1	34	-	-	-
2	2017	St. Govt (RS)	38	-	526.57	-	415.53	415.53	44.11

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 38 Years (Th.Cum/SqKm/yr)
1	1979	-	40	-	28.147*
2	2017	38		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

BHIMA

State: Maharashtra	District: Sholapur	River: Bhima
Year of 1st Impoundment: 1977	MDDL: 491.03 m	FRL: 496.83 m
Year of Last Survey: 2012	Catchment Area: 14858.00 Sq. km	Latitude: 18.21
Longitude: 75.11	Reservoir Area at FRL: 336.50 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1977	-	-	3320	1517.20	1802.80	-	-	-
2	2012	CWC (HS)	35	2896.09	1408.81	1487.28	423.91	423.91	12.77

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 35 Years (Th.Cum/SqKm/yr)
1	1977	-	42	-	0.815
2	2012	35		0.815	

BHOJAPUR

State: Maharashtra	District: Nashik	River: Godavari
Year of 1st Impoundment: 1972	MDDL: 675.15 m	FRL: 685.00 m
Year of Last Survey: 2017	Catchment Area: 154.00 Sq. km	Latitude: 19.67
Longitude: 74.05	Reservoir Area at FRL: 1.74 Sq. km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1972	-	-	13.26	10.22	3.04	-	-	-
2	2017	St. Govt (RS)	45	-	9.86	-	0.36	0.36	3.52

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 45 Years (Th.Cum/SqKm/yr)
1	1972	-	47	-	0.052*
2	2017	45		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

CHANDANI

State: Maharashtra	District: Osmanabad	River: Krishna
Year of 1st Impoundment: 1965	MDDL: 503.65 m	FRL: 507.16 m
Year of Last Survey: 2015	Catchment Area: 606.00 Sq. km	Latitude: 18.27
Longitude: 75.54	Reservoir Area at FRL: 4.94 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1965	-	-	23.782	21.578	2.204	-	-	-
2	2015	St. Govt (RS)	50	-	13.409	-	8.169	8.169	37.86

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 50 Years (Th.Cum/SqKm/yr)
1	1965	-	54	-	0.270*
2	2015	50		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

CHANKAPUR

State: Maharashtra	District: Nashik	River: Girna
Year of 1st Impoundment: 1913	MDDL: 658.10 m	FRL: 672.93 m
Year of Last Survey: 2014	Catchment Area: 269.00 Sq. km	Latitude: 20.48
Longitude: 73.88	Reservoir Area at FRL: 10.31 Sq. km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1913	-	-	79.94	76.86	3.08	-	-	-
2	2009	St. Govt (HS)	96	62.42	62.42	0.00	17.52	17.52	21.92
3	2014	St. Govt (RS)	5	-	60.638	-	-	-	-

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 96 Years (Th.Cum/SqKm/yr)
1	1913	-	106	-	0.678
2	2009	96		0.678	
3	2014	5		-	-

CHILEWADI

State: Maharashtra	District: Pune	River: Krishna
Year of 1st Impoundment: 2000	MDDL: 703.17 m	FRL: 743.14 m
Year of Last Survey: 2016	Catchment Area: 103.94 Sq. km	Latitude: 19.34
Longitude: 73.96	Reservoir Area at FRL: 67.41 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	2000	-	-	27.17	24.60	2.57	-	-	-
2	2016	St.Govt. (RS)	16	-	15.85	-	8.75	8.75	35.56

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 16 Years (Th.Cum/SqKm/yr)
1	2000	-	19	-	5.26*
2	2016	16		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

CHITRI

State: Maharashtra	District: Kolhapur	River: Krishna
Year of 1st Impoundment: 2004	MDDL: 682.20 m	FRL: 718.90 m
Year of Last Survey: 2017	Catchment Area: 27.85 Sq. km	Latitude: 16.07
Longitude: 74.15	Reservoir Area at FRL: 2.83 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	2004	-	-	53.414	52.481	0.933	-	-	-
2	2017	St.Govt. (RS)	13	-	43.574	-	8.907	8.907	16.97

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 13 Years (Th.Cum/SqKm/yr)
1	2004	-	15	-	24.602*
2	2017	13		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

DARA

State: Maharashtra	District: Nandurbar	River: Tapi
Year of 1st Impoundment: 2007	MDDL: 279.70 m	FRL: 309.20 m
Year of Last Survey: 2013	Catchment Area: 63.71 Sq. km	Latitude: 21.72
Longitude: 74.43	Reservoir Area at FRL: 0.45 Sq. km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	2007	-		14.76	13.45	1.31	-	-	-
2	2013	St. Govt (RS)	6	-	4.015	-	9.435	9.435	70.15

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 6 Years (Th.Cum/SqKm/yr)
1	2007	-	12	-	24.682*
2	2013	6		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

DARNA

State: Maharashtra	District: Nashik	River: Godavari
Year of 1st Impoundment: 1916	MDDL: 554.12 m	FRL: 571.50 m
Year of Last Survey: 2015	Catchment Area: 404.00 Sq. km	Latitude: 19.76
Longitude: 73.74	Reservoir Area at FRL: 27.83 Sq. km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1916	-	-	226.96	219.91	7.05	-	-	-
2	2015	St. Govt (RS)	99	-	188.659	-	31.251	31.251	14.21

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 99 Years (Th.Cum/SqKm/yr)
1	1916	-	103	-	0.781*
2	2015	99		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

DHOM

State: Maharashtra	District: Satara	River: Krishna
Year of 1st Impoundment: 1977	MDDL: N.A	FRL: 747.70 m
Year of Last Survey: 2005	Catchment Area: 217.56 Sq. km	Latitude: 17.98
Longitude: 73.80	Reservoir Area at FRL: 2.50 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity(M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1977	-	-	382.22	331.05	51.17	-	-	-
2	2005	CWC (RS)	28	-	313.69	-	17.36	17.36	5.24

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 28 Years (Th.Cum/SqKm/yr)
1	1977	-	42	-	2.85*
2	2005	28		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

DIMBHE

State: Maharashtra	District: Pune	River: Ghod
Year of 1st Impoundment: 2000	MDDL: 682.75 m	FRL: 719.65 m
Year of Last Survey: 2010	Catchment Area: 298.00 Sq. km	Latitude: 19.12
Longitude: 73.73	Reservoir Area at FRL: 22.02 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	2000	-	-	394.85	366.52	28.33	-	-	-
2	2010	St.Govt. (HS)	10	429.39	391.52	37.87	-34.54	-34.54	-8.75

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 10 Years (Th.Cum/SqKm/yr)
1	2000	-	19	-	-
2	2010	10		-	

DUDHGANGA

State: Maharashtra	District: Kolhapur	River: Krishna
Year of 1st Impoundment:: 1999	MDDL: 607.16 m	FRL: 646.00 m
Year of Last Survey: 2018	Catchment Area: 196.00 Sq. km	Latitude: 16.32
Longitude: 73.98	Reservoir Area at FRL: 37.71 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1989	-	-	719.12	679.11	40.01	-	-	-
2	2018	CWC (RS)	19	-	662.98	-	16.13	16.13	2.38

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 18 Years (Th.Cum/SqKm/yr)
1	1999	-	20	-	2.838*
2	2018	19		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

EKBURJI

State: Maharashtra	District: Washim	River: Godavari
Year of 1st Impoundment: 1964	MDDL: 143.26 m	FRL: 151.98 m
Year of Last Survey: 2016	Catchment Area: 75.16 Sq. km	Latitude: 20.03
Longitude: 77.10	Reservoir Area at FRL: 0.22 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1964	-	-	14.12	11.97	2.15	-	-	-
2	2016	St. Govt (RS)	52	-	9.44	-	2.53	2.53	21.14

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 52 Years (Th.Cum/SqKm/yr)
1	1964	-	55	-	0.647*
2	2016	52		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

EKURK

State: Maharashtra	District: Latur	River: Adela nalla
Year of 1st Impoundment:: 1871	MDDL: N.A	FRL: N.A
Year of Last Survey: 1991	Catchment Area: 412.00 Sq.km	Latitude: 18.49
Longitude: 77.08	Reservoir Area at FRL: 17.62 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1871	-	-	94.30	-	-	-	-	-
2	1923	St.Govt. (HS)	52	78.362	-	-	15.938	15.938	16.90
3	1991	-do-	68	67.864	-	-	10.498	26.436	28.03

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 120 Years (Th.Cum/SqKm/yr)
1	1871	-	148	-	0.535
2	1923	52		0.744	
3	1991	68		0.375	

GANGAPUR

State: Maharashtra	District: Nashik	River: Godavari
Year of 1st Impoundment: 1965	MDDL: 591.20 m	FRL: 612.35 m
Year of Last Survey: 2016	Catchment Area: 357.40 Sq. km	Latitude: 20.05
Longitude: 73.68	Reservoir Area at FRL: 22.55 Sq. km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1965	-	-	212.51	-	-	-	-	-
2	1997	St. Govt (HS)	32	163.62	-	-	48.89	48.89	23.01
3	2016	St. Govt (RS)	19	-	137.614	-	-	-	-

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 40 Years (Th.Cum/SqKm/yr)
1	1965	-	54	-	4.275
2	1997	32		4.275	
3	2016	19		-	-

GAUTAMI

State: Maharashtra	District: Nashik	River: Godavari
Year of 1st Impoundment: 2006	MDDL: 651.21 m	FRL: 695.85 m
Year of Last Survey: 2014	Catchment Area: 41.18 Sq. km	Latitude: 19.98
Longitude: 73.64	Reservoir Area at FRL: NA	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	2006	-	-	53.218	52.9	0.318	-	-	-
2	2014	St. Govt (RS)	8	-	44.594	-	8.306	8.306	15.70

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 8 Years (Th.Cum/SqKm/yr)
1	2006	-	13	-	25.212*
2	2014	8		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

GHOD

State: Maharashtra	District: Ahmadnagar	River: Ghod
Year of 1st Impoundment: 1965	MDDL: 541.02 m	FRL: 548.64 m
Year of Last Survey: 2008	Catchment Area: 3586.00 Sq. km	Latitude: 18.68
Longitude: 74.49	Reservoir Area at FRL: 30.99 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1965	-	-	216.30	154.80	61.50	-	-	-
2	2007	St.Govt. (HS)	42	169.3	137.99	31.31	47	47	21.73
3	2008	St.Govt. (RS)	1	-	124.16	-	-	-	-

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 42 Years (Th.Cum/SqKm/yr)
1	1965	-	54	-	0.312
2	2007	42		0.312	
3	2008	1		-	

GHORAZARI

State: Maharashtra	District: Chandrapur	River: Godavari
Year of 1st Impoundment: 1923	MDDL: 242.89 m	FRL: 249.34 m
Year of Last Survey: 2015	Catchment Area: 90.65 Sq. km	Latitude: 20.54
Longitude: 79.63	Reservoir Area at FRL: 8.76 Sq. km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1923	-	-	50.243	43.163	7.08	-	-	-
2	2015	St. Govt (RS)	92	-	23.961	-	19.202	19.202	44.49

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 92 Years (Th.Cum/SqKm/yr)
1	1923	-	96	-	2.302*
2	2015	92		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

GIRNA

State: Maharashtra	District: Nashik	River: Girna
Year of 1st Impoundment: 1969	MDDL: 381.81 m	FRL: 397.97 m
Year of Last Survey: 2010	Catchment Area: 4,727.30 Sq. km	Latitude: 18.97
Longitude: 76.40	Reservoir Area at FRL: 55.52 Sq. km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1969	-	-	608.45	523.55	84.90	-	-	-
2	1979	St. Govt. (HS)	10	559.23	-	-	49.22	49.22	8.09
3	2010	-do-	31	565.57	510.20	55.37	-6.34	42.88	7.05

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 41 Years (Th.Cum/SqKm/yr)
1	1969	-	50	-	0.221
2	1979	10		1.041	
3	2010	31		-	

HATNUR

State: Maharashtra	District: Jalgaon	River: Tapi
Year of 1st Impoundment: 1982	MDDL: 207.70 m	FRL: 214.00 m
Year of Last Survey: 2017	Catchment Area: 29,430.00 Sq. km	Latitude: 21.06
Longitude: 75.93	Reservoir Area at FRL: 27.40 Sq. km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1982	-	-	388.00	255.00	133.00	-	-	-
2	2017	St. Govt (RS)	35	-	103.504	-	151.496	151.496	59.41

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 35 Years (Th.Cum/SqKm/yr)
1	1982	-	37	-	0.147*
2	2017	35		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

ISAPUR

State: Maharashtra	District: Nanded	River: Penganga
Year of 1st Impoundment: 1983	MDDL: NA	FRL: 441.00m
Year of Last Survey: 2003	Catchment Area: 4650 Sq. km	Latitude: 19.76
Longitude: 77.38	Reservoir Area at FRL: NA	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1983	-	-	1241.26	928.26	313.00	-	-	-
2	2003	CWC (RS)	20	-	899.63	-	28.63	28.63	3.08

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 20 Years (Th.Cum/SqKm/yr)
1	1983	-	36	-	0.308*
2	2003	20		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

ITIADOH

State: Maharashtra	District: Gondia	River: Garvi
Year of 1st Impoundment: 1972	MDDL: NA	FRL: NA
Year of Last Survey: 2007	Catchment Area: 704.48 Sq. km	Latitude: 20.80
Longitude: 80.17	Reservoir Area at FRL: 46.91 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1972	-	-	381.58	317.87	63.71	-	-	-
2	2007	CWC (RS)	35	-	318.29	-	-0.42	-0.42	-0.13

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 35 Years (Th.Cum/SqKm/yr)
1	1972	-	47	-	-
2	2007	35		-	

JAWALGAON

State: Maharashtra	District: Solapur	River: Krishna
Year of 1st Impoundment: 1989	MDDL: 195.91 m	FRL: 503.83 m
Year of Last Survey: 2016	Catchment Area: 223.00 Sq. km	Latitude: 18.02
Longitude: 75.92	Reservoir Area at FRL: 4.60 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1989	-	-	34.91	29.19	5.72	-	-	-
2	2016	St.Govt. (RS)	27	-	26.796	-	2.394	2.394	8.2

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 27 Years (Th.Cum/SqKm/yr)
1	1989	-	30	-	0.398*
2	2016	27		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

JAYAKWADI

State: Maharashtra	District: Aurangabad	River: Godavari
Year of 1st Impoundment: 1976	MDDL: 455.52 m	FRL: 463.91 m
Year of Last Survey: 1999	Catchment Area: 21774 Sq. km	Latitude: 19.48
Longitude: 75.37	Reservoir Area at FRL: 350.00 Sq. km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1976	-	-	2909.041	2170.935	738.106	-	-	-
2	1999	CWC (HS)	23	2659.24	2076.78	582.46	249.801	249.801	8.59

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 23 Years (Th.Cum/SqKm/yr)
1	1976	-	43	-	0.499
2	1999	23		0.499	

KADWA

State: Maharashtra	District: Nashik	River: Godavari
Year of 1st Impoundment: 1992	MDDL: 575.00 m	FRL: 589.00 m
Year of Last Survey: 2016	Catchment Area: 173.23 Sq. km	Latitude: 19.77
Longitude: 73.79	Reservoir Area at FRL: 5.00 Sq. km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1992	-	-	59.59	52.92	6.68	-	-	-
2	2016	St. Govt (RS)	24	-	50.589	-	2.331	2.331	4.4

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 24 Years (Th.Cum/SqKm/yr)
1	1992	-	27	-	0.561*
2	2016	24		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

KARANJVAN

State: Maharashtra	District: Nashik	River: Kadwa
Year of 1st Impoundment: 1974	MDDL: 632.47 m	FRL: 651.66 m
Year of Last Survey: 2015	Catchment Area: 248.00 Sq. km	Latitude: 20.30
Longitude: 73.76	Reservoir Area at FRL: 18.24 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1974	-	-	175.57	164.19	11.38	-	-	-
2	2008	St. Govt (HS)	34	158.61	155.6	3.01	16.96	16.96	9.66
3	2015	St. Govt (RS)	7	-	143.925	-	-	-	-

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 34 Years (Th.Cum/SqKm/yr)
1	1974	-	45	-	2.011
2	2008	34		2.011	
3	2015	-		-	-

KARPARA

State: Maharashtra	District: Parbhani	River: Godavari
Year of 1st Impoundment: 1974	MDDL: 423.66 m	FRL: 427.80 m
Year of Last Survey: 2014	Catchment Area: 270.00 Sq. km	Latitude: 19.51
Longitude: 76.63	Reservoir Area at FRL: 5.85 Sq. km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1974	-	-	28.82	24.90	3.92	-	-	-
2	2014	St. Govt (RS)	40	-	16.708	-	8.192	8.192	32.90

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 40 Years (Th.Cum/SqKm/yr)
1	1974	-	45	-	0.759*
2	2014	40		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

KASARI

State: Maharashtra	District: Beed	River: Krishana
Year of 1st Impoundment: 1998	MDDL: 589.30 m	FRL: 623.00 m
Year of Last Survey: 2016	Catchment Area: 33.28 Sq. km	Latitude: 18.62
Longitude: 73.65	Reservoir Area at FRL: 5.05 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (Years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1998	-	-	78.56	77.96	0.60	-	-	-
2	2016	St.Govt (RS)	18	-	58.35	-	19.61	19.61	25.15

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 18 Years (Th.Cum/SqKm/yr)
1	1998	-	21	-	32.736*
2	2016	18		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

KHADAKWASLA

State: Maharashtra	District: Pune	River: Mutha
Year of 1st Impoundment: 1879	MDDL: 574.30 m	FRL: 582.47 m
Year of Last Survey: 2007	Catchment Area: 501.80 Sq. km	Latitude: 18.44
Longitude: 73.77	Reservoir Area at FRL: 14.80 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1879	-	-	86	56	30	-	-	-
2	1940	St.Govt. (HS)	61	86.08	-	-	-0.08	-0.08	-
3	2007	-do-	67	87.87	63.96	23.91	-0.79	-1.87	-2.17

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 128 Years (Th.Cum/SqKm/yr)
1	1879	-	140	-	-
2	1940	61		-	
3	2007	67		-	

KHASPUR

State: Maharashtra	District: Osmanabad	River: Sina
Year of 1st Impoundment:: 1954	MDDL: N.A	FRL: N.A
Year of Last Survey: 1996	Catchment Area: 554.20 Sq. km	Latitude: 18.31
Longitude: 75.48	Reservoir Area at FRL: 5.68 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1954	-	-	19.82	-	-	-	-	-
2	1975	St.Govt. (HS)	21	14.466	-	-	5.354	5.354	27.01
3	1990	-do-	15	13.58	-	-	0.886	6.24	31.48
4	1996	-do-	6	13.483	-	-	0.097	6.337	31.97

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 42 Years (Th.Cum/SqKm/yr)
1	1954	-	65	-	0.272
2	1975	21		0.460	
3	1990	15		0.107	
4	1996	6		0.029	

KHELNA

State: Maharashtra	District: Aurangabad	River: Khelna
Year of 1st Impoundment: 1964	MDDL: NA	FRL: NA
Year of Last Survey: 1985	Catchment Area: 161.60 Sq. km	Latitude: 20.40
Longitude: 75.67	Reservoir Area at FRL: 3.76 Sq. km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1964	-	-	12.61	-	-	-	-	-
2	1985	St. Govt (HS)	21	11.908	-	-	0.702	0.702	5.57

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 21 Years (Th.Cum/SqKm/yr)
1	1964	-	55	-	0.207
2	1985	21		0.207	

KOLGAON

State: Maharashtra	District: Ahmadnagar	River: Hanga
Year of 1st Impoundment:: 1956	MDDL: N.A	FRL: N.A
Year of Last Survey: 1988	Catchment Area: 55.74 Sq. km	Latitude: 18.34
Longitude: 75.38	Reservoir Area at FRL:85.00 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Capacity		
				Gross	Live	Dead	Since Last Survey	Cumulative	%Cumulative
1	1956	-	-	2.87	-	-	-	-	-
2	1975	St.Govt. (HS)	19	1.69	-	-	1.18	1.18	41.11
3	1983	-do-	8	1.527	-	-	0.163	1.343	46.79
4	1988	-do-	5	1.496	-	-	0.031	1.374	47.87

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 32 years (Th.Cum/SqKm/yr)
1	1956	-	63		0.770
2	1975	19		1.114	
3	1983	8		0.366	
4	1988	5		0.111	

KOYNA

State: Maharashtra	District: Satara	River: Koyna
Year of 1st Impoundment: 1962	MDDL: 609.6 m	FRL: 659.44 m
Year of Last Survey: 2012	Catchment Area: 891.78 Sq. km	Latitude: 17.40
Longitude: 73.75	Reservoir Area at FRL: 11.54 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1962	-	-	2980.68	2860.89	119.79	-	-	-
2	2012	St.Govt. (HS)	50	2806.889	2721.456	85.433	173.791	173.791	5.83

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 50 Years (Th.Cum/SqKm/yr)
1	1962	-	57	-	3.898
2	2012	50		3.898	

KURNUR

State: Maharashtra	District: Osmanabad	River: Godavari
Year of 1st Impoundment: 1968	MDDL: 562.65 m	FRL: 571.65 m
Year of Last Survey: 2017	Catchment Area: 322.56 Sq. km	Latitude: 17.62
Longitude: 76.21	Reservoir Area at FRL: 6.16 Sq. km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1968	-	-	35.26	32.28	2.98	-	-	-
2	2017	St. Govt (RS)	49	-	30.68	-	1.6	1.6	4.96

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 49 Years (Th.Cum/SqKm/yr)
1	1968	-	51	-	0.101*
2	2017	49		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

MAJALGAON

State: Maharashtra	District: Beed	River: Sindhfana
Year of 1st Impoundment: 1987	MDDL: 426.11 m	FRL: 431.80 m
Year of Last Survey: 2010	Catchment Area: 3840 Sq. km	Latitude: 19.16
Longitude: 76.19	Reservoir Area at FRL: 78.13 Sq. km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1987	-	-	454	312	142	-	-	-
2	2007	CWC (RS)	20	-	287.81	-	-	-	-
3	2010	St. Govt (HS)	23	408.08	292.76	115.32	45.92	45.92	10.11

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 23 Years (Th.Cum/SqKm/yr)
1	1987	-	32	-	0.52
2	2007	20		-	
3	2010	3		0.52	

MANAR

State: Maharashtra	District: Nanded	River: Manar
Year of 1st Impoundment: 1969	MDDL: 386.47 m	FRL: 393.89 m
Year of Last Survey: 2014	Catchment Area: 1585.08 Sq. km	Latitude: 18.84
Longitude: 77.32	Reservoir Area at FRL: 24.06 Sq. km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1969	-	-	138.35	-	-	-	-	-
2	1999	St. Govt (HS)	30	119.624	-	-	18.726	18.726	13.54
3	2014	St. Govt (RS)	15	-	112.448	-	-	-	-

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 30 Years (Th.Cum/SqKm/yr)
1	1969	-	50	-	0.394
2	1999	30		0.394	
3	2014	15		-	-

MANDOHOL

State: Maharashtra	District: Ahmednagar	River: Godavari
Year of 1st Impoundment: 1981	MDDL: 709.42 m	FRL: 717.50 m
Year of Last Survey: 2015	Catchment Area: 142.45 Sq. km	Latitude: 19.20
Longitude: 74.30	Reservoir Area at FRL: 0.20 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1981	-	-	11.30	8.78	2.52	-	-	-
2	2015	St. Govt (RS)	34	-	5.30	-	3.48	3.48	39.64

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 34 Years (Th.Cum/SqKm/yr)
1	1981	-	38	-	0.719*
2	2015	34		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

MANGI

State: Maharashtra	District: Solapur	River: Kanola
Year of 1st Impoundment: 1955	MDDL: 526.87 m	FRL: 538.15 m
Year of Last Survey: 2015	Catchment Area: 304.00 Sq. km	Latitude: 18.47
Longitude: 75.16	Reservoir Area at FRL: 4.00 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1955	-	-	33.839	-	-	-	-	-
2	1984	St.Govt. (HS)	29	30.739	-	-	3.1	3.1	9.16
3	1989	-do-	5	30.528	-	-	0.211	3.311	9.78
4	1995	-do-	6	30.404	-	-	0.124	3.435	10.15
5	2015	St.Govt. (RS)	20	-	28.001	-	-	-	-

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 40 Years (Th.Cum/SqKm/yr)
1	1955	-	64	-	0.282
2	1984	29		0.352	
3	1989	5		0.139	
4	1995	6		0.068	
5	2015	20		-	-

MANIKDOH

State: Maharashtra	District: Pune	River: Kukadi
Year of 1st Impoundment: 1984	MDDL: 670.00 m	FRL: 711.25 m
Year of Last Survey: 2008	Catchment Area: 129.00 Sq. km	Latitude: 19.23
Longitude: 73.81	Reservoir Area at FRL: 18.43 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1984	-	-	308.06	288.25	19.81	-	-	-
2	2006	St.Govt (HS)	22	273.53	261.62	11.91	34.53	34.53	11.21
3	2008	CWC (RS)	2	-	273.77	-	-	-	-

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 22 Years (Th.Cum/SqKm/yr)
1	1984	-	35	-	12.167
2	2006	22		12.167	
3	2008	2		-	-

MASOLI

State: Maharashtra	District: Parbhani	River: Godavari
Year of 1st Impoundment: 1982	MDDL: 408.15 m	FRL: 416.3 m
Year of Last Survey: 2014	Catchment Area: 281.07 Sq. km	Latitude: 18.89
Longitude: 76.74	Reservoir Area at FRL: 4.3 Sq. km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1982	-	-	34.08	27.14	6.94	-	-	-
2	2014	St. Govt (RS)	32	-	21.44	-	5.70	5.70	21.02

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 34 Years (Th.Cum/SqKm/yr)
1	1982	-	37	-	0.634*
2	2014	32		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

MATOBA

State: Maharashtra	District: Pune	River: Krishna
Year of 1st Impoundment: 1878	MDDL: 540.94 m	FRL: 546.40 m
Year of Last Survey: 2014	Catchment Area: N.A	Latitude: 18.51
Longitude: 74.30	Reservoir Area at FRL: 1.90 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1878	-	-	4.55	4.51	0.04	-	-	-
2	2014	St.Govt. (RS)	136	-	4.51	-	0	0	0

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 136 Years (Th.Cum/SqKm/yr)
1	1878	-	141	-	-
2	2014	136		-	

MAYANI

State: Maharashtra	District: Satara	River: Krishna
Year of 1st Impoundment: 1876	MDDL: 702.75 m	FRL: 705.07 m
Year of Last Survey: 2015	Catchment Area: 135.17 Sq.km	Latitude: 17.43
Longitude: 74.56	Reservoir Area at FRL: 0.94 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1876	-	-	1.46	1.46	0	-	-	-
2	2015	St.Govt. (RS)	139	-	1.069	-	0.391	0.391	26.78

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 139 Years (Th.Cum/SqKm/yr)
1	1876	-	143	-	0.021*
2	2015	139		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

MAHSWAD

State: Maharashtra	District: Satara	River: Man
Year of 1st Impoundment: 1888	MDDL: NA	FRL: NA
Year of Last Survey: 1990	Catchment Area: 1,243.20 Sq. km	Latitude: 17.58
Longitude: 74.87	Reservoir Area at FRL: 16.25 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1888	-		86.94	-	-	-	-	-
2	1974	St. Govt (HS)	86	42.31	-	-	44.63	44.63	51.33
3	1990	-do-	16	41.7	-	-	0.61	45.24	52.04

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 102 Years (Th.Cum/SqKm/yr)
1	1888	-	131	-	0.357
2	1974	86		0.417	
3	1990	16		0.031	

MORANA

State: Maharashtra	District: Sangli	River: Krishna
Year of 1st Impoundment: 1985	MDDL: 584.00 m	FRL: 595.70 m
Year of Last Survey: 2013	Catchment Area: 85.50 Sq.km	Latitude: 17.29
Longitude: 73.83	Reservoir Area at FRL: 2.20 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1985	-	-	21.181	16.54	4.641	-	-	-
2	2013	St.Govt. (RS)	28	-	15.73	-	0.81	0.81	4.92

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 28 Years (Th.Cum/SqKm/yr)
1	1985	-	34	-	0.340*
2	2013	28		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

MUKANE

State: Maharashtra	District: Nashik	River: Godavari
Year of 1st Impoundment: 1994	MDDL: 580.20 m	FRL: 594.00 m
Year of Last Survey: 2015	Catchment Area: 129.59 Sq. km	Latitude: 19.82
Longitude: 73.63	Reservoir Area at FRL: 3.02 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1994	-	-	214.16	204.98	9.18	-	-	-
2	2015	St. Govt (RS)	21	-	144.53	-	60.45	60.45	29.49

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 21 Years (Th.Cum/SqKm/yr)
1	1994	-	25	-	22.213*
2	2015	21		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

MUKTI

State: Maharashtra	District: Dhule	River: Moti Nala
Year of 1st Impoundment: 1893	MDDL: NA	FRL: NA
Year of Last Survey: 1991	Catchment Area: 88.60 Sq. km	Latitude: 21.73
Longitude: 74.88	Reservoir Area at FRL: 1.53 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1893	-	-	9.68	-	-	-	-	-
2	1952	St. Govt(HS)	59	9.06	-	-	0.62	0.62	6.40
3	1977	-do-	25	8.68	-	-	0.38	1	10.33
4	1986	-do-	9	6.96	-	-	1.72	2.72	28.10
5	1991	-do-	5	6.87	-	-	0.09	2.81	29.03

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 98 Years (Th.Cum/SqKm/yr)
1	1893	-	126	-	0.324
2	1952	59		0.119	
3	1977	25		0.172	
4	1986	9		2.157	
5	1991	5		0.203	

