

MANUAL FOR 7th MINOR IRRIGATION CENSUS & 2nd CENSUS OF WATER BODIES

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सत्यमेव जयते

**GOVERNMENT OF INDIA
MINISTRY OF JAL SHAKTI
DEPARTMENT OF WATER RESOURCES,
RIVER DEVELOPMENT & GANGA REJUVENATION
MINOR IRRIGATION (STATISTICS) WING**

FOREWORD

The Department of Water Resources, River Development & Ganga Rejuvenation, Ministry of Jal Shakti has been conducting census of Minor Irrigation structures quinquennially since 1986-87 on the recommendation of the then Planning Commission under the Centrally Sponsored scheme 'Irrigation Census scheme' which is a standalone component under the Umbrella Scheme- Pradhan Mantri Krishi Sinchai Yojana and Other Schemes.

The Minor Irrigation Census is conducted in all States/UTs and covers all ground water and surface water structures having Culturable Command Area (CCA) upto 2000 hectares. So far, six censuses have been conducted with reference years 1986-87, 1993-94, 2000-01, 2006-07, 2013-14 and 2017-18 respectively.

Ministry had undertaken First Census of Water Bodies in convergence with 6th MI Census so as to have a national database of all Water Bodies in the country which will inter-alia collect information on all important aspects of the subject including their condition, status of encroachments, use, storage capacity, status of filling up of storage etc.

I am happy to inform that DoWR, RD & GR is undertaking the 1st Census of Major and Medium Irrigation (MMI) projects and 1st Census of Springs along with forthcoming 7th MI and 2nd Water bodies censuses. The census shall be undertaken entirely in digital mode through an app in Smart phone without using any paper which will result in considerable savings in resources like time, cost etc.

This document will help the field level functionaries/ primary workers in efficiently collecting the data on ground. This will serve as a guide on the concepts, definitions and procedure to be uniformly followed by all States/UTs during the field work.

I hope that the concerned officials involved in the conduct of census will make full use of this document for collection of data of these censuses.

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CHAPTER ONE:

INTRODUCTION

1.0 INTRODUCTION

- 1.1. India has been primarily an agricultural country since ages. Water management is a crucial factor for agricultural output and food security. Keeping in view the limited availability of water, the optimum utilization of available water resources becomes more important. Moreover, the distribution of monsoon across the country is also not uniform. Therefore, there is a strong need for irrigation. Minor irrigation projects have the advantage of short gestation period, require smaller investment and benefits reach the farmers immediately.
- 1.2. Minor irrigation sector in the Government of India is handled by Department of Water Resources, River Development and Ganga Rejuvenation (DoWR, RD&GR), Agriculture & Farmer's Welfare, Rural Development and Ministry of Tribal Affairs. Similarly, at the State level, respective Ministries and departments of Water Resources, Agriculture and Rural Development deal with the sector. Several initiatives have been taken towards providing financial assistance to different States to construct minor irrigation schemes, either through Department of Irrigation/Minor Irrigation, Water Resources Development or under PWD/local bodies for development of MI works and for management of on-farm irrigation system and water distribution devices.
- 1.3. In the States, no single Government Department is involved in development of minor irrigation works and a large number of private works are being constructed over the years in the States with or without support from State Government. Therefore, co-ordination and monitoring of information about minor irrigation works becomes difficult at the State level. A detailed census of minor irrigation works was first recommended by Planning Commission in 1970. The National Commission on Agriculture examined in detail the status of minor irrigation in India and recommended that a census of irrigation sources be carried out once in five years.
- 1.4. Keeping this in view, a central scheme "Rationalisation of Minor Irrigation Statistics (RMIS)" was launched in 1987-88 with 100% Central assistance to the States/UTs. During the XIth Five Year Plan, the RMIS scheme became part of the Central Sector Plan scheme "Development of Water Resources Information System (DWRIS)". During

the XII Plan, RMIS was a sub-component of “Irrigation Census” component of the plan scheme DWRIS. Currently Irrigation Census (parent component of “RMIS”) is a standalone component under umbrella scheme- Pradhan Mantri Krishi Sinchai Yojana (PMKSY) and other schemes.

- 1.5. For the implementation of the scheme, each State/UT identifies a Nodal Department for collection, compilation and dissemination of information for the State. State Statistical Cells are generally created within the Nodal Department so identified by the State Government. These Cells assist the Head of the Nodal Department or Census Commissioner in the State in organising, coordinating and supervising the Census as and when planned by the Ministry. States may also setup PMU within the sanctioned strength of Statistical cells for taking technical expertise in handling huge volume of digital data.
- 1.6. The main objective of the RMIS scheme is to build up a comprehensive and reliable database in the minor irrigation (MI) sector for effective planning and policymaking. The major activity under the scheme is the census of minor irrigation schemes conducted in the States/UTs covering all ground water and surface water schemes (which are mostly under private ownership up to 2000 ha.). In the MI Census, detailed information on various parameters like irrigation sources (dug well, shallow tube well, medium tube well, deep tube well, surface flow and surface lift schemes), irrigation potential created (IPC), potential utilized, ownership, holding size of land by owner, devices used for lifting water, sources of energy, energy conserving devices such as sprinkler and drip irrigation, use of non-conventional energy sources such as solar pumps, wind mills etc. is collected. So far, six censuses have been conducted with reference years 1986-87, 1993-94, 2000-01, 2006-07, 2013-14 and 2017-18. The scope of the “Irrigation Census” scheme has been enlarged by the launch of First Census of Water Bodies in convergence with 6th minor irrigation with the objective of developing a national database for all water bodies. The convergence of MI census and census of Water Bodies offers substantial savings in resources on planning, training of field staff, field work, scrutiny, data entry, validation etc. because the coverage area of both the censuses in rural areas is the same.
- 1.7. The need for conducting a separate census of water bodies was pointed out by the Parliamentary Standing Committee on Water Resources on the subject “Repair, Renovation and Restoration of Water Bodies – Encroachment on water bodies and steps

required to remove the encroachment and restore the water bodies”. Department of Water Resources (DoWR), Ministry of Jal-Shakti had maintained database of only those water bodies which were being provided Central assistance under the Scheme of Repair, Renovation and Restoration (RRR) of water bodies, thus confining its monitoring role to only such water bodies. The Committee recommended that in order to enable an objective assessment of water bodies and their condition, there should be separate census of water bodies and thereby creating a Central database on water bodies. As recommended by the Standing Committee, the first Census of Water bodies was launched by Department of Water Resources, River Development & Ganga Rejuvenation in convergence with the 6th Minor Irrigation census.

- 1.8. In the first Census of Water Bodies, information on all important aspects of the water body including their size, condition, status of encroachments, use, storage capacity, status of filling up of storage etc is collected. It covered the water bodies located in rural as well as urban areas and took into account all types of uses of Water Bodies like Irrigation, Industry, Pisciculture, Domestic/ Drinking, Recreation, Religious purpose, Ground Water Recharge and other purposes.
- 1.9. After successful completion of field work and data entry/validation processes, the Department of Water Resources, River Development & Ganga Rejuvenation brought out the All India and State-wise reports of 6th Minor Irrigation Census and 1st Census of Water bodies in the year 2023. Along with 7th Minor Irrigation Census, 2nd census of water bodies, 1st census of Springs and 1st census of major and medium irrigation (MMI) projects are also being taken up.

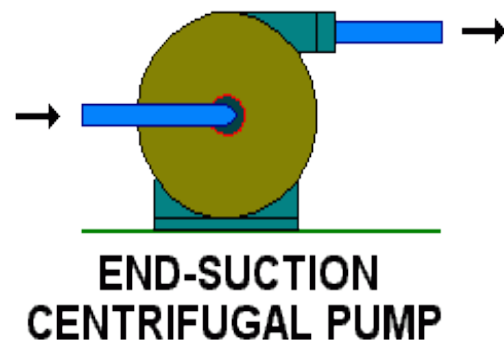
CHAPTER TWO:

CONCEPTS AND DEFINITIONS OF 7th MINOR IRRIGATION CENSUS

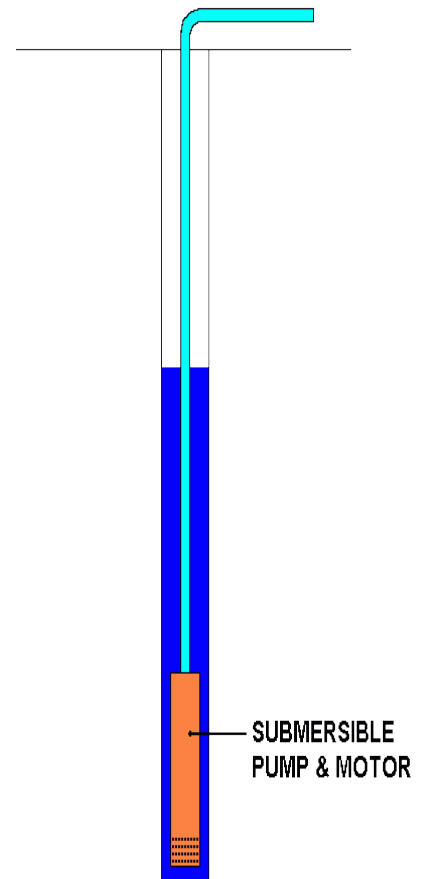
2.0 7th MINOR IRRIGATION CENSUS

- 2.0.0 **LGD Codes:** As per Ministry of Panchayati Raj, Local Government Directory is a Unified and authoritative directory of Land Regions/Revenue, Rural and Urban Local Governments. The primary objective of the Local Government Directory (LGD) is to build a Standard location directory by providing an online platform to the States/UTs to maintain the up-to-date list of respective administrative units (Districts, Sub-Districts, Villages, Blocks, Local Governance bodies along with their corresponding Rural/Urban wards) in collaboration with Office of Registrar General of India (ORGI), Ministry of Home Affairs (MHA).
- 2.0.1 **Culturable Command Area (CCA):** The area which can be irrigated from a scheme and is fit for cultivation.
- 2.0.2 **Cultivable area:** It consists of net area sown, current fallow, fallow lands, other than current fallow, culturable waste and land under miscellaneous tree crops.
- 2.0.3 **Gross Irrigated Area:** The area irrigated under various crops during a year, counting the area irrigated under more than one crop during the same year as many times as the number of crops grown and irrigated.
- 2.0.4 **Net Irrigated area:** Net irrigated area is the area cultivated and irrigated at least once in the reference year in any one season or for any one crop.
- 2.0.5 **Irrigation Potential Created (IPC):** The total gross area proposed to be irrigated under different crops during a year by a scheme. The area proposed to be irrigated under more than one crop during the same year is counted as many times as the number of crops grown and irrigated. If original Irrigation Potential of the scheme is not known, then the maximum area irrigated during the past five year or so may be taken as the IPC.
- 2.0.6 **Irrigation Potential Utilised (IPU):** The gross area actually irrigated during reference year out of the gross proposed area to be irrigated by the scheme during the year.