MULA

State: Maharashtra	District: Ahmadnagar	River: Mula
Year of 1st Impoundment: 1972	MDDL: 534.01 m	FRL: 552.30 m
Year of Last Survey: 2015	Catchment Area: 2275.86 Sq. km	Latitude: 19.33
Longitude: 74.60	Reservoir Area at FRL: 53.60 Sq. km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1972	-	-	738.02	609.34	128.68	-	-	-
2	2008	St. Govt (HS)	36	696.45	585.094	111.35	41.57	41.57	5.63
3	2015	St. Govt (RS)	7	-	486.02	-	-	-	-

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 36 Years (Th.Cum/SqKm/yr)
1	1972	-	47	-	0.507
2	2008	36		0.507	
3	2015	7		-	-

NAGYA SAKYA

State: Maharashtra	District: Nashik	River: Godavari
Year of 1st Impoundment: 1982	MDDL: 479.06 m	FRL: 484.50 m
Year of Last Survey: 2016	Catchment Area: 451.28 Sq. km	Latitude: 20.35
Longitude: 74.60	Reservoir Area at FRL: 5.32 Sq. km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1982	-	-	15.62	11.24	4.38	-	-	-
2	2016	St. Govt (RS)	34	-	9.927	-	1.313	1.313	11.68

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 34 Years (Th.Cum/SqKm/yr)
1	1982	-	37	-	0.086*
2	2016	34		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

NALGANGA

State: Maharashtra	District: Buldhana	River: Nalganga
Year of 1st Impoundment: 1963	MDDL: NA	FRL: NA
Year of Last Survey: 1985	Catchment Area: 315.98 Sq. km	Latitude: 20.72
Longitude: 76.18	Reservoir Area at FRL: 10.99 Sq. km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1963	-	-	76.201	-	-	-	-	-
2	1985	St.Govt (HS)	22	71.863	-	-	4.338	4.338	5.69

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 22 Years (Th.Cum/SqKm/yr)
1	1963	-	56	-	0.624
2	1985	22		0.624	

NAZARE

State: Maharashtra	District: Pune	River: Karha
Year of 1st Impoundment: 1975	MDDL: 670.68 m	FRL: 677.08 m
Year of Last Survey: 2014	Catchment Area: 397.82 Sq.km	Latitude: 18.30
Longitude: 74.19	Reservoir Area at FRL: 3.89 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1975	-	-	22.315	16.652	5.663	-	-	-
2	1986	St.Govt. (HS)	11	14.633	-	-	7.682	7.682	34.43
3	2014	St. Govt (RS)	28	-	13.76	-	-	-	-

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 11 Years (Th.Cum/SqKm/yr)
1	1975	-	44	-	0.698
2	1986	11		0.698	
3	2014	28		-	-

NIRADEOGHAR

State: Maharashtra	District: Pune	River: Bhama
Year of 1st Impoundment: 2002	MDDL: NA	FRL: NA
Year of Last Survey: 2010	Catchment Area: 114.48 Sq. km	Latitude: 18.09
Longitude: 73.71	Reservoir Area at FRL: 14.31 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	2002	-	-	337.39	332.14	5.25	-	-	-
2	2010	CWC (RS)	8	-	296.27	-	35.87	35.87	10.80

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 8 Years (Th.Cum/SqKm/yr)
1	2002	-	17	-	39.166*
2	2010	8		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

PALDHAG

State: Maharashtra	District: Buldhana	River: Tapi
Year of 1st Impoundment: 1978	MDDL: 396.00 m	FRL: 403.20 m
Year of Last Survey: 2016	Catchment Area: 88.27Sq. km	Latitude: 20.47
Longitude: 76.43	Reservoir Area at FRL: 1.55 Sq. km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1978	-	-	9.14	7.51	1.63	-	-	-
2	2016	St.Govt (RS)	38	-	6.42	-	1.09	1.09	14.51

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 38 Years (Th.Cum/SqKm/yr)
1	1978	-	41	-	0.325*
2	2016	38		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

PANSHET

State: Maharashtra	District: Pune	River: Ambi
Year of 1st Impoundment: 1968	MDDL: 597.50 m	FRL: 636.27 m
Year of Last Survey: 2007	Catchment Area: 120.30 Sq.km	Latitude: 18.35
Longitude: 73.56	Reservoir Area FRL: 14.87 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity(M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1968	-	-	310.62	301.445	9.175	-	-	-
2	2007	St.Govt. (HS)	39	282.19	276.358	5.832	28.43	28.43	9.15

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 39 Years (Th.Cum/SqKm/yr)
1	1968	-	.	-	6.060
2	2007	39	51	6.060	

PANZARA

State: Maharashtra	District: Dhule	River: Tapi
Year of 1st Impoundment: 1994	MDDL: 532.00 m	FRL: 545.50 m
Year of Last Survey: 2017	Catchment Area: 215.14Sq. km	Latitude: 20.93
Longitude: 74.08	Reservoir Area at FRL: 4.45 Sq. km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1994	-	-	43.41	35.63	7.78	-	-	-
2	2017	St.Govt (RS)	23	-	27.191	-	8.439	8.439	23.69

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 23 Years (Th.Cum/SqKm/yr)
1	1994	-	25	-	1.705*
2	2017	23		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

POWAI

State: Maharashtra	District: Mumbai Suburban	River: Local Nala
Year of 1st Impoundment: 1890	MDDL: N.A	FRL: N.A
Year of Last Survey: 1996	Catchment Area: 6.61 Sq.km	Latitude: 19.13
Longitude: 72.91	Reservoir Area at FRL: 2.23 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1890	-	-	5.45	-	-	-	-	-
2	1996	St.Govt. (HS)	106	4.39	-	-	1.06	1.06	19.45

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 106 Years (Th.Cum/SqKm/yr)
1	1890	-	129	-	1.513
2	1996	106		1.513	

PUNEGAON

State: Maharashtra	District: Nashik	River: Godavari
Year of 1st Impoundment: 2002	MDDL: 681.72 m	FRL: 690.50 m
Year of Last Survey: 2014	Catchment Area: 66.00 Sq. km	Latitude: 20.36
Longitude: 73.83	Reservoir Area at FRL: 3.13 Sq. km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	2002	-	-	20.39	17.57	2.82	-	-	-
2	2014	St. Govt (RS)	12	-	16.169	-	1.4	1.4	7.97

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 12 Years (Th.Cum/SqKm/yr)
1	2002	-	17	-	1.769*
2	2014	12		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

RADHANAGRI

State: Maharashtra	District: Kolhapur	River: Bhogavati
Year of 1st Impoundment:: 1908	MDDL: 566.14 m	FRL: 590.98 m
Year of Last Survey: 2011	Catchment Area: 108.80 Sq.km	Latitude: 16.41
Longitude: 73.95	Reservoir Area at FRL: 17.99 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1908	-	-	236.79	219.97	16.82	-	-	-
2	2011	St.Govt. (HS)	103	208.82	203.07	5.75	27.97	27.97	11.81

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 103 Years (Th.Cum/SqKm/yr)
1	1908	-	111	-	2.50
2	2011	103		2.50	

RAMSAGAR

State: Maharashtra	District : Nagpur	River: Sur
Year of 1st Impoundment: 1914	MDDL: NA	FRL: NA
Year of Last Survey: 1987	Catchment Area: 212.35 Sq.km	Latitude: 21.41
Longitude : 79.37	Reservoir Area at FRL: 21.3 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1914	-	-	117.18	-	-	-	-	-
2	1987	St. Govt (HS)	73	102.4	-	-	14.78	14.78	12.61

Sedimentation Details

S.No.	Year of Survey	Year elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 73 Years (Th.Cum/SqKm/yr)
1	1914	-	105	-	0.953
2	1987	73		0.953	

RENAPUR

State: Maharashtra	District: Latur	River: Godavari
Year of 1st Impoundment: 2000	MDDL: 605.40 m	FRL: 608.50 m
Year of Last Survey: 2014	Catchment Area: 272.00 Sq. km	Latitude: 18.61
Longitude: 76.60	Reservoir Area at FRL: 7.55 Sq. km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity(M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	2000	-	-	21.685	16.401	5.284	-	-	-
2	2014	St. Govt (RS)	14	-	14.47	-	1.93	1.93	11.77

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 14 Years (Th.Cum/SqKm/yr)
1	2000	-	19	-	0.507*
2	2014	14		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

SIDDHESHWAR

State: Maharashtra	District: Hingoli	River: Purna
Year of 1st Impoundment: 1963	MDDL: NA	FRL: 441.00 m
Year of Last Survey: 2007	Catchment Area: 440.00 Sq. km	Latitude: 19.64
Longitude: 76.89	Reservoir Area at FRL: 40.58 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1963	-	-	250.71	80.82	169.89	-	-	-
2	2007	CWC (RS)	44	-	79.13	-	1.69	1.69	2.09

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 44 Years (Th.Cum/SqKm/yr)
1	1963	-	56	-	0.087*
2	2007	44		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

SINA

State: Maharashtra	District: Ahmednagar	River: Krishna
Year of 1st Impoundment: 1985	MDDL: 579.45`m	FRL: 584.00 m
Year of Last Survey: 2014	Catchment Area: 1582.00 Sq.km	Latitude: 18.83
Longitude: 74.94	Reservoir Area at FRL: 8.15 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1985	-	-	67.95	52.30	15.65	-	-	-
2	2014	St.Govt. (RS)	29	-	32.54	-	19.76	19.76	37.78

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations As on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 29 Years (Th.Cum/SqKm/yr)
1	1985	-	34	-	0.431*
2	2014	29		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

SIRPUR

State: Maharashtra	District: Gondia	River: Bagh
Year of 1st Impoundment: 1972	MDDL: NA	FRL: NA
Year of Last Survey: 2007	Catchment Area: 432.53 Sq. km	Latitude: 21.05
Longitude: 80.45	Reservoir Area at FRL: 32.97 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1972	-	-	203.84	192.52	11.32	-	-	-
2	2007	CWC (RS)	35	-	159.16	-	33.36	33.36	17.33

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 35 Years (Th.Cum/SqKm/yr)
1	1972	-	47	-	2.204*
2	2007	35		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

SURYA

State: Maharashtra	District: Palghar	River: South Tapi
Year of 1st Impoundment: 1990	MDDL: 85.35 m	FRL: 118.60 m
Year of Last Survey: 2016	Catchment Area: 203.30 Sq. km	Latitude: 19.70
Longitude: 72.85	Reservoir Area at FRL: 15.45 Sq. km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1990	-	-	285.31	276.35	8.96	-	-	-
2	2016	St.Govt (RS)	26	-	178.87	-	97.481	97.481	35.27

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 26 Years (Th.Cum/SqKm/yr)
1	1990	-	29	-	18.442*
2	2016	26		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

TEMBHAPURI

State: Maharashtra	District: Aurangabad	River: Godavari
Year of 1st Impoundment: 2006	MDDL: 489.40 m	FRL: 495.00 m
Year of Last Survey: 2018	Catchment Area: 283.86 Sq. km	Latitude: 19.75
Longitude: 75.19	Reservoir Area at FRL: 6.62 Sq. km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	2006	-	-	21.26	19.62	1.64	-	-	-
2	2018	State Govt. (RS)	12	-	20.09	-	-1.28	-1.28	-6.52

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 12 Years (Th.Cum/SqKm/yr)
1	2006	-	13	-	
2	2018	12		-	

TEMGHAR

State: Maharashtra	District: Pune	River: Mutha
Year of 1st Impoundment: 1997	MDDL: N.A	FRL: N.A
Year of Last Survey: 2010	Catchment Area: 37.70 Sq.km	Latitude: 18.46
Longitude: 73.53	Reservoir Area at FRL: 55.51 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1997	-	-	70.71	67.76	2.95	-	-	-
2	2010	CWC (RS)	13	-	62.25	-	5.51	5.51	8.13

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 13 Years (Th.Cum/SqKm/yr)
1	1997	-	22	-	11.243*
2	2010	13		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

TISGAON

State: Maharashtra	District: Nashik	River: Godavari
Year of 1st Impoundment: 1999	MDDL: 628.00 m	FRL: 636.10 m
Year of Last Survey: 2014	Catchment Area: 97.00 Sq. km	Latitude: 20.26
Longitude: 73.95	Reservoir Area at FRL: 0.29 Sq. km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1999	-	-	15.46	12.76	2.70	-	-	-
2	2014	St. Govt (RS)	15	-	10.777	-	1.983	1.983	15.54

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 15 Years (Th.Cum/SqKm/yr)
1	1999	-	20	-	1.363*
2	2014	15		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

TOTLADOH

State: Maharashtra	District: Nagpur	River: Pench
Year of 1st Impoundment: 1982	MDDL: NA	FRL: NA
Year of Last Survey: 2009	Catchment Area: 4273.00 Sq. km	Latitude: 21.65
Longitude: 79.22	Reservoir Area at FRL: 1.09 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1982	-	-	1,241.11	1,091.53	149.58	-	-	-
2	2009	CWC (RS)	27	-	1,018.58	-	72.95	72.95	6.68

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 27 Years (Th.Cum/SqKm/yr)
1	1982	-	37	-	0.632*
2	2009	27		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

TULSHI

State: Maharashtra	District: Kolhapur	River: Tulshi
Year of 1st Impoundment:: 1978	MDDL: 591.31 m	FRL: 616.98 m
Year of Last Survey: 2011	Catchment Area: 34.92 Sq.km	Latitude: 19.19
Longitude: 72.92	Reservoir Area at FRL: 5.20 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1978	-	-	98.29	91.92	6.37	-	-	-
2	2011	St.Govt. (HS)	33	102.10	93.16	8.94	-3.81	-3.81	-3.88

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 33 Years (Th.Cum/SqKm/yr)
1	1978	-	41	-	-
2	2011	33		-	

UMA

State: Maharashtra	District: Akola	River: Tapi
Year of 1st Impoundment: 1983	MDDL: 337.25 m	FRL: 344.00 m
Year of Last Survey: 2016	Catchment Area: 129.76 Sq. km	Latitude: 20.58
Longitude: 74.40	Reservoir Area at FRL: 2.99 Sq. km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1983	-	-	14.010	11.68	2.33	-	-	-
2	2016	St.Govt (RS)	33	-	13.531	-	-1.851	-1.851	-15.85

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 33 Years (Th.Cum/SqKm/yr)
1	1983	-	36	-	-
2	2016	33		-	

UPPER WARDHA

State: Maharashtra	District: Amravati	River: Wardha
Year of 1st Impoundment: 1993	MDDL: 332.30 m	FRL: 342.50 m
Year of Last Survey: 2011	Catchment Area: 4302.00 Sq. km	Latitude: 21.27
Longitude: 78.06	Reservoir Area at FRL: 97.48 Sq. km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1993	-	-	802.98	612.51	190.47	-	-	-
2	2011	CWC (HS)	18	755.49	578.03	177.46	47.49	47.49	5.91

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 18 Years (Th.Cum/SqKm/yr)
1	1993	-	26	-	0.613
2	2011	18		0.613	

VARASGAON

State: Maharashtra	District: Pune	River:: Mose
Year of 1st Impoundment:: 1986	MDDL: 600.50m	FRL: 639.50m
Year of Last Survey: 2007	Catchment Area: 130.00 Sq. km	Latitude: 18.38
Longitude: 73.53	Reservoir Area at FRL: 18.60 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1986	-	-	375.361	363.189	12.172	-	-	-
2	2007	St.Govt. (HS)	21	373.239	361.232	12.007	2.122	2.122	0.57

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 21 Years (Th.Cum/SqKm/yr)
1	1986	-	33	-	0.777
2	2007	21		0.777	

VIR

State: Maharashtra	District: Pune	River: Nira
Year of 1st Impoundment: 1965	MDDL: 562.33 m	FRL: 579.85 m
Year of Last Survey: 2015	Catchment Area: 1756.00 Sq.km	Latitude: 18.14
Longitude: 74.07	Reservoir Area at FRL: 32.67 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1965	-	-	278.50	266.39	12.11	-	-	-
2	2008	St.Govt. (HS)	43	239.145	236.005	3.14	39.355	39.355	14.13
3	2015	St.Govt. (RS)	7	-	168.81	-	-	-	-

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 43 Years (Th.Cum/SqKm/yr)
1	1965	-	54	-	0.521
2	2008	43		0.521	
3	2015	7		-	-

VISAPUR

State: Maharashtra	District: Ahmadnagar	River: Hanga
Year of 1st Impoundment:: 1927	MDDL: 594.00 m	FRL: 607.24 m
Year of Last Survey: 2014	Catchment Area: 412.59 Sq.km	Latitude: 18.80
Longitude: 74.58	Reservoir Area at FRL: N.A	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1927	-	-	37.63	25.61	12.02	-	-	-
2	1974	St.Govt. (HS)	47	26.41	-	-	11.22	11.22	29.82
3	1983	-do-	9	26.12	-	-	0.29	11.51	30.59
4	1988	-do-	5	25.21	-	-	0.91	12.42	33.01
5	2014	St. Govt (RS)	26	-	31.97	-	-	-	-

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 61 Years (Th.Cum/SqKm/yr)
1	1927	-	92	-	0.698
2	1974	47		0.736	
3	1983	9		0.423	
4	1988	5		0.698	
5	2014	26		-	-

WAGHAD

State: Maharashtra	District: Nashik	River: Kolvan
Year of 1st Impoundment: 1978	MDDL: 650.50 m	FRL: 668.50 m
Year of Last Survey: 2014	Catchment Area: 119.00 Sq. km	Latitude: 20.26
Longitude: 78.31	Reservoir Area at FRL: 10.90 Sq. km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last Survey	Cumulative	%Cumulative
1	1978	-	-	75.1	70.85	4.25	-	-	-
2	2011	St. Govt (HS)	33	67.72	65.18	2.54	7.38	7.38	9.83
3	2014	St. Govt (RS)	3	-	63.138	-	-	-	-

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 33 Years (Th.Cum/SqKm/yr)
1	1978	-	41	-	1.879
2	2011	33		1.879	
3	2014	3		-	-

WANDRI

State: Maharashtra	District: Palghar	River: South Tapi
Year of 1st Impoundment: 1984	MDDL: 27.40 m	FRL: 43.60 m
Year of Last Survey: 2016	Catchment Area: 28.53 Sq. km	Latitude: 19.62
Longitude: 72.93	Reservoir Area at FRL: 4.06 Sq. km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1984	-	-	37.108	35.938	1.17	-	-	-
2	2016	St.Govt (RS)	32	-	29.019	-	6.919	6.919	19.25

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 32 Years (Th.Cum/SqKm/yr)
1	1984	-	35	-	7.579*
2	2016	32		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

WARNA

State: Maharashtra	District: Sangli	River: Warna
Year of 1st Impoundment: 1984	MDDL: 588.20 m	FRL: 626.90 m
Year of Last Survey: 2014	Catchment Area: 301.00 Sq.km	Latitude: 17.17
Longitude: 73.80	Reservoir Area at FRL: 45.59 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1984	-	-	974.188	779.348	194.84	-	-	-
2	2003	CWC (HS)	19	925.04	764.44	160.6	49.148	49.148	5.05
3	2014	St. Govt (RS)	11	-	625.947	-	-	-	-

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 19 Years (Th.Cum/SqKm/yr)
1	1984	-	35	-	8.594
2	2003	19		8.594	
3	2014	11		-	

YELDARI

State: Maharashtra	District: Parbhani	River: Purna
Year of 1st Impoundment: 1968	MDDL: 447.75 m	FRL: 461.77 m
Year of Last Survey: 2011	Catchment Area: 7329.70 Sq. km	Latitude: 19.77
Longitude: 76.70	Reservoir Area at FRL: 101.54 Sq. km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1968	-	-	934.44	809.77	124.67	-	-	-
2	1983	St. Govt (HS)	15	849.5	-	-	84.94	84.94	9.09
3	2011	-do-	28	800.1	743.76	56.34	49.4	134.34	14.38

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 43 Years (Th.Cum/SqKm/yr)
1	1968	-	51	-	0.426
2	1983	15		0.773	
3	2011	28		0.241	

YERALWADI

State: Maharashtra	District: Satara	River: Krishna
Year of 1st Impoundment: 1978	MDDL: 694.40 m	FRL: 698.20 m
Year of Last Survey: 2014	Catchment Area: 766.84 Sq.km	Latitude: 17.53
Longitude: 74.49	Reservoir Area at FRL: 6.00 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity(M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1978	-	-	33.24	20.015	13.225	-	-	-
2	2014	St.Govt. (RS)	36	-	17.32	-	2.7	2.7	13.46

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 36 Years (Th.Cum/SqKm/yr)
1	1978	-	41	-	0.098*
2	2014	36		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

KYRDEM KULAI

State: Meghalaya	District: Ri Bhoi	River: Umtru
Year of 1st Impoundment: 1983	MDDL: NA	FRL: NA
Year of Last Survey: 2002	Catchment Area: 150.00 Sq. km	Latitude: 25.73
Longitude: 91.80	Reservoir Area at FRL: NA	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity(M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1983	-	-	-	3.82	-	-	-	-
2	2002	CWC (RS)	19	-	3.41	-	0.41	0.41	10.73

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 15 Years (Th.Cum/SqKm/yr)
1	1920	-	99	-	0.144*
2	2016	96		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

UMIAM

State: Meghalaya	District : Ri Bhoi	River: Umiam
Year of 1st Impoundment: 1965	MDDL: 960.12m	FRL: 980.69 m
Year of Last Survey: 2004	Catchment Area: 220.00Sq.km	Latitude: 25.67
Longitude: 91.90	Reservoir Area at FRL: 9.77 Sq.km	

Findings from Survey

S. No	Year of Survey	Source of data	Period (years)	Reservoir Capacity(M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1965	-	-	179.757	141.80	39.40	-	-	-
2	1990	St. Govt (HS)	25	167.069	137.411	29.658	12.777	12.777	7.108
3	2002	CWC (RS)	12	-	130.12	-	-	-	-
4	2004	St. Govt (HS)	2	159.206	134.689	24.517	7.774	20.551	11.43

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 39 Years (Th.Cum/SqKm/yr)
1	1965	-	54	-	2.396
2	1990	25		2.608	
3	2002	12		-	
4	2004	2		2.379	

BALIMELA

State: Odisha	District: Malkangir	River: Machkund
Year of 1st Impoundment: 1972	MDDL: 438.91 m	FRL: 462.07 m
Year of Last Survey: 2003	Catchment Area: 4908.00 Sq. km	Latitude: 18.25
Longitude: 82.20	Reservoir Area at FRL: 169.08 Sq. km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1972	-	-	3610	2676	934	-	-	-
2	1999	CWC (HS)	27	3327.5	2536.56	790.94	282.5	282.5	7.83
3	2003	CWC (RS)	4	-	2682.17	-	-	-	-

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 27 Years (Th.Cum/SqKm/yr)
1	1972	-	47	-	2.132
2	1999	27		2.132	
3	2003	4		-	

HARABHANGI

State: Odisha	District:	River: Harabhangi
Year of 1st Impoundment: 1998	MDDL: N.A	FRL: N.A
Year of Last Survey: 2012	Catchment Area: 503.80 Sq. km	Latitude: 19.51
Longitude: 84.14	Reservoir Area at FRL: N.A	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1998	-	-	141.2500	86.25	55.00	-	-	-
2	2012	CWC (RS)	14	-	86.60	-	-0.35	-0.35	-0.41

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 14 Years (Th.Cum/SqKm/yr)
1	1998	-	21	-	-
2	2012	14		-	

HIRAKUD

State: Odisha	District: Sambalpur	River: Mahanadi
Year of 1st Impoundment: 1957	MDDL: 179.83 m	FRL: 192.02 m
Year of Last Survey: 2000	Catchment Area: 83395 Sq. km	Latitude: 21.53
Longitude: 83.87	Reservoir Area at FRL: 727.00 Sq. km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1957	-	-	8105.00	5842.88	2262.12	-	-	-
2	1979	St.Govt. (HS)	22	6934.26	5287.802	1646.455	1170.74	1170.74	14.44
3	1981	-do-	2	6626.41	5109.19	1517.22	307.85	1478.59	18.24
4	1986	-do-	5	6613.76	5105.534	1508.229	12.65	1491.24	18.40
5	1991	-do-	5	6210.00	4946.8	1263.28	403.76	1895.00	23.38
6	1995	CWC (RS)	4	-	4934.53	-	-	-	-
7	2000	St.Govt. (HS)	5	5894.795	4821.893	1072.902	315.21	2210.21	27.27

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 43 Years (Th.Cum/SqKm/yr)
1	1957	-	62	-	0.616
2	1979	22		0.638	
3	1981	2		1.846	
4	1986	5		0.030	
5	1991	5		0.968	
6	1995	4		-	
7	2000	5		0.420	

KALO

State: Odisha	District: Mayurhanj	River: Kalo
Year of 1st Impoundment: 1981	MDDL: 71.32 m	FRL: 77.00 m
Year of Last Survey: 2016	Catchment Area: 153.00 sq.km	Latitude: 21.52
Longitude: 86.45	Reservoir Area at FRL: 5.34 sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1981	-	-	29.39	23.93	5.46	-	-	-
2	2016	St. Govt (RS)	35	-	20.86.	-	3.07	3.07	12.85

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 35 Years (Th.Cum/SqKm/yr)
1	1981		38	-	0.574*
2	2016	35		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

MACHHKUND

State: Odisha	District: Koraput	River: Machhkund
Year of 1st Impoundment: 1955	MDDL: 818.36 m	FRL: 838.16 m
Year of Last Survey: 2002	Catchment Area: 1955 Sq. km	Latitude: 18.51
Longitude: 82.44	Reservoir Area at FRL: NA	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1955	-	-	970.5	892.55	77.95	-	-	-
2	2002	CWC (RS)	47	-	954.23	-	-61.68	-61.68	-6.91

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 47 Years (Th.Cum/SqKm/yr)
1	1955	-	64	-	-
2	2002	47		-	

NESA

State: Odisha	District: Mayurbhanj	River: Nesa
Year of 1st Impoundment: 1981	MDDL: 257.15 m	FRL: 263.00 m
Year of Last Survey: NA	Catchment Area: 25.00 sq. km	Latitude: 22.40
Longitude: 86.15	Reservoir Area at FRL: 1.70 sq. km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1981	-	-	7.86	6.65	1.22	-	-	-
2	-	St. Govt (RS)	-	-	5.98	-	0.68	0.68	10.23

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For Years (Th.Cum/SqKm/yr)
1	1981		38	-	-
2	-	-		-	

RAMIAL

State: Odisha	District: Keonjhar	River: Ramial
Year of 1st Impoundment: 1985	MDDL: 107.20 m	FRL: 121.00 m
Year of Last Survey: 2007	Catchment Area: 328.00 Sq. km	Latitude: 21.11
Longitude: 85.60	Reservoir Area at FRL: 14.75 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last Live Survey	Cumulative	%Cumulative
1	1985	-	-	86	75.83	10.17	-	-	-
2	2007	CWC (RS)	22	-	71.37	-	4.46	4.46	5.88

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 22 Years (Th.Cum/SqKm/yr)
1	1985	-	34	-	0.618*
2	2007	22		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

RENGALI

State: Odisha	District: Angul	River: Rengali
Year of 1st Impoundment: 1982	MDDL: 109.72 m	FRL: 123.50 m
Year of Last Survey: 2006	Catchment Area: 25250.00 Sq. km	Latitude: 21.28
Longitude: 85.03	Reservoir Area at FRL: 362.07 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1982	-	-	4494.77	3505.9	988.87	-	-	-
2	2001	CWC (RS)	19	-	3217.74	-	-	-	-
3	2006	CWC (HS)	5	3749.75	3130.51	619.24	745.02	745.02	16.58

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 24 Years (Th.Cum/SqKm/yr)
1	1982	-	37	-	1.229
2	2001	19		-	
3	2006	5		1.229	

SALANDI

State: Odisha	District: Keonjhar	River: Salandi
Year of 1st Impoundment: 1982	MDDL: 50.24 m	FRL: 82.3 m
Year of Last Survey: 2009	Catchment Area: 673.00Sq. km	Latitude: 21.29
Longitude: 86.29	Reservoir Area at FRL: 31.82 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1982	-	-	565	556.50	8.50	-	-	-
2	2009	CWC (RS)	27	-	518.61	-	37.89	37.89	6.81

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 27 Years (Th.Cum/SqKm/yr)
1	1982	-	37	-	2.085*
2	2009	27		1.23	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

SUNEI

State: Odisha	District: Mayurbhanj	River: Sunei
Year of 1st Impoundment: 1991	MDDL: 72.00 m	FRL: 85.00 m
Year of Last Survey: 2007	Catchment Area: 227.00km	Latitude: 21.44
Longitude: 86.45	Reservoir Area at FRL: 7.77 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1991	-	-	70.00	61.60	8.40	-	-	-
2	2007	CWC (RS)	16	-	59.50	-	2.1	2.1	3.41

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 16 Years (Th.Cum/SqKm/yr)
1	1991	-	28	-	0.578*
2	2007	16		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

UPPER INDRAVATI

State: Odisha	District: Nawarangpur	River: Upper inderavati
Year of 1st Impoundment: 1989	MDDL: 625.00m	FRL: 642.00m
Year of Last Survey: 2007	Catchment Area: 2636.00 Sq. km	Latitude: 19.27
Longitude: 82.82	Reservoir Area at FRL: 110.00 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1989	-	-	2,307.71	1,455.77	851.94	-	-	-
2	2007	CWC (RS)	18	-	1,483.91	-	-28.14	-28.14	-1.93

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 18 Years (Th.Cum/SqKm/yr)
1	1989	-	30	-	-
2	2007	18		-	

UPPER KOLAB

State: Odisha	District: Koratpur	River: Kolab
Year of 1st Impoundment: 1986	MDDL: 844.00 m	FRL: 858.00 m
Year of Last Survey: 2011	Catchment Area: 1630.00 Sq. km	Latitude: 18.79
Longitude: 82.60	Reservoir Area at FRL: 113.50 Sq. km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1986	-	-	1,215.00	935.00	280.00	-	-	-
2	2011	CWC (HS)	25	1073.95	859.19	214.76	141.05	141.05	11.61

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 25 Years (Th.Cum/SqKm/yr)
1	1986	-	33	-	3.461
2	2011	25		3.461	

BISALPUR

State: Rajasthan	District: Tonk	River: Banas
Year of 1st Impoundment: 1994	MDDL: 296.80 m	FRL: 315.50 m
Year of Last Survey: 2009	Catchment Area: 27726.00 Sq. km	Latitude: 25.92
Longitude: 75.45	Reservoir Area at FRL: 218.36 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1994	-	-	1095.94	1041.05	54.89	-	-	-
2	2009	CWC (RS)	15	-	946.25	-	94.80	94.80	9.11

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 15 Years (Th.Cum/SqKm/yr)
1	1994	-	25	-	0.228*
2	2009	15		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

GUDHA

State: Rajasthan	District: Bundi	River: Mej
Year of 1st Impoundment: 1958	MDDL: 295.35 m	FRL: 305.86 m
Year of Last Survey: 2007	Catchment Area: 744.96 Sq. km	Latitude: 25.50
Longitude: 75.46	Reservoir Area at FRL: 18.59 sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1958	-	-	95.57	93.59	1.98	-	-	-
2	2007	CWC (RS)	49	-	68.39	-	25.20	25.20	26.93

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 49 Years (Th.Cum/SqKm/yr)
1	1958	-	61	-	0.69*
2	2007	49		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

JAKHAM

State: Rajasthan	District: Pratapgarh	River: Jakham
Year of 1st Impoundment: 1986	MDDL: 322.00 m	FRL: 359.50 m
Year of Last Survey: 2003	Catchment Area: 1010.00 Sq. km	Latitude: 24.17
Longitude: 74.59	Reservoir Area at FRL: 10.15 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1986	-	-	142.02	132.28	9.74	-	-	-
2	2003	CWC. (RS)	17	-	175.45	-	-43.17	-43.17	-32.64

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 17 Years (Th.Cum/SqKm/yr)
1	1986	-	33	-	-
2	2003	17		-	

JAWAI

State: Rajasthan	District : Junagarh	River: Jawai
Year of 1st Impoundment: 1957	MDDL: 967.00 m	FRL: 1028.25 m
Year of Last Survey: 2009	Catchment Area: 720 Sq.km	Latitude: 25.07
Longitude: 73.17	Reservoir Area at FRL : 25.90 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1957	-	-	207.5	193.48	14.02	-	-	-
2	2009	CWC (RS)	52	-	196.79	-	-3.31	-3.31	-1.71

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 52 Years (Th.Cum/SqKm/yr)
1	1957	-	62	-	-
2	2009	52		-	

MAHI BAJAJ SAGAR

State: Gujarat	District: Banswara	River: Mahi
Year of 1st Impoundment: 1983	MDDL: 259.00 m	FRL: 281.50 m
Year of Last Survey: 2005	Catchment Area: 6149.00 Sq. km	Latitude: 23.61
Longitude: 74.55	Reservoir Area at FRL : 134.00 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1983	-	-	2,180.00	1,833.50	346.50	-	-	-
2	1993	CWC (RS)	10	-	1491.70	-	341.8	341.8	18.64
3	2005	-do-	12	-	1692.288	-	-200.588	141.21	7.70

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 22 Years (Th.Cum/SqKm/yr)
1	1983	-	36	-	1.044*
2	1993	10		-	
3	2005	12		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

PARBATI

State: Rajasthan	District: Dholpur	River: Parbati
Year of 1st Impoundment: 1963	MDDL: 212.66 m	FRL: 223.42 m
Year of Last Survey: 2003	Catchment Area: 786.00 Sq. km	Latitude: 26.63
Longitude: 77.44	Reservoir Area at FRL: 23.00 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1963	-	-	115.23	102.89	12.34	-	-	-
2	2003	CWC (RS)	40	-	86.40	-	86.40	86.40	16.03

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 40 Years (Th.Cum/SqKm/yr)
1	1963	-	56	-	0.524*
2	2003	40		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

RAMSAGAR

State: Rajasthan	District : Alwar	River: Bamani
Year of 1st Impoundment: 1905	MDDL: NA	FRL: NA
Year of Last Survey: 2003	Catchment Area: 176.00 Sq.km	Latitude: 26.30
Longitude: 75.16	Reservoir Area at FRL : 2.60	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1905	-	-	30.83	29.39	1.44	-	-	-
2	2003	CWC (RS)	98	-	24.66	-	4.73	4.73	16.09

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 98 Years (Th.Cum/SqKm/yr)
1	1905	-	114	-	0.274*
2	2003	98		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

RANA PRATAP SAGAR

State: Rajasthan	District: Chittaurgarh	River: Chambal
Year of 1st Impoundment: 1970	MDDL: 343.00 m	FRL: 352.80 m
Year of Last Survey: 2011	Catchment Area: 25305 Sq. km	Latitude: 24.79
Longitude: 75.57	Reservoir Area at FRL: 199.00 Sq. km	

Survey Details

S. No	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1970	-	-	3128.11	1715.74	1412.37	-	-	-
2	2002	CWC (RS)	32	-	1720.13	-	-	-	-
3	2011	CWC. (HS)	9	2889.52	1715.74	1173.78	238.59	238.59	7.63

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 41 Years (Th.Cum/SqKm/yr)
1	1970	-	49	-	0.230
2	2002	32		-	
3	2011	9		0.23	

URMILA SAGAR

State: Rajasthan	District: Dhaulpur	River: Babudhen
Year of 1st Impoundment: 1905	MDDL: NA	FRL: NA
Year of Last Survey: 2004	Catchment Area: 77.70 Sq. km	Latitude: 26.65
Longitude: 77.76	Reservoir Area at FRL: NA	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1905	-	-	16.22	15.14	1.08	-	-	-
2	2004	CWC (RS)	99	-	14.69	-	0.45	0.45	2.97

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 99 Years (Th.Cum/SqKm/yr)
1	1905	-	114	-	0.059*
2	2004	99		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

RANGIT-III

State: Sikkim	District : North District	River: Rangit
Year of 1st Impoundment:: 2000	MDDL: 627.00 m	FRL: 639.00 m
Year of Last Survey: 2018	Catchment Area: 979.00 Sq.km	Latitude: 27.28
Longitude: 88.28	Reservoir Area at FRL: 0.171 Sq.km	

Findings from Survey

S. No	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	2000	-	-	1.79	1.17	0.62	-	-	-
2	2018	St. Govt (HS)	18	0.69	0.67	0.02	1.1	1.1	61.45

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 18 Years (Th.Cum/SqKm/yr)
1	2000	-	19	-	0.062
2	2018	18		0.062	

TEESTA-V

State: Sikkim	District : North District	River: Teesta
Year of 1st Impoundment:: 2008	MDDL: 568.00 m	FRL: 579.00 m
Year of Last Survey: 2018	Catchment Area: 4307.00 Sq.km	Latitude: 27.25
Longitude: 88.46	Reservoir Area at FRL: 0.58 Sq.km	

Findings from Survey

S . N o.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	2008	-	-	13.52	6.28	7.24	-	-	-
2	2018	St. Govt (HS)	10	9.3	5.57	4.9	4.22	4.22	31.21

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 10 Years (Th.Cum/SqKm/yr)
1	2008	-	11	-	0.098
2	2018	10		0.098	

ADVINA INAR

State: Tamil Nadu	District : Thirunelveli	River: Hanumannathi
Year of 1st Impoundment: 2003	MDDL: 206.80 m	FRL: 247.0 m
Year of Last Survey: 2010	Catchment Area: 15.54 Sq.km	Latitude: 9.07
Longitude: 77.23	Reservoir Area at FRL: 0.3527 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	2003	-	-	4.928	4.928	0	-	-	-
2	2010	St. Govt (HS)	7	4.84	4.84	0	0.09	0.09	1.79

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 7 Years (Th.Cum/SqKm/yr)
1	2003	-	16	-	0.809
2	2010	7		0.809	

ALIYAR

State: Tamil Nadu	District: Coimbatore	River: Aliyar
Year of 1st Impoundment: 1962	MDDL: N.A	FRL: 320.04 m
Year of Last Survey: 2005	Catchment Area: 195.00 Sq. km	Latitude: 10.47
Longitude: 76.97	Reservoir Area at FRL: 6.48 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1962	-	-	112.754	-	-	-	-	-
2	1986	St.Govt. (HS)	24	107.382	-	-	5.372	5.372	4.76
3	1994	-do-	8	108.262	-	-	-0.880	4.492	3.98
4	2004	-do-	10	103.414	-	-	4.848	9.340	8.28
5	2005	CWC (RS)	1	-	99.84	-	-	-	-

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations As on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 42 Years (Th.Cum/SqKm/yr)
1	1962	-	57		1.140
2	1986	24		1.148	
3	1994	8		-	
4	2004	10		2.486	
5	2005	1		-	-

AMRAVATHY

State: Tamil Nadu	District: Tirupur	River: Amravathy
Year of 1st Impoundment: 1958	MDDL: NA	FRL: 358.14 m
Year of Last Survey: 2013	Catchment Area: 839.16 Sq. km	Latitude: 10.42
Longitude: 77.26	Reservoir Area at FRL: 8.50 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1958	-	-	117.163	114.541	2.622	-	-	-
2	1986	St.Govt. (HS)	28	100.32	-	-	16.843	16.843	14.38
3	1994	-do-	8	97.32	-	-	3	19.843	16.94
4	2004	-do-	10	96.5	-	-	0.82	20.663	17.64
5	2009	CWC (RS)	5	-	94.54	-	-	-	-
6	2013	St.Govt. (HS)	4	94.58	-	-	1.92	22.583	19.27

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations As on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 55 Years (Th.Cum/SqKm/yr)
1	1958	-	61	-	0.489
2	1986	28		0.717	
3	1994	8		0.447	
4	2004	10		0.098	
5	2009	5		-	
6	2013	4		0.254	

ANAIKUTTAM

State: Tamil Nadu	District: Virudhunagar	River: Arjuna
Year of 1st Impoundment: 1990	MDDL: 87.50 m	FRL: 95.00 m
Year of Last Survey: 2014	Catchment Area: 795.27 Sq. km	Latitude: 9.50
Longitude: 77.82	Reservoir Area at FRL: 1.98 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1990	St.Govt. (HS)	-	3.602	3.452	0.15	-	-	-
2	2014	-do-	24	3.259	3.259	0	0.343	0.343	9.53

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations As on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 24 Years (Th.Cum/SqKm/yr)
1	1990	-	29	-	0.018
2	2014	24		0.018	

ANAIMADUVU

State: Tamil Nadu	District : Salem	River: Anaimaduvu
Year of 1st Impoundment : 1993	MDDL: 206.8 m	FRL: 416.5 m
Year of Last Survey: 2013	Catchment Area: 145.02 Sq.km	Latitude: 11.78
Longitude: 78.43	Reservoir Area at FRL: 1.07 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1993	-	-	7.56	7.42	0.14	-	-	-
2	2013	St. Govt (HS)	20	7.247	-	-	0.313	0.313	4.14

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 20 Years (Th.Cum/SqKm/yr)
1	1993	-	26	-	0.108
2	2013	20		0.108	

BARUR TANK

State: Tamil Nadu	District : Krishnagiri	River: Pannaiyar
Year of 1st Impoundment: 1919	MDDL: NA	FRL: NA
Year of Last Survey: 1986	Catchment Area: 35.07 Sq.km	Latitude: 12.31
Longitude: 78.32	Reservoir Area at FRL: NA	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1919	-	-	7.04	-	-	-	-	-
2	1986	St. Govt (HS)	67	6.86	-	-	0.18	0.18	2.56

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 67 Years (Th.Cum/SqKm/yr)
1	1919	-	100	-	0.077
2	1986	67		0.077	

BERIJAM

State: Tamil Nadu	District : Dindigul	River: NA
Year of 1st Impoundment: 1911	MDDL: 2135.73 m	FRL: 2144.27 m
Year of Last Survey: 1987	Catchment Area: 7.77 Sq.km	Latitude: 10.18
Longitude: 77.39	Reservoir Area at FRL: 0.42 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1911	-	-	2.195	2.195	0	-	-	-
2	1987	St. Govt (HS)	76	1.804	1.804	0	0.391	0.391	17.81

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 76 Years (Th.Cum/SqKm/yr)
1	1911	-	108	-	0.662
2	1987	76		0.662	

BHAVANI SAGAR

State: Tamil Nadu	District: Erode	River: Bhavani
Year of 1st Impoundment: 1953	MDDL: 256.06 m	FRL: 278.89 m
Year of Last Survey: 2009	Catchment Area: 4134.50 Sq. km	Latitude: 11.46
Longitude: 77.08	Reservoir Area at FRL: 77.67 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1953	-	-	928.896	907.798	21.098	-	-	-
2	1964	CWC (HS)	11	975.18	-	-	- 46.284	-46.284	-4.98
3	1971	-do-	7	909.64	-	-	65.54	19.256	2.07
4	1977	-do-	6	896.88	-	-	12.76	32.016	3.45
5	1983	-do-	6	895.03	-	-	1.85	33.866	3.65
6	2000	CWC (RS)	17	-	702.03	-	-	-	-
7	2006	CWC (HS)	6	735.82	725.94	9.88	159.21	193.076	20.79
8	2009	CWC (RS)	3	-	685.76	-	-	-	-

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations As on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 53 Years (Th.Cum/SqKm/yr)
1	1953	-	66	-	0.881
2	1964	11		-	
3	1971	7		2.265	
4	1977	6		0.514	
5	1983	6		0.075	
6	2000	17		-	

7	2006	6		1.674	
8	2009	3		-	-

CHITTAR-I

State: Tamil Nadu	District: Kanyakumari	River: Chittar
Year of 1st Impoundment: 1970	MDDL: 62.80 m	FRL: 81.99 m
Year of Last Survey: 1997	Catchment Area: 22.01 Sq. km	Latitude: 8.44
Longitude: 77.28	Reservoir Area at FRL: 2.93 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1970	-	-	17.28	11.13	6.15	-	-	-
2	1997	St.Govt (HS).	27	14.43	11.13	3.3	2.85	2.85	16.49

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 27 Years (Th.Cum/SqKm/yr)
1	1970	-	49	-	4.796
2	1997	27		4.796	

CHITTAR-II

State: Tamil Nadu	District: Kanyakumari	River: Chittar
Year of 1st Impoundment: 1972	MDDL: 64.01 m	FRL: 81.99 m
Year of Last Survey: 2010	Catchment Area: 26.16 Sq. km	Latitude: 8.44
Longitude: 77.25	Reservoir Area at FRL: 4.15 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1972	-	-	28.59	17	11.59	-	-	-
2	1998	St.Govt (HS)	26	23.81	17	6.81	4.78	4.78	16.72
3	2010	-do-	12	22.66	17	5.66	1.15	5.93	20.742

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 38 Years (Th.Cum/SqKm/yr)
1	1972	-	47	-	5.965
2	1998	26		7.028	
3	2010	12		3.663	

EMERALD AVALANCHI

State: Tamil Nadu	District: Nilgiris	River: Kundah
Year of 1st Impoundment: 1961	MDDL: 1943.10 m	FRL: 1985.80 m
Year of Last Survey: 2000	Catchment Area: 58.53 Sq.km	Latitude: 11.33
Longitude: 76.62	Reservoir Area at FRL: 3.95 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1961	-	-	156.750	152.800	3.95	-	-	-
2	1981	CWC (HS)	20	145.700	145.700	0	11.05	11.05	7.05
3	2000	-do-	19	149.574	-	-	-3.874	7.176	4.58

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operation As on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 39 Years (Th.Cum/SqKm/yr)
1	1961	-	58	-	3.143
2	1981	20		9.439	
3	2000	19		-	

GADANA

State: Tamil Nadu	District : Tirunelveli	River: Gadana
Year of 1st Impoundment: 1971	MDDL: 106.68 m	FRL: 132.58 m
Year of Last Survey: 2003	Catchment Area: 46.46 Sq.km	Latitude: 8.80
Longitude: 77.31	Reservoir Area at FRL: 0.80 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1971	-	-	9.969	9.969	0	-	-	-
2	2003	St. Govt (HS)	32	8.126	8.126	0	1.843	1.843	18.49

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 32 Years (Th.Cum/SqKm/yr)
1	1971	-	48	-	1.240
2	2003	32		1.24	

GLENNMORGAN (FB)

State: Tamil Nadu	District: Nilgiris	River: Glennmorgan
Year of 1st Impoundment: 1976	MDDL: 1962.90 m	FRL: 1972.10 m
Year of Last Survey: 1998	Catchment Area: 12.43 Sq.km	Latitude: 11.48
Longitude: 76.58	Reservoir Area at FRL: 0.31 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1976	-	-	5.85	5.85	0	-	-	-
2	1998	St.Govt. (HS)	22	3.55	3.55	0	2.30	2.30	39.32

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations As on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 22 Years (Th.Cum/SqKm/yr)
1	1976	-	43	-	8.411
2	1998	22		8.411	

GLENNMORGAN (KARIAPPA)

State: Tamil Nadu	District: Nilgiris	River: Glennmorgan
Year of 1st Impoundment: 1930	MDDL: N.A	FRL: 2018.69 m
Year of Last Survey: 2013	Catchment Area: 2.59 Sq.km	Latitude: 11.50
Longitude: 76.59	Reservoir Area at FRL: 0.17 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1930	-	-	0.74	0.74	0	-	-	-
2	2013	St.Govt. (HS)	83	0.70	0.70	0	0.04	0.04	5.41

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations As on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 83 Years (Th.Cum/SqKm/yr)
1	1930	-	89	-	0.186
2	2013	83		0.186	

GOMUKHINATHI

State: Tamil Nadu	District : Villupuram	River: Gomukhi(Vellar)
Year of 1st Impoundment: 1965	MDDL: N.A	FRL: 183.18 m
Year of Last Survey: 2002	Catchment Area: 292.67 Sq.km	Latitude: 11.77
Longitude: 78.82	Reservoir Area at FRL: 3.6 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1965	-	-	15.86	15.86	0	-	-	-
2	2002	St. Govt (HS)	37	12.947	-	-	2.913	2.913	18.37

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 37 Years (Th.Cum/SqKm/yr)
1	1965	-	54	-	0.269
2	2002	37		0.269	

GUNDERIPALLAM

State: Tamil Nadu	District: Erode	River: Gunderipallam
Year of 1st Impoundment: 1979	MDDL: N.A	FRL: 300.09 m
Year of Last Survey: 2010	Catchment Area: 72.23 Sq.km	Latitude: 11.56
Longitude: 77.37	Reservoir Area at FRL: 0.61 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gros Capacity		
				Gross	Live	Dead	Since Last Survey	Cumulative	%Cumulative
1	1979	-	-	3.06	3.06	0	-	-	-
2	2010	St.Govt. (HS)	31	2.76	-	-	0.30	0.30	9.80

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations As on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 31Years (Th.Cum/SqKm/yr)
1	1979	-	40	-	0.134
2	2010	31		0.134	

KADAMBA TANK

State: Tamil Nadu	District : Tuticorin	River: Thamirabarani
Year of 1st Impoundment: 1904	MDDL: 7.11 m	FRL: 8.96 m
Year of Last Survey: 2005	Catchment Area: N.A	Latitude: 8.59
Longitude: 78.00	Reservoir Area at FRL: 0.07 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1904	-	-	9.58	9.58	-	-	-	-
2	2005	St. Govt (HS)	101	9.329	9.329	-	0.25	0.25	2.62

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 101 Years (Th.Cum/SqKm/yr)
1	1904	-	115	-	-
2	2005	101		0.002	

KAMRAJ SAGAR

State: Tamil Nadu	District: Nilgiris	River: Kundah
Year of 1st Impoundment: 1963	MDDL: 2127.46 m	FRL: 2145.51 m
Year of Last Survey: 2002	Catchment Area: 44.04 Sq.km	Latitude: 11.44
Longitude: 76.65	Reservoir Area at FRL: 0.85 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last Survey	Cumulative	%Cumulative
1	1963	-	-	26.62	23.11	3.51	-	-	-
2	2002	St.Govt. (HS)	39	19.790	19.790	0	6.83	6.83	25.66

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations As on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 39 Years (Th.Cum/SqKm/yr)
1	1963	-	56	-	3.977
2	2002	39		3.977	

KAVERIPAKKAM

State: Tamil Nadu	District : Vellore	River: Palar
Year of 1st Impoundment: 1902	MDDL: NA	FRL: 137.7 m
Year of Last Survey: 1996	Catchment Area: 157.99 Sq.km	Latitude: 12.95
Longitude: 79.46	Reservoir Area at FRL: 16.06 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1902	-	-	41.73	41.73	0	-	-	-
2	1989	St. Govt (HS)	87	37.22	-	-	4.51	4.51	10.81
3	1996	-do-	7	36.93	-	-	0.29	4.80	11.50

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 94 Years (Th.Cum/SqKm/yr)
1	1902	-	117	-	0.323
2	1989	87		0.328	
3	1996	7		0.262	

KODAGANAR

State: Tamil Nadu	District: Dindigul	River: Kodaganar
Year of 1st Impoundment: 1977	MDDL: 192.00 m	FRL: 200.25 m
Year of Last Survey: 2007	Catchment Area: 1670.00 Sq.km	Latitude: 10.58
Longitude: 77.97	Reservoir Area at FRL: 4.12 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1977	-	-	12.291	12.291	0	-	-	-
2	2007	St.Govt. (HS)	30	10.136	10.136	0	2.155	2.155	17.53

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations As on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 30 Years (Th.Cum/SqKm/yr)
1	1977	-	42	-	0.043
2	2007	30		0.043	

KRISHNAGIRI

State: Tamil Nadu	District: Krishnagiri	River: Ponnaiyar
Year of 1st Impoundment: 1957	MDDL: NA	FRL: 483.11 m
Year of Last Survey: 2014	Catchment Area: 5428.00 Sq.km	Latitude: 12.47
Longitude: 78.18	Reservoir Area at FRL: 12.46 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last Survey	Cumulative	%Cumulative
1	1957	-	-	68.2	66.1	2.1	-	-	-
2	1976	St. Govt (HS)	19	50.47	-	-	17.73	17.73	26.00
3	1981	-do-	5	47.78	-	-	2.69	20.42	29.94
4	1983	-do-	2	47.18	-	-	0.6	21.02	30.82
5	2006	-do-	23	39.7	-	-	7.48	28.5	41.79
6	2014	CWC (RS)	8	-	43.537	-	-	-	-

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 49 Years (Th.Cum/SqKm/yr)
1	1957	-	62	-	0.107
2	1976	19		0.172	
3	1981	5		0.099	
4	1983	2		0.055	
5	2006	23		0.060	
6	2014	8		-	

KUNDAH

State: Tamil Nadu	District: Nilgiris	River: Kundah
Year of 1st Impoundment: 1960	MDDL: 1609.34 m	FRL: 1624.60 m
Year of Last Survey: 1982	Catchment Area: 113.96 Sq.km	Latitude: 11.28
Longitude: 76.65	Reservoir Area at FRL: 2.10 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1960	-	-	1.76	1.56	0.2	-	-	-
2	1977	St.Govt. (HS)	17	0.78	0.78	0	0.98	0.98	55.68
3	1982	-do-	5	0.65	0.65	0	0.13	1.11	63.07

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations As on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 22 Years (Th.Cum/SqKm/yr)
1	1960	-	59	-	0.443
2	1977	17		0.506	
3	1982	5		0.228	

KUDHIRAIYAR

State: Tamil Nadu	District: Dindigul	River: Kudhiraiyar
Year of 1st Impoundment: 1990	MDDL: N.A	FRL: 386.38 m
Year of Last Survey: 2002	Catchment Area: 71.40 Sq.km	Latitude: 10.38
Longitude: 77.37	Reservoir Area at FRL: 0.73 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1990	St.Govt. (HS)	-	7.36	7.36	0	-	-	-
2	2002	-do -	12	7.31	-	-	0.05	0.05	0.68

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations As on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 12 Years (Th.Cum/SqKm/yr)
1	1990	-	29	-	0.058
2	2002	12		0.058	

MADHURANTHAGAM

State: Tamil Nadu	District : Kancheepuram	River : Killivaru
Year of 1st Impoundment : 1798	MDDL: NA	FRL: 31.05 m
Year of Last Survey: 2005	Catchment Area: 34.82 Sq.km	Latitude: 12.52
Longitude: 79.87	Reservoir Area at FRL: 9.76 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1798	-	-	17.25	17.25	0	-	-	-
2	2005	St. Govt (HS)	207	16.08	-	-	1.17	1.17	6.78

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 207 Years (Th.Cum/SqKm/yr)
1	1798	-	221	-	0.162
2	2005	207		0.162	

MANIMUKTHANADI

State: Tamil Nadu	District : Villupuram	River : Manimuktha
Year of 1st Impoundment : 1970	MDDL: NA	FRL: 36.0m
Year of Last Survey: 2012	Catchment Area: 478.72 Sq.km	Latitude: 11.80
Longitude: 78.98	Reservoir Area at FRL: 7.37 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1970	-	-	20.88	20.88	-	-	-	-
2	2012	St. Govt (HS)	42	18.276	-	-	2.604	2.604	12.47

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 42 Years (Th.Cum/SqKm/yr)
1	1970	-	49	-	0.13
2	2012	42		0.13	

MANIMUTHAR

State: Tamil Nadu	District : Thirunelveli	River : Thamirabarani
Year of 1st Impoundment : 1958	MDDL: 73.15 m	FRL: 109.12 m
Year of Last Survey: 2006	Catchment Area: 161.62 Sq.km	Latitude: 8.65
Longitude: 77.40	Reservoir Area at FRL: 9.4 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1958	-	-	159.734	159.502	0.232	-	-	-
2	1980	St. Govt (HS)	22	155.41	155.41	0	4.324	4.324	2.71
3	1988	-do-	8	154.2207	154.2207	0	1.1893	5.5133	3.45
4	2006	-do-	18	149.448	149.448	0	4.773	10.286	6.439

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 48 Years (Th.Cum/SqKm/yr)
1	1958	-	61	-	1.326
2	1980	22		1.216	
3	1988	8		0.920	
4	2006	18		1.641	

MANJALAR

State: Tamil Nadu	District : Theni	River : Manjalar
Year of 1st Impoundment : 1967	MDDL: 288.95m	FRL: 306.32 m
Year of Last Survey: 2009	Catchment Area: 119.14 Sq.km	Latitude: 10.20
Longitude: 77.63	Reservoir Area at FRL: 1.97 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1967	-	-	13.759	13.759	0	-	-	-
2	1992	St. Govt (HS)	25	10.632	10.632	0	3.127	3.127	22.73
3	1996	-do-	4	10.369	10.369	0	0.263	3.39	24.64
4	2009	-do-	13	9.447	9.447	0	0.922	4.312	31.34

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 42 Years (Th.Cum/SqKm/yr)
1	1967	-	52	-	0.862
2	1992	25		1.050	
3	1996	4		0.552	
4	2009	13		0.594	

MANODAI

State: Tamil Nadu	District: Erode	River: Bhavani
Year of 1st Impoundment: 1962	MDDL: N.A	FRL: N.A
Year of Last Survey: 1986	Catchment Area: 21.42 Sq.km	Latitude: 10.95
Longitude: 78.97	Reservoir Area at FRL: 1.90 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1962	-	-	2.472	-	-	-	-	-
2	1986	St. Govt. (HS)	24	2.3095	-	-	0.1625	0.1625	6.57

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations As on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 24 Years (Th.Cum/SqKm/yr)
1	1962	-	57	-	0.316
2	1986	24		0.316	

MARAVAKANDY

State: Tamil Nadu	District: Nilgiris	River: Pykara
Year of 1st Impoundment: 1947	MDDL: 908.20 m	FRL: 914.00 m
Year of Last Survey: 2004	Catchment Area: 20.72 Sq.km	Latitude: 11.57
Longitude: 76.65	Reservoir Area at FRL: 1.98 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1947	-	-	0.959	0.822	0.137	-	-	-
2	2004	St.Govt. (HS)	57	0.608	0.608	-	0.351	0.351	36.60

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations As on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 57 Years (Th.Cum/SqKm/yr)
1	1947	-	72	-	0.297
2	2004	57		0.297	

MARUDHANATHI

State: Tamil Nadu	District: Dindigul	River: Marudhanadhi
Year of 1st Impoundment: 1979	MDDL: 307.85 m	FRL: 327.36 m
Year of Last Survey: 2010	Catchment Area: 53.32 Sq.km	Latitude: 10.26
Longitude: 77.69	Reservoir Area at FRL: 0.66 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1979	-	-	5.338	5.112	0.226	-	-	-
2	1998	St.Govt. (HS)	19	5.220	5.220	0	0.118	0.118	2.21
3	2010	-do-	12	4.927	4.927	0	0.293	0.411	7.70

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations As on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 31 Years (Th.Cum/SqKm/yr)
1	1979	-	40	-	0.249
2	1998	19		0.117	
3	2010	12		0.458	