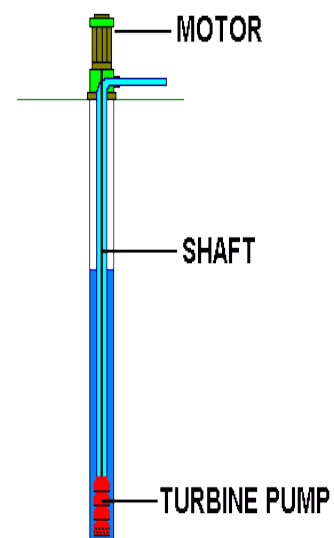
- 2.0.7 **Minor Irrigation (M.I.) Scheme:** A scheme having CCA up to 2,000 hectares individually is classified as minor irrigation scheme. It will also include the schemes meant only for recharge of ground water.
- 2.0.8 **Medium Irrigation Scheme:** A scheme having CCA more than 2,000 hectares and up to 10,000 hectares individually is a medium irrigation scheme.
- 2.0.9 **Major Irrigation Scheme:** A scheme having CCA more than 10,000 hectares is major irrigation scheme.
- 2.0.10 **Sprinkler Irrigation System:** Sprinkler Irrigation is a method of applying irrigation water which is similar to rainfall. Water is distributed through a system of pipes usually by pumping. It is then sprayed into the air of entire soil surface through spray heads so that it breaks up into small water drops which fall to the ground.
- 2.0.11 **Drip irrigation system:** Drip irrigation system delivers water to the crop using a network of mainlines, sub-mains and lateral lines with emission points spaced along their lengths. Each dripper/emitter, orifice supplies a measured, precisely controlled uniform application of water, nutrients, and other required growth substances directly into the root zone of the plant.
- 2.0.12 **Non- Submersible or Centrifugal Pump:** The most common type of pump. Typically, the pump is "close-coupled" to an electric motor, that is, the pump is mounted right on the end of the motor's drive shaft and the pump case is bolted straight into the motor so that it looks like a single unit. The water typically enters the pump through a "suction inlet" centered on one side of the pump, and exits at the top. Almost all portable pumps are end-suction centrifugal. If the pump isn't one of the next two types, then chances are it is an end-suction centrifugal. This type of pump needs to be installed on a pad above the high water level if pumping from a lake or river.



2.0.13 Submersible Pump: Submersible pumps are installed completely underwater, including the motor. The pump consists of an electric motor and pump combined in a single unit. Typically, the pump will be shaped like a long cylinder so that it can fit down inside of a well casing. Although most submersibles are designed to be installed in a well, many can also be laid on their side on the bottom of a lake or stream. Another common installation method for lakes and rivers is to mount the submersible pump underwater to the side of a pier pile (post). Submersibles don't need to be primed since they are already under water. They also tend to be more efficient because they only push the water, they don't need to suck water into them. Most submersible pumps must be installed in a special sleeve if they are not installed in a well, and sometimes they need a sleeve even when installed in a well. The sleeve forces water coming into the pump to flow over the surface of the pump motor to keep the motor cool. Without the sleeve the pump will burn up. Because the power cord runs down to the pump through the water it is very important that it be protected from accidental damage.



2.0.14 Turbines and Jet Pumps: A turbine pump is basically a centrifugal pump mounted underwater and attached by a shaft to a motor mounted above the water. The shaft usually extends down the center of a large pipe. The water is pumped up this pipe and exits directly under the motor. Turbine pumps are very efficient and are used primarily for larger pump applications. They are typically the type of pumps used on municipal water system wells. When you see a huge motor mounted on its end over a well that is most likely a turbine pump. One uses turbine pumps for large parks and golf courses where we are pumping from lakes. The turbine pump is mounted in a large concrete vault with a pipe connecting it to the lake. The water flows



by gravity into the vault where it enters the pump. The pump motors are suspended over the vault on a frame. A jet pump is similar to a turbine pump but it works by redirecting water back down to the intake to help lift the water.

2.1 GROUND WATER SCHEMES

2.1.1 **Dug-well:** It covers ordinary open wells of varying dimension dug or sunk from the ground surface into water bearing stratum to extract water for irrigation purposes. These are broadly dug-cum-bore wells now-a-days or masonry wells/ kutchha wells water from which are lifted with the help of animals/ human. Most of such schemes are of private nature belonging to individual cultivator. The parameter of the well ranges between 2 to 6 meters and the depth between 8 and 15 meters. CCA of a well operated with the help of human/ animals generally varies from 1 to 2 hectares and in case of Dug-cum-Bore Well it may be as in case of a Tube Well of similar capacity and depth of bore.

2.1.2 **Shallow tube-well:** It consists of a bore hole built into ground with the purpose of tapping ground water from porous zones. In sedimentary formations depth of a shallow tube well does not exceed 35 meters. These tube wells are either cavity tube-wells or strainer tube-wells. These are usually drilled by percussion method using hand boring sets and sometimes percussion rigs. Success and popularity of the scheme depends on how cheap they are. A coir structure formed by binding coir strings over an iron frame is being used as strainer. In shallow water table areas, bamboo frames are also used. Sometimes steel pipe casing is replaced by pipes constructed by rapping bituminized gunny bags over the bamboo frame. These are called bore wells, in which bore-hole is stable without a lining in the bottom portion and a tube is inserted only in the upper zone. The shallow tube wells are generally operated for 6 to 8 hours during irrigation season and give yield of 100-200 cubic meters per day, which is roughly 2 times that of a dug well. Their CCA may go up to 10 hectares.

2.1.3 **Medium Tube Well** It consists of a bore hole built into ground with the purpose of tapping ground water from porous zones. In sedimentary formations depth of a medium tube well will be in the range of 35-70 meters. The medium tube wells are generally

2.1.1.4 **Deep tube wells:** It usually extends to the depth of 70 meter and more and is designed to give a discharge of 100 to 200 cubic meters per hour. The deep tube wells are drilled by rotary percussion or rotary cum percussion rigs. These tube wells operate round the clock during the irrigation season, depending upon the availability of power. Their annual output is roughly 15 times that of an average shallow tube well and are usually constructed as public scheme which are owned and operated by government departments or corporations. Their CCA may go up to 50 hectares.

The characteristics of an artesian well are

- [illegible]

B-5

Free flowing or auto flow well- constructed by CGWB at (a) Bhergaon, Udalguri District, Assam. (b) Charaimari, Baksa District, Assam

- iv. To prevent loss of groundwater from flowing artesian well, height of the well casing pipes above the surface may be high (reference figure below).



Height of well head is kept high to prevent loss of groundwater at Tilpuri-1, Gadarpur Block, Udham Singh Nagar District, Uttarkhand

- v. Incessant abstraction from flowing artesian wells can reduce pore pressures in the naturally ‘over pressured’ artesian aquifers so as to cause widespread land subsidence of considerable magnitude. This is noticed in Neyville, Tamil Nadu (reference figure below)



Land subsidence marked by height of top of well-casing grout above land surface, caused by underestimated rates of required pumping for mine dewatering (photos by J. Toth).

- vi. Flowing artesian wells are most common at the base of slopes in hilly terrain, where high heads within the uplands can induce strong upward hydraulic gradients (reference figure below).



Flowing artesian well is used for irrigation in Khowai District, Tripura

2.2 SURFACE WATER SCHEMES

2.2.1 Surface flow irrigation scheme: These schemes use rainwater for irrigation purposes either by storing it or by diverting it from a stream, nalah or river. Sometimes, permanent diversions are constructed for utilising the flowing water of a stream or river. Temporary diversions are also constructed in many areas which are usually washed away during the rainy season. The small storage tanks are called ponds or bundhis which are mostly community owned. The command areas of such schemes are 20 hectares or less. The large storage tanks whose command varies from 20 to 2000 hectares are generally constructed by government departments or local bodies. These are the biggest items of surface minor irrigation works.

2.2.1.1 Storage schemes (Tanks and other storages): Storage schemes include tanks and reservoirs which impound water of streams and rivers for irrigation purposes. After wells, tanks occupy a very important place under the minor irrigation programme. They provide nearly two-third of the total irrigation from minor sources in the states of Andhra Pradesh, Karnataka, Kerala, Maharashtra, Orissa and Tamilnadu. Tracts with undulating topography and rocky sub-strata are eminently suitable for tank irrigation. Besides, there exists scope for further construction of tanks in many areas. A large number of existing tanks in southern States have gone into disuse due to long neglect of repairs. Renovation of these tanks so as to restore the lost irrigation potential is being

accorded priority under the minor irrigation programme.

The essential features of these schemes are

- a. a bund or a dam which is generally of earth, but is also sometimes partly or fully masonry,
- b. anicut and feeder channels to divert water from adjoining catchments,
- c. a waste weir to dispose of surplus flood water,
- d. sluice or sluices to let out water for irrigation, and
- e. conveyance and distribution system.

The size of the storage is determined by the run-off expected on the basis of dependable monsoon rainfall in the catchment and by the fact whether the rainfall and cropping pattern would permit more than one filling of the tank.

2.2.1.2 Diversion schemes: These schemes aim at providing gravity flow irrigation by mere diversion of stream water supply without creating any storage. As compared to storage schemes they are economical but their feasibility is dependent on the presence of flow in the stream at the time of actual irrigation requirements. Essentially such schemes consist of

- a. an obstruction (weir) or bund constructed across the stream for raising and diverting water; the weir being called anicut in the South, bandhara in Maharashtra and Gujarat, and Bandh in the Assam region, and
- b. an artificial channel, known as kul in the hilly areas, pyne in Chhota Nagpur and Bihar and dong in the Assam region.

In case of small schemes which have prominent scope in the hilly tracts and foot hill plains, the water is usually diverted by constructing temporary bunds across the streams, made up of earth, stones or even bamboos. The discharge handled being of small order, the bund on the head of the channel is not provided with any gated structure for controlling and regulating the flow. Construction of work, is, therefore, simple and cheap and can be handled to a large extent by the people themselves. However, these constructions being temporary, require frequent renovation. The bunds are liable to be washed away by every major flood. The channels also get silted up and scoured

frequently. It is essential that whenever such schemes aim at diverting higher discharges, say more than 5 to 10 cusecs, or tackle streams having high intensity of flood discharge, proper regulation structures equipped with suitable types of gates are provided. Weir has to be provided with scouring sluices in order to regulate the flow of silt in the off-taking channels. The construction of masonry weir is comparatively simpler and cheaper where rocky foundation is available beneath the streambed. The design of the weir on permeable and erodible foundation is more complicated and requires specialised engineering knowledge.