METTUR

State: Tamil Nadu	District: Salem	River: Cauvery
Year of 1st Impoundment: 1934	MDDL: 219 m	FRL: 240.80 m
Year of Last Survey: 2004	Catchment Area: 42200.00 Sq.km	Latitude: 11.80
Longitude: 77.81	Reservoir Area at FRL: 138.75 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1934	-	-	2708.764	2646.74	62.02	-	-	-
2	1978		44	2264.32	-	-	444.444	444.44	16.41
3	1984	St.Govt. (HS)	6	2175.432	-	-	88.89	533.33	19.69
4	2004	-do-	20	1994.192	-	-	181.24	741.572	26.38

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations As on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 70 Years (Th.Cum/SqKm/yr)
1	1934	-	85	-	0.242
2	1978	44		0.239	
3	1984	6		0.351	
4	2004	20		0.215	

MUKURTHY

State: Tamil Nadu	District: Nilgiris	River: Pykara
Year of 1st Impoundment: 1938	MDDL: 2076.20 m	FRL: 2098.70 m
Year of Last Survey: 2006	Catchment Area: 25.25 Sq.km	Latitude: 11.40
Longitude: 76.55	Reservoir Area at FRL: 3.64 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1938	-	-	50.98	50.71	0.27	-	-	-
2	1993	St.Govt. (HS)	55	34.585	34.585	0	16.395	16.395	32.16
3	2006	-do-	13	31.99	31.99	0	2.595	18.99	37.250

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations As on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 68 Years (Th.Cum/SqKm/yr)
1	1938	-	81	-	11.060
2	1993	55		11.806	
3	2006	13		7.906	

NAGAVATHY

State: Tamil Nadu	District: Dharmapuri	River: Nagavathy
Year of 1st Impoundment: 1985	MDDL: N.A	FRL: 354.50 m
Year of Last Survey: 2012	Catchment Area : 105.36 Sq.km	Latitude: 12.05
Longitude: 78.03	Reservoir Area at FRL: 1.18 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last Survey	Cumulative	%Cumulative
1	1985	-	-	4.652	4.652	0	-	-	-
2	2012	St.Govt. (HS)	27	4.175	-	-	0.477	0.477	10.25

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last surveys	Year of operations As on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 27 Years (Th.Cum/SqKm/yr)
1	1985	-	34	-	0.168
2	2012	27		0.168	

PALAR PORANTHALAR

State: Tamil Nadu	District: Dindigul	River: Palar Poranthalar
Year of 1st Impoundment: 1978	MDDL: N.A	FRL: 339.85 m
Year of Last Survey: 2000	Catchment Area: 259.00 Sq.km	Latitude: 10.37
Longitude: 77.49	Reservoir Area at FRL: 5.18 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1978	-	-	43.19	43.19	0	-	-	-
2	2000	St.Govt. (HS)	22	41.63	-	-	1.56	1.56	3.61

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last surveys	Year of operations As on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 22 Years (Th.Cum/SqKm/yr)
1	1978	-	41	-	0.274
2	2000	22		0.274	

PAMBAR

State: Tamil Nadu	District : Krishnagiri	River: Pambar
Year of 1st Impoundment : 1983	MDDL: N.A	FRL: 321 .0 m
Year of Last Survey: 2013	Catchment Area: 1736.00 Sq.km	Latitude: 12.27
Longitude: 78.57	Reservoir Area at FRL: 1.78 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1983	-	-	7.93	7.02	0.91	-	-	-
2	2013	St. Govt (HS)	30	7.54	-	-	0.39	0.39	4.92

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 30 Years (Th.Cum/SqKm/yr)
1	1983	-	36	-	0.007
2	2013	30		0.007	

PARAMBIKULAM

State: Tamil Nadu	District: Coimbatore	River:: Parambikulam
Year of 1st Impoundment: 1967	MDDL: N.A	FRL: 556.26 m
Year of Last Survey: 2013	Catchment Area: 230.50 Sq. km	Latitude: 10.39
Longitude: 76.77	Reservoir Area at FRL: 20.72 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1967	-	-	504.66	379.71	124.95	-	-	-
2	2005	CWC (RS)	38	-	373.66	-	-	-	-
3	2013	St.Govt (HS)	8	442.298	-	-	62.362	62.362	12.36

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 46 Years (Th.Cum/SqKm/yr)
1	1967	-	52	-	5.882
2	2005	38		-	
3	2013	8		5.882	

PARAPPALAR

State: Tamil Nadu	District: Dindigul	River: Nangangi
Year of 1st Impoundment: 1974	MDDL: 527.31 m	FRL: 554.74 m
Year of Last Survey: 2003	Catchment Area: 72.88 Sq.km	Latitude: 10.43
Longitude: 77.69	Reservoir Area at FRL: 1.15 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1974	-	-	5.606	5.606	0	-	-	-
2	2003	St.Govt. (HS)	29	4.021	4.021	9	1.585	1.585	28.27

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last surveys	Year of operation As on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 29 Years (Th.Cum/SqKm/yr)
1	1974	-	45	-	0.750
2	2003	29		0.750	

PARSON' VALLEY

State: Tamil Nadu	District: Nilgiris	River: Kundah
Year of 1st Impoundment: 1966	MDDL: 2199.51 m	FRL: 2209.83 m
Year of Last Survey: 1995	Catchment Area: 14.50 Sq.km	Latitude: 11.39
Longitude: 76.60	Reservoir Area at FRL: 1.67 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1966	-	-	19.25	17.19	2.06			
2	1988	St.Govt. (HS)	22	12.7	12.7	0	6.55	6.55	34.03
3	1995	-do-	7	11.0	11.0	0	1.7	8.25	42.86

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last surveys	Year of operations As on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 29 Years (Th.Cum/SqKm/yr)
1	1966	-	53	-	19.620
2	1988	22		20.533	
2	1995	7		16.749	

PECHIPARAI

State: Tamil Nadu	District: Kanyakumari	River: Kodaiyar
Year of 1st Impoundment: 1971	MDDL: 87.48 m	FRL: 92.05 m
Year of Last Survey: 2013	Catchment Area: 172.00 Sq. km	Latitude: 8.45
Longitude: 77.31	Reservoir Area at FRL: 14.57 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1971	-	-	150.27	123.23	27.04	-	-	-
2	1992	St.Govt. (HS)	21	143.813	123.23	20.583	6.457	6.457	4.30
3	1996	-do-	4	123.652	123.23	0.422	20.161	26.618	17.71
4	2009	-do-	13	109.895	109.895	-	13.757	40.375	26.87
5	2010	CWC (RS)	1	-	120.52	-	-	-	-
6	2013	St.Govt. (HS)	3	106.775	106.775	-	3.12	43.495	28.94

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 42 Years (Th.Cum/SqKm/yr)
1	1971	-	48	-	6.021
2	1992	21		1.788	
3	1996	4		29.304	
4	2009	13		6.153	
5	2010	1		-	
6	2013	3		4,535	

PEGUMBAHALLA

State: Tamil Nadu	District: Nilgiris	River: Kundah
Year of 1st Impoundment: 1966	MDDL: 834.86 m	FRL: 869.30 m
Year of Last Survey: 1982	Catchment Area: 41.44 Sq.km	Latitude: 11.25
Longitude: 76.68	Reservoir Area at FRL: 2.05 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1966	-	-	1.07	1.03	0.04	-	-	-
2	1976	St.Govt. (HS)	10	0.80	0.80	0	0.27	0.27	25.23
3	1982	-do-	6	0.63	0.63	0	0.17	0.44	41.12

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last surveys	Year of operations As on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 16 Years (Th.Cum/SqKm/yr)
1	1966	-	53	-	0.664
2	1976	10		0.652	
2	1982	6		0.684	

PERUMAL TANK

State: Tamil Nadu	District: Cuddalore	River: Paravahar
Year of 1st Impoundment: 1961	MDDL: N.A	FRL: 5.45 m
Year of Last Survey: 1998	Catchment Area: 504.59 Sq.km	Latitude: 10.98
Longitude: 77.10	Reservoir Area at FRL: 13.12 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1961	-	-	17.767	17.767	0	-	-	-
2	1998	St.Govt. (HS)	37	14.987	-	-	2.78	2.78	15.65

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last surveys	Year of operations As on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 37 Years (Th.Cum/SqKm/yr)
1	1961	-	58	-	0.149
2	1998	37		0.149	

PERUMPALLAM

State: Tamil Nadu	District: Erode	River: Perumpallam Odai
Year of 1st Impoundment: 1990	MDDL: N.A	FRL: 312.40 m
Year of Last Survey: 2012	Catchment Area: 44.53 Sq.km	Latitude: 11.56
Longitude: 77.31	Reservoir Area at FRL: 0.65 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1990	-	-	3.28	3.28	0	-	-	-
2	2012	St.Govt. (HS)	22	3.146	-	-	0.134	0.134	4.09

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last surveys	Year of operations As on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 22 Years (Th.Cum/SqKm/yr)
1	1990	-	29	-	0.137
2	2012	22		0.137	

PERUNCHANI

State: Tamil Nadu	District: Kanyakumari	River: Kodayar
Year of 1st Impoundment: 1953	MDDL: 69.80 m	FRL: 91.44 m
Year of Last Survey: 2012	Catchment Area: 160.27 Sq. km	Latitude: 8.37
Longitude: 77.36	Reservoir Area at FRL: 9.63 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1953	-	-	65.03	-	-	-	-	-
2	1969	St.Govt. (HS)	16	81.787	-	-	- 16.757	-16.757	-25.7
3	1995	-do-	26	77.00	77.00	0	4.787	-11.97	-18.33
4	2012	-do-	17	69.1	69.1	0	7.9	-4.07	-6.25

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 59 Years (Th.Cum/SqKm/yr)
1	1953	-	62	-	-
2	1969	16		-	
3	1995	26		-	
4	2012	17		-	

PILAVUKKAL PERIYAR

State: Tamil Nadu	District: Virudhunagar	River: Periyar
Year of 1st Impoundment: 1976	MDDL: 190.00 m	FRL: 204.52 m
Year of Last Survey: 2013	Catchment Area: 36.00 Sq.km	Latitude: 9.64
Longitude: 77.53	Reservoir Area at FRL: 0.76 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1976	-	-	5.437	5.437	0	-	-	-
2	2013	St.Govt. (HS)	37	5.173	5.173	0	0.264	0.264	4.86

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last surveys	Year of operations As on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 37 Years (Th.Cum/SqKm/yr)
1	1976	-	43	-	0.198
2	2013	37		0.198	

PILLUR

State: Tamil Nadu	District: Coimbatore	River: Bhavani
Year of 1st Impoundment: 1967	MDDL: 396.25 m	FRL: 426.72 m
Year of Last Survey: 2013	Catchment Area: 1191.40 Sq.km	Latitude: 11.26
Longitude: 76.81	Reservoir Area at FRL: 2.10 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1967	-	-	44.4	34.97	9.43	-	-	-
2	1982	St.Govt. (HS)	15	27.13	27.13	0	17.27	17.27	38.90
	2013	-do-	31	25.91	25.91	0	1.12	18.49	41.64

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last surveys	Year of operations As on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 46 Years (Th.Cum/SqKm/yr)
1	1967	-	52	-	0.337
2	1982	15		0.966	
3	2013	31		0.033	

PONNANIYAR

State: Tamil Nadu	District: Trichy	River: Ponnaniyar
Year of 1st Impoundment: 1974	MDDL: 233.17 m	FRL: 250.30 m
Year of Last Survey: 1995	Catchment Area: 87.02 Sq.km	Latitude: 10.58
Longitude: 78.26	Reservoir Area at FRL: 0.61 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1974	-	-	3.389	3.389	0	-	-	-
2	1990	St.Govt. (HS)	16	2.524	2.524	0	0.865	0.865	25.52
3	1995	-do-	5	2.308	2.308	0	0.216	1.081	31.90

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last surveys	Year of operations As on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 21 Years (Th.Cum/SqKm/yr)
1	1974	-	45	-	0.592
2	1990	16		0.621	
3	1995	5		0.496	

PORTHIMUND

State: Tamil Nadu	District: Nilguries	River: Kundah
Year of 1st Impoundment: 1966	MDDL: 2184.56 m	FRL: 2220.50 m
Year of Last Survey : 1996	Catchment Area: 10.55 Sq.km	Latitude: 11.38
Longitude: 76.57	Reservoir Area at FRL: 2.84 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1966	-	-	60	45.73	14.27	-	-	-
2	1990	St.Govt. (HS)	24	56.451	45.73	10.721	3.549	3.549	5.92
	1996	-do-	6	47.893	45.73	2.163	8.558	12.107	20.18

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last surveys	Year of operations As on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 30 Years (Th.Cum/SqKm/yr)
1	1966	-	53	-	38.253
2	1990	24		14..017	
6	1996	6		135.20	

PYKARA

State: Tamil Nadu	District: Nilgiris	River: Pykara
Year of 1st Impoundment: 1954	MDDL: 2045.21 m	FRL: 2072.90 m
Year of Last Survey : 2010	Catchment Area: 38.10 Sq.km	Latitude: 11.46
Longitude: 76.60	Reservoir Area at FRL: 4.48 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1954	-	-	56.7	54.52	2.28	-	-	-
2	2001	St.Govt. (HS)	47	36.78	36.78	0	19.92	19.92	35.13
3	2010	-do-	9	35.17	35.17	0	1.61	21.53	37.97

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last surveys	Year of operation As on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 56 Years (Th.Cum/SqKm/yr)
1	1954	-	65	-	10.091
2	2001	47		11.124	
6	2010	9		4.70	

SATHANUR

State: Tamil Nadu	District : Thiruvannamalai	River : Ponnaniyar
Year of 1st Impoundment : 1957	MDDL: 203.0 m	FRL: 222.2 m
Year of Last Survey: 1982	Catchment Area: 10826.1 Sq.km	Latitude: 12.18
Longitude: 78.85	Reservoir Area at FRL: 20.1 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1957	-	-	234.828	234.828	0	-	-	-
2	1977	St. Govt (HS)	20	211.651	-	-	23.177	23.177	9.87
3	1982	-do-	5	207.302	-	-	4.349	27.526	11.72

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 25 Years (Th.Cum/SqKm/yr)
1	1957	-	62	-	0.102
2	1977	20		0.107	
3	1982	5		0.080	

SATHIYARAR

State: Tamil Nadu	District : Madurai	River: Sathiyarar
Year of 1st Impoundment : 1965	MDDL: 222.5 m	FRL: 231.34 m
Year of Last Survey: 2010	Catchment Area: 95.71 Sq.km	Latitude: 10.11
Longitude: 78.08	Reservoir Area at FRL: 0.36 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1965	-	-	1.586	1.334	0.252	-	-	-
2	2010	St. Govt (HS)	45	1.129	1.129	0	0.457	0.4574	28.81

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 45 Years (Th.Cum/SqKm/yr)
1	1965	-	54	-	0.106
2	2010	45		0.106	

SHOLAYAR

State: Tamil Nadu	District: Coimbatore	River: Sholayar
Year of 1st Impoundment: 1972	MDDL: N.A	FRL: 1002.79 m
Year of Last Survey: 2007	Catchment Area: 121.68 Sq. km	Latitude: 10.30
Longitude: 76.88	Reservoir Area at FRL: 5.26 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1972	-	-	152.48	142.88	9.60	-	-	-
2	2007	CWC (RS)	35	-	134.16	-	8.72	8.72	6.1

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations As on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 35 Years (Th.Cum/SqKm/yr)
1	1972	-	47	-	2.048*
2	2007	35		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

THIRUMURTHY

State: Tamil Nadu	District: Tirupur	River: palar
Year of 1st Impoundment: 1967	MDDL: N.A	FRL: 407.52 m
Year of Last Survey: 2009	Catchment Area: 80.29 Sq. km	Latitude: 10.48
Longitude: 77.16	Reservoir Area at FRL: 3.88 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1967	.-	-	54.80	49.39	5.41	-	-	-
2	1987	St.Govt. (HS)	20	51.21	-	-	3.59	3.59	5.55
3	1994	-do-	7	49.533	-	-	1.677	5.267	9.61
4	2009	-do-	15	47.804	-	-	1.729	6.996	12.77

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations As on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 42 Years (Th.Cum/SqKm/yr)
1	1967	-	52	-	2.075
2	1987	20		2.236	
3	1994	7		2.984	
4	2009	15		1.436	

THOPPIYAR

State: Tamil Nadu	District: Dharmapuri	River: Thoppiyar
Year of 1st Impoundment: 1987	MDDL: N.A	FRL: 363.60 m
Year of Last Survey : 2012	Catchment Area: 276.90 Sq.km	Latitude: 11.96
Longitude: 78.11	Reservoir Area at FRL: 1.20 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1987	-	-	8.456	8.456	0	-	-	-
2	2012	St.Govt. (HS)	25	7.955	-	-	0.501	0.501	5.92

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last surveys	Year of operation As on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 25 Years (Th.Cum/SqKm/yr)
1	1987	-	32	-	0.072
2	2012	25		0.072	

THUNAKADAVU

State: Tamil Nadu	District: Coimbatore	River: Thunakadavu
Year of 1st Impoundment: 1965	MDDL: N.A	FRL: 593.50
Year of Last Survey: 2013	Catchment Area: 43.36 Sq. km	Latitude: 10.44
Longitude: 76.79	Reservoir Area at FRL: 1.74 Sq. km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1965	-	-	15.76	9.9	5.86	-	-	-
2	2013	St.Govt. (HS)	48	13.15	-	-	2.61	2.61	16.56

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations As on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 48 Years (Th.Cum/SqKm/yr)
1	1965	-	54	-	1.254
2	2013	48		1.254	

UPPAR DAM

State: Tamil Nadu	District: Erode	River: Uppar
Year of 1st Impoundment: 1968	MDDL: N.A	FRL: 276.15 m
Year of Last Survey: 1995	Catchment Area: 903.56 Sq.km	Latitude: 10.78
Longitude: 77.41	Reservoir Area at FRL: 4.53 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1968	-	-	16.2	14.926	1.274	-	-	-
2	1991	St.Govt. (HS)	23	10.049	--	-	6.151	6.151	37.97
3	1995	-do-	4	9.294	-	-	0.755	6.906	42.63

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last surveys	Year of operations As on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 27 Years (Th.Cum/SqKm/yr)
1	1968	-	51	-	0.283
2	1991	23		0.296	
2	1995	4		0.209	

UPPER BHAVANI

State: Tamil Nadu	District: Nilgiris	River: Bhavani
Year of 1st Impoundment: 1965	MDDL: 2249.42 m	FRL: 2276.88 m
Year of Last Survey : 1985	Catchment Area: 33.57 Sq.km	Latitude: 11.23
Longitude: 76.52	Reservoir Area at FRL: 4.77 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1965	-	-	101.20	85.20	16	-	-	-
2	1985	St.Govt. (HS)	20	97.48	85.20	12.28	3.72	3.72	3.68

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last surveys	Year of operations As on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 20 Years (Th.Cum/SqKm/yr)
1	1965	-	54	-	5.541
2	1985	20		5.541	

VAIGAI

State: Tamil Nadu	District : Madurai	River: Vaigai
Year of 1st Impoundment : 1958	MDDL: 257.56 m	FRL: 279.20 m
Year of Last Survey: 2012	Catchment Area: 2255.13 Sq.km	Latitude: 10.05
Longitude: 77.58	Reservoir Area at FRL: 24.20 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1958	-	-	194.785	193.329	1.456	-	-	-
2	1976	St. Govt (HS)	18	178.191	178.191	0	16.594	16.594	8.52
3	1981	-do-	5	172.439	172.439	0	5.752	22.346	11.47
4	1983	-do-	2	172.380	172.380	0	0.059	22.405	11.50
5	2000	-do-	17	167.206	167.206	0	5.174	22.579	2.66
6	2012	-do-	12	162.72	162.72	0	4.486	32.065	16.46

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 54 Years (Th.Cum/SqKm/yr)
1	1958	-	61	-	0.263
2	1976	18		0.409	
3	1981	5		0.510	
4	1983	2		0.013	
5	2000	17		0.135	
6	2012	12		0.166	

VANIYAR

State: Tamil Nadu	District : Dharmapuri	River: Vaniyar
Year of 1st Impoundment : 1983	MDDL: N.A	FRL: 471.0 m
Year of Last Survey: 2010	Catchment Area: 107.76 Sq.km	Latitude: 11.90
Longitude: 78.33	Reservoir Area at FRL: 10.93 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1983	-	-	11.836	11.486	0.35	-	-	-
2	2010	St. Govt (HS)	27	11.151	-	-	0.685	0.685	5.79

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 27 Years (Th.Cum/SqKm/yr)
1	1983	-	36	-	0.235
2	2010	27		0.235	

VARADAMANATHI

State: Tamil Nadu	District: Dindigul	River: Varadamanathi
Year of 1st Impoundment: 1978	MDDL: N.A	FRL: 371.26 m
Year of Last Survey : 1998	Catchment Area: 74.07 Sq.km	Latitude: 10.38
Longitude: 77.55	Reservoir Area at FRL: 0.39 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1978	-	-	3.06	3.06	0	-	-	-
2	1998	St.Govt. (HS)	20	3.14	-	-	-0.08	-0.08	-2.61

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last surveys	Year of operations As on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 20 Years (Th.Cum/SqKm/yr)
1	1978	-	41	-	-
2	1998	20		-	

VARATUPPALAM

State: Tamil Nadu	District: Erode	River: Varattupallam
Year of 1st Impoundment: 1980	MDDL: N.A	FRL: 315.00 m
Year of Last Survey : 2010	Catchment Area: 66.82 Sq.km	Latitude: 11.68
Longitude: 77.56	Reservoir Area at FRL: 0.89 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1980	-	-	3.94	3.94	0	-	-	-
2	2010	St.Govt. (HS)	30	3.66	-	-	0.28	0.28	7.11

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last surveys	Year of operations As on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 30 Years (Th.Cum/SqKm/yr)
1	1980	-	39	-	0.140
2	2010	30		0.140	

VEERANAM

State: Tamil Nadu	District: Cuddalore	River: coleroon
Year of 1st Impoundment: 1923	MDDL: N.A	FRL: 13.87 m
Year of Last Survey : 1991	Catchment Area: 427.35 Sq.km	Latitude: 11.32
Longitude: 79.54	Reservoir Area at FRL: 38.85 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1923	-	-	40.805	40.805	0	-	-	-
2	1991	St.Govt. (HS)	68	27.744	-	-	13.061	13.061	32.01

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last surveys	Year of operations As on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 68 Years (Th.Cum/SqKm/yr)
1	1923	-	96	-	0.449
2	1991	68		0.449	

VEMBAKOTTAI

State: Tamil Nadu	District : Virudhungan	River : Vaippar
Year of 1st Impoundment : 1989	MDDL: 80.5 m	FRL: 87.5 m
Year of Last Survey: 2013	Catchment Area: 1593.55 Sq.km	Latitude: 9.33
Longitude: 77.75	Reservoir Area at FRL: 4.68 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1989	-	-	11.29	11.275	0.015	-	-	-
2	2013	St. Govt (HS)	24	10.168	10.168	0	1.122	1.122	9.94

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 24 Years (Th.Cum/SqKm/yr)
1	1989	-	30	-	0.029
2	2013	24		0.029	

VIDUR

State: Tamil Nadu	District : Villupuram	River : Varahanadi
Year of 1st Impoundment : 1959	MDDL: NA	FRL: 37.80 m
Year of Last Survey: 2009	Catchment Area: 1298.00 Sq.km	Latitude: 12.07
Longitude: 79.58	Reservoir Area at FRL: 7.77 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1959	-	-	17.732	17.732	0	-	-	-
2	2009	St. Govt (HS)	50	14.64	-	-	3.092	3.092	17.44

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 50 Years (Th.Cum/SqKm/yr)
1	1959	-	60	-	0.048
2	2009	50		0.048	

WALLAJAH

State: Tamil Nadu	District : Cuddalore	River : Vellar
Year of 1st Impoundment : 1923	MDDL: NA	FRL: 11.43 m
Year of Last Survey: 1997	Catchment Area: 191.58 Sq.km	Latitude: 12.92
Longitude: 79.36	Reservoir Area at FRL: 4.56 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1923	-	-	2.568	2.568	0	-	-	-
2	1997	St. Govt (HS)	74	1.671	-	-	0.897	0.897	34.93

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 74 Years (Th.Cum/SqKm/yr)
1	1923	-	96	-	0.063
2	1997	74		0.063	

WELLINGDON

State: Tamil Nadu	District : Cuddalore	River : Vellar
Year of 1st Impoundment : 1924	MDDL: NA	FRL: 72.06 m
Year of Last Survey: 1991	Catchment Area: 2849.5 Sq.km	Latitude: 11.42
Longitude: 79.09	Reservoir Area at FRL: 15.54 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1924	-	-	71.46	60.01	11.45	-	-	-
2	1985	St. Govt (HS)	61	55.32	-	-	16.14	16.14	22.59
3	1991	-do-	6	52.032	-	-	3.288	19.428	27.19

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 67 Years (Th.Cum/SqKm/yr)
1	1924	-	95	-	0.102
2	1985	61		0.093	
3	1991	6		0.192	

DINDI

State: Telengana	District: Nalgonda	River: Dindi
Year of 1st Impoundment: 1943	MDDL: 371.00 m	FRL: 396.55 m
Year of Last Survey: 1976	Catchment Area: 3919.96 Sq. km	Latitude: 16.54
Longitude: 78.68	Reservoir Area at FRL: N.A	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1943	-	-	73.83	-	-	-	-	-
2	1976	St.Govt. (HS)	33	71.62	-	-	2.21	2.21	2.99

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 33 Years (Th.Cum/SqKm/yr)
1	1943	-	76	-	0.017
2	1976	33		0.017	

HIMAYATSAGAR

State: Telengana	District: Rangareddy	River: Easa
Year of 1st Impoundment: 1927	MDDL: 526.09 m	FRL: 537.52 m
Year of Last Survey: 1976	Catchment Area: 1307.94 Sq. km	Latitude: 17.32
Longitude: 78.35	Reservoir Area at FRL: 19.70 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1927	-	-	107.79	-	-	-	-	-
2	1976	St.Govt. (HS)	49	79.16	-	-	28.63	28.63	26.56

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 49 Years (Th.Cum/SqKm/yr)
1	1927	-	92	-	0.447
2	1976	49		0.447	

KADDAM

State: Telengana	District: Adilabad	River: Kaddam
Year of 1st Impoundment: 1958	MDDL: 207.26 m	FRL: 213.21 m
Year of Last Survey: 2008	Catchment Area: 2656.25 Sq. km	Latitude: 19.11
Longitude: 78.79	Reservoir Area at FRL: 24.74 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1958	-	-	124.43	-	-	-	-	-
2	1977	St. Govt (HS)	19	78.179	-	-	46.251	46.251	37.17
3	2008	CWC (RS)	31	-	97.54	-	-	-	-

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 19 Years (Th.Cum/SqKm/yr)
1	1958	-	61	-	0.916
2	1977	19		0.916	
3	2008	31		-	

KINNERSANI

State: Telangana	District: Khammam	River: Kinnersani
Year of 1st Impoundment: 1966	MDDL: NA	FRL: 124.08 m
Year of Last Survey: 2010	Catchment Area: 1332.55 Sq. km	Latitude: 17.68
Longitude: 80.65	Reservoir Area at FRL: 26.18 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1966	-	-	237.82	196.76	41.06	-		-
2	2010	CWC (RS)	44	-	166.05	-	30.71	30.71	15.61

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 44 Years (Th.Cum/SqKm/yr)
1	1966	-	53	-	0.524*
2	2010	44		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

LAKHNAVARAM LAKE

State: Telengana	District: Warangal	River: Lakhnnavaram
Year of 1st Impoundment: 1909	MDDL: 86.78 m	FRL: 97.240 m
Year of Last Survey: 1975	Catchment Area: 268.06 Sq. km	Latitude: 18.15
Longitude: 80.06	Reservoir Area at FRL: 2.49 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1909	-	-	60.42	-	-	-	-	-
2	1975	St. Govt (HS)	66	41.58	-	-	18.84	18.84	31.18

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 66 Years (Th.Cum/SqKm/yr)
1	1909	-	110	-	1.065
2	1975	66		1.065	

MANJIRA

State: Telangana	District: Medak	River: Manjira
Year of 1st Impoundment: 1966	MDDL: NA	FRL: NA
Year of Last Survey: 1977	Catchment Area: 16770.25 Sq. km	Latitude: 17.67
Longitude: 78.07	Reservoir Area at FRL: NA	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1966	-	-	50.94	-	-	-	-	-
2	1977	St. Govt (HS)	11	32.20	-	-	18.74	18.74	36.79

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 11 Years (Th.Cum/SqKm/yr)
1	1966	-	53	-	0.102
2	1977	11		0.102	

MUSI

State: Telangana	District:	River: Musi
Year of 1st Impoundment: 1963	MDDL: 584.00 m	FRL: 595.70 m
Year of Last Survey: 2013	Catchment Area: 9090.00 Sq.km	Latitude: 17.26
Longitude: 79.50	Reservoir Area at FRL: 25.25 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last Live Survey	Cumulative	%Cumulative
1	1963	-	-	136.94	130.31	6.63	-	-	-
2	2013	CWC (RS)	50	-	119.82	-	10.49	10.49	8.05

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 50 Years (Th.Cum/SqKm/yr)
1	1963	-	56	-	0.023*
2	2013	50		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

NAGARJUNA SAGAR

State: Telengana	District: Nalgonda	River: Krishna
Year of 1st Impoundment: 1967	MDDL: 149.00 m	FRL: 179.83 m
Year of Last Survey: 2009	Catchment Area: 215185.00 Sq.km	Latitude: 16.58
Longitude: 79.31	Reservoir Area at FRL: 295.19 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1967	-	-	11553	6840	4713	-	-	-
2	1996	CWC (RS)	29	-	5544.63	-	-	-	-
3	2001	CWC (HS)	5	9309.56	6158.19	3151.37	2243.44	2243.44	19.42
4	2009	-do-	8	8836.045	6042.49	2793.555	473.51	2716.96	23.52