2.2.1.3 Water conservation-cum-ground-water recharging Schemes: Under this head are included schemes which serve primarily one or more of the following purposes:

- a. submerging agricultural land during monsoon for sowing post-monsoon crops,
- b. improving moisture regime of the adjoining fields downstream for raising of post-monsoon crops without irrigation and replenishing the ground water.

An additional advantage of these schemes is that they help to conserve the soil. When constructed in the head water region serving catchment area of tanks down below, they serve the important purpose of retarding the silting rate of these tanks.

The system of water conservation through field embankments is peculiar to central Indian tracts and is commonly in vogue in the northern Madhya Pradesh, Bundhelkhand region of Uttar Pradesh and eastern Rajasthan. In the Bundhelkhand region, these works are popularly known as ‘bundhies’, which consist of earthen embankments thrown across gently sloping ground. During the rainy season, water is stored upstream and the land gets submerged. If the land slope is gradual, often large areas get submerged even by low embankments. Ordinarily, no direct irrigation is carried out and benefit is mostly due to submergence. In nearly all these areas, the soil is generally black which is retentive of moisture. After remaining submerged under water during the rainy season, the soil retains sufficient moisture to grow good rabi crops. The remaining water is let out and the submerged land released for cultivation. The other advantage of submerging land in this manner is that the first flood brings a lot of silt which acts as rich manure. By preventing free flow of water across steep gradient, the soil of the land is also conserved.

Ahars in Bihar, which store water for irrigation of paddy fields, also function somewhat in a similar manner. Water is let out in October for irrigating the rice fields and the drained out fields in the bed of the ahars are cultivated with rabi crops. The head water tanks popularly in vogue in Orissa have a similar role to perform. These consist of bunds put up across slope at the head of gullies with the objective of impounding and diverting the cumulative run-off into the wider valley area downstream of the bunds by percolation, seepage and surface flow. Surface channels are provided in the flanks to carry floodwater received in excess of the storage capacity of the bunds during the monsoon season.

Percolation tanks primarily constructed for the purpose of recharging ground water are in vogue in Maharashtra, Tamilnadu, Kerala and Rajasthan. Check-dams or rapats are in vogue in Rajasthan. They consist of bunds constructed across the streams for the purpose of retarding the surface flow and also the sub-surface flow to some extent by making the bed slope of the stream flattened. This results in increased percolation of water in the sub-soil with consequent increase of the ground water supply.

2.2.2 Surface Lift Irrigation Scheme: In regions where the topography does not permit direct flow irrigation from rivers and streams, water has to be lifted into the irrigation channels. These works are similar to diversion schemes, but in addition pumps are installed and pump houses constructed. These schemes, being costly in operation, are feasible only in areas where

- a. gravity flow irrigation is not possible
- b. there is keen demand for irrigation and cultivators are enthusiastic,
- c. water is available in the streams for at least about 200 days in a year, and
- d. cheap electric power is available.

Installation of diesel operated pump sets for lifting water makes the operation and maintenance cost of these schemes exorbitantly high. However, for lifting small order of discharge by individual cultivators, portable diesel engine pump sets are feasible as they provide greater flexibility and mobility for installation at different points of the water source or sources. In some areas Solar Pumps are also used for lifting water. The CCA of such schemes may go up to 20 hectares.

CHAPTER THREE:

CONCEPTS AND DEFINITIONS

OF

2nd CENSUS OF WATER BODIES

3.0 2nd CENSUS OF WATERBODIES

Water bodies are areas of water, both salty and fresh, large and small, which are distinct from one another in various ways. The largest water bodies are oceans, while the smallest are brooks or ponds. Smaller accumulations of water, such as puddles or swimming pools are not usually referred to as water bodies in the geographical sense.

3.0.0 **LGD Codes:** LGD is a Unified and authoritative directory of Land Regions/Revenue, Rural and Urban Local Governments. The primary objective of the Local Government Directory (LGD) is to build a Standard location directory by providing an online platform to the States/UTs to maintain the up-to-date list of respective administrative units (Districts, Sub-Districts, Villages, Blocks, Local Governance bodies along with their corresponding Rural/Urban wards) in collaboration with Office of Registrar General of India (ORGI), Ministry of Home Affairs.

3.1 DEFINITION OF WATER BODY TO BE USED:

3.1.1 **Water body:** All natural or man-made units bounded on all sides with some or no masonry work used for storing water for irrigation or other purposes (e.g. industrial, pisciculture, domestic/drinking, recreation, religious, **ground** water recharge etc.) will be treated as water bodies in this Census. These are usually of various types known by different names like tank, reservoirs, ponds and bundhies etc. A structure where water from ice-melt, streams, springs, rain or drainage of water from residential or other areas is accumulated or water is stored by diversion from a stream, nala or river will also be treated as water body.

3.1.2 **Following type of water bodies are excluded:**

- i. Ocean, lagoons.
- ii. River, Stream, spring, waterfalls, canals etc. which are free flowing without any bounded storage of water.
- iii. Swimming Pool.
- iv. Covered Water tank created for specific purpose by any individual family or household for their sole consumption.

- v. Water tank constructed by any factory owner for consumption of water as raw material or consumable.
- vi. Temporary water bodies created by digging for mining, brick kilns, and construction activities. These may get filled up during rainy season.
- vii. Pucca open water tank created only for drinking for cattle.

3.2 Types of Water Bodies:

Following type of water bodies are included. (The list is indicative but not exhaustive).

- 3.2.1 **Ponds:** A small body of water usually earthen though masonry dykes are also included and shallow made through excavations which represent a restricted environment. Ponds usually describe small bodies of water generally no one would require a boat to cross.
- 3.2.2 **Lakes:** A lake is a large area filled with water that is surrounded by land. Lakes lie on land and are not part of the ocean and therefore are distinct from lagoons, and are also larger and deeper than ponds.
- 3.2.3 **Tanks:** A shallow water unit usually larger than a pond created by constructing earthen or masonry barricades which receives water either from tube wells or rains.
- 3.2.4 **Reservoirs:** A large man made impoundment of varying magnitude created by erecting, bunds, dams, barrages or other hydraulic structures across streams or rivers serving one or more purposes such as irrigation, power generation, flood control or other water resource development projects.
- 3.2.5 **Water conservation Schemes:** Water conservation schemes are aimed at improving moisture regime of the adjoining fields downstream for raising of post monsoon crops without irrigation. This may include percolation tanks and check dams. Both result in increased percolation of water in the sub-soil with consequent increase of the ground water supply.

CHAPTER FOUR:

METHODOLOGY
FOR CONDUCTING
7th MINOR IRRIGATION CENSUS
&
2nd CENSUS OF WATER BODIES

4.0 METHODOLOGY:

The 7th MI Census and 2nd Census of Water Bodies shall be conducted completely digitally through an app in Smart phone without using any paper. The entire process of data entry, scrutiny etc. will be done through mobile app.

The data entered through mobile app by the enumerator during field work can be viewed and validated in the online portal developed by NIC. States/ UTs should make efforts to complete the field work/data entry and validation work in six months' time. The validated data would again be examined at the Central Level before generation of final table. The MI Census data would be collected through canvassing different enumeration schedules for the village and Minor Irrigation schemes. The Village schedule is to be canvassed by the Patwaries through revenue / land records maintained in the office of Government authorities and enquiries from village level workers/gram pradhans etc. Scheme related schedules are to be canvassed by the enumerators through enquiries from the owners of the schemes. In case of institutional schemes, the information may be collected through available records. The schedules of enquiry along with instructions/ guidelines for filling them will be provided separately. As far as canvassing of water body schedule is concerned, it will be canvassed by same enumerator preferably, or other persons as decided by State Nodal office in Villages. For urban areas, enumerators for water body may be identified for one town or group of town.

While the field work is going on: supervision and checking is required to be done by:

- i. Block level officers
- ii. District level officers
- iii. State level officers as per the norms prescribed.

Central team along with the State Statistical Cell officials would also visit the State and check the quality of field work. Scrutiny of 35% of MI scheme schedules, 35% water body schedules and 100% of village schedule will be undertaken in 7th MI Census and 2nd census of water bodies for ensuring better quality of data.

4.1 Implementation Guidelines:

- 4.1.1 A Steering Committee is to be formed in each State with Secretary of the Nodal Department for conduct of MI and water body census as Chairman and members from

the CWC, State Departments of Revenue, Irrigation, Water Resources, Panchayati Raj, State Planning, DES, Rural Development and State head of NSSO (FOD). A technical Sub Committee will be formed under the Chairmanship of Regional Chief Engineer of CWC in charge of the State to provide technical inputs and guide the State Nodal Statistical Cell during the Census operations. A representative from regional office of CGWB and State Water Informatics Centre (SWIC) wherever established will also be a member of this Committee. Considering the inclusion of Census of Springs, the Chairman of the committee may also co-opt representatives from other concerned State Departments like Ground Water Department, Geological Department, Soil & Water Conservation Department etc. Further, it may be ensured that representatives from Nodal Departments for census of Major and Medium Irrigation Projects and Census of Springs should be there in Steering Committee as well as in Technical Sub Committee.

- 4.1.2 Existing training module is to be standardised and put in Audio-Visual form in English/Hindi for uniformity in imparting training.
- 4.1.3 Publicity campaign at State / district level shall be under taken. Funds provided under contingency to be used for advertisement through posters / Media/ Announcement locally through hand held loudspeaker just a week before Census is to start in the villages and Census Commissioners have to ensure timely execution of the same.

4.2 Fieldwork:

- 4.2.1 The 7th MI Census as well as 2nd Census of Water bodies will be conducted under the overall charge of Census Commissioner who will be a Senior Officer of the Nodal department of State / UT concerned. The fieldwork will either be undertaken by the Nodal department itself or entrusted/ outsourced to some other agencies which the State/UT Government considers fit keeping in view infrastructure available with it under intimation to this office. However, for the entire Census operation, Census Commissioner of the State/ UT shall be the pivotal point as far as Government of India is concerned and would be entitled to draw the honorarium for the State level officer.
- 4.2.2 The primary work of collection of data will be carried out by the enumerators both in

rural and urban areas (for water bodies). They may be village level workers or village accountants or Lekhpals or Patwaries or any other official designated by the State/UT Government in rural and urban area.

- 4.2.3 The primary enumerators, while canvassing the schedules, shall visit the owner of the water bodies or its next neighbour and collected information on the basis of personal enquiry from him. The physical verification of the schemes/ water bodies will also be done by the enumerators. The purpose of the Census would be explained to the farmers/ owners to win over their confidence in revealing the specific information in respect of water bodies as the case may be. Assurance that the data furnished by them would be kept confidential shall be given to the owners. After filling up the schedules, the enumerators will deposit all completed schedules along with their summary in prescribed format to their immediate supervisor for scrutiny. The enumerator will also prepare the summary of all village schedules, schemes schedules and water body schedules in the prescribed format and submit it to his immediate supervisor which may be Block level officers or sub-divisional officers/Tehsildar. The overall quality of field work is to be monitored by Block/District level/ State officers, who in order to ensure the correctness of data, will conduct frequent site visits of the schemes and check the entries made by primary enumerators.
- 4.2.4 Only the officers inspecting/ supervising the field work should be entitled to draw the District/ Block level honorarium, while the honorarium for additional scrutiny of MI Schemes and water bodies shall be distributed to the supervising level officer of the field agency. The objective of the additional scrutiny by the officer next in hierarchy to the enumerators is for improvement in quality of data starting right from the village/urban unit identified.
- 4.2.5 The primary enumerator should take along-with them the list of all schemes covered in the last census during 2017-18 while going for field work. He should visit and cover all these schemes again. He should also find out from village officials / knowledgeable people / water use association, any new MI schemes which have started functioning and any new water bodies which have been created after 2017-18.

FLOWCHART

4.3 Sample Check:

- 4.3.1 The block level officers are required to visit atleast 5 villages in his block and physically verify the schemes, quality of census and the extent of coverage of schemes in the village and scrutinize 35% of MI scheme schedules, 35% water body schedule and 100% village schedule 100% and urban schedule.
- 4.3.2 On completion of the scrutiny and after the field visits; block level officer shall fill up the supervisor's report form and submit all the schedules to the district level officer concerned (with copy to State Nodal Office).
- 4.3.3 At least 1% of the total schedules or 100 schedules, whichever is maximum, shall be selected at random and scrutinized by the district level officer. The district level officer must visit atleast 5 villages in 5 separate blocks to physically verify the quality and coverage of the MI Schemes and water body schedules. After the completion of inspection of the field work and scrutiny of the schedules; the supervisor's report form is to be filled up by the district level officer and submitted to the State Nodal office with a copy to the Centre.
- 4.3.4 The Monthly Progress Reports on the Census sent by the State should adequately reflect scrutiny /inspection details sent by Block/ District level officer along with field work. For the processing of data, the web based online software developed by Central NIC, shall be used for validation, tabulation etc. Frequent inspections and sample checks will also be conducted by officers from the State Statistical cells and Central team in the Department of Water Resources, RD & GR.

4.4 COMPUTERISATION OF CENSUS DATA

- 4.4.1 NIC would develop the appropriate online software/ App for the censuses and provide technical support and training in similar Regional Data Processing Workshops to be organized by the Ministry in association with the host States.

4.4.2 This will be followed by State level trainings to be organized by the State Census Commissioner. The user ID and password for accessing the online portal will be provided to the State nodal officers by the time, the data collection work starts in the field. Online data entry, validation etc. will be done by States/UTs.

4.4.3 The Census data entered in the online portal by the States/UTs would again be scrutinized at the Central level and observations/ queries thereon would be referred to States/ UTs for possible corrections/clarification. On-line tables would be generated on the portal on the basis of data fed by States/ UTs. The on line tables generated through portal shall be utilised for compiling National Level Report. The State Government shall use the corrected data as available on the online portal for generating micro level tables as per their requirement.

4.5 SUBMISSION OF MONTHLY PROGRESS REPORT

4.5.1 The State/UT Governments will mail Monthly Progress Report for the censuses in the prescribed format to the Ministry. Besides that, real time progress of data entry and validation can be accessed online through the software provided by the Ministry. This would help in monitoring the progress of Census work, taking remedial measures wherever required. The States/ UTs may also devise their own mechanism to monitor the flow of work regularly. In addition to the Monthly progress report, a report regarding completion of field work from all villages/towns is to be submitted as per the prescribed format to ensure completion of field work at enumerator/supervisor/block and district level.

4.6 TENTATIVE SCHEDULE OF THE CENSUSES

1. Release of Central grant by the Centre : As and when demanded by States/UTs
2. All India Training Workshop : August 2023
3. Completion of Pilot testing of mobile : October 2024
app
4. Completion of 06 Regional Training : January 2025
Workshops

5. Completion of State /District Training : Mid February 2025
programmes
6. Start of field work of census on : Last week of February 2025
ground
7. Completion of Cleaning, validation : August 2025
and scrutiny of data
8. Completion of Examination of tables : November 2025
by Central Ministry
9. Generation of key tables, Report : January 2026
drafting and Publication

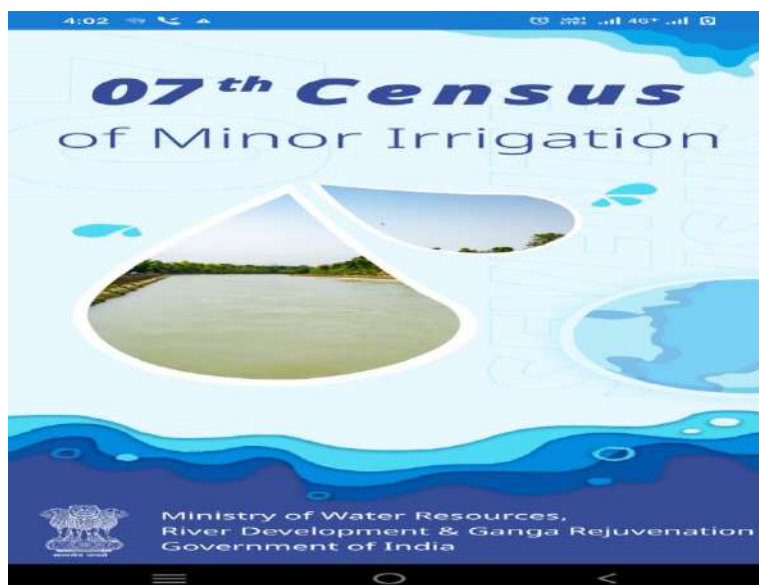
CHAPTER FIVE:

**INSTRUCTIONS FOR
USING
MOBILE APPLICATION**

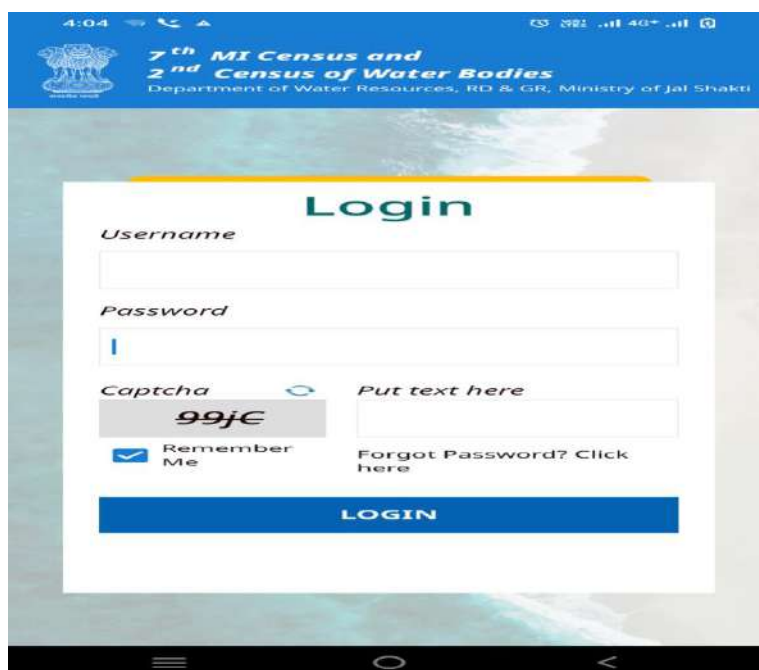
Introduction

This user manual provides a step-by-step guide for using the **MI Census & Water Body Application**. The application enables users to collect and manage census data related to **Water bodies, Villages, Groundwater, Surface Waters** schemes across different regions. It is designed to support offline / online data entry, ensuring that information can be captured even in remote areas with or without an internet connection. Once online, the data is synchronized automatically with the central server.

- Open the application



- After application SPLASH->LOGIN screen appear



1. Enter login credentials
2. Upon successful login, the application dashboard will be displayed. The dashboard contains the following key sections:

- **7th MI Census Docket:** Displays the count of all offline data entries for:
 1. VS (Village Schedule)
 2. GWS (Ground Water Schedule)
 3. SWS (Surface Water Schedule)
- **2nd Census of Water Bodies:** Displays the count of all offline data entries for:
 1. WBS (Water Body Schedule)
 2. US (Urban Schedule)
- **Sync Now:** This button checks for any offline data. If there is any Scheduled data stored locally, the system will sync it with the MI Census server when connected.
- **Logout:** This option allows you to exit the application. However, if there is unsynced offline data, the system will prompt you to sync the data before logging out.
- **Navigation Menu:** The three horizontal black lines in the top-left corner represent the application's navigation menu.



Village Schedule

- Click on the Navigation Icon
- Select Village Schedule, Basic Details tab will open

The screenshot shows a mobile application interface for the 'Village Schedule' form. At the top, there is a blue header bar with a back arrow and the title 'Village Schedule'. Below the header, there are three tabs: 'Basic Details' (highlighted in yellow), 'Irrigation Details', and 'Other Details'. The 'Basic Details' tab contains two sections: 'I. Identification Particular' and 'II. Specific Information'. Under 'I. Identification Particular', there are five dropdown menus: 'State' (pre-filled with '29-ANDAMAN & NICOBAR'), 'District' (pre-filled with '003-NORTH & MIDDLE ANDAMAN'), 'Block/Tehsil' (pre-filled with '000003-DIGLIPUR'), 'Village' (pre-filled with 'Select'), and 'Date of Enumeration' (pre-filled with '01/10/24' and a calendar icon). Under 'II. Specific Information', there are two dropdown menus: '01. Is Village Tribal/Non-Tribal' (pre-filled with 'Select') and '02 (a): Is the Village covered by Major/Medium Scheme' (pre-filled with 'Select'). At the bottom right of the form, there is a blue button labeled 'Next'.

- The fields for State, District, and Block are pre-filled and disabled.
- Select the Village
- The following fields will be auto-populated from the first census
 - Is Village Tribal/Non Tribal
 - Geographical Area
- Select Is village covered by Major/Medium scheme

← Village Schedule

Basic Details	Irrigation Details	Other Details
I. Identification Particular		
State		
29-ANDAMAN & NICOBAR		
District		
003-NORTH & MIDDLE ANDAMAN		
Block/Tehsil		
000003-DIGLIPUR		
Village		
000026-KALIGHAT		
Date of Enumeration		
03/10/24		
II. Specific Information		
01. Is Village Tribal/Non-Tribal		
2-Non-tribal		
02 (a). Is the Village covered by Major/Medium Scheme		
1-Yes		
Next		

- Click Next to proceed to the Irrigation Details tab and fill in the required fields.