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 52 Years (Th.Cum/SqKm/yr)
1	1967	-	52	-	0.301
2	1996	29		-	
3	2001	5		0.307	
4	2009	8		0.275	

NIZAMSAGAR

State: Telengana	District: Nizamabad	River: Manjira
Year of 1st Impoundment: 1930	MDDL: 415.75 m	FRL: 428.25 m
Year of Last Survey: 1992	Catchment Area: 21694.00 Sq. km	Latitude: 18.20
Longitude: 77.92	Reservoir Area at FRL: 14.29 Sq. km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1930	-	-	841.18	-	-	-	-	-
2	1967	St. Govt (HS)	37	402.91	-	-	438.27	438.27	52.10
3	1975	-do-	8	363.7	-	-	39.21	477.48	56.76
4	1992	-do-	17	332.52	-	-	31.18	508.66	60.47

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 62 Years (Th.Cum/SqKm/yr)
1	1930	-	89	-	0.378
2	1967	37		0.546	
3	1975	8		0.226	
4	1992	17		0.085	

PALAIR

State: Telengana	District: Khammam	River: Palair
Year of 1st Impoundment: 1928	MDDL: 126.89 m	FRL: 133.90 m
Year of Last Survey: 1977	Catchment Area: 1686.71 Sq.km	Latitude: 17.20
Longitude: 79.90	Reservoir Area at FRL: 17.27 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1928	-	-	56.56	-	-	-	-	-
2	1977	St.Govt. (HS)	49	55.35	-	-	1.21	1.21	2.14

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 49 Years (Th.Cum/SqKm/yr)
1	1928	-	91	-	0.015
2	1977	49		0.015	

POCHARAM

State: Telengana	District: Medak	River: Allaru Stream
Year of 1st Impoundment: 1922	MDDL: 441.35 m	FRL: 446.23 m
Year of Last Survey: 1978	Catchment Area: 673.40 Sq. km	Latitude: 18.13
Longitude: 78.18	Reservoir Area at FRL: 16.84 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1922	-	-	16.85	-	-	-	-	-
2	1978	St.Govt (HS)	56	13.067	-	-	3.783	3.783	22.45

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 56 Years (Th.Cum/SqKm/yr)
1	1922	-	97	-	0.1
2	1978	56		0.1	

PRIYADARSHINI JURALA

State: Telengana	District: Mahaboobnagar	River: Krishna
Year of 1st Impoundment: 1996	MDDL: N.A	FRL: 318.516 m
Year of Last Survey: 2012	Catchment Area: 82471.00 Sq.km	Latitude: 16.33
Longitude: 77.70	Reservoir Area at FRL: 67.68 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1996	-	-	338.103	192.273	145.83	-	-	-
2	2012	St.Govt. (HS)	16	273.44	168.476	104.964	64.663	64.663	19.13

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 16 Years (Th.Cum/SqKm/yr)
1	1996	-	.	-	0.049
2	2012	16	23	0.049	

RAMAPPA

State: Telengana	District: Warangal	River: Manair
Year of 1st Impoundment: 1919	MDDL: 192.3 m	FRL: 202.97 m
Year of Last Survey: 2007	Catchment Area: 183.81 Sq. km	Latitude: 18.24
Longitude: 79.93	Reservoir Area at FRL: NA	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1919	-	-	82.48	-	-	-	-	--
2	1975	St.Govt (HS)	56	79.82	-	-	2.66	2.66	3.23
3	2007	CWC (RS)	32	-	74.85	-	-	-	-

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 56 Years (Th.Cum/SqKm/yr)
1	1919	-	100	-	0.258
2	1975	56		0.258	
3	2007	32		-	

SHANIGRAM TANK

State: Telangana	District: Karimnagar	River: Siddipet
Year of 1st Impoundment: 1891	MDDL: N.A	FRL: N.A
Year of Last Survey: 1972	Catchment Area: 321.00 Sq. km	Latitude: 18.17
Longitude: 79.01	Reservoir Area at FRL: 6.67 Sq.km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1891	-	-	29.08	-	-	-	-	-
2	1972	St.Govt (HS)	81	26.13	-	-	2.95	2.95	10.14

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 81 Years (Th.Cum/SqKm/yr)
1	1981	-	128	-	0.113
2	1972	81		0.113	

SRIRAM SAGAR

State: Telangana	District: Nizamabad	River: Godavari
Year of 1st Impoundment: 1970	MDDL: 322.5 m	FRL: 332.537 m
Year of Last Survey: 2013	Catchment Area: 54054.00 Sq. km	Latitude: 18.99
Longitude: 78.27	Reservoir Area at FRL: 334.84 Sq. km	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1970	-	-	3171.94	-	-	-	-	-
2	1984	St. Govt. (HS)	14	2377.37	-	-	794.57	794.57	25.05
3	1994	-do-	10	2557.25	2002.44	554.81	-179.88	614.69	19.38
4	1997	CWC (RS)	3	-	1652.24	-	-	-	-
5	2013	St. Govt. (HS)	16	2268.267	1827.759	440.484	288.983	903.673	28.49

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 43 Years (Th.Cum/SqKm/yr)
1	1970	-	49	-	0.389
2	1984	14		1.050	
3	1994	10		-	
4	1997	3		-	
5	2013	16		0.281	

WYRA

State: Telengana	District: Khammam	River: Wyra
Year of 1st Impoundment: 1929	MDDL: N.A	FRL: 95.89 m
Year of Last Survey: 1977	Catchment Area: 709.66 Sq.km	Latitude: 17.20
Longitude: 80.37	Reservoir Area at FRL: N.A	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1929	-	-	24.66	-	-	-	-	-
2	1977	St.Govt. (HS)	48	14.88	-	-	9.78	9.78	39.66

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 48 Years (Th.Cum/SqKm/yr)
1	1929	-	90	-	0.287
2	1977	48		0.287	

GUMTI

State: Tripura	District: Comilla	River: Gumti
Year of 1st Impoundment: 1984	MDDL: NA	FRL: 93.55 m
Year of Last Survey: 2003	Catchment Area: 338.00 Sq.km	Latitude: 23.42
Longitude: 91.80	Reservoir Area at FRL: NA	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1984	-		328.40	312.90	15.50	-	-	-
2	2003	CWC (RS)	-	-	249.07	-	63.83	63.83	20.4

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 19 Years (Th.Cum/SqKm/yr)
1	1984	-	35	-	9.939*
2	2003	19		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

DHUKWAN

State: Uttar Pradesh	District: Jhansi	River: Betwa
Year of 1st Impoundment: 1907	MDDL: NA	FRL: NA
Year of Last Survey: 1980	Catchment Area: 21340.00 Sq. km	Latitude: 25.20
Longitude: 78.54	Reservoir Area at FRL: 6.42 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1907	-	-	106.45	-	-	-	-	-
2	1937	St Govt (HS)	30	79.34	-	-	27.11	27.11	25.47
3	1942	-do-	5	79.3	-	-	0.04	27.15	25.5
4	1947	-do-	5	73.03	-	-	6.27	33.42	31.40
5	1952	-do-	5	66.18	-	-	6.85	40.27	37.83
6	1980	-do-	28	59.03	-	-	7.15	47.42	44.55

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 73 Years (Th.Cum/SqKm/yr)
1	1907	-	112	-	0.030
2	1937	30		0.042	
3	1942	5		0.0004	
4	1947	5		0.059	
5	1952	5		0.064	
6	1980	28		0.012	

JAMNI

State: Uttar Pradesh	District: Lalitpur	River: Jamni
Year of 1st Impoundment: 1973	MDDL: NA	FRL: 138.68m
Year of Last Survey: 2010	Catchment Area: 410.00 Sq. km	Latitude: 24.37
Longitude: 78.68	Reservoir Area at FRL: 247.24 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1973	-	-	92.87	84.09	8.78	-	-	-
2	2010	CWC (RS)	37	-	88.59	-	-4.50	-4.50	-5.35

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 37 Years (Th.Cum/SqKm/yr)
1	1973	-	46	-	-
2	2010	37		-	

MATATILA

State: Uttar Pradesh	District: Lalitpur	River: Betwa
Year of 1st Impoundment: 1956	MDDL: 295.66 m	FRL: 308.48 m
Year of Last Survey: 2018	Catchment Area: 20720.00 Sq. km	Latitude: 25.08
Longitude: 78.37	Reservoir Area at FRL: 143.43 Sq. km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1956	-	-	1132.7	1019.4	113.3	-	-	-
2	1962	CWC (HS)	6	985.76	-	-	146.94	146.94	12.97
3	1964	-do-	2	964.04	-	-	21.72	168.66	14.89
4	1966	-do-	2	956.77	-	-	7.27	175.93	15.53
5	1969	-do-	3	948.25	-	-	8.52	184.45	16.28
6	1971	-do-	2	903.23	-	-	45.02	229.47	20.26
7	1975	-do-	4	882.87	-	-	20.36	249.83	22.06
8	1984	-do-	9	784.3	-	-	98.57	348.4	30.76
9	1990	-do-	6	748.72	-	-	35.58	383.98	33.90
10	1994	-do-	4	763.51	743.71	19.8	-14.79	369.19	32.59
11	1999	-do-	5	702.33	-	-	61.18	430.37	38.00
12	1999	CWC (RS)	0	-	736.02	-	-	-	-
13	2018	-do-	19	-	675.065	-	-	-	-

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 43 Years (Th.Cum/SqKm/yr)
1	1956	-	63	-	0.483
2	1962	6		1.182	
3	1964	2		0.524	
4	1966	2		0.175	
5	1969	3		0.137	
6	1971	2		1.086	
7	1975	4		0.246	
8	1984	9		0.529	
9	1990	6		0.286	
10	1994	4		-	

11	1999	5		0.591	
12	1999	0		-	
13	2018	19		-	

PILI

State: Uttar Pradesh	District: Bijnor	River: Pili
Year of 1st Impoundment: 1962	MDDL: NA	FRL: 257.86 m
Year of Last Survey: 2011	Catchment Area: 162.00 Sq. km	Latitude: 29.35
Longitude: 78.78	Reservoir Area at FRL: 7.80 Sq. km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1962	-	-	55.265	54.275	0.99	-	-	-
2	1991	St. Govt. (HS)	29	42.21	42.21	0	13.055	13.055	23.62
3	2011	-do-	20	39.2	39.2	0	3.01	16.065	29.07

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 49 Years (Th.Cum/SqKm/yr)
1	1962	-	57	-	2.024
2	1991	29		2.779	
3	2011	20		0.929	

RAJGHAT

State: Uttar Pradesh	District: Lalitpur	River: Betwa
Year of 1st Impoundment: 2002	MDDL: NA	FRL: 371.00m
Year of Last Survey: 2004	Catchment Area: 16317.00 Sq. km	Latitude: 24.73
Longitude: 78.28	Reservoir Area at FRL: 2453.10 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	2002	-	-	2205	1984	221	-	-	-
2	2004	CWC (RS)	2	-	1979.98	-	4.02	4.02	0.20

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 2 Years (Th.Cum/SqKm/yr)
1	2002	-	17	-	0.123*
2	2004	2		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

RIHAND

State: Uttar Pradesh	District: Sonebhadra	River: Rihand
Year of 1st Impoundment: 1962	MDDL: NA	FRL: 268.22 m
Year of Last Survey: 2003	Catchment Area: 13333 Sq. km	Latitude: 24.2
Longitude: 83	Reservoir Area at FRL: 377.01 Sq. km	

Survey Details

S. No	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1962	-	-	10608.32	8979.94	1628.38	-	-	-
2	1995	St. Govt (HS)	33	9324.81	8009.94	1314.87	1283.51	1283.51	12.10
3	2003	-do-	8	9019.99	7633.59	1386.4	304.82	1588.33	14.97

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 41 Years (Th.Cum/SqKm/yr)
1	1962	-	57	-	2.906
2	1995	33		2.917	
3	2003	8		0.286	

SIRSI

State: Uttar Pradesh	District:	River: Sirsi
Year of 1st Impoundment: 1958	MDDL: N.A	FRL: N.A
Year of Last Survey: 2013	Catchment Area: 601.00 Sq. km	Latitude: 24.83
Longitude: 82.05	Reservoir Area at FRL: N.A	

Survey Details

S. No	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1958	-		195.64	178.64	17.00	-	-	-
2	2013	CWC (RS)	55	-	149.475	-	29.17	29.17	16.33

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 55 Years (Th.Cum/SqKm/yr)
1	1958	-	61	-	0.882*
2	2013	55		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

BAIGUL

State: Uttarakhand	District: Udham Singh Nagar	River: Baigul
Year of 1st Impoundment: 1968	MDDL: NA	FRL: 208.79 m
Year of Last Survey: 2009	Catchment Area: 302.00 Sq. km	Latitude: 28.88
Longitude: 79.62	Reservoir Area at FRL: 18.93 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1968	-	-	86.68	78.36	8.32	-	-	-
2	1992	St. Govt (HS)	24	70.725	65.225	5.5	15.955	15.955	18.41
3	2005	-do-	13	65.42	65.42	0	5.305	21.26	24.53
4	2009	CWC (RS)	4	-	47.13	-	-	-	-

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 37 Years (Th.Cum/SqKm/yr)
1	1968	-	51	-	1.903
2	1992	24		2.201	
3	2005	13		1.351	
4	2009	4		-	

DHAULIGANGA

State: Uttarakhand	District: Pithoragarh	River: Dhauliganga
Year of 1st Impoundment: 2005	MDDL: 1330 m	FRL: 1345 m
Year of Last Survey: 2018	Catchment Area: 1360.00 Sq. km	Latitude: 29.97
Longitude: 80.57	Reservoir Area at FRL: 0.23 Sq.km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	2005	-	-	6.2	3.2	3	-	-	-
2	2018	St. Govt. (HS)	13	3.4	2.33	1.07	2.8	2.8	45.16

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 13 Years (Th.Cum/SqKm/yr)
1	2005	-	14	-	0.158
2	2018	13		2.1	

DHORA

State: Uttrakhand	District: Udham Singh Nagar	River: Dhora
Year of 1st Impoundment: 1962	MDDL: NA	FRL: 216.41 m
Year of Last Survey: 2005	Catchment Area: 134.68 Sq. km	Latitude: 28.90
Longitude: 79.62	Reservoir Area at FRL: 11.45 Sq. km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1962	-	-	54.809	50.987	3.822	-	-	-
2	1991	St. Govt. (HS)	29	45.645	44.395	1.25	9.164	9.164	16.72
3	2005	-do-	14	43.61	42.94	0.67	2.035	11.199	20.43

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 43 Years (Th.Cum/SqKm/yr)
1	1962	-	57	-	1.934
2	1991	29		2.346	
3	2005	14		1.079	

ICHARI

State: Uttarakhand	District: Dehradun	River: Tons
Year of 1st Impoundment: 1966	MDDL: N.A	FRL: 644.75 m
Year of Last Survey: 2003	Catchment Area: 4913.00 Sq. km	Latitude: 30.61
Longitude: 77.79	Reservoir Area at FRL: 1.13 Sq. km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1966	-	-	11.55	11.55	0	-	-	-
2	1977	St Govt (HS)	11	8.45	8.45	0	3.1	3.1	26.84
3	1982	-do-	5	5.39	5.39	0	3.06	6.16	53.33
4	2003	-do-	21	6.09	6.09	0	-0.7	5.46	47.27

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 37 Years (Th.Cum/SqKm/yr)
1	1966	-	53	-	0.03
2	1977	11		0.06	
3	1982	5		0.12	
4	2003	21		-	

NANAK SAGAR

State: Uttarakhand	District: Udham Singh Nagar	River: Deoha
Year of 1st Impoundment: 1962	MDDL: N.A	FRL: 217.00 m
Year of Last Survey: 2008	Catchment Area: 570.00 Sq. km	Latitude: 28.96
Longitude: 79.85	Reservoir Area at FRL: 35.93 Sq. km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1962	-	-	209.8	200.5	9.3	-	-	-
2	1992	St. Govt (HS)	30	189.067	183.252	5.815	20.733	20.733	9.88
3	2006	CWC (RS)	14	-	112.98	-	-	-	-
4	2008	St. Govt (HS)	2	180.5	175.58	4.92	8.567	29.3	13.97

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 46 Years (Th.Cum/SqKm/yr)
1	1962	-	57	-	1.117
2	1992	30		1.212	
3	2006	14		-	
4	2008	2		0.939	

RAMGANGA

State: Uttarakhand	District: Pauri Garwal	River: Ramganga
Year of 1st Impoundment: 1974	MDDL: NA	FRL: 365.30 m
Year of Last Survey: 2008	Catchment Area: 3134 Sq. km	Latitude: 29.52
Longitude: 78.75	Reservoir Area at FRL: 78.00 Sq. km	

Survey Details

S. No	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1974	-	-	2590.72	2195.5	395.22	-	-	-
2	1988	St. Govt (HS)	14	2508.01	2273.08 8	234.92 2	82.71	82.71	3.19
3	1997	-do-	9	2480.25	2270.14 4	210.10 6	27.76	110.47	4.26
4	2008	-do-	11	2456.47	2260.04	196.43	23.78	134.25	5.18

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 34 Years (Th.Cum/SqKm/yr)
1	1974	-	45	-	1.260
2	1988	14		1.89	
3	1997	9		0.98	
4	2008	11		0.690	

SARDA SAGAR

State: Uttarakhand	District: Udham Singh Nagar	River: Sarda
Year of 1st Impoundment: 1962	MDDL: N.A	FRL: 183.70 m
Year of Last Survey: 2009	Catchment Area: 127.00 Sq. km	Latitude: 28.83
Longitude: 80.04	Reservoir Area at FRL: 46.14 Sq. km	

Survey Details

S. No	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1962	-	-	493.16	364.67	128.49	-	-	-
2	1991	St. Govt (HS)	29	406.28	330.01	76.27	86.88	86.88	17.62
3	2001	CWC (RS)	10	-	298.88	-	-	-	-
4	2009	St. Govt (HS)	8	377.13	307.64	69.49	29.15	116.03	23.53

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 47 Years (Th.Cum/SqKm/yr)
1	1962	-	57	-	19.439
2	1991	29		23.59	
3	2001	10		-	
4	2009	8		12.752	

TANAKPUR

State: Uttarakhand	District: Champawat	River: Sharda
Year of 1st Impoundment: 1992	MDDL: N.A	FRL: 246.70 m
Year of Last Survey: 2018	Catchment Area: 15100.00 Sq. km	Latitude: 29.05
Longitude: 80.12	Reservoir Area at FRL: 2.35 Sq.km	

Survey Details

S. No	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1992	-	-	5.96	-	-	-	-	-
2	2018	St. Govt. (HS)	26	4.05	-	-	1.91	1.91	32.05

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 26 Years (Th.Cum/SqKm/yr)
1	1992	-	27	-	0.005
2	2018	26		0.005	

TEHRI DAM

State: Uttarakhand	District: Tehri	River: Bhagirathi
Year of 1st Impoundment: 2005	MDDL: 740 m	FRL: 830 m
Year of Last Survey: 2008	Catchment Area: 7511.00 Sq. km	Latitude: 30.38
Longitude: 78.48	Reservoir Area at FRL: 43.37 Sq. km	

Survey Details

S. No	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	2005	-	-	3548.512	2632.303	916.209	-	-	-
2	2008	St. Govt. (HS)	3	3527.504	2616.822	910.682	21.01	21.01	0.59

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 3 Years (Th.Cum/SqKm/yr)
1	2005	-	14	-	0.932
2	2008	3		0.932	

DURGAPUR BARRAGE

State: West Bengal	District: Burdwan	River: Damodar
Year of 1st Impoundment: 1955	MDDL: 63.40 m	FRL: 64.40 m
Year of Last Survey: 2011	Catchment Area: 2295.00 Sq. km	Latitude: 23.47
Longitude: 87.30	Reservoir Area at FRL: NA	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1955	-	-	11.85	6.1	5.75	-	-	-
2	2011	CWC. (HS)	56	6.437	3.939	2.498	5.413	5.413	45.68

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 56 Years (Th.Cum/SqKm/yr)
1	1955	-	64	-	0.042
2	2011	56		0.042	

KANGSABATI

State: West Bengal	District: Bankura	River: Kangsabati
Year of 1st Impoundment: 1965	MDDL: 120.39 m	FRL: 134.13 m
Year of Last Survey: 2006	Catchment Area: 3626.00 Sq. km	Latitude: 22.96
Longitude: 86.79	Reservoir Area at FRL: 113.00 Sq. km	

Survey Details

S. No.	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	1965	-	-	1053.65	925.18	128.47	-	-	-
2	2005	CWC (RS)	40	-	400.34	-	-	-	-
3	2006	CWC. (HS)	1	941.93	849.7	92.226	111.72	111.72	10.6

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Years operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 41 Years (Th.Cum/SqKm/yr)
1	1965	-	54	-	0.752
2	2005	40		-	
3	2006	1		0.752	

KUMARI

State: West Bengal	District:	River: Kangsabati
Year of 1st Impoundment: 1975	MDDL: N.A	FRL: N.A
Year of Last Survey: 2005	Catchment Area: 2020.00 Sq. km	Latitude: 23.16
Longitude: 86.28	Reservoir Area at FRL: N.A	

Survey Details

S. No.	Year of Survey	Source of Data	Period (years)	Reservoir Capacity (M.cum)			Loss of Live Capacity		
				Gross	Live	Dead	Since Last RS Survey	Cumulative	%Cumulative
1	1975	-	-	544.65	465.43	79.22	-	-	-
2	2005	CWC (RS)	4	-	441.19	-	24.24	24.24	5.21

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation For 40 Years (Th.Cum/SqKm/yr)
1	1975	-	44	-	0.4*
2	2005	40		-	

* Average Rate of Sedimentation on the basis of Live storage measured by SRS Survey

TLDP-III

State: West Bengal	District : Darjeeling	River: Teesta
Year of 1st Impoundment:: 2013	MDDL: 203.00 m	FRL: 208.00 m
Year of Last Survey: 2016	Catchment Area: 7755.00 Sq.km	Latitude: 27.00
Longitude: 88.44	Reservoir Area at FRL: NA	

Survey Details

S. No	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last Survey	Cumulative	%Cumulative
1	2013	-	-	18.36	6.8	11.57	-	-	-
2	2016	St. Govt (HS)	3	11.17	6.43	4.74	7.19	7.19	39.16

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 3 Years (Th.Cum/SqKm/yr)
1	2013	-	6	-	0.309
2	2016	3		0.309	

TLDP-IV

State: West Bengal	District : Darjeeling	River: Teesta
Year of 1st Impoundment: 2016	MDDL: 179.00 m	FRL: 182.3 m
Year of Last Survey: 2018	Catchment Area: 8021.00 Sq.km	Latitude: 26.93
Longitude: 88.46	Reservoir Area at FRL: NA	

Findings from Survey

S. No	Year of Survey	Source of data	Period (years)	Reservoir Capacity (M.cum)			Loss of Gross Capacity		
				Gross	Live	Dead	Since Last HS Survey	Cumulative	%Cumulative
1	2016	-	-	36.63	7.9	28.73	-	-	-
2	2018	St. Govt (HS)	2	21.22	7.71	13.51	15.41	15.41	42.07

Sedimentation Details

S.No.	Year of Survey	Years elapsed since last survey	Year of operations as on 2019	Observed Rate of Sedimentation Since Last Survey (Th.Cum/SqKm/yr)	Average Rate of Sedimentation for 2 Years (Th.Cum/SqKm/yr)
1	2016	-	3	-	0.961
2	2018	2		0.961	

LIST OF RESERVOIRS HAVING HYDROGRAPHIC SURVEY DETAILS											
Sl. No.	State	Name of Reservoir	Name of River	Catchment Area in Sq.Km.	Year of first impoundment	Year of Last Survey	Gross Storage in MCM	Total loss of gross storage upto last survey	% Loss of Gross Storage upto last survey	Designed Rate of Siltation (Th.Cu.m/ Sq.km./Yr	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	Srisaillam	Krishna	2,06,030.00	1976	2011	8,724.88	2,613.97	29.96	0.08	0.36
3	Arunanchal pradesh	Ranganadi	Ranganadi (Panior)	1,894.00	2002	2017	21.28	15.80	74.25	0.82	0.56
4	Bihar	Badua	Badua	480.70	1965	2006	129.25	15.81	12.23	0.36	0.80
5	Chhattisgarh	Dudhawa	Mahanadi	625.27	1963	2011	288.66	28.53	9.88	-	0.95
6	Chhattisgarh	Minimata Bango	Hasdeo	6,730.00	1990	2001	3,416.00	50.21	1.47	0.55	0.68
7	Chhattisgarh	Ravishankar sagar	Mahanadi	3,670.00	1979	2003	909.32	28.20	3.10	0.39	0.32
8	Goa	Salaulim	Sanguem	209.00	1990	2011	234.36	41.68	17.78	-	9.50
9	Gujarat	Ajwa	Surya Rivulet	177.30	1891	1987	62.70	7.71	12.30	-	0.45
10	Gujarat	Bhadar(P)	Bhadar	407.00	1983	2009	46.72	15.77	33.76	0.36	1.49
11	Gujarat	Bhadar(S)	Bhadar	2,406.00	1964	2004	237.86	91.55	38.49	-	0.95
12	Gujarat	Bhimdad	Madhu	109.82	1953	1986	11.19	4.50	40.21	0.14	1.24
13	Gujarat	Brahmani	Brahmani	699.27	1953	1986	74.95	16.62	22.17	0.72	0.72
14	Gujarat	Chopadvav	Doman	27.00	1985	1998	10.15	4.46	43.92	0.36	12.70
15	Gujarat	Damanganga	Damanganga	1,813.00	1983	2008	567.00	42.14	7.43	0.56	0.93
16	Gujarat	Dantiwada	Banas	2,862.00	1965	2007	464.40	69.07	14.87	0.36	0.57
17	Gujarat	Demi-I	Demi	168.34	1959	1984	21.52	4.97	23.09	-	1.18
18	Gujarat	Deo	Deo	259.00	1986	2005	84.09	16.14	19.20	0.33	3.28
19	Gujarat	Dharoi	Sabarmati	5,475.00	1976	2006	907.83	94.69	10.43	0.36	0.58
20	Gujarat	Dhatarwadi	Dhatarwadi	429.94	1975	1986	32.73	5.93	18.12	0.19	1.25
21	Gujarat	Fulzar-I	Und	142.45	1957	1986	14.90	2.67	17.92	-	0.65
22	Gujarat	Ghee	Ghee	129.49	1953	1986	13.84	1.23	8.89	-	0.29
23	Gujarat	Ghelo-I	Ghelo	103.60	1963	1986	13.35	3.35	25.09	0.38	1.41
24	Gujarat	Godhatad	Mitiariwali	167.04	1977	1987	14.70	0.72	4.90	0.90	0.43

25	Gujarat	Goma	Goma	155.40	1972	1986	18.26	2.35	12.87	0.15	1.08
26	Gujarat	Gondli	Gondli	67.41	1956	1986	11.35	1.24	10.93	-	0.61
27	Gujarat	Hadaf	Hadaf	508.00	1986	2009	32.26	10.17	31.54	0.34	0.87
28	Gujarat	Hathmati	Sabarmati	594.95	1971	1987	160.71	9.43	5.87	0.24	0.99
29	Gujarat	Hiran-I	Hiran	80.91	1966	1987	21.65	1.43	6.61	0.84	0.84
30	Gujarat	Hiran-II	Hiran	168.00	1981	1998	38.58	3.43	8.89	0.19	1.20
31	Gujarat	Kadana	Mahi	25,486.00	1977	2000	1,543.00	293.74	19.04	0.13	0.50
32	Gujarat	Kaila	Kaila	178.05	1956	1987	13.98	5.12	36.62	0.24	0.93
33	Gujarat	Kankavati	Kankavati	207.19	1956	1987	14.62	4.09	27.98	0.19	0.64
34	Gujarat	Karjan	Karjan	1,404.00	1984	2013	630.00	91.25	14.48	0.48	2.24
35	Gujarat	Khodiyar	Shetrunji	383.00	1967	2002	40.35	6.37	15.79	0.07	0.48
36	Gujarat	Limbdi-Bhogavo	Limbdi-Bhogavo	331.50	1960	1986	30.15	7.66	25.41	-	0.89
37	Gujarat	Machhannala	Mahi	245.00	1982	1999	37.91	10.79	28.46	0.34	2.59
38	Gujarat	Machhu-I	Machhu	730.00	1958	1994	83.13	8.04	9.67	0.74	0.31
39	Gujarat	Machhu-II	Machhu	1,193.00	1972	2004	100.56	12.65	12.58	0.48	0.33
40	Gujarat	Madhuvanti	Madhuvanti	45.32	1973	1986	12.14	0.49	4.04	0.83	0.83
41	Gujarat	Mazam	Mazam/Sabarmati	407.00	1984	1998	44.65	0.57	1.28	0.36	0.10
42	Gujarat	Meshwo	Meshwo/Sabarmati	259.00	1968	1997	82.12	28.99	35.30	0.09	3.86
43	Gujarat	Moj	Moj	440.00	1956	1999	52.98	16.29	30.75	0.34	0.86
44	Gujarat	Mukteshwar	Saraswati	306.00	1990	2007	41.00	9.54	23.27	0.36	1.83
45	Gujarat	Nara	Nara	233.03	1975	1987	41.06	1.36	3.31	0.19	0.49
46	Gujarat	Panam	Panam/Mahi	2,314.00	1977	2012	735.80	155.42	21.12	0.36	1.92
47	Gujarat	PataDungri	Khan	212.38	1974	1981	41.06	2.02	4.92	-	1.36
48	Gujarat	Puna	Sasoi	137.27	1954	1986	13.99	4.15	29.66	-	0.94
49	Gujarat	Rajki	Malan	88.06	1964	1986	12.02	2.79	23.21	0.20	1.44
50	Gujarat	Rami	Narmada	25.00	1983	1999	7.08	2.53	35.73	0.19	6.33
51	Gujarat	Ranghola	Rangholi	370.37	1952	1986	44.52	7.84	17.61	0.14	0.62
52	Gujarat	Rudramata	Khari	383.30	1963	1987	64.78	3.62	5.59	0.19	0.39
53	Gujarat	Sanandro	Kali	147.62	1956	1986	12.28	7.04	57.33	0.24	1.59
54	Gujarat	Sani	Sani	506.00	1984	2010	55.08	16.06	29.16	-	1.22
55	Gujarat	Sasoi	Sasoi	562.03	1954	2009	51.00	13.03	25.55	0.17	0.42
56	Gujarat	Shetrunji (Palitana)	Shetrunji	4,317.00	1959	2008	415.41	81.22	19.55	0.48	0.38

57	Gujarat	Sipu	Banas	122.00	1992	2007	177.80	16.37	9.21	0.72	8.95
58	Gujarat	Sukhi	Sukhi	412.00	1987	2005	178.47	1.46	0.82	0.48	0.20
59	Gujarat	Suvi	Suvi	160.52	1964	1987	14.28	3.83	26.82	0.24	1.04
60	Gujarat	Ukai	Tapi	62,225.00	1972	2003	8,510.00	1,095.71	12.88	0.15	0.57
61	Gujarat	Und-I	Und	769.00	1988	2010	72.50	3.46	4.77	0.01	0.20
62	Gujarat	Vartu	Vartu	170.94	1964	1986	13.30	1.60	12.03	0.19	0.43
63	Gujarat	Venu-II	Bhadar	751.00	1989	1999	22.58	7.26	32.17	0.48	0.97
64	Gujarat	Ver-II	Tapi	90.00	1984	1998	38.30	5.67	14.80	0.20	4.50
65	Gujarat	WadhawanBhogavo	WadhawaBhogavo	435.10	1960	1986	18.15	2.67	14.71	-	0.24
66	Gujarat	WadhawanBhogavo-II	WadhawaBhogavo	569.77	1959	1986	23.36	2.97	12.71	0.76	0.19
67	Gujarat	Watrak	Watrak	1,113.70	1984	2003	177.00	15.40	8.70	0.20	0.73
68	Himachal Pradesh	ADHPL	Allain & Duhangan revulets	195.10	2010	2018	0.22	0.00	0.00	-	0.00
69	Himachal Pradesh	Baira	Baira	669.00	1980	2017	3.75	3.05	81.33	-	0.12
70	Himachal Pradesh	Bhakra	Sutlej	56,980.00	1958	2017	9,868.00	2,272.03	23.02	33.61	0.68
71	Himachal Pradesh	Chamera-I	Ravi	4,725.00	1994	2018	391.30	196.20	50.14	1.50	1.73
72	Himachal Pradesh	Chamera-II	Ravi	2,593.00	2003	2018	2.25	0.57	25.33	-	0.01
73	Himachal Pradesh	Chamera-III	Ravi	2,203.00	2012	2018	5.48	2.51	45.80	-	0.19
74	Himachal Pradesh	Koldam	Satluj	53,770.00	2015	2017	576.00	4.75	0.82	-	0.04
75	Himachal Pradesh	Malana-1	Malana	178.50	2001	-	0.25	0.00	0.00	48.03	-
76	Himachal Pradesh	Parbati-III	Sainj	650.00	2014	2018	1.67	0.46	27.54	0.85	0.18
77	Himachal Pradesh	Pong	Indus	12,562.00	1974	2018	8,579.00	1,068.88	12.46	2.01	1.93
78	Jammu & Kashmir	Chutak	Suru	3488	2012	2018	0.588	0.17	28.23	0.57	0.01
79	Jammu & Kashmir	Dulhasti	Chenab	10500	2006	2017	12.98	0.59	4.55	2.24	0.01
80	Jammu & Kashmir	Kishanganga	Kishanganga	1815	2018	2018	18.35	0.00	0.00	0.41	-
81	Jammu & Kashmir	Nimoo Bazgo	Indus	58880	2013	2016	52.82	19.12	36.20	0.12	0.11
82	Jammu & Kashmir	Salal	Chenab	21497	1987	2018	285	272.57	95.64	-	0.41
83	Jammu & Kashmir	Sewa-II	Sewa	341	2010	2018	7.05	1.14	16.17	0.69	0.42
84	Jammu & Kashmir	Uri-I	Jhelum	12750	1997	2018	0.3597	0.12	34.11	0.16	0.00
85	Jammu & Kashmir	Uri-II	Jhelum	13400	2013	2018	6.343	2.01	31.74	0.32	0.03
86	Jharkhand	Getalsud	Subarnarekha	725.00	1971	2001	288.63	21.06	7.30	0.78	0.97
87	Jharkhand	Konar	Konar	997.15	1955	1996	281.13	71.48	25.43	0.62	1.75
88	Jharkhand	Maithon	Barakar	6,294.00	1955	1994	1,348.80	264.04	19.58	0.91	1.08

89	Jharkhand	Mayurakshi (Massanjore)	Mayurakshi	1,860.00	1954	2001	608.20	48.71	8.01	0.38	0.56
90	Jharkhand	Panchet	Damodar	10,966.00	1956	2011	1,581.00	387.54	24.51	0.67	0.64
91	Jharkhand	Tenughat	Damodar	4,481.00	1970	2001	592.18	99.50	16.80	0.47	0.72
92	Jharkhand	Tilaiya	Barakar	984.20	1953	1997	335.83	120.92	36.01	0.76	2.79
93	Karnataka	Almatti	Krishna	35,925.00	2001	2007	3,486.00	150.34	4.31	0.48	0.70
94	Karnataka	Basavasagara (Narayanpur)	Krishna	47,850.00	1982	2007	1,071.55	287.60	26.84	0.02	0.24
95	Karnataka	Bhadra	Krishna	1,968.40	1964	2011	2,025.87	95.74	4.73	-	1.03
96	Karnataka	Ghataprabha (Hidkal)	Ghatraprabha	1,411.55	1974	2000	1,434.14	115.52	8.06	0.41	3.15
97	Karnataka	Harangi	Cauvery	419.58	1982	2009	240.69	23.57	9.79	-	2.08
98	Karnataka	Hemavathy	Cauvery	2,810.00	1979	2009	1,050.63	76.13	7.25	-	0.90
99	Karnataka	Hippargi	Krishna	22,699.00	1998	2007	99.74	3.57	3.58	-	0.02
100	Karnataka	Kabini	Kabini	2,141.90	1974	2010	552.63	23.06	4.17	-	0.30
101	Karnataka	Krishnaraja Sagar	Cauvery	10,620.00	1932	2009	1,400.31	93.91	6.71	-	0.11
102	Karnataka	Linganamakki	Sharavathy	1,991.71	1964	1999	4,435.35	171.83	3.87	0.71	2.46
103	Karnataka	Malaprabha	Malaprabha	2,176.00	1981	1991	1,239.66	78.58	6.34	0.43	3.61
104	Karnataka	Tungabhadra	Tungabhadra	28,180.00	1953	2008	3,751.17	895.28	23.87	0.43	0.58
105	Kerala	Anayirankal	Panniar	65.68	1964	1997	49.84	15.41	30.92	-	7.11
106	Kerala	Chulliar	Bharatpuzha	27.80	1966	2009	13.70	0.48	3.47	-	0.40
107	Kerala	Idamalayar	Idamalayar	481.79	1986	2011	1,208.23	32.04	2.65	-	2.66
108	Kerala	Idukki	Periyar	649.31	1974	1999	1,998.57	25.85	1.29	-	1.59
109	Kerala	Kakki	Kakki	217.55	1966	1999	454.07	25.29	5.57	-	3.52
110	Kerala	Kallada Dam	Kallada	549.00	1986	2018	577.25	169.86	29.43	-	9.67
111	Kerala	Kallarkutty	Mudhirapuzha	759.85	1962	1992	6.80	0.75	11.00	-	0.03
112	Kerala	Kanjirapuzha	Kanjirapuzha	70.00	1980	2017	70.87	21.71	30.64	-	8.38
113	Kerala	Karapuzha Dam	Karapuzha	62.00	2005	2016	76.50	41.79	54.63	-	61.28
114	Kerala	Kundala	Palar	37.55	1948	1994	7.79	1.26	16.20	-	0.73
115	Kerala	Kuttiyadi	Kuttiyadi	108.78	1973	2010	120.52	28.65	23.77	-	7.12
116	Kerala	Madupetty	Palar	104.90	1967	1995	55.22	6.43	11.65	-	2.19
117	Kerala	Malampuzha	Bharathapuzha	147.64	1955	2006	226.00	30.67	13.57	-	4.07
118	Kerala	Mangalam	Cherrukunapuzha	48.85	1966	2015	25.49	5.61	21.99	-	2.34
119	Kerala	Meenkara	Meenkara	90.65	1960	2009	11.33	1.48	13.10	-	0.33

120	Kerala	Neyyar	Neyyar	139.86	1964	2015	106.25	8.91	8.38	-	1.25
121	Kerala	Pazhassy Dam	Pazhassi	640.00	1979	2016	97.50	48.53	49.77	-	2.05
122	Kerala	Peechi	Manali	107.10	1957	2013	110.43	15.48	14.02	-	2.58
123	Kerala	Ponmudi	Panniyar	220.52	1962	1992	51.54	11.08	21.50	-	1.67
124	Kerala	Poomala	Poomala	1.17	1968	2010	0.58	0.01	1.90	-	0.22
125	Kerala	Porinngalkuthu	Chalakudi	512.00	1957	1993	31.99	8.16	25.50	-	0.44
126	Kerala	Pothundi	Bharatpuzha	31.00	1971	2009	50.91	1.81	3.55	-	1.53
127	Kerala	Siruvani dam	Siruvani	22.47	1984	2012	25.50	2.94	11.53	-	4.67
128	Kerala	Vazhani	Wadakkanchery	20.48	1959	2009	18.12	1.00	5.54	-	0.98
129	Kerala	Walayar Dam	Bharathapuzha	106.36	1956	2009	18.40	2.37	12.89	-	0.42
130	Madhya Pradesh	Gandhi Sagar	Chambal	23,025.00	1960	2001	7,746.00	519.85	6.71	0.41	0.55
131	Madhya Pradesh	Sarathi	Vartu	197.57	1974	1986	10.69	3.38	31.62	-	1.43
132	Maharashta	Asolamendha	Pathari	246.00	1918	1994	92.96	29.97	32.24	1.60	1.60
133	Maharashta	Bendsura	Bendsura	188.42	1955	1995	13.12	5.24	39.95	0.30	0.70
134	Maharashta	Bhatghar	Yelwandi	331.50	1927	2007	672.65	108.59	16.14	-	4.09
135	Maharashta	Bhima (Ujjani)	Bhima	14,858.00	1977	2012	3,320.00	423.91	12.77	-	0.82
136	Maharashta	Chankapur	Girna	269.00	1913	2009	79.94	17.52	21.92	-	0.68
137	Maharashta	Dimbhe	Ghod	298.00	2000	2010	394.85	-34.54	-8.75	-	-11.59
138	Maharashta	Ekurk	Adelanalla	412.00	1871	1991	94.30	26.44	28.03	0.15	0.53
139	Maharashta	Gangapur	Godavari	357.40	1965	1997	212.51	48.89	23.01	0.34	4.27
140	Maharashta	Ghod	Ghod	3,586.00	1965	2007	216.30	47.00	21.73	-	0.31
141	Maharashta	Girna	Girna	4,727.30	1969	2010	608.45	42.88	7.05	0.18	0.22
142	Maharashta	Jayakwadi	Godavari	21,774.00	1976	1999	2,909.04	249.80	8.59	-	0.50
143	Maharashta	Karanjvan	Kadwa	248.00	1974	2008	175.57	16.96	9.66	-	2.01
144	Maharashta	Khadakwasla	Mutha	501.80	1879	2007	86.00	-1.87	-2.17	-	-0.03
145	Maharashta	Khaspur	Sina	554.20	1954	1996	19.82	6.34	31.97	0.12	0.27
146	Maharashta	Khelna	Khelna	161.60	1964	1985	12.61	0.70	5.57	0.13	0.21
147	Maharashta	Kolgaon	Hanga	55.74	1956	1988	2.87	1.37	47.87	0.11	0.77
148	Maharashta	Koyna	Koyna	891.78	1962	2012	2,980.68	173.79	5.83	-	3.90
149	Maharashta	Majalgaon	Sindfana	3,840.00	1987	2010	454.00	45.92	10.11	-	0.52
150	Maharashta	Manar	Manar	1,585.08	1969	1999	138.35	18.73	13.54	0.17	0.39
151	Maharashta	Mangi	Kanola	304.00	1955	1995	33.84	3.44	10.15	0.05	0.28
152	Maharashta	Manikdoh	Kukadi	129.00	1984	2006	308.06	34.53	11.21	-	12.17

153	Maharashta	Mhaswad	Man	1,243.20	1888	1990	86.94	45.24	52.04	0.18	0.36
154	Maharashta	Mukti	Motinala	88.60	1893	1991	9.68	2.81	29.03	0.01	0.32
155	Maharashta	Mula	Mula	2,275.86	1972	2008	738.02	41.57	5.63	-	0.51
156	Maharashta	Nalganga	Nalganga	315.98	1963	1985	76.20	4.34	5.69	0.19	0.62
157	Maharashta	Nazare	Karha	397.82	1975	1986	22.32	7.68	34.43	0.24	1.76
158	Maharashta	Panshet	Ambi	120.30	1968	2007	310.62	28.43	9.15	-	6.06
159	Maharashta	Powai	Local nala	6.61	1890	1996	5.45	1.06	19.45	-	1.51
160	Maharashta	Radhnagri	Bhogavati	108.80	1908	2011	236.79	27.97	11.81	-	2.50
161	Maharashta	Ramsagar	Sur	212.35	1914	1987	117.18	14.78	12.61	0.21	0.95
162	Maharashta	Tulshi	Tulshi	34.92	1978	2011	98.29	-3.81	-3.88	-	-3.31
163	Maharashta	Upperwardha	Wardha	4,302.00	1993	2011	802.98	47.49	5.91	0.64	0.61
164	Maharashta	Varasgaon	Musa	130.00	1986	2007	375.36	2.12	0.57	-	0.78
165	Maharashta	Vir	Nira	1,756.00	1965	2008	278.50	39.36	14.13	-	0.52
166	Maharashta	Visapur	Hanga	412.59	1927	1988	37.63	12.42	33.01	0.36	0.49
167	Maharashta	Waghad	Kolvan	119.00	1978	2011	75.10	7.38	9.83	-	1.88
168	Maharashta	Warna	Warna	301.00	1984	2003	974.19	49.15	5.05	-	8.59
169	Maharashta	Yeldari	Puma	7,329.70	1968	2011	934.44	134.34	14.38	0.36	0.43
170	Meghalaya	Umiam	Umiam	220.00	1965	2004	179.76	20.55	11.43	1.78	2.40
171	Odisha	Balimela	Machkund	4,908.00	1972	1999	3,610.00	282.50	7.83	10.46	2.13
172	Odisha	Hirakud	Mahanadi	83395	1957	2000	8,105.00	2,210.21	27.27	0.25	0.62
173	Odisha	Rengali	Rengali	25250	1982	2006	4,494.77	745.02	16.58	-	1.23
174	Odisha	Upper Kolab	Kolab	1,630.00	1986	2011	1,215.00	141.05	11.61	-	3.46
175	Rajasthan	Ranapratap Sagar	Chambal	25,305.00	1970	2011	3,128.11	238.59	7.63	-	0.23
176	Sikkim	Rangit-III	Rangit	979	2000	2018	1.79	1.10	61.45	-	0.06
177	Sikkim	Teesta-V	Teesta	4307	2008	2018	13.52	4.22	31.21	1.39	0.10
178	Tamil Nadu	Adavinainar	Hanumannathi	15.54	2003	2010	4.928	0.09	1.79	-	0.81
179	Tamil Nadu	Aliyar	Aliyar	195.00	1962	2004	112.75	9.34	8.28	-	1.14
180	Tamil Nadu	Amravathy	Amravathy	839.16	1958	2013	117.16	22.58	19.27	-	0.49
181	Tamil Nadu	Anaikuttam	Arjuna	795.27	1990	2014	3.60	0.34	9.52	-	0.02
182	Tamil Nadu	Anaimaduvu	Anaimaduvu	145.02	1993	2013	7.56	0.31	4.14	-	0.11
183	Tamil Nadu	Barur Tank	Pannaiyar	35.07	1919	1986	7.04	0.18	2.56	-	0.08
184	Tamil Nadu	Berijam	-	7.77	1911	1987	2.20	0.39	17.81	-	0.66
185	Tamil Nadu	Bhavanisagar	Bhavani	4,134.50	1953	2006	928.90	193.08	20.79	-	0.88

186	Tamil Nadu	Chittar-I	Chittar	22.01	1970	1997	17.28	2.85	16.49	-	4.80
187	Tamil Nadu	Chittar-II	Chittar	26.16	1972	2010	28.59	5.93	20.74	-	5.97
188	Tamil Nadu	EmeraldAvalanchi	Kundah	58.53	1961	2000	156.75	7.18	4.58	-	3.14
189	Tamil Nadu	Gadana	Gadana	46.46	1971	2003	9.97	1.84	18.49	-	1.24
190	Tamil Nadu	Glennmorgan (FB)	Glennmorgan Stream	12.43	1976	1998	5.85	2.30	39.32	-	8.41
191	Tamil Nadu	Glennmorgan (Kariappa)	Glennmorgan Stream	2.59	1930	2013	0.74	0.04	5.41	-	0.19
192	Tamil Nadu	Gomukhinathi	Gomukhi (Vellar)	292.67	1965	2002	15.86	2.91	18.37	-	0.27
193	Tamil Nadu	Gunderipallam	Gunderipallam	72.23	1979	2010	3.06	0.30	9.80	-	0.13
194	Tamil Nadu	Kadamba Tank	Thamirabarani	-	1904	2005	9.58	0.25	2.62	-	-
195	Tamil Nadu	Kamraj Sagar	Kundah	44.04	1963	2002	26.62	6.83	25.66	-	3.98
196	Tamil Nadu	Kaveripakkam	Palar	157.99	1902	1996	41.73	4.80	11.50	-	0.32
197	Tamil Nadu	Kodaganar	Kodaganar	1,670.00	1977	2007	12.29	2.16	17.53	-	0.04
198	Tamil Nadu	Krishnagiri	Ponnaiyar	5,428.00	1957	2006	68.20	28.50	41.79	-	0.11
199	Tamil Nadu	Kundah	Kundah	113.96	1960	1982	1.76	1.11	63.07	-	0.44
200	Tamil Nadu	Kuthiraiyar	Kuthiraiyar	71.40	1990	2002	7.36	0.05	0.68	-	0.06
201	Tamil Nadu	Madhuranthagam	Killivaru	34.82	1798	2005	17.25	1.17	6.78	-	0.16
202	Tamil Nadu	Manimukthanadi	Manimuktha	478.72	1970	2012	20.88	2.60	12.47	-	0.13
203	Tamil Nadu	Manimuthar	Thamirabarani	161.62	1958	2006	159.73	10.29	6.44	-	1.33
204	Tamil Nadu	Manjalar	Manjalar	119.14	1967	2009	13.76	4.31	31.34	-	0.86
205	Tamil Nadu	Manodai	Cauvery	21.42	1962	1986	2.47	0.16	6.57	-	0.32
206	Tamil Nadu	Maravakandy	Pykara	20.72	1947	2004	0.96	0.35	36.60	-	0.30
207	Tamil Nadu	Marudhanadhi	Marudhanathi	53.32	1979	2010	5.34	0.41	7.70	-	0.25
208	Tamil Nadu	Mettur	Cauvery	42,200.00	1934	2004	2,708.76	714.57	26.38	-	0.24
209	Tamil Nadu	Mukurthy	Pykara	25.25	1938	2006	50.98	18.99	37.25	-	11.06
210	Tamil Nadu	Nagavathy	Nagavathy	105.36	1985	2012	4.65	0.48	10.25	-	0.17
211	Tamil Nadu	Palar Poranthalar	Palar and Poranthalar	259.00	1978	2000	43.19	1.56	3.61	-	0.27
212	Tamil Nadu	Pambar	Pambar	1,736.00	1983	2013	7.93	0.39	4.92	-	0.01
213	Tamil Nadu	Parambikulam	Parambikulam	230.50	1967	2013	504.66	62.36	12.36	-	5.88
214	Tamil Nadu	Parappalar	Nangangi	72.88	1974	2003	5.61	1.59	28.27	-	0.75
215	Tamil Nadu	Parson' Valley	Kundah	14.50	1966	1995	19.25	8.25	42.86	-	19.62
216	Tamil Nadu	Pechipparai	Kodayar	172.00	1971	2013	150.27	43.50	28.94	-	6.02

217	Tamil Nadu	Pegumbahalla	Kundah	41.44	1966	1982	1.07	0.44	41.12	-	0.66
218	Tamil Nadu	Perumal Tank	Paravahar	504.59	1961	1998	17.77	2.78	15.65	-	0.15
219	Tamil Nadu	Perumpallam	Perumpallam Odai	44.53	1990	2012	3.28	0.13	4.09	-	0.14
220	Tamil Nadu	Perunchani	Kodayar	160.27	1953	2012	65.03	-4.07	-6.26	-	-0.43
221	Tamil Nadu	Pillavukkal Periyar	Periyar	36.00	1976	2013	5.44	0.26	4.86	-	0.20
222	Tamil Nadu	Pillur	Bhavani	1,191.40	1967	2013	44.40	18.49	41.64	-	0.34
223	Tamil Nadu	Ponnaniyar	Ponnaniyar	87.02	1974	1995	3.39	1.08	31.90	-	0.59
224	Tamil Nadu	Porthimund	Kundah	10.55	1966	1996	60.00	12.11	20.18	-	38.25
225	Tamil Nadu	Pykara	Pykara	38.10	1954	2010	56.70	21.53	37.97	-	10.09
226	Tamil Nadu	Sathanur	Ponnaniyar	10,826.10	1957	1982	234.83	27.53	11.72	-	0.10
227	Tamil Nadu	Sathiyarar	Sathiyarar	95.71	1965	2010	1.59	0.46	28.81	-	0.11
228	Tamil Nadu	Thirumurthy	Palar	80.29	1967	2009	54.80	7.00	12.77	-	2.07
229	Tamil Nadu	Thoppiyar	Thoppiyar	276.90	1987	2012	8.46	0.50	5.92	-	0.07
230	Tamil Nadu	Thunakadavu	Thunakadavu	43.36	1965	2013	15.76	2.61	16.56	-	1.25
231	Tamil Nadu	Uppar Dam	Uppar	903.56	1968	1995	16.20	6.91	42.63	-	0.28
232	Tamil Nadu	Upper Bhawani	Bhavani	33.57	1965	1985	101.20	3.72	3.68	-	5.54
233	Tamil Nadu	Vaigai	Vaigai	2,255.13	1958	2012	194.79	32.07	16.46	-	0.26
234	Tamil Nadu	Vaniyar	Vaniyar	107.76	1983	2010	11.84	0.69	5.79	-	0.24
235	Tamil Nadu	Varadamanathi	Varadamanathi	74.07	1978	1998	3.06	-0.08	-2.61	-	-0.05
236	Tamil Nadu	Varattupallam	Varattupallam	66.82	1980	2010	3.94	0.28	7.11	-	0.14
237	Tamil Nadu	Veeranam	Coleroon	427.35	1923	1991	40.81	13.06	32.01	-	0.45
238	Tamil Nadu	Vembakottai	Vaippar	1,593.55	1989	2013	11.29	1.12	9.94	-	0.03
239	Tamil Nadu	Vidur	Varahanadi	1,298.00	1959	2009	17.73	3.09	17.44	-	0.05
240	Tamil Nadu	Wallajah	Vellar	191.58	1923	1997	2.57	0.90	34.93	-	0.06
241	Tamil Nadu	Wellington	Vellar	2,849.50	1924	1991	71.46	19.43	27.19	-	0.10
242	Telangana	Dindi	Dindi	3,919.96	1943	1976	73.83	2.21	2.99	-	0.02
243	Telangana	Himayatsagar	Easa	1,307.94	1927	1976	107.79	28.63	26.56	-	0.45
244	Telangana	Kaddam	Kaddam	2,656.25	1958	1977	124.43	46.25	37.17	-	0.92
245	Telangana	Lakhamvaram Lake	Lakhamvaram	268.06	1909	1975	60.42	18.84	31.18	-	1.06
246	Telangana	Manjira	Manjira	16,770.25	1966	1977	50.94	18.74	36.79	-	0.10
247	Telangana	Nagarjuna Sagar	Krishna	2,15,185.00	1967	2009	11,553.00	2,716.96	23.52	0.22	0.30
248	Telangana	Nizamsagar	Manjara	21,694.00	1930	1992	841.18	508.66	60.47	0.24	0.38
249	Telangana	Palair	Palair	1,686.71	1928	1977	56.56	1.21	2.14	-	0.01

250	Telangana	Pocharam	Aliaru	673.40	1922	1978	16.85	3.78	22.45	-	0.10
251	Telangana	Priyadarshini Jurala	Krishna	82,471.00	1996	2012	338.10	64.66	19.13	-	0.05
252	Telangana	Ramappa	Godavari	183.81	1919	1975	82.48	2.66	3.23	-	0.26
253	Telangana	Shanigram tank	Siddipet	321.00	1891	1972	29.08	2.95	10.14	-	0.11
254	Telangana	Sriram Sagar	Godavari	54,054.00	1970	2013	3,171.94	903.67	28.49	0.36	0.39
255	Telangana	Wyra	Wyra	709.66	1929	1977	24.66	9.78	39.66	-	0.29
256	Uttar Pradesh	Dhukwan	Betwa	21,340.00	1907	1980	106.45	47.42	44.55	0.04	0.03
257	Uttar Pradesh	Matatila	Betwa	20,720.00	1956	1999	1,132.70	430.37	38.00	0.13	0.48
258	Uttar Pradesh	Pili	Pili	162.00	1962	2011	55.27	16.07	29.07	-	2.02
259	Uttar Pradesh	Rihand	Rihand	13,333.00	1962	2003	10,608.32	1,588.33	14.97	-	2.91
260	Uttarakhand	Baigul	Baigul	302	1968	2005	86.68	21.26	24.53	-	1.90
261	Uttarakhand	Dhauliganga	Dhauliganga	1360	2005	2018	6.2	2.80	45.16	-	0.16
262	Uttarakhand	Dhora	Dhora	134.68	1962	2005	54.809	11.20	20.43	-	1.93
263	Uttarakhand	Ichari	Tons	4913	1966	2003	11.55	5.46	47.27	-	0.03
264	Uttarakhand	Nanaksagar	Deoha	570	1962	2008	209.8	29.30	13.97	-	1.12
265	Uttarakhand	Ramganga (Kalagarh)	Ramganga	3134	1974	2008	2590.72	134.25	5.18	0.43	1.26
266	Uttarakhand	Sarda Sagar	Sarda	127.00	1962	2009	493.16	116.03	23.53	-	19.44
267	Uttarakhand	Tanakpur	Sharda	15100	1992	2018	5.96	1.91	32.05	-	0.00
268	Uttarakhand	Tehri Dam	Bhagirathi	7511	2005	2008	3548.512	21.01	0.59	-	0.93
269	West Bengal	Durgapur Barrage	Damodar	2,295.00	1955	2011	11.85	5.41	45.68	-	0.04
270	West Bengal	Kangsabati	Kangsabati	3,626.00	1965	2006	1,053.65	111.72	10.60	-	0.75
271	West Bengal	TLDP-III	Teesta	7755	2013	2016	18.36	7.19	39.16	-	0.31
272	West Bengal	TLDP-IV	Teesta	8021	2016	2018	36.63	15.41	42.07	-	0.96