Basic Details	Irrigation Details	Other Details
200		
05. Net Sown Area (Ha.)		
100		
06. Gross Irrigated Area (By all sources)		
(i). During Kharif Season in (Ha. - Hectare)		
20		
(ii). During Rabi Season (Ha. - Hectare)		
30		
(iii). For Perennial Crops (Ha. - Hectare)		
40		
(iv). During Other Season (Ha. - Hectare)		
50		
(v). Total Gross Area Irrigated (06(i)+(ii)+(iii)+(iv))		
140		
07. Net Area Irrigated (Ha. -By all sources)		
100		
Back		
Next		

- Click Next again to proceed to the Other Details tab and complete the fields.

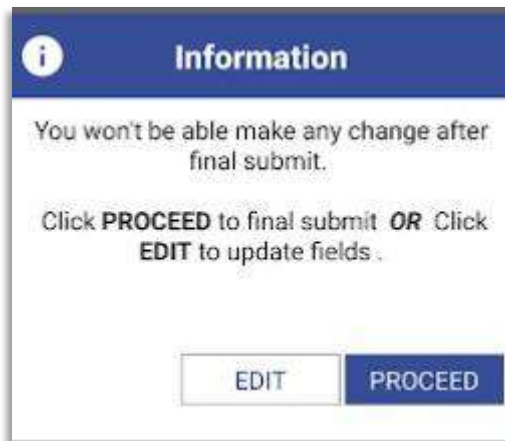
← **Village Schedule**

Basic Details	Irrigation Details	Other Details
<i>All the items need to be entered in whole number</i>		
8. Average Ground Water level (in Metres)		
(i) Pre Monsoon		
10		
(ii) Post Monsoon		
2		
09. Whether Water Users Association (WUA) exists in the village		
Yes		
10. Number of Waterbodies as per schedules filled in village		
10 (1). Pond		
2		
10 (2). Tank		
3		
10 (3). Lake		
4		

10 (4). Reservoirs
2
10 (5). Water conservation Schemes/ percolation to
1
10 (6). Others
6
10 (7). Total : 10 (1 to 6)
1
11. Summary of M I Schemes in the village as per all scheme schedules filled.
11(1) Ground Water Schemes
2
11(2) Surface Water Schemes
3
11(3) Total Schemes
7

Back Final Submit

- After filling in all details, click Final Submit to trigger an information pop-up



- Click 'Edit' to update the form, or click 'Proceed' to submit the data."
- Upon clicking the Proceed button, a success message will be displayed

Note:-If the user is online, clicking on Proceed will synchronize the data immediately. If the user is offline, the data will be stored locally, and it will automatically synchronize once the user is back online.



Ground Water Schemes

- Click on the Navigation Icon
- Select Ground water schemes and Basic Details tab will open

Ground Water Scheme

Basic Details | Scheme Details | Cost Details

Status | Water Distribution | Pump Operation

Command | Irrigation Details

I. Identification Particular

State
26-UTTAR PRADESH

District
003-BIJNOR

Block/Tehsil
000001-NAJIBABAD

Village
Select

Date of Enumeration
03/10/24

II. Specific Information

Search By Type of scheme
Select

- The fields for State, District, and Block are pre-filled and disabled.
- Select the Village, and the Serial Number of the Scheme will be auto-filled based on the selected village.

II. Specific Information

Search By Type of scheme
Select

1. Serial Number of Scheme

Sr. No.	Type of Scheme	Ownership	Khasra Number
001	Shallow Tube well	Private	1
002	Shallow Tube well	Private	2
003	Shallow Tube well	Private	3
004	Shallow Tube well	Private	4
005	Shallow Tube well	Private	5

- Tap on any Serial Number with an edit icon to display a warning message.



- The following fields will be auto-populated from the first census

- Type of Scheme
- Type of Tube Well/Dug Well
- Owner of the Scheme
- Geo Location(Latitude, Longitude)

The screenshot shows a form with the following sections:

- 2. Type of scheme**: A dropdown menu showing "2-Tube well".
- 3.1 If code 1 in item 2 above, type of Dug well:**: A dropdown menu showing "Select".
- 3.2 If code 2 in item 2 above, type of Tube well:**: A dropdown menu showing "1-Shallow Tube well".
- 4. Owner of the scheme(Name in case of individual former)**: A dropdown menu showing "2-Co-Operative Owned".
- Get Geo-Location**: A blue button with an orange arrow pointing to it.
- Latitude: 28.6020848**:

Degree	Minute	Second
28	36	7
- Longitude: 77.3815656**:

Degree	Minute	Second
77	22	53
- Next**: A blue button at the bottom right.

- If the Geo Location is not available, click on Get Geo Location
- Click Next to proceed to the Scheme Details tab and fill in the required fields.
- Here following fields will be auto-populated from the firstcensus:-
 - 5(a)- Khasra Number/Plot No/Survey No in which the scheme is located
 - 5(b)-Location Particulars/Land Mark

Basic Details	Scheme Details	Cost Details
Status	Water Distribution	Pump Operation
Command	Irrigation Details	
5 (a) Khasra number/Plot No./Survey No. in which the scheme is located		
04		
(b). Location particulars /Land Mark		
ABUL FAJALPUR TABAIL		
6 (a) Total ownership Holding of owner (in case of individual owner only)		
20		
(b). Social Status of Owner(in case of individual owner only)		
2-Scheduled-tribe		
(c). Gender of Owner(in case of individual owner only)		
1-Male		
7. Year of Commissioning of the Scheme		
4-During 2021-2022		

8 Details of the scheme

(a) Depth of the Dug well/Tube well (in meters)

80

(b) Diameter (in meteres for dug well and mm for tube well)

30

(c) Depth of Bore(in meteres)(in case of dug cum borewell)

(d) Distance from any nearest Dug well/Tube well(in meteres)

20

Back Next

- Click Next to proceed to the Cost Details tab and fill in the required fields.
- Here following fields will be auto-populated from the first census:-
 - 9(a)- Cost of construction of the scheme

Basic Details		Scheme Details	Cost Details
Status	Water Distribution	Pump Operation	
Command		Irrigation Details	
(c). Cost of maintenance during (2023-24) (Rs. Lakh)			
1			
10.(a) Major source of finance(upto 2)(For individual owner only)			
1-Bank loan			
2-Government fund			
10(b). If any subsidy/assistance provided by Govt./ PSU ,amount for (For All Schemes)			
(i) Construction of Scheme/drilling/digging			
20			
(ii) Cost of machinery/distribution device			
1			
Back		Next	

- Click Next to proceed to the Status tab and fill in the required fields.

Basic Details		Scheme Details	Cost Details
Status	Water Distribution	Pump Operation	
Command		Irrigation Details	
11(a) Current Status of the Scheme			
2-Temporarily Not in use			
(b) No. of Years not in use			
1			
12. If code 2 in item 11 (a) reason for Temporarily (not in use)			
9-Any other reason			
13. If code 3 in item 11 (a), reason for Permanently (not in use)			
Select			
Back		Next	

- Click Next to proceed to the Water Distribution tab and fill in the required fields.

Basic Details		Scheme Details		Cost Details	
Status		Water Distribution		Pump Operation	
Command		Irrigation Details			
14. Method used for Water distribution					
2-Open Water Channel (unlined / Kutchra)					
15. Types of lifting device					
1-Submersible pump					
16. Source of energy for lifting device					
2-Diesel					
17. Horse Power of Lifting device(ignore if lifting device is manual/animal driven)(HP - Horse Power)					
20					
Back			Next		

- Click Next to proceed to the Pump Operation tab and fill in the required fields.

Basic Details		Scheme Details		Cost Details	
Status		Water Distribution		Pump Operation	
Command		Irrigation Details			
During Other season					
5					
19. Average hours of pumping per day (ignore, if lifting device is manual/animal)					
During Kharif season					
1					
During Rabi season					
8					
For Perennial crop					
1					
During Other season					
6					
Back			Next		

- Click Next to proceed to the Command tab and fill in the required fields.

Basic Details	Scheme Details	Cost Details
Status	Water Distribution	Pump Operation
Command	Irrigation Details	
<p>20 (a) Whether the scheme is located in the command of Major/Medium Schemes like Canals etc.</p> <p>1-Yes</p>		
<p>20(b) If Scheme is in command area i.e. code 2 in item 20(a),</p> <p>(i) Name of command Area</p>		
<p>(ii) reason for Scheme in Command area:</p> <p>Select</p>		
<p>20(c) Whether the scheme is meant only for recharge of Ground water Yes-1, No-2 (If yes Keep item 21 to item 31 blank)</p> <p>2-No</p>		
<p>21. Culturable Command Area(Ha. - Hectare)</p> <p>20</p>		

- Click Next to proceed to the Irrigation Details tab and fill in the required fields.

Basic Details	Scheme Details	Cost Details
Status	Water Distribution	Pump Operation
Command	Irrigation Details	
<p>SEASON WISE IRRIGATION POTENTIAL CREATED (IPC)- In Ha.</p> <p>22. Kharif</p> <p>5</p>		
<p>23. Rabi</p> <p>5</p>		
<p>24. Perennial</p> <p>5</p>		
<p>25. Other</p> <p>4</p>		
<p>26. Total</p> <p>19.0</p>		
<p>Season wise actual area irrigated during 2023-24(IPU)- In Ha.</p> <p>27. Kharif</p> <p>-</p>		

Season wise actual area irrigated during 2023-24(IPU)- In Ha.

27. Kharif

1

28. Rabi

3

29. Perennial

3

30. Other

2

31. Total

9.0

Note:

(i) If Scheme is out side command area of Major & Medium Scheme then complete IPU is to be reported.

(ii) If Scheme in the command of Major & Medium Scheme then IPU is to be given as supplemented by MI Scheme. Thus the Gross IPU is to be apportioned in the ratio utilised by Major/Medium and MI Scheme.