LIST OF RESERVOIRS HAVING REMOTE SENSING SURVEY DETAILS

Sl. No.	State	Name of Reservoir	Name of River	Catchment Area in Sq.Km.	Year of first impoundment	Year of last survey	Initial live storage in MCM	Total Loss of Live storage upto last survey	% Loss of live storage upto last survey
1	Andhra Pradesh	Mylavaram	Pennar	49,717.28	1985	2009	253.48	37.88	14.94
2	Andhra Pradesh	Thandava	Thandava	448.00	1975	2013	124.64	15.85	12.72
3	Andhra Pradesh	Vamsadhara st I	Vamsadhara	9,731.00	1977	2004	18.74	11.51	61.43
4	Andhra Pradesh	Yerracalva	Yerracalva	1,085.00	1988	2013	59.68	3.16	5.29
5	Bihar	Chandan	Chandan	549.00	1967	2004	124.58	65.08	52.24
6	Chhattisgarh	Kharkhara	Kharkhara	371.66	1967	2010	137.79	4.39	3.19
7	Chhattisgarh	Kodar	Kodar nallah	317.17	1980	2009	149.02	23.74	15.93
8	Chhattisgarh	Maniyari	Maniyari	854.00	1930	2009	147.70	47.46	32.13
9	Chhattisgarh	Sikasar	Pairi	497.00	1977	2003	198.81	15.83	7.96
10	Chhattisgarh	Sondur	Sondur	518.00	1988	2003	179.61	44.82	24.95
11	Chhattisgarh	Tandula	Tandula	818.00	1920	2016	302.31	9.11	3.01
12	Gujarat	Sabarmati	Sabarmati	5,540.00	1976	2003	775.89	41.00	5.28
13	Jharkhand	Nandini	Nandini	58.08	1988	2015	16.70	5.48	32.83
14	Karnataka	Chakra	Chakra	58.60	1985	2010	132.93	5.77	4.34
15	Karnataka	Kodasalli	Kali	1,049.00	1999	2009	178.82	20.93	11.70
16	Karnataka	Nugu	Nugu	984.00	1959	2009	129.94	8.38	6.45
17	Karnataka	Supa	Kalinadi	1,057.00	1985	2005	3,758.40	1,089.24	28.98
18	Madhya Pradesh	Bargi	Narmada	14,556.00	1990	2008	3,238.44	109.33	3.38
19	Madhya Pradesh	Halali	Halali	699.00	1976	2003	226.94	38.36	16.90
20	Madhya Pradesh	Harsi	Parbati	1,960.00	1935	2007	192.66	21.64	11.23
21	Madhya Pradesh	Kolar	Kolar	759.00	1988	2006	265.00	-21.66	-8.17
22	Madhya Pradesh	Rangawan	Ken	828.80	1957	2009	155.17	-6.81	-4.39
23	Madhya Pradesh	Sukta	Sukta	468.79	1984	2006	78.06	4.67	5.98

24	Madhya Pradesh	Tawa	Tawa	5,982.90	1990	2009	1,944.00	253.67	13.05
25	Madhya Pradesh	Thanwar	Thanwe	417.00	1983	2005	138.10	8.46	6.13
26	Madhya Pradesh	Upper Wainganga	Wainganga	2,007.75	1995	2003	409.66	15.83	3.86
27	Maharashta	Adol	Godavari	116.55	1989	2015	12.89	4.52	35.07
28	Maharashta	Bhama Askhed	Bhama	198.08	2000	2010	152.27	7.89	5.18
29	Maharashta	Bhandardara	Godavari	121.73	1926	2015	304.10	27.44	9.02
30	Maharashta	Bhatsa	Bhatsa	388.50	1979	2017	942.10	415.53	44.11
31	Maharashta	Bhojapur	Godavari	154.00	1972	2017	10.22	0.36	3.52
32	Maharashta	Chandani	Krishna	606.00	1965	2015	21.58	8.17	37.86
33	Maharashta	Chilewadi	Krishna	103.94	2000	2016	24.60	8.75	35.56
34	Maharashta	Chitri	Krishna	27.85	2004	2017	52.48	8.91	16.97
35	Maharashta	Dara	Tapi	63.71	2007	2013	13.45	9.44	70.15
36	Maharashta	Darna	Godavari	404.00	1916	2015	219.91	31.25	14.21
37	Maharashta	Dhom	Krishna	217.56	1977	2005	331.05	17.36	5.24
38	Maharashta	Dudhganga	Krishna	196.00	1989	2018	679.11	16.13	2.38
39	Maharashta	Ekburji	Godavari	75.16	1964	2016	11.97	2.53	21.14
40	Maharashta	Gautami	Godavari	41.18	2006	2014	52.90	8.31	15.70
41	Maharashta	Ghorazari	Godavari	90.65	1923	2015	43.16	19.20	44.49
42	Maharashta	Hatnur	Tapi	29,430.00	1982	2017	255.00	151.50	59.41
43	Maharashta	Isapur	Penganga	4,650.00	1983	2003	928.26	28.63	3.08
44	Maharashta	Itiadh	Garvi	704.48	1972	2007	317.87	-0.42	-0.13
45	Maharashta	Jawalgaon	Krishna	223.00	1989	2016	29.19	2.39	8.20
46	Maharashta	Kadva	Godavari	173.23	1992	2016	52.92	2.33	4.40
47	Maharashta	Karpara	Godavari	270.00	1974	2014	24.90	8.19	32.90
48	Maharashta	Kasari	Krishna	33.28	1998	2016	77.96	19.61	25.15
49	Maharashta	Kurnur	Godavari	322.56	1968	2017	32.28	1.60	4.96
50	Maharashta	Mandohol	Godavari	142.45	1981	2015	8.78	3.48	39.64
51	Maharashta	Masoli	Godavari	281.07	1982	2014	27.14	5.70	21.02
52	Maharashta	Matoba	Krishna	-	1878	2014	4.51	0.00	0.00
53	Maharashta	Mayani	Krishna	135.17	1876	2015	1.46	0.39	26.78

54	Maharashta	Morana (Shirala)	Krishna	85.50	1985	2013	16.54	0.81	4.92
55	Maharashta	Mukane	Godavari	129.59	1994	2015	204.98	60.45	29.49
56	Maharashta	Nagya sakya	Godavari	451.28	1982	2016	11.24	1.31	11.68
57	Maharashta	Niradeoghar	Godavari	114.48	2002	2010	332.14	35.87	10.80
58	Maharashta	Paldhag	Tapi	88.27	1978	2016	7.51	1.09	14.51
59	Maharashta	Panzara	Tapi	215.14	1994	2017	35.63	8.44	23.69
60	Maharashta	Punegaon	Godavari	66.00	2002	2014	17.57	1.40	7.97
61	Maharashta	Renapur	Godavari	272.00	2000	2014	16.40	1.93	11.77
62	Maharashta	Siddheshwar	Purna	440.00	1963	2007	80.82	1.69	2.09
63	Maharashta	Sina	Krishna	1,582.00	1985	2014	52.30	19.76	37.78
64	Maharashta	Sirpur	Bagh	432.53	1972	2007	192.52	33.36	17.33
65	Maharashta	Surya	South Tapi	203.30	1990	2016	276.35	97.48	35.27
66	Maharashta	Tembhapuri	Godavari	283.86	2006	2018	19.62	-1.28	-6.52
67	Maharashta	Temghar	Mutha	37.70	1997	2010	67.76	5.51	8.13
68	Maharashta	Tisgaon	Godavari	97.00	1999	2014	12.76	1.98	15.54
69	Maharashta	Totladoh	Pench	4,273.00	1982	2009	1,091.53	72.95	6.68
70	Maharashta	Uma	Tapi	129.76	1983	2016	11.68	-1.85	-15.85
71	Maharashta	Wandri	South Tapi	28.53	1984	2016	35.94	6.92	19.25
72	Maharashta	Yeralwadi	Krishna	766.84	1978	2014	20.02	2.70	13.46
73	Meghalaya	Kyrdem Kulai	Umtru	150.00	1983	2002	3.82	0.41	10.73
74	Odisha	Harabhangi	Harabhangi	503.80	1998	2012	86.25	-0.35	-0.41
75	Odisha	Kalo	Kalo	153.00	1981	2016	23.93	3.07	12.85
76	Odisha	Machhkund	Machhkund	1,955.00	1955	2002	892.55	-61.68	-6.91
77	Odisha	Nesa	Nesa	25.00	1981	-	6.65	0.68	10.23
78	Odisha	Ramial	Ramial	328.00	1985	2007	75.83	4.46	5.88
79	Odisha	Salandi	Salandi	673.00	1982	2009	556.50	37.89	6.81
80	Odisha	Sunei	Sunei	227.00	1991	2007	61.60	2.10	3.41
81	Odisha	Upper Indravati	Upper Indravati	2,636.00	1989	2007	1,455.77	-28.14	-1.93
82	Rajasthan	Bisalpur	Banas	27,726.00	1994	2009	1,041.05	94.80	9.11
83	Rajasthan	Gudha	Mej	744.96	1958	2007	93.59	25.20	26.93
84	Rajasthan	Jakham	Jakham	1,010.00	1986	2003	132.28	-43.17	-32.64

85	Rajasthan	Jawai	Jawai	720.00	1957	2009	193.48	-3.31	-1.71
86	Rajasthan	Mahi Bajaj Sagar	Mahi	6,149.00	1983	2005	1,833.50	141.21	7.70
87	Rajasthan	Parbati	Parbati	786.00	1963	2003	102.89	16.49	16.03
88	Rajasthan	Ramsagar	Bamani	176.00	1905	2003	29.39	4.73	16.09
89	Rajasthan	Urmila Sagar	Babudhen	77.70	1905	2004	15.14	0.45	2.97
90	Tamil Nadu	Sholayar	Sholayar	121.68	1972	2007	142.88	8.72	6.10
91	Telangana	Kinnersani	Kinnerasani	1,332.55	1966	2010	196.76	30.71	15.61
92	Telangana	Musi	Musi	9,090.00	1963	2013	130.31	10.49	8.05
93	Tripura	Gumti	Gumti	338.00	1984	2003	312.90	63.83	20.40
94	Uttar Pradesh	Jamni	Jamni	410.00	1973	2010	84.09	-4.50	-5.35
95	Uttar Pradesh	Rajghat	Betwa	16,317.00	2002	2004	1,984.00	4.02	0.20
96	Uttar Pradesh	Sirsi	Sirsi	601.00	1958	2013	178.64	29.17	16.33
97	West Bengal	Kumari	Kangsabati	2,020.00	1975	2005	465.43	24.24	5.21

LIST OF RESERVOIRS WHICH HAVE SERVED MORE THAN 50 YEARS OF THEIR USEFUL LIFE										
Sl. No.	State	Name of Reservoir	Name of River	Catchment Area in Sq.Km.	Initial Gross Storage in M.Cu.m.	Year of first impoundment	Year of last survey	Total loss of gross storage upto last survey in MCM	% loss of gross storage upto last survey	Average Observed rate of siltation (Th.Cu.m/ Sq.km./Yr)
1	Tamil Nadu	Madhuranthagam	Killivaru	34.82	17.25	1798	2005	1.17	6.78	0.16
2	Maharashtra	Ekurk	Adelanalla	412.00	94.30	1871	1991	26.44	28.03	0.53
3	Maharashtra	Mayani	Krishna	135.17	1.46	1876	2015	ND	-	-
4	Maharashtra	Matoba	Krishna	-	4.55	1878	2014	ND	-	-
5	Maharashtra	Khadakwasla	Mutha	501.80	86.00	1879	2007	-1.87	-2.17	-0.03
6	Maharashtra	Mhaswad	Man	1,243.20	86.94	1888	1990	45.24	52.04	0.36
7	Maharashtra	Powai	Local nala	6.61	5.45	1890	1996	1.06	19.45	1.51
8	Gujarat	Ajwa	Surya Rivulet	177.30	62.70	1891	1987	7.71	12.30	0.45
9	Telangana	Shanigram tank	Siddipet	321.00	29.08	1891	1972	2.95	10.14	0.11
10	Maharashtra	Mukti	Motinala	88.60	9.68	1893	1991	2.81	29.03	0.32
11	Tamil Nadu	Kaveripakkam	Palar	157.99	41.73	1902	1996	4.80	11.50	0.32
12	Tamil Nadu	Kadamba Tank	Thamirabarani	-	9.58	1904	2005	0.25	2.62	-
13	Rajasthan	Ramsagar	Bamani	176.00	30.83	1905	2003	ND	-	-
14	Rajasthan	Urmila Sagar	Babudhen	77.70	16.22	1905	2004	ND	-	-
15	Uttar Pradesh	Dhukwan	Betwa	21,340.00	106.45	1907	1980	47.42	44.55	0.03
16	Maharashtra	Radhnagri	Bhogavati	108.80	236.79	1908	2011	27.97	11.81	2.50
17	Telangana	Lakhamvaram Lake	Lakhamvaram	268.06	60.42	1909	1975	18.84	31.18	1.06
18	Tamil Nadu	Berijam	-	7.77	2.20	1911	1987	0.39	17.81	0.66
19	Maharashtra	Chankapur	Girna	269.00	79.96	1913	2009	17.52	21.92	0.68
20	Maharashtra	Ramsagar	Sur	212.35	117.18	1914	1987	14.78	12.61	0.95
21	Maharashtra	Darna	Godavari	404.00	226.96	1916	2015	ND	-	-
22	Maharashtra	Asolamendha	Pathari	246.00	92.96	1918	1994	29.97	32.24	1.60
23	Tamil Nadu	Barur Tank	Pannaiyar	35.07	7.04	1919	1986	0.18	2.56	0.08
24	Telangana	Ramappa	Godavari	183.81	82.48	1919	1975	2.66	3.23	0.26
25	Chhattisgarh	Tandula	Tandula	818.00	312.18	1920	2016	ND	-	-

26	Telangana	Pocharam	Aliaru	673.40	16.85	1922	1978	3.78	22.45	0.10
27	Maharashta	Ghorazari	Godavari	90.65	50.24	1923	2015	ND	-	-
28	Tamil Nadu	Veeranam	Coleroon	427.35	40.81	1923	1991	13.06	32.01	0.45
29	Tamil Nadu	Wallajah	Vellar	191.58	2.57	1923	1997	0.90	34.93	0.06
30	Tamil Nadu	Wellington	Vellar	2,849.50	71.46	1924	1991	19.43	27.19	0.10
31	Maharashta	Bhandardara	Godavari	121.73	312.60	1926	2015	ND	-	-
32	Maharashta	Bhatghar	Yelwandi	331.50	672.65	1927	2007	108.59	16.14	4.09
33	Maharashta	Visapur	Hanga	412.59	37.63	1927	1988	12.42	33.01	0.49
34	Telangana	Himayatsagar	Easa	1,307.94	107.79	1927	1976	28.63	26.56	0.45
35	Telangana	Palair	Palair	1,686.71	56.56	1928	1977	1.21	2.14	0.01
36	Telangana	Wyra	Wyra	709.66	24.66	1929	1977	9.78	39.66	0.29
37	Chhattisgarh	Maniyari	Maniyari	854.00	151.26	1930	2009	ND	-	-
38	Tamil Nadu	Glennmorgan (Kariappa)	Glennmorgan Stream	2.59	0.74	1930	2013	0.04	5.41	0.19
39	Telangana	Nizamsagar	Manjara	21,694.00	841.18	1930	1992	508.66	60.47	0.38
40	Karnataka	Krishnaraja Sagar	Cauvery	10,620.00	1,400.31	1932	2009	93.91	6.71	0.11
41	Tamil Nadu	Mettur	Cauvery	42,200.00	2,708.76	1934	2004	714.57	26.38	0.24
42	Madhya Pradesh	Harsi	Parbati	1,960.00	206.30	1935	2007	ND	-	-
43	Tamil Nadu	Mukurthy	Pykara	25.25	50.98	1938	2006	18.99	37.25	11.06
44	Telangana	Dindi	Dindi	3,919.96	73.83	1943	1976	2.21	2.99	0.02
45	Tamil Nadu	Maravakandy	Pykara	20.72	0.96	1947	2004	0.35	36.60	0.30
46	Kerala	Kundala	Palar	37.55	7.79	1948	1994	1.26	16.20	0.73
47	Gujarat	Ranghola	Rangholi	370.37	44.52	1952	1986	7.84	17.61	0.62
48	Gujarat	Bhimdad	Madhu	109.82	11.19	1953	1986	4.50	40.21	1.24
49	Gujarat	Brahmani	Brahmani	699.27	74.95	1953	1986	16.62	22.17	0.72
50	Gujarat	Ghee	Ghee	129.49	13.84	1953	1986	1.23	8.89	0.29
51	Jharkhand	Tilaiya	Barakar	984.20	335.83	1953	1997	120.92	36.01	2.79
52	Karnataka	Tungabhadra	Tungabhadra	28,180.00	3,751.17	1953	2008	895.28	23.87	0.58
53	Tamil Nadu	Bhavanisagar	Bhavani	4,134.50	928.90	1953	2006	193.08	20.79	0.88
54	Tamil Nadu	Perunchani	Kodayar	160.27	65.03	1953	2012	-4.07	-6.26	-0.43
55	Gujarat	Puna	Sasoi	137.27	13.99	1954	1986	4.15	29.66	0.94
56	Gujarat	Sasoi	Sasoi	562.03	51.00	1954	2009	13.03	25.55	0.42
57	Jharkhand	Mayurakshi (Massanjore)	Mayurakshi	1,860.00	608.20	1954	2001	48.71	8.01	0.56
58	Maharashta	Khaspur	Sina	554.20	19.82	1954	1996	6.34	31.97	0.27

59	Tamil Nadu	Pykara	Pykara	38.10	56.70	1954	2010	21.53	37.97	10.09
60	Jharkhand	Konar	Konar	997.15	281.13	1955	1996	71.48	25.43	1.75
61	Jharkhand	Maithon	Barakar	6,294.00	1,348.80	1955	1994	264.04	19.58	1.08
62	Kerala	Malampuzha	Bharathapuzha	147.64	226.00	1955	2006	30.67	13.57	4.07
63	Maharashtra	Bendsura	Bendsura	188.42	13.12	1955	1995	5.24	39.95	0.70
64	Maharashtra	Mangi	Kanola	304.00	30.41	1955	1995	3.44	10.15	0.28
65	Odisha	Machhkund	Machhkund	1,955.00	970.50	1955	2002	ND	-	-
66	West Bengal	Durgapur Barrage	Damodar	2,295.00	11.85	1955	2011	5.41	45.68	0.04
67	Andhra Pradesh	Cumbum Tank	Gundukamma	993.00	105.76	1956	1978	21.61	20.43	0.99
68	Gujarat	Gondli	Gondli	67.41	11.35	1956	1986	1.24	10.93	0.61
69	Gujarat	Kaila	Kaila	178.05	13.98	1956	1987	5.12	36.62	0.93
70	Gujarat	Kankavati	Kankavati	207.19	14.62	1956	1987	4.09	27.98	0.64
71	Gujarat	Moj	Moj	440.00	52.98	1956	1999	16.29	30.75	0.86
72	Gujarat	Sanandro	Kali	147.62	12.28	1956	1986	7.04	57.33	1.59
73	Jharkhand	Panchet	Damodar	10,966.00	1,581.00	1956	2011	387.54	24.51	0.64
74	Kerala	Walayar Dam	Bharathapuzha	106.36	18.40	1956	2009	2.37	12.89	0.42
75	Maharashtra	Kolgaon	Hanga	55.74	2.87	1956	1988	1.37	47.87	0.77
76	Uttar Pradesh	Matatila	Betwa	20,720.00	1,132.70	1956	1999	430.37	38.00	0.48
77	Gujarat	Fulzar-I	Und	142.45	14.90	1957	1986	2.67	17.92	0.65
78	Kerala	Peechi	Manali	107.10	110.43	1957	2013	15.48	14.02	2.58
79	Kerala	Porinngalkuthu	Chalakudi	512.00	31.99	1957	1993	8.16	25.50	0.44
80	Madhya Pradesh	Rangawan	Ken	828.80	164.24	1957	2009	ND	-	-
81	Odisha	Hirakud	Mahanadi	83395	8105	1957	2000	2,210.21	27.27	0.62
82	Rajasthan	Jawai	Jawai	720.00	207.50	1957	2009	ND	-	-
83	Tamil Nadu	Krishnagiri	Ponnaiyar	5,428.00	68.20	1957	2006	28.50	41.79	0.11
84	Tamil Nadu	Sathanur	Ponnaniyar	10,826.10	234.83	1957	1982	27.53	11.72	0.10
85	Gujarat	Machhu-I	Machhu	730.00	83.13	1958	1994	8.04	9.67	0.31
86	Himachal Pradesh	Bhakra	Sutlej	56,980.00	9,868.00	1958	2017	2,272.03	23.02	0.68
87	Rajasthan	Gudha	Mej	744.96	95.57	1958	2007	ND	-	-
88	Tamil Nadu	Amravathy	Amravathy	839.16	117.16	1958	2013	22.58	19.27	0.49
89	Tamil Nadu	Manimuthar	Thamirabarani	161.62	159.73	1958	2006	10.29	6.44	1.33
90	Tamil Nadu	Vaigai	Vaigai	2,255.13	194.79	1958	2012	32.07	16.46	0.26
91	Telangana	Kaddam	Kaddam	2,656.25	124.43	1958	1977	46.25	37.17	0.92

92	Uttar Pradesh	Sirsi	Sirsi	601.00	195.64	1958	2013	ND	-	-
93	Gujarat	Demi-I	Demi	168.34	21.52	1959	1984	4.97	23.09	1.18
94	Gujarat	Shetrunji (Palitana)	Shetrunji	4,317.00	415.41	1959	2008	81.22	19.55	0.38
95	Gujarat	WadhawanBhogavo-II	WadhawaBhogavo	569.77	23.36	1959	1986	2.97	12.71	0.19
96	Karnataka	Nugu	Nugu	984.00	154.06	1959	2009	ND	-	-
97	Kerala	Vazhani	Wadakkanchery	20.48	18.12	1959	2009	1.00	5.54	0.98
98	Tamil Nadu	Vidur	Varahanadi	1,298.00	17.73	1959	2009	3.09	17.44	0.05
99	Gujarat	Limbdi-Bhogavo	Limbdi-Bhogavo	331.50	30.15	1960	1986	7.66	25.41	0.89
100	Gujarat	WadhawanBhogavo	WadhawaBhogavo	435.10	18.15	1960	1986	2.67	14.71	0.24
101	Kerala	Meenkara	Meenkara	90.65	11.33	1960	2009	1.48	13.10	0.33
102	Madhya Pradesh	Gandhi Sagar	Chambal	23,025.00	7,746.00	1960	2001	519.85	6.71	0.55
103	Tamil Nadu	Kundah	Kundah	113.96	1.76	1960	1982	1.11	63.07	0.44
104	Tamil Nadu	EmeraldAvalanchi	Kundah	58.53	156.75	1961	2000	7.18	4.58	3.14
105	Tamil Nadu	Perumal Tank	Paravahar	504.59	17.77	1961	1998	2.78	15.65	0.15
106	Kerala	Kallarkutty	Mudhirapuzzha	759.85	6.80	1962	1992	0.75	11.00	0.03
107	Kerala	Ponmudi	Panniyar	220.52	51.54	1962	1992	11.08	21.50	1.67
108	Maharashtra	Koyna	Koyna	891.78	2,980.68	1962	2012	173.79	5.83	3.90
109	Tamil Nadu	Aliyar	Aliyar	195.00	112.75	1962	2004	9.34	8.28	1.14
110	Tamil Nadu	Manodai	Cauvery	21.42	2.47	1962	1986	0.16	6.57	0.32
111	Uttar Pradesh	Pili	Pili	162.00	55.27	1962	2011	16.07	29.07	2.02
112	Uttar Pradesh	Rihand	Rihand	13,333.00	10,608.32	1962	2003	1,588.33	14.97	2.91
113	Uttarakhand	Dhora	Dhora	134.68	54.81	1962	2005	11.20	20.43	1.93
114	Uttarakhand	Nanaksagar	Deoha	570	209.80	1962	2008	29.30	13.97	1.12
115	Uttarakhand	Sarda Sagar	Sarda	127.00	493.16	1962	2009	116.03	23.53	19.44
116	Chhattisgarh	Dudhawa	Mahanadi	625.27	288.66	1963	2011	28.53	9.88	0.95
117	Gujarat	Ghelo-I	Ghelo	103.60	13.35	1963	1986	3.35	25.09	1.41
118	Gujarat	Rudramata	Khari	383.30	64.78	1963	1987	3.62	5.59	0.39
119	Maharashtra	Nalganga	Nalganga	315.98	76.20	1963	1985	4.34	5.69	0.62
120	Maharashtra	Siddheshwar	Purna	440.00	250.71	1963	2007	ND	-	-
121	Rajasthan	Parbati	Parbati	786.00	115.23	1963	2003	ND	-	-
122	Tamil Nadu	Kamraj Sagar	Kundah	44.04	26.62	1963	2002	6.83	25.66	3.98
123	Telangana	Musi	Musi	9,090.00	136.94	1963	2013	ND	-	-
124	Gujarat	Bhadar(S)	Bhadar	2,406.00	237.86	1964	2004	91.55	38.49	0.95

125	Gujarat	Rajki	Malan	88.06	12.02	1964	1986	2.79	23.21	1.44
126	Gujarat	Suvi	Suvi	160.52	14.28	1964	1987	3.83	26.82	1.04
127	Gujarat	Vartu	Vartu	170.94	13.30	1964	1986	1.60	12.03	0.43
128	Karnataka	Bhadra	Krishna	1,968.40	2,025.87	1964	2011	95.74	4.73	1.03
129	Karnataka	Linganamakki	Sharavathy	1,991.71	4,435.35	1964	1999	171.83	3.87	2.46
130	Kerala	Anayirankal	Panniar	65.68	49.84	1964	1997	15.41	30.92	7.11
131	Kerala	Neyyar	Neyyar	139.86	106.25	1964	2015	8.91	8.38	1.25
132	Maharashta	Ekburji	Godavari	75.16	14.12	1964	2016	ND	-	-
133	Maharashta	Khelna	Khelna	161.60	12.61	1964	1985	0.70	5.57	0.21
134	Bihar	Badua	Badua	480.70	129.25	1965	2006	15.81	12.23	0.80
135	Gujarat	Dantiwada	Banas	2,862.00	464.40	1965	2007	69.07	14.87	0.57
136	Maharashta	Chandani	Krishna	606.00	23.78	1965	2015	ND	-	-
137	Maharashta	Gangapur	Godavari	357.40	212.51	1965	1997	48.89	23.01	4.27
138	Maharashta	Ghod	Ghod	3,586.00	216.30	1965	2007	47.00	21.73	0.31
139	Maharashta	Vir	Nira	1,756.00	278.50	1965	2008	39.36	14.13	0.52
140	Meghalaya	Umiar	Umiar	220.00	179.76	1965	2004	20.55	11.43	2.40
141	Tamil Nadu	Gomukhinathi	Gomukhi (Vellar)	292.67	15.86	1965	2002	2.91	18.37	0.27
142	Tamil Nadu	Sathiyarar	Sathiyarar	95.71	1.59	1965	2010	0.46	28.81	0.11
143	Tamil Nadu	Thunakadavu	Thunakadavu	43.36	15.76	1965	2013	2.61	16.56	1.25
144	Tamil Nadu	Upper Bhawani	Bhavani	33.57	101.20	1965	1985	3.72	3.68	5.54
145	West Bengal	Kangsabati	Kangsabati	3,626.00	1,053.65	1965	2006	111.72	10.60	0.75
146	Gujarat	Hiran-I	Hiran	80.91	21.65	1966	1987	1.43	6.61	0.84
147	Kerala	Chulliar	Bharatpuzha	27.80	13.76	1966	2009	0.48	3.47	0.40
148	Kerala	Kakki	Kakki	217.55	454.07	1966	1999	25.29	5.57	3.52
149	Kerala	Mangalam	Cherrukunapuzha	48.85	25.49	1966	2015	5.61	21.99	2.34
150	Tamil Nadu	Parson' Valley	Kundah	14.50	19.25	1966	1995	8.25	42.86	19.62
151	Tamil Nadu	Pegumbahalla	Kundah	41.44	1.07	1966	1982	0.44	41.12	0.66
152	Tamil Nadu	Porthimund	Kundah	10.55	60.00	1966	1996	12.11	20.18	38.25
153	Telangana	Kinnersani	Kinnerasani	1,332.55	237.82	1966	2010	ND	-	-
154	Telangana	Manjira	Manjira	16,770.25	50.94	1966	1977	18.74	36.79	0.10
155	Uttarakhand	Ichari	Tons	4913	11.55	1966	2003	5.46	47.27	0.03
156	Bihar	Chandan	Chandan	549.00	146.07	1967	2004	ND	-	-
157	Chhattisgarh	Kharkhara	Kharkhara	371.66	167.83	1967	2010	ND	-	-

158	Gujarat	Khodiyar	Shetrunji	383.00	40.35	1967	2002	6.37	15.79	0.48
159	Kerala	Madupetty	Palar	104.90	55.22	1967	1995	6.43	11.65	2.19
160	Tamil Nadu	Manjalar	Manjalar	119.14	13.76	1967	2009	4.31	31.34	0.86
161	Tamil Nadu	Parambikulam	Parambikulam	230.50	504.66	1967	2013	62.36	12.36	5.88
162	Tamil Nadu	Pillur	Bhavani	1,191.40	44.40	1967	2013	18.49	41.64	0.34
163	Tamil Nadu	Thirumurthy	Palar	80.29	54.80	1967	2009	7.00	12.77	2.07
164	Telangana	Nagarjuna Sagar	Krishna	2,15,185.00	11,553.00	1967	2009	2,716.96	23.52	0.30
165	Gujarat	Meshwo	Meshwo/Sabarmati	259.00	82.12	1968	1997	28.99	35.30	3.86
166	Kerala	Poomala	Poomala	1.17	0.58	1968	2010	0.01	1.90	0.22
167	Maharashta	Kurnur	Godavari	322.56	35.26	1968	2017	ND	-	-
168	Maharashta	Panshet	Ambi	120.30	310.62	1968	2007	28.43	9.15	6.06
169	Maharashta	Yeldari	Puma	7,329.70	934.44	1968	2011	134.34	14.38	0.43
170	Tamil Nadu	Uppar Dam	Uppar	903.56	16.20	1968	1995	6.91	42.63	0.28
171	Uttrakhand	Baigul	Baigul	302	86.68	1968	2005	21.26	24.53	1.90
172	Maharashta	Girna	Girna	4,727.30	608.45	1969	2010	42.88	7.05	0.22
173	Maharashta	Manar	Manar	1,585.08	138.35	1969	1999	18.73	13.54	0.39