32(i) Whether the scheme is under utilised(Only for In-use Schemes)

Select

32(ii) If yes i.e. code 1 in item 32(i), reasons for under utilisation of schemes

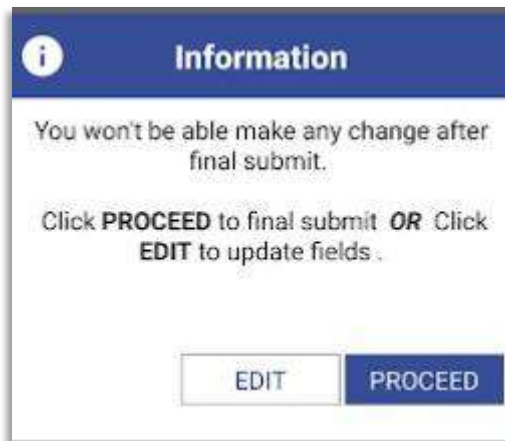
Select

33. Whether the MI Scheme is used for 'Drinking Water' purpose?

1-Yes

Back Submit

- After filling in all details, click Submit to trigger an information pop-up



- Click 'Edit' to update the form, or click 'Proceed' to submit the data."
- Upon clicking the Proceed button, a success message will be displayed



Surface Water Schemes

- Click on the Navigation Icon
- Select Surface water schemes and Basic Details tab will open

Surface Water Scheme

Basic Details | Scheme Details | Cost Details

Status | Water Distribution | Pump Operation

Command | Irrigation Details

I. Identification Particular

State: 25-UTTAR PRADESH

District: 003-BIJNOR

Block/Tehsil: 000001-NAJIBABAD

Village: 000287-KAMALPUR

Date of Enumeration: 03/10/24

II. Specific Information

Search By Type of scheme: Select

1. Serial Number of Scheme

- The fields for State, District, and Block are pre-filled and disabled.
- Select the Village, and the Serial Number of the Scheme will be auto-filled based on the selected village.

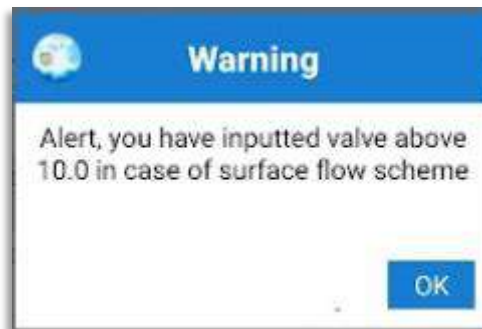
II. Specific Information

Search By Type of scheme: Select

1. Serial Number of Scheme

Sr. No.	Type of Scheme	Ownership	Khasra Number
001	Shallow Tube well	Private	1
002	Shallow Tube well	Private	2
003	Shallow Tube well	Private	3
004	Shallow Tube well	Private	4
005	Shallow Tube well	Private	5

- Tap on any Serial Number with an edit icon to display a warning message.



➤ The following fields will be auto-populated from the first census

- Type of Scheme
- Owner of the Scheme
- Geo Location(Latitude, Longitude)

2. Type of scheme
2-Tube well

3.1 If code 1 in item 2 above, type of Dug well:
Select

3.2 If code 2 in item 2 above, type of Tube well:
1-Shallow Tube well

4. Owner of the scheme(Name in case of individual former)
2-Co-Operative Owned

[Get Geo-Location](#)

Latitude: 28.6020848
Degree Minute Second
28 36 7

Longitude: 77.3815656
Degree Minute Second
77 22 53

Next

- If the Geo Location is not available, click on Get Geo Location
- Click Next to proceed to the Scheme Details tab and fill in the required fields.
- Here following fields will be auto-populated from the first census:-
 - 5(a)- Khasra Number/Plot No/Survey No in which the scheme is located

Basic Details		Scheme Details	Cost Details
Status	Water Distribution	Pump Operation	
Command		Irrigation Details	
5. Khasra Number/Plot No./Survey No. in which the scheme is located			
1			
6(a). Total Holding of owner in Hectares (in case of individual owner only)			
(b). Social Status of Owner(in case of individual owner only)			
Select			
(c). Gender of Owner(in case of individual owner only)			
Select			
7. Year of Commissioning of the Scheme			
4-During 2021-2022			
Back		Next	

- Click Next to proceed to the Cost Details tab and fill in the required fields.
- Here following fields will be auto-populated from the first census:-
 - 8(a)- Cost of construction of the scheme

Basic Details	Scheme Details	Cost Details
Status	Water Distribution	Pump Operation
Command		Irrigation Details
<p>(c). Cost of maintenance during (2023-24) (Rs. Lakh)</p> <p>1</p>		
<p>9.(a) Major source of finance(upto 2)(For individual owner only)</p> <p>Select</p> <p>Select</p>		
<p>9(b). If any subsidy/assistance provided by Govt./ PSU ,amount for (For All Schemes)</p> <p>(i) Construction of Scheme/digging(Rs.)</p> <p>2000</p> <p>(ii) Cost of machinery/distribution device(Rs.)</p> <p>3000</p>		
Back		Next

- Click Next to proceed to the Status tab and fill in the required fields.

Basic Details	Scheme Details	Cost Details
Status	Water Distribution	Pump Operation
Command		Irrigation Details
<p>10(a). Current Status of the Scheme</p> <p>2-Temporarily Not in use</p>		
<p>(b) No. of Years not in use</p> <p>2</p>		
<p>11. If code 2 in item 10 (a) reason for Temporarily (not in use)</p> <p>2-Mechanical break down</p>		
<p>12. If code 3 in item 10 (a) reason for Permanently (not in use)</p> <p>Select</p>		
Back		Next

- Click Next to proceed to the Water Distribution tab and fill in the required fields.

Basic Details		Scheme Details		Cost Details	
Status		Water Distribution		Pump Operation	
Command		Irrigation Details			
13. Method used for water distribution;					
2-Open Water Channel (unlined / Kutcha) ▼					
14. Types of lifting device (Only for Surface lift Scheme)					
Select ▼					
15. Source of energy :(Only for Surface lift Scheme)					
Select ▼					
16. Horse Power of Lifting device(ignore if lifting device is manual/animal)					
<div>Back</div> <div>Next</div>					

- Click Next to proceed to the Pump Operation tab and fill in the required fields.

Basic Details		Scheme Details		Cost Details	
Status		Water Distribution		Pump Operation	
Command		Irrigation Details			
During Other season					
18. Average hours of pumping per day (ignore, if lifting device is manual/animal) - In Hrs.					
During Kharif season					
During Rabi season					
For Perennial crop					
During Other season					
<div>Back</div> <div>Next</div>					

- Click Next to proceed to the Command tab and fill in the required fields.

Basic Details	Scheme Details	Cost Details
Status	Water Distribution	Pump Operation
Command		Irrigation Details
1-Yes		
19(b) If Scheme is in command area i.e. If Yes in item 19(a)		
(i) Name of command Area		
test		
(ii) reason for Scheme in Command area:		
1-Water not available up to field from major/medium scheme		
19(c) Whether the scheme is meant only for recharge of Ground water Yes-1, No-2 (If yes Keep item 20 to item 30 blank)		
2-No		
20. Culturable Command Area- (In Ha.)		
200		
<div>Back</div> <div>Next</div>		

- Click Next to proceed to the Irrigation Details tab and fill in the required fields.

Basic Details	Scheme Details	Cost Details
Status	Water Distribution	Pump Operation
Command		Irrigation Details
SEASON WISE IRRIGATION POTENTIAL CREATED (IPC)- In Ha.		
21. Kharif		
20		
22. Rabi		
30		
23. Perennial		
40		
24. Other		
50		
25. Total		
140.0		

Season wise actual area irrigated during 2023-24(IPU)- In Ha.

26. Kharif

6

27. Rabi

7

28. Perennial

8

29. Other

9

30. Total

30.0

34. Specific information relating to Water body

(a) 21 Digit SI no. as per Water body schedule in which the scheme is functioning

Select ▼

(b) Total number of schemes in the village in above water body.

3

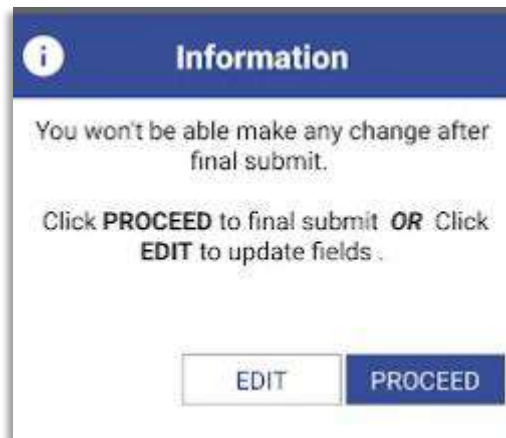
(c) SI. number of this scheme within village in the water body.

35. Whether the MI Scheme is used for 'Drinking Water' purpose?

1-Yes ▼

Back Submit

- After filling in all details, click Submit to trigger an information pop-up



- Click 'Edit' to update the form, or click 'Proceed' to submit the data."
- Upon clicking the Proceed button, a success message will be displayed



Water Body Schedules

- Click on the Navigation Icon
- Select Water Body Scheule
- For rural areas, **State**, **District**, and **Block** fields will be prefilled and disabled. For urban areas, the **State**, **District**, and **Town** fields will be prefilled and disabled.

WB Info 1 WB Info 2 WB Info 3

WB Info 4 WB Info 5

☒ Rural ☐ Urban

1. Identification Particulars (Standard Codes to be used)

State
26-UTTAR PRADESH

District
003-BIJNOR

Block/Tehsil
000001-NAJIBABAD

Village
Select

Serial Number of Water body Within Village/ Town +

View Water Body Serial Number On Map

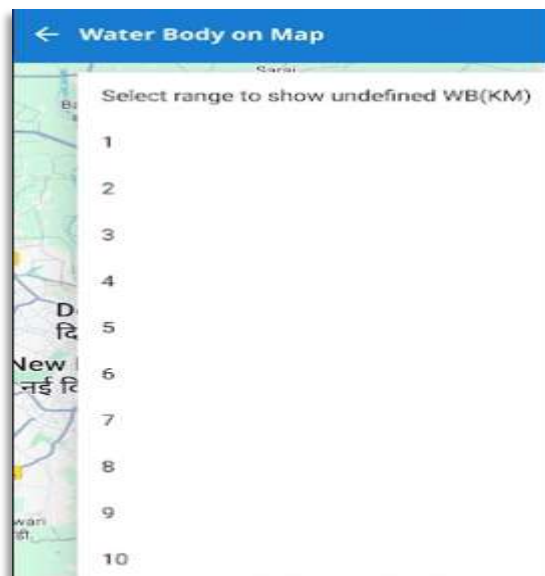
Date of Enumeration
03/10/24

- Select the **Village**(for Rural areas) or **Ward** (For Urban areas). The location(Latitude, Longitude) will be updated automatically.
- Click on View Water Body Serial Number on Map to capture the Serial No of water body
- The map will appear, showing your current location.

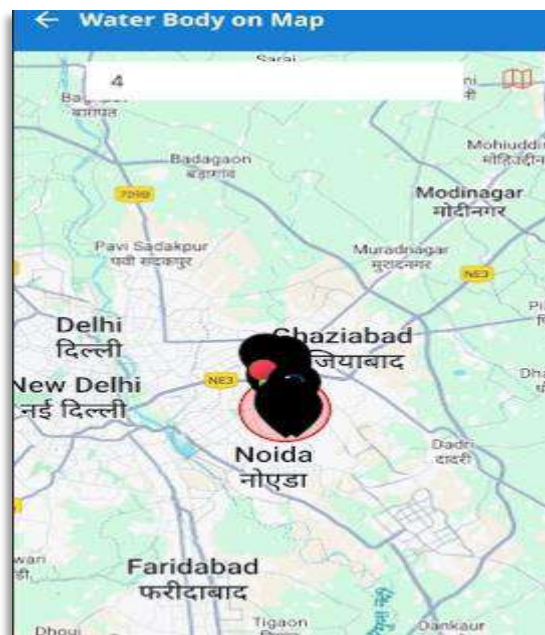


Viewing Water Bodies with undefined villages:

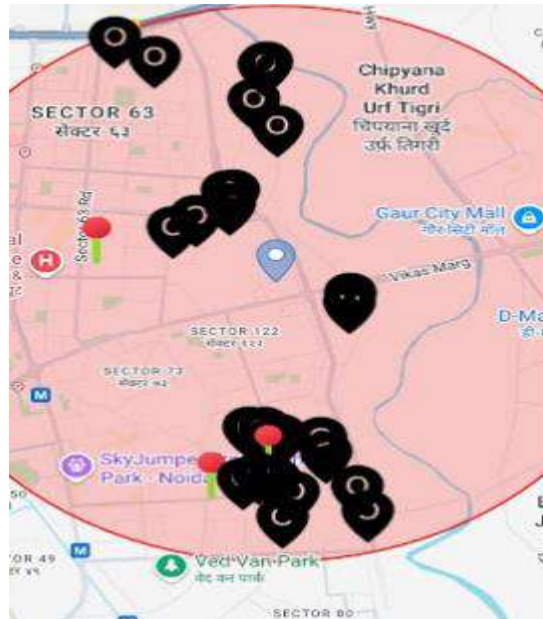
- Click on “Select range to show undefined WB(KM)” link



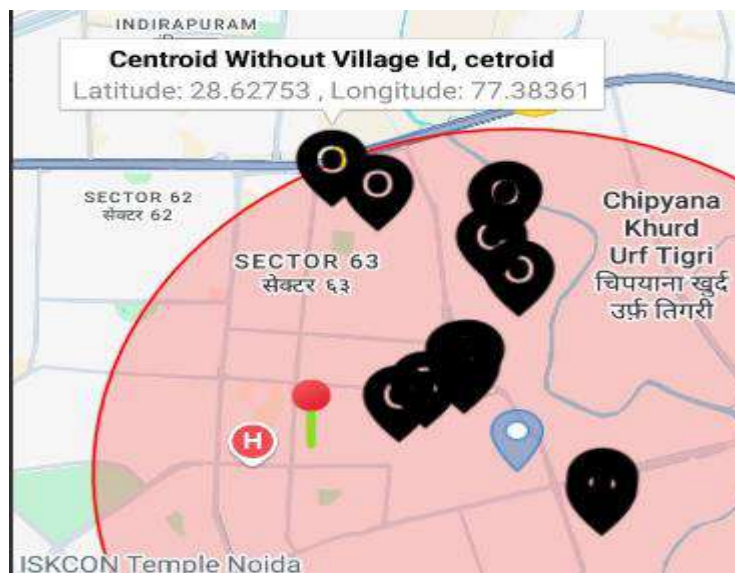
- Select any range



- Zoom in the screen to view the water bodies



- Select the water body to view the details



Capturing the Serial No :-

- Zoom out on the map until you reach the desired location.



- Zoom-In to view all the water bodies/polygon area/centroid/point of the selected village/Ward



- Tap on the point to view water body details.

Sr. No.	Name of WB	Type of WB	Status
023	In the field of Dawai Bala	Ponds	pending

Location Type: 1wbc
Latitude: 13.104166666666666666666667
Longitude: 92.950555555555555555555556

Enter Remark **Fill WaterBody**

- If status is pending , click on **“Fill WaterBody”** button. Then Tap on **“Enter Remarks”** to update the current status (*i.e Exist/ Not Exists*) of the water body.
- After clicking on **“Fill Water Body”** button, you will be redirected to the **Water Body Schedule** screen, where the serial number will be automatically fetched from the map (As per first water body census).

SPRINT/PT/2013-14/2014-15

Village: 000026-KALIGHAT

Serial Number of Water body Within Village/ Town: +

View Water Body Serial Number On Map

Date of Enumeration: 25/09/24

Unique Identification key for Water body (If urban give code for town and ward)

R/L	State	Dist.	Taluk/block	Village	St. No. of water body within Village
1	29	1325	1001026	000026	023

II. Specific Information

1.1 (a) Name of Water body (if any)/ With specific permanent land marks:

NOTE:: -To Add New Water Body Schedule -> Click On +(Plus) icon to proceed

- Fill the required fields
- Click Next to proceed to the WB Info 2 tab and fill in the required fields.

WB Info 1 | **WB Info 2** | WB Info 3

WB Info 4 | WB Info 5

4. Whether located in DPAP-1 /Tribal-2/DDP-3/

9-Others

5. Ownership: State WRD/State

3-Panchayat

6(1) Whether Water body is in use:

1-Yes

6(2) If in use (upto three codes in order of preferences)i.e. code 1 in item 6(1) above, uses:

7-Ground water recharge

7-Ground water recharge

6(3) If water body is (in use) for Irrigation i.e. code 1 in item 6(2) :

CCA of water body

IPC of water body:

- Click Next to proceed to the WB Info 3 tab and fill in the required fields

WB Info 1	WB Info 2	WB Info 3
WB Info 4	WB Info 5	
<p>8. Year of Construction and original cost (only for man made);</p> <p>YYYY</p> <p>Original Cost Rs.</p>		
<p>9. Year of renovation / repair (for all water bodies)</p> <p>2009</p> <p>Cost of last repair</p> <p>20000</p>		
<p>10. Whether, Water body is under repair/ renovation/restoration;</p> <p>1-Yes</p>		
<p>10.(1) If yes: Scheme under which revival is being done;</p> <p>Test</p>		

WB Info 1	WB Info 2	WB Info 3
WB Info 4	WB Info 5	
<p>2000</p>		
<p>10(6) Irrigation potential revived (in Ha.)</p> <p>500</p>		
<p>11(1) Whether the Water Body is associated with central scheme?</p> <p>1-Yes</p>		
<p>11(2) If Yes, Name the associated central scheme.</p> <p>1-Jal Jeevan Mission</p>		
<p>12(1) Does Water Body contains water throughout the year?</p> <p>1-Yes</p>		
<p>12(2) If No, then, the number of months Water Body contains the Water?</p> <p>Select</p>		
<p>Back</p>		<p>Next</p>

- Click Next to proceed to the WB Info 4 tab and fill in the required fields

WB Info 1	WB Info 2	WB Info 3	WB Info 4	WB Info 5
13. Water spread area of the water body during reference year(in Ha)				
20				
13(1). Water spread area of the water body during current year(in Ha)				
10				
13(2). Minimum Water spread area(in Ha)				
5				
13(3). Maximum Water spread area(in Ha)				
50				
14. Max. depth of water body when fully filled up: (In Meters)				
40				
15.Storage Capacity of water body in thousand cu. Meter				
Original				
100				

WB Info 4	WB Info 5
15.Storage Capacity of water body in thousand cu. Meter	
Original	
100	
Present	
80	
16. Filled up Storage (During 2023-24)	
2-Upto 3/4	
17. Whether silt is present in the water body which is reducing its capacity?	
1-Yes	
18.Status of filling up of storage space (based on around 50% filling up of storage during last 5 year)	
2-Usually filled up	
Back	Next

- Click Next to proceed to the WB Info 5 tab and fill in the required fields

WB Info 1	WB Info 2	WB Info 3
WB Info 4	WB Info 5	
19(1) Number of City/Town/Villages benefited, Town/Cities		
6		
Villages:		
2		
19(2) Number of people directly benefited by Water body:		
2		
20 (1) Whether Water Users Association (WUA) is formed(Except Individual ownership):		
1-Yes		
20(2) If Yes i.e. code 1 in item 17(1):		
(a) Extent of area covered by WUA:		
1-Full Area Covered		
(b) Number of Water Users Association(WUA) formed for this Water Body:		

WB Info 4	WB Info 5
Irrigation Plan(DIP)/State Irrigation Plan(SIP)	
1-Yes	
22(1) Whether any area of Water Body is encroached:	
1-Yes	
22(2) If yes i.e. code 1 in item 22(1), can extent of encroachment be assessed :	
2-No	
22(3) If yes i.e. code 1 in item 22(2) : Approximate percentage(%) of area encroached	
%	
23. Whether water body is standalone or connected	
1-Standalone	
23(1) If Connected, Number of Connected Water Bodies	

WB Info 1	WB Info 2	WB Info 3
WB Info 4	WB Info 5	

24. Map with SAC data

111669/78.34132397400003/29.
548225330000037

 Accuracy 4 meters



Note:- In photograph, latitude and longitude will also get captured.

- After filling in all details, click Submit to trigger an information pop-up


Information

You won't be able make any change after final submit.

Click **PROCEED** to final submit **OR** Click **EDIT** to update fields .

- Click 'Edit' to update the form, or click 'Proceed' to submit the data."
- Upon clicking the Proceed button, a success message will be displayed



CHAPTER SIX:

GENERAL INSTRUCTIONS FOR FILLING VILLAGE SCHEDULE

(7th MINOR IRRIGATION CENSUS
&
2nd CENSUS OF WATER BODIES)

6.0 VILLAGE SCHEDULE

This is to be filled up for each village in the district. Some **general information about the village is to be written**. The items are self-explanatory.

6.1 IDENTIFICATION PARTICULARS

The name of the State/ District/ Block (Tehsil)/ Village will be recorded with respective codes of Local Government Directory (LGD). Date of enumeration has to be auto- recorded in the format dd/mm/yy.

6.2 SPECIFIC INFORMATION

- 6.2.1 **Item no. 1:** If the village is classified as tribal village depending upon the proportion of tribal population living in the village, as per definition in the state, it will be treated as tribal and code 1 will be given, otherwise code 2 will be given.
- 6.2.2 **Item no. 2:**(a) If the village is covered by any major or medium irrigation scheme, code 1 will be entered otherwise code 2 will be given.(b) If answer is yes in item 2 (a), the name(s) of the major or medium schemes providing irrigation in the village area will be noted.
- 6.2.3 **Item no. 3: Geographical area:** Total Geographical area of the village including populated, agricultural and non-agricultural area will be noted as per village records in Ha in whole number.
- 6.2.4 **Item no. 4: Cultivable Area:** Total area of the village which is fit for cultivation in any season will be included in cultivable area in Ha in whole number. It should be less than or at most equal to the geographical area of the village as recorded in item no-3. In case, there is significant decrease in cultivable area, reasons may be given in remarks.
- 6.2.5 **Item no. 5: Net Sown Area:** Total area in the village which has been cultivated and any crop is sown in any one season of the year will be taken as net sown area in Ha in

full number and the same area will not be counted again if it is sown for more than one crop in different seasons. Any area will be counted only once. Net sown area should be less than or equal to cultivable area.