LIST OF RESRVOIRS WHICH HAVE LOST MORE THAN 25% OF THEIR GROSS STORAGE									
Sl. No.	State	Name of Reservoir	Name of River	Catchment Area in Sq.Km.	Year of first impoundment	Year of Last Survey	Initial Gross Storage in MCM	Total Loss of gross upto last survey	% Loss of gross storage upto last survey
1	Jammu & Kashmir	Salal	Chenab	21497	1987	2018	285	272.57	95.64
2	Himachal Pradesh	Baira	Baira	669.00	1980	2017	3.75	3.05	81.33
3	Arunanchal pradesh	Ranganadi	Ranganadi (Panior)	1,894.00	2002	2017	21.28	15.80	74.25
4	Tamil Nadu	Kundah	Kundah	113.96	1960	1982	1.76	1.11	63.07
5	Sikkim	Rangit-III	Rangit	979	2000	2018	1.79	1.10	61.45
6	Telangana	Nizamsagar	Manjara	21,694.00	1930	1992	841.18	508.66	60.47
7	Gujarat	Sanandro	Kali	147.62	1956	1986	12.28	7.04	57.33
8	Kerala	Karapuzha Dam	Karapuzha	62.00	2005	2016	76.50	41.79	54.63
9	Maharashta	Mhaswad	Man	1,243.20	1888	1990	86.94	45.24	52.04
10	Himachal Pradesh	Chamera-I	Ravi	4,725.00	1994	2018	391.30	196.20	50.14
11	Kerala	Pazhassy Dam	Pazhassi	640.00	1979	2016	97.50	48.53	49.77
12	Maharashta	Kolgaon	Hanga	55.74	1956	1988	2.87	1.37	47.87
13	Uttarakhand	Ichari	Tons	4913	1966	2003	11.55	5.46	47.27
14	Himachal Pradesh	Chamera-III	Ravi	2,203.00	2012	2018	5.48	2.51	45.80
15	West Bengal	Durgapur Barrage	Damodar	2,295.00	1955	2011	11.85	5.41	45.68
16	Uttarakhand	Dhauliganga	Dhauliganga	1360	2005	2018	6.2	2.80	45.16
17	Uttar Pradesh	Dhukwan	Betwa	21,340.00	1907	1980	106.45	47.42	44.55
18	Gujarat	Chopadvav	Doman	27.00	1985	1998	10.15	4.46	43.92
19	Tamil Nadu	Parson' Valley	Kundah	14.50	1966	1995	19.25	8.25	42.86
20	Tamil Nadu	Uppar Dam	Uppar	903.56	1968	1995	16.20	6.91	42.63
21	West Bengal	TLDP-IV	Teesta	8021	2016	2018	36.63	15.41	42.07
22	Tamil Nadu	Krishnagiri	Ponnaiyar	5,428.00	1957	2006	68.20	28.50	41.79
23	Tamil Nadu	Pillur	Bhavani	1,191.40	1967	2013	44.40	18.49	41.64
24	Tamil Nadu	Pegumbahalla	Kundah	41.44	1966	1982	1.07	0.44	41.12
25	Gujarat	Bhimdad	Madhu	109.82	1953	1986	11.19	4.50	40.21
26	Maharashta	Bendsura	Bendsura	188.42	1955	1995	13.12	5.24	39.95

27	Telangana	Wyra	Wyra	709.66	1929	1977	24.66	9.78	39.66
28	Tamil Nadu	Glennmorgan (FB)	Glennmorgan Stream	12.43	1976	1998	5.85	2.30	39.32
29	West Bengal	TLDP-III	Teesta	7755	2013	2016	18.36	7.19	39.16
30	Gujarat	Bhadar(S)	Bhadar	2,406.00	1964	2004	237.86	91.55	38.49
31	Uttar Pradesh	Matatila	Betwa	20,720.00	1956	1999	1,132.70	430.37	38.00
32	Tamil Nadu	Pykara	Pykara	38.10	1954	2010	56.70	21.53	37.97
33	Tamil Nadu	Mukurthy	Pykara	25.25	1938	2006	50.98	18.99	37.25
34	Telangana	Kaddam	Kaddam	2,656.25	1958	1977	124.43	46.25	37.17
35	Telangana	Manjira	Manjira	16,770.25	1966	1977	50.94	18.74	36.79
36	Gujarat	Kaila	Kaila	178.05	1956	1987	13.98	5.12	36.62
37	Tamil Nadu	Maravakandy	Pykara	20.72	1947	2004	0.96	0.35	36.60
38	Jammu & Kashmir	Nimoo Bazgo	Indus	58880	2013	2016	52.82	19.12	36.20
39	Jharkhand	Tilaiya	Barakar	984.20	1953	1997	335.83	120.92	36.01
40	Gujarat	Rami	Narmada	25.00	1983	1999	7.08	2.53	35.73
41	Gujarat	Meshwo	Meshwo/Sabarmati	259.00	1968	1997	82.12	28.99	35.30
42	Tamil Nadu	Wallajah	Vellar	191.58	1923	1997	2.57	0.90	34.93
43	Maharashta	Nazare	Karha	397.82	1975	1986	22.32	7.68	34.43
44	Jammu & Kashmir	Uri-I	Jhelum	12750	1997	2018	0.3597	0.12	34.11
45	Gujarat	Bhadar(P)	Bhadar	407.00	1983	2009	46.72	15.77	33.76
46	Maharashta	Visapur	Hanga	412.59	1927	1988	37.63	12.42	33.01
47	Maharashta	Asolamendha	Pathari	246.00	1918	1994	92.96	29.97	32.24
48	Gujarat	Venu-II	Bhadar	751.00	1989	1999	22.58	7.26	32.17
49	Uttarakhand	Tanakpur	Sharda	15100	1992	2018	5.96	1.91	32.05
50	Tamil Nadu	Veeranam	Coleroon	427.35	1923	1991	40.81	13.06	32.01
51	Maharashta	Khaspur	Sina	554.20	1954	1996	19.82	6.34	31.97
52	Tamil Nadu	Ponnaniyar	Ponnaniyar	87.02	1974	1995	3.39	1.08	31.90
53	Jammu & Kashmir	Uri-II	Jhelum	13400	2013	2018	6.343	2.01	31.74
54	Madhya Pradesh	Sarhi	Vartu	197.57	1974	1986	10.69	3.38	31.62
55	Gujarat	Hadaf	Hadaf	508.00	1986	2009	32.26	10.17	31.54
56	Tamil Nadu	Manjalar	Manjalar	119.14	1967	2009	13.76	4.31	31.34
57	Sikkim	Teesta-V	Teesta	4307	2008	2018	13.52	4.22	31.21
58	Telangana	Lakhamvaram Lake	Lakhamvaram	268.06	1909	1975	60.42	18.84	31.18
59	Kerala	Anayirankal	Panniar	65.68	1964	1997	49.84	15.41	30.92

60	Gujarat	Moj	Moj	440.00	1956	1999	52.98	16.29	30.75
61	Kerala	Kanjirapuzha	Kanjirapuzha	70.00	1980	2017	70.87	21.71	30.64
62	Andhra Pradesh	Srisaillam	Krishna	2,06,030.00	1976	2011	8,724.88	2,613.97	29.96
63	Gujarat	Puna	Sasoi	137.27	1954	1986	13.99	4.15	29.66
64	Kerala	Kallada Dam	Kallada	549.00	1986	2018	577.25	169.86	29.43
65	Gujarat	Sani	Sani	506.00	1984	2010	55.08	16.06	29.16
66	Uttar Pradesh	Pili	Pili	162.00	1962	2011	55.27	16.07	29.07
67	Maharashtra	Mukti	Motinala	88.60	1893	1991	9.68	2.81	29.03
68	Tamil Nadu	Pechipparai	Kodayar	172.00	1971	2013	150.27	43.50	28.94
69	Tamil Nadu	Sathiyarar	Sathiyarar	95.71	1965	2010	1.59	0.46	28.81
70	Telangana	Sriram Sagar	Godavari	54,054.00	1970	2013	3,171.94	903.67	28.49
71	Gujarat	Machhannala	Mahi	245.00	1982	1999	37.91	10.79	28.46
72	Tamil Nadu	Parappalar	Nangangi	72.88	1974	2003	5.61	1.59	28.27
73	Jammu & Kashmir	Chutak	Suru	3488	2012	2018	0.588	0.17	28.23
74	Maharashtra	Ekurk	Adelanalla	412.00	1871	1991	94.30	26.44	28.03
75	Gujarat	Kankavati	Kankavati	207.19	1956	1987	14.62	4.09	27.98
76	Himachal Pradesh	Parbati-III	Sainj	650.00	2014	2018	1.67	0.46	27.54
77	Odisha	Hirakud	Mahanadi	83395	1957	2000	8,105.00	2,210.21	27.27
78	Tamil Nadu	Wellington	Vellar	2,849.50	1924	1991	71.46	19.43	27.19
79	Karnataka	Basavasagara (Narayanpur)	Krishna	47,850.00	1982	2007	1,071.55	287.60	26.84
80	Gujarat	Suvi	Suvi	160.52	1964	1987	14.28	3.83	26.82
81	Telangana	Himayatsagar	Easa	1,307.94	1927	1976	107.79	28.63	26.56
82	Tamil Nadu	Mettur	Cauvery	42,200.00	1934	2004	2,708.76	714.57	26.38
83	Tamil Nadu	Kamraj Sagar	Kundah	44.04	1963	2002	26.62	6.83	25.66
84	Gujarat	Sasoi	Sasoi	562.03	1954	2009	51.00	13.03	25.55
85	Kerala	Porinngalkuthu	Chalakudi	512.00	1957	1993	31.99	8.16	25.50
86	Jharkhand	Konar	Konar	997.15	1955	1996	281.13	71.48	25.43
87	Gujarat	Limbdi-Bhogavo	Limbdi-Bhogavo	331.50	1960	1986	30.15	7.66	25.41
88	Himachal Pradesh	Chamera-II	Ravi	2,593.00	2003	2018	2.25	0.57	25.33
89	Gujarat	Ghelo-I	Ghelo	103.60	1963	1986	13.35	3.35	25.09

APPENDIX VII

REGION WISE LIST OF ALL RESERVOIRS

REGION 1 (HIMALAYAN REGION)

Sr. No.	Name of State	Name of Reservoir	Mode of Survey	Page No.
1	Arunanchal pradesh	Ranganadi	HS	40
2	Himachal Pradesh	ADHPL	HS	113
3	Himachal Pradesh	Baira	HS	114
4	Himachal Pradesh	Bhakra	HS	115
5	Himachal Pradesh	Chamera-I	HS	118
6	Himachal Pradesh	Chamera-II	HS	119
7	Himachal Pradesh	Chamera-III	HS	120
8	Himachal Pradesh	Koldam	HS	121
9	Himachal Pradesh	Malana-1	HS	122
10	Himachal Pradesh	Parbati-III	HS	123
11	Himachal Pradesh	Pong	HS	124
12	Jammu & Kashmir	Chutak	HS	127
13	Jammu & Kashmir	Dulhasti	HS	128
14	Jammu & Kashmir	Kishanganga	HS	129
15	Jammu & Kashmir	Nimoo Bazgo	HS	130
16	Jammu & Kashmir	Salal	HS	131
17	Jammu & Kashmir	Sewa-II	HS	132
18	Jammu & Kashmir	Uri-I	HS	133
19	Jammu & Kashmir	Uri-II	HS	134
20	Meghalaya	Umiam	HS	282
21	Sikkim	Rangit-III	HS	304
22	Sikkim	Teesta-V	HS	305

23	Uttar Pradesh	Pili	HS	393
24	Uttarakhand	Baigul	HS	397
25	Uttarakhand	Dhauliganga	HS	398
26	Uttarakhand	Dhora	HS	399
27	Uttarakhand	Ichari	HS	400
28	Uttarakhand	Nanaksagar	HS	401
29	Uttarakhand	Ramganga (Kalagarh)	HS	402
30	Uttarakhand	Sarda Sagar	HS	403
31	Uttarakhand	Tanakpur	HS	404
32	Uttarakhand	Tehri Dam	HS	405
33	West Bengal	TLDP-III	HS	409
34	West Bengal	TLDP-IV	HS	410
35	Meghalaya	Kyrdem Kulai	RS	281
36	Tripura	Gumti	RS	388

REGION 2 (INDO-GANGETIC PLAINS)

Sr. No.	Name of State	Name of Reservoir	Mode of Survey	Page No.
1	Bihar	Badua	HS	41
2	Jharkhand	Getalsud	HS	135
3	Jharkhand	Konar	HS	136
4	Jharkhand	Maithon	HS	137
5	Jharkhand	Mayurakshi (Massanjore)	HS	138
6	Jharkhand	Panchet	HS	140
7	Jharkhand	Tenughat	HS	142
8	Jharkhand	Tilaiya	HS	143
9	Madhya Pradesh	Gandhi Sagar	HS	187
10	Rajasthan	Ranapratap Sagar	HS	302
11	Uttar Pradesh	Dhukwan	HS	389
12	Uttar Pradesh	Matatila	HS	391
13	Uttar Pradesh	Rihand	HS	395
14	West Bengal	Durgapur Barrage	HS	406
15	West Bengal	Kangsabati	HS	407
16	Bihar	Chandan	RS	42
17	Madhya Pradesh	Halali	RS	188
18	Madhya Pradesh	Harsi	RS	189
19	Madhya Pradesh	Kolar	RS	190
20	Madhya Pradesh	Rangawan	RS	191
21	Rajasthan	Bisalpur	RS	295

22	Rajasthan	Gudha	RS	296
23	Rajasthan	Parbati	RS	300
24	Rajasthan	Ramsagar	RS	301
25	Rajasthan	Urmila Sagar	RS	303
26	Uttar Pradesh	Jamni	RS	390
27	Uttar Pradesh	Rajghat	RS	394
28	Uttar Pradesh	Sirsi	RS	396
29	West Bengal	Kumari	RS	408

REGION 3 (EAST FLOWING RIVERS UP TO GODAVARI EXCLUDING GANGA)

Sr. No.	Name of State	Name of Reservoir	Mode of Survey	Page No.
1	Chhattisgarh	Dudhawa	HS	43
2	Chhattisgarh	Minimata Bango	HS	47
3	Chhattisgarh	Ravishankar sagar	HS	48
4	Odisha	Hirakud	HS	285
5	Odisha	Rengali	HS	290
6	Chhattisgarh	Kharkhara	RS	44
7	Chhattisgarh	Kodar	RS	45
8	Chhattisgarh	Maniyari	RS	46
9	Chhattisgarh	Sikasar	RS	49
10	Chhattisgarh	Sondur	RS	50
11	Chhattisgarh	Tandula	RS	51
12	Jharkhand	Nandini	RS	139
13	Odisha	Harabhangi	RS	284
14	Odisha	Kalo	RS	286
15	Odisha	Nesa	RS	288
16	Odisha	Ramial	RS	289
17	Odisha	Salandi	RS	291
18	Odisha	Sunei	RS	292
19	Odisha	Upper Indravati	RS	293

REGION 4 (DECCAN PENISULAR EAST FLOWING RIVERS INCLUDING GODAVARI)

Sl. No.	State	Name of Reservoir	Mode of Survey	Page No.
1	Andhra Pradesh	Cumbum Tank	HS	34
2	Andhra Pradesh	Srisaillam	HS	36
3	Karnataka	Almatti	HS	144
4	Karnataka	Basavasagara (Narayanpur)	HS	145
5	Karnataka	Bhadra	HS	146

6	Karnataka	Ghataprabha (Hidkal)	HS	148
7	Karnataka	Harangi	HS	149
8	Karnataka	Hemavathy	HS	150
9	Karnataka	Hippargi	HS	151
10	Karnataka	Kabini	HS	152
11	Karnataka	Krishnaraja Sagar	HS	154
12	Karnataka	Malaprabha	HS	156
13	Karnataka	Tungabhadra	HS	159
14	Kerala	Karapuzha Dam	HS	169
15	Maharashta	Asolamendha	HS	198
16	Maharashta	Bendsura	HS	199
17	Maharashta	Bhatghar	HS	202
18	Maharashta	Bhima (Ujjani)	HS	204
19	Maharashta	Dimbhe	HS	213
20	Maharashta	Ekurk	HS	216
21	Maharashta	Gangapur	HS	217
22	Maharashta	Ghod	HS	219
23	Maharashta	Jayakwadi	HS	226
24	Maharashta	Karanjvan	HS	228
25	Maharashta	Khadakwasla	HS	231
26	Maharashta	Khaspur	HS	232
27	Maharashta	Khelna	HS	233
28	Maharashta	Kolgaon	HS	234
29	Maharashta	Koyna	HS	235
30	Maharashta	Majalgaon	HS	237
31	Maharashta	Manar	HS	238
32	Maharashta	Mangi	HS	240
33	Maharashta	Manikdoh	HS	241
34	Maharashta	Mhaswad	HS	245
35	Maharashta	Mula	HS	249
36	Maharashta	Nazare	HS	252
37	Maharashta	Panshet	HS	255
38	Maharashta	Radhnagri	HS	259
39	Maharashta	Ramsagar	HS	260
40	Maharashta	Upperwardha	HS	272
41	Maharashta	Varasgaon	HS	273
42	Maharashta	Vir	HS	274
43	Maharashta	Visapur	HS	275
44	Maharashta	Waghad	HS	276
45	Maharashta	Warna	HS	278
46	Maharashta	Yeldari	HS	279
47	Odisha	Balimela	HS	283
48	Odisha	Upper Kolab	HS	294
49	Tamil Nadu	Adavinainar	HS	306
50	Tamil Nadu	Amravathy	HS	308
51	Tamil Nadu	Anaikuttam	HS	309

52	Tamil Nadu	Anaimaduvu	HS	310
53	Tamil Nadu	Barur Tank	HS	311
54	Tamil Nadu	Berijam	HS	312
55	Tamil Nadu	Bhavanisagar	HS	313
56	Tamil Nadu	EmeraldAvalanchi	HS	317
57	Tamil Nadu	Gadana	HS	318
58	Tamil Nadu	Glennmorgan (FB)	HS	319
59	Tamil Nadu	Glennmorgan (Kariappa)	HS	320
60	Tamil Nadu	Gomukhinathi	HS	321
61	Tamil Nadu	Gunderipallam	HS	322
62	Tamil Nadu	Kadamba Tank	HS	323
63	Tamil Nadu	Kamraj Sagar	HS	324
64	Tamil Nadu	Kaveripakkam	HS	325
65	Tamil Nadu	Kodaganar	HS	326
66	Tamil Nadu	Krishnagiri	HS	327
67	Tamil Nadu	Kundah	HS	328
68	Tamil Nadu	Kuthiraiyar	HS	329
69	Tamil Nadu	Madhuranthagam	HS	330
70	Tamil Nadu	Manimukthanadi	HS	331
71	Tamil Nadu	Manimuthar	HS	332
72	Tamil Nadu	Manjalar	HS	333
73	Tamil Nadu	Manodai	HS	334
74	Tamil Nadu	Maravakandy	HS	335
75	Tamil Nadu	Marudhanadhi	HS	336
76	Tamil Nadu	Mettur	HS	337
77	Tamil Nadu	Mukurthy	HS	338
78	Tamil Nadu	Nagavathy	HS	339
79	Tamil Nadu	Palar Poranthalar	HS	340
80	Tamil Nadu	Pambar	HS	341
81	Tamil Nadu	Parappalar	HS	343
82	Tamil Nadu	Parson' Valley	HS	344
83	Tamil Nadu	Pegumbahalla	HS	346
84	Tamil Nadu	Perumal Tank	HS	347
85	Tamil Nadu	Perumpallam	HS	348
86	Tamil Nadu	Pilavukkal Periyar	HS	350
87	Tamil Nadu	Pillur	HS	351
88	Tamil Nadu	Ponnaniyar	HS	352
89	Tamil Nadu	Porthimund	HS	353
90	Tamil Nadu	Pykara	HS	354
91	Tamil Nadu	Sathanur	HS	355
92	Tamil Nadu	Sathiyarar	HS	356
93	Tamil Nadu	Thoppiyar	HS	359
94	Tamil Nadu	Uppar Dam	HS	361
95	Tamil Nadu	Upper Bhawani	HS	362
96	Tamil Nadu	Vaigai	HS	363
97	Tamil Nadu	Vaniyar	HS	364
98	Tamil Nadu	Varadamanathi	HS	365

99	Tamil Nadu	Varattupallam	HS	366
100	Tamil Nadu	Veeranam	HS	367
101	Tamil Nadu	Vembakottai	HS	368
102	Tamil Nadu	Vidur	HS	369
103	Tamil Nadu	Wallajah	HS	370
104	Tamil Nadu	Wellington	HS	371
105	Telangana	Dindi	HS	372
106	Telangana	Himayatsagar	HS	373
107	Telangana	Kaddam	HS	374
108	Telangana	Lakhamvaram Lake	HS	376
109	Telangana	Manjira	HS	377
110	Telangana	Nagarjuna Sagar	HS	379
111	Telangana	Nizamsagar	HS	380
112	Telangana	Palair	HS	381
113	Telangana	Pocharam	HS	382
114	Telangana	Priyadarshini Jurala	HS	383
115	Telangana	Ramappa	HS	384
116	Telangana	Shanigram tank	HS	385
117	Telangana	Sriram Sagar	HS	386
118	Telangana	Wyra	HS	387
119	Andhra Pradesh	Mylavaram	RS	35
120	Andhra Pradesh	Thandava	RS	37
121	Andhra Pradesh	Vamsadhara st I	RS	38
122	Andhra Pradesh	Yerracalva	RS	39
123	Karnataka	Nugu	RS	157
124	Madhya Pradesh	Thanwar	RS	195
125	Madhya Pradesh	Upper Wainganga	RS	196
126	Maharashtra	Adol	RS	197
127	Maharashtra	Bhama Askhed	RS	200
128	Maharashtra	Bhandardara	RS	201
129	Maharashtra	Bhojapur	RS	205
130	Maharashtra	Chandani	RS	206
131	Maharashtra	Chilewadi	RS	208
132	Maharashtra	Chitri	RS	209
133	Maharashtra	Darna	RS	211
134	Maharashtra	Dhom	RS	212
135	Maharashtra	Dudhganga	RS	214
136	Maharashtra	Ekburji	RS	215
137	Maharashtra	Gautami	RS	218
138	Maharashtra	Ghorazari	RS	220
139	Maharashtra	Isapur	RS	223
140	Maharashtra	Itiadh	RS	224
141	Maharashtra	Jawalgaon	RS	225
142	Maharashtra	Kadva	RS	227
143	Maharashtra	Karpara	RS	229

144	Maharashta	Kasari	RS	230
145	Maharashta	Kurnur	RS	236
146	Maharashta	Mandohol	RS	239
147	Maharashta	Masoli	RS	242
148	Maharashta	Matoba	RS	243
149	Maharashta	Mayani	RS	244
150	Maharashta	Morana (Shirala)	RS	246
151	Maharashta	Mukane	RS	247
152	Maharashta	Niradeoghar	RS	253
153	Maharashta	Punegaon	RS	258
154	Maharashta	Renapur	RS	261
155	Maharashta	Siddheshwar	RS	262
156	Maharashta	Sina	RS	263
157	Maharashta	Sirpur	RS	264
158	Maharashta	Tembhapuri	RS	266
159	Maharashta	Temghar	RS	267
160	Maharashta	Tisgaon	RS	268
161	Maharashta	Totladoh	RS	269
162	Maharashta	Yeralwadi	RS	280
163	Odisha	Machhkund	RS	287
164	Telangana	Kinnersani	RS	375
165	Telangana	Musi	RS	378

REGION 5 (WEST FLOWING RIVERS UP TO NARMADA)

Sr. No.	Name of State	Name of Reservoir	Mode of Survey	Page No.
1	Gujarat	Ajwa	HS	53
2	Gujarat	Bhadar(P)	HS	54
3	Gujarat	Bhadar(S)	HS	55
4	Gujarat	Bhimdad	HS	56
5	Gujarat	Brahmani	HS	57
6	Gujarat	Dantiwada	HS	60
7	Gujarat	Demi-I	HS	61
8	Gujarat	Deo	HS	62
9	Gujarat	Dharoi	HS	63
10	Gujarat	Dhatarwadi	HS	64
11	Gujarat	Fulzar-I	HS	65
12	Gujarat	Ghee	HS	66
13	Gujarat	Ghelo-I	HS	67
14	Gujarat	Godhatad	HS	68
15	Gujarat	Goma	HS	69
16	Gujarat	Gondli	HS	70
17	Gujarat	Hadaf	HS	71
18	Gujarat	Hathmati	HS	72
19	Gujarat	Hiran-I	HS	73

20	Gujarat	Hiran-II	HS	74
21	Gujarat	Kadana	HS	75
21	Gujarat	Kaila	HS	76
22	Gujarat	Kankavati	HS	77
23	Gujarat	Khodiyar	HS	79
24	Gujarat	Limbdi-Bhogavo	HS	80
25	Gujarat	Machhannala	HS	81
26	Gujarat	Machhu-I	HS	82
27	Gujarat	Machhu-II	HS	83
28	Gujarat	Madhuvanti	HS	84
29	Gujarat	Mazam	HS	85
30	Gujarat	Meshwo	HS	86
31	Gujarat	Moj	HS	87
32	Gujarat	Mukteshwar	HS	88
33	Gujarat	Nara	HS	89
34	Gujarat	Panam	HS	90
35	Gujarat	PataDungri	HS	91
36	Gujarat	Puna	HS	92
37	Gujarat	Rajki	HS	93
38	Gujarat	Ranghola	HS	95
39	Gujarat	Rudramata	HS	96
40	Gujarat	Sanandro	HS	98
41	Gujarat	Sani	HS	99
42	Gujarat	Sasoi	HS	100
43	Gujarat	Shetrunji (Palitana)	HS	101
44	Gujarat	Sipu	HS	102
45	Gujarat	Suvi	HS	104
46	Gujarat	Und-I	HS	106
47	Gujarat	Vartu	HS	107
48	Gujarat	Venu-II	HS	108
49	Gujarat	WadhawanBhogavo	HS	110
50	Gujarat	WadhawanBhogavo-II	HS	111
51	Gujarat	Watrak	HS	112
52	Madhya	Sarathi	HS	192

	Pradesh			
53	Gujarat	Sabarmati	RS	97
54	Rajasthan	Jakham	RS	297
55	Rajasthan	Jawai	RS	298
56	Rajasthan	Mahi Bajaj Sagar	RS	299

REGION 6 (NARMADA & TAPI BASIN)

Sr. No.	Name of State	Name of Reservoir	Mode of Survey	Page No.
1	Gujarat	Chopadvav	HS	58
2	Gujarat	Karjan	HS	78
3	Gujarat	Rami	HS	94
4	Gujarat	Sukhi	HS	103
5	Gujarat	Ukai	HS	105
6	Gujarat	Ver-II	HS	109
7	Maharashta	Chankapur	HS	207
8	Maharashta	Girna	HS	221
9	Maharashta	Mukti	HS	248
10	Maharashta	Nalganga	HS	251
11	Madhya Pradesh	Bargi	RS	186
12	Madhya Pradesh	Sukta	RS	193
13	Madhya Pradesh	Tawa	RS	194
14	Maharashta	Dara	RS	210
15	Maharashta	Hatnur	RS	222
16	Maharashta	Nagya sakra	RS	250
17	Maharashta	Paldhag	RS	254
18	Maharashta	Panzara	RS	256
19	Maharashta	Surya	RS	265
20	Maharashta	Uma	RS	271
21	Maharashta	Wandri	RS	277

REGION 7 (WEST FLOWING RIVERS BEYOND TAPI AND SOUTH INDIAN RIVERS)

Sr. No.	Name of State	Name of Reservoir	Mode of Survey	Page No.
1	Goa	Salaulim	HS	52
2	Gujarat	Damanganga	HS	59
3	Karnataka	Linganamakki	HS	155

4	Kerala	Anayirankal	HS	161
5	Kerala	Chulliar	HS	162
6	Kerala	Idamalayar	HS	163
7	Kerala	Idukki	HS	164
8	Kerala	Kakki	HS	165
9	Kerala	Kallada Dam	HS	166
10	Kerala	Kallarkutty	HS	167
11	Kerala	Kanjirapuzha	HS	168
12	Kerala	Kundala	HS	170
13	Kerala	Kuttiyadi	HS	171
14	Kerala	Madupetty	HS	172
15	Kerala	Malampuzha	HS	173
16	Kerala	Mangalam	HS	174
17	Kerala	Meenkara	HS	175
18	Kerala	Neyyar	HS	176
19	Kerala	Pazhassy Dam	HS	177
20	Kerala	Peechi	HS	178
21	Kerala	Ponmudi	HS	179
22	Kerala	Poomala	HS	180
23	Kerala	Porinngalkuthu	HS	181
24	Kerala	Pothundi	HS	182
25	Kerala	Siruvani dam	HS	183
26	Kerala	Vazhani	HS	184
27	Kerala	Walayar Dam	HS	185
28	Maharashta	Powai	HS	257
29	Maharashta	Tulshi	HS	270
30	Tamil Nadu	Aliyar	HS	307
31	Tamil Nadu	Chittar-I	HS	314
32	Tamil Nadu	Chittar-II	HS	316
33	Tamil Nadu	Parambikulam	HS	342
34	Tamil Nadu	Pechipparai	HS	345
35	Tamil Nadu	Perunchani	HS	349
36	Tamil Nadu	Thirumurthy	HS	358
37	Tamil Nadu	Thunakadavu	HS	360
38	Karnataka	Chakra	RS	147
39	Karnataka	Kodasalli	RS	153
40	Karnataka	Supa	RS	158
41	Maharashta	Bhatsa	RS	203
42	Tamil Nadu	Sholayar	RS	357

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