- 6.2.6 **Item no. 6: Gross area irrigated (By all sources):** Gross area irrigated will be noted season-wise for different crop seasons. It will be noted in Ha. Any area which is sown and irrigated with a crop in a particular season will be counted for that season and similar procedure will be followed for all crops and all seasons counting the area irrigated under more than one crop during the same year as many times as the number of crops grown and irrigated. Gross area irrigated in any season should not be more than net area sown.
- 6.2.7 **Item no. 7: Net Irrigated Area:** Net Irrigated Area will be noted as area cultivated and irrigated at least once in the reference year in any one season or for any one crop. It will be noted in Ha. Any area cultivated and irrigated for more than one crop will be recorded only once.
- 6.2.8 **Item no. 8: Average Ground water level (In Meters):** Ground water level in the village for Pre Monsoon and Post Monsoon will separately be recorded in meters for the reference year 2023-24. Average ground water level in the village should be taken as observed prior to on-set of monsoon before the agricultural year 2023-24 and after the monsoon.
- 6.2.9 **Item no. 9: Whether Water Users association (WUA) exists in the village:** If there is any association of cultivators for taking decisions on matters related to utilization of water either for major/ medium irrigation projects or for public sector minor irrigation scheme(s) in the village, it will be considered in this item and answer will be given as code 1 if yes, and code 2 if no. Efforts should be made to get the information. However, if the information is not available despite best efforts, then code 3 i.e. not known may be recorded.
- 6.2.10 **Item no. 10: Summary of Number of water bodies as per all water body schedules filled in the village:** This should be recorded after filling up detailed schedule of water bodies for entire village. The number of water bodies should be

separately reported by type. The total in col. 7 of item 10 i.e. total number of water bodies should tally with the number of water body schedules filled for ensuring completeness at the data processing stage.

- 6.2.11 **Item no. 11: Summary of M.I. Schemes in the village:** This should be recorded after filling up detailed schedules of each Minor Irrigation Scheme in the village. The total number of schemes enumerated separately for ground water and surface water and their total will be recorded in the space provided in the schedule for ensuring completeness at the data processing stage.

Name of Enumerator, designation, mobile number and remarks (if any) should be written in CAPITAL letters clearly and signature should be with date.

Name of Supervisor, designation, mobile number and remarks (if any) should be written in CAPITAL letters clearly and signature should be with date.

CHAPTER SEVEN:

**GENERAL INSTRUCTIONS
FOR FILLING
URBAN SCHEDULE**

(2nd CENSUS OF WATER BODIES)

7.0 URBAN SCHEDULE

This is to be filled up for each Town in the district. Some general information about the town is to be written. The items are self-explanatory.

7.1 IDENTIFICATION PARTICULARS

The name of the State/ District/ Town will be recorded with respective codes as updated by LGD. The name and codes given in local government directory for the State has to be used. Date of enumeration has to be auto-recorded in the format dd/mm/yy.

7.2 SPECIFIC INFORMATION

7.2.1 **Item No.1: Total number of wards in the town:** Total number of wards in the town under survey has to be recorded in this item.

7.2.2 **Item No. 2: Ward wise and type wise number of water bodies as per water body schedules filled:** This information should be recorded after canvassing all the water body schedules in the town. The number of various types of water bodies has to be tabulated ward wise. Total number of water bodies should tally with the number of water body schedules canvassed, for ensuring completeness at data processing stage.

Name of Enumerator, designation, mobile number and remarks (if any) should be clearly mentioned in the mobile application. This information should be thoroughly checked before submitting the schedule.

Name of Supervisor, designation, mobile number and remarks (if any) should be clearly mentioned in the mobile application. This information should be thoroughly checked before submitting the schedule.

CHAPTER EIGHT:

**GENERAL INSTRUCTIONS
FOR FILLING
GROUND WATER SCHEDULE
(7th MINOR IRRIGATION CENSUS)**

8.0 GROUND WATER SCHEDULES

All ground water schemes viz., Dug wells, Shallow Tube Wells, Medium Tube Wells and Deep Tube Wells in the village which are mainly for irrigation purpose and are complete, will be listed and enumerated. Ground water schemes which are used for irrigation purpose or are meant only for recharge of ground water will be included for filling ground water scheme schedule. In such schemes which are 'permanently not in use' for irrigation purposes in 2017-18 or before will not be covered in this Census. It may be ensured that no eligible scheme is missed. It may be noted that if the command area of a scheme spreads in more than one village, in that case also it will be treated as one scheme only in the village where it is located. Separate schedule will be filled for each ground water scheme.

Schedules are to be filled up for schemes commissioned during or before 2023-24 only.

8.1 IDENTIFICATION PARTICULARS:

The name of the State/ District/ Block (Tehsil)/ Village will be recorded with respective codes of Local Government Directory (LGD). Date of enumeration has to be auto recorded in the format dd/mm/yy.

8.2 SPECIFIC INFORMATION:

- 8.2.1 **Item No 1: Serial No. of the Scheme:** The ground water schemes in a village should be given running serial numbers. This will serve as an identification no. of that particular ground water scheme in that village. While giving serial no. of the scheme, it is to be noted that data collection work has to be started from North-west corner of the concerned village and moving in serpentine way, serial numbers are to be given starting from 0001 separately for ground water and surface water schemes in each village.
- 8.2.2 **Item No. 2: Type of Scheme:** Type of the scheme, whether it is Dug well or Tube well/ borewell, is to be recorded in this item. If it is Dug well code 1 to be given and code 2 will be reported for Tube well/borewell. If in one dug well more than one bore wells

are installed and the irrigated area from different borings is common, it will be treated as one scheme. However, if the irrigated area is different for different borings in a dug well, each boring will be treated as a separate scheme and separate schedules will be filled for each scheme.

8.2.3 Item No 3.1: If code 1 in item 2, type of Dug well: In case there is a dug well in which bore well has been installed, it should be classified as dug-cum-bore well and code 1 to be given in item 3.1. If a well is not dug-cum-bore well then only it should be classified either as Pucca or Kutcha well depending on its walls being masonry or of Kutcha material. No dug-cum-bore well should be classified as Pucca or Kutcha well. The code for Dug well Pucca is 2 and Dug well Kutcha is 3. Any other type of dug well can be classified as code 9.

8.2.4 Item No 3.2: If code 2 in item 2, type of Tube well: The codes are 1 for Shallow Tube well, 2 for Medium Tube well, 3 for Deep Tube well and 4 for Artesian well. In case of Tube wells, those having depth of bore up to 35 meter will be classified as shallow tube wells, while those tube wells having depth of bore in the range 35-70 meters will be classified as medium tube wells. Tube wells having depth of bore more than 70 meters will be included in deep tube wells. Artesian wells are those from which water flows under natural pressure without pumping.

8.2.5 Item No. 4: Owner of the Scheme: Name of the owner should be recorded in case of individual farmer being owner of the scheme and appropriate code should be given.

Govt. Owned	- 1
Cooperative owned	– 2
Panchayat Owned	– 3
Owned by Group of Farmers	– 4
Owned by individual farmer	– 5
Others	– 9.

The owner of the scheme may be farmer /cooperative society/government department / organization / group of farmers. The type of ownership is to be indicated in this item with code. In case of absentee, it may be enquired from the neighbor or from the person who is in possession of the scheme.

8.2.6 Item No.5 (a): Khasra No./ Plot No./ Survey no. in which the scheme is

located:Khasra no./ Plot no./ Survey no./ in which the scheme is installed shall be noted against this item for physical verification etc. which may be needed at a later date.

- 8.2.7 **Item No.5 (b) Location particulars:** Location particulars of the schemes will be given based on permanent land marks, so that it can be uniquely identified. While each MI scheme will be given a number in the village, it will be marked by paint on the body of the scheme which is easily visible. However, location particulars with the help of permanent landmarks giving existence of some unique feature on any side of the scheme, plot where it is located should be mentioned e.g. any tree by name, building, temple, any small structure created or existence of any hill/drain/canal/road in any direction of the scheme.
- 8.2.8 **Item No. 6(a): Total Ownership holding of the Owner (0.000 Ha.):** This item should be filled up in case of individual owner only. Total area owned by the owner in any part of the country is to be mentioned in hectares. The land owned by owner of the scheme in his/ her name only will be mentioned in ha with 3 decimal points against this item. At the time of filling of this schedule if the ownership holding is available in local units it may be noted by pencil as such and later at the time of finalizing the schedule, local units may be converted into ha with the help of calculator and then it should be filled.
- 8.2.9 **Item No.6 (b): Social Status of owner (in case of individual owner only):** Appropriate code for social status, scheduled caste, scheduled tribe, OBC or others as the case may be, will be given in case of individual owner only. Schedule Caste – 1, Schedule Tribe - 2, OBC - 3, Others – 9. The social status as per the central govt. notification may only be used. In some States, some castes have been recognized as special backward classes only within the state for state govt. jobs but not for central govt. purpose, such classifications should not be considered. If a caste is included in SC/ST or OBC for All India, selection then only it should be considered for particular classification.
- 8.2.10 **Item No.6 (c): Gender of Owner (in case of individual owner only):** The code for gender of owner i.e. male (code-1), female (code-2) and transgender (Code- 3) is to be reported in this item.

8.2.11 **Item No.7: Year of Commissioning of the scheme:** Appropriate code for the year of commissioning of the scheme should be mentioned. The schemes which were installed during 2018-19 or before are to be indicated with code number '1'. The codes are:

On or before 2018-19	– 1
During 2019-20	– 2
During 2020-21	– 3
During 2021-22	– 4
During 2022-23	– 5
During 2023-24	– 6

The schemes to be covered in 7th MI census may be properly understood. In ground water schemes, such dug wells commissioned during 2017-18 or before and are **permanently 'not in use' should not be included.**

8.2.12 **Item No. 8: Details of the Scheme:** The depth of Dug well/tube-well/dug-cum-bore well, diameter, depth of bore (In case of Dug-cum bore well), distance from any nearest well/ tubewell will be noted in meters (except for diameter of tube well which will be recorded in mm).

8.2.13 **Item No 9(a): Cost of construction of Scheme (in lakh Rs.):** The cost of construction (excluding the cost of machinery) of the scheme at the time of its installation will be reported in this item. Cost of construction of the scheme should include cost incurred in construction of well/ tube well including cost of drilling, cost of masonry work for lining the channels or construction of water distribution joint, small hut or room covering the well/ tube well including labour cost. In case of tube well, the cost incurred for installing one or more poles for bringing electric cable up to the tube well site should also be included.

8.2.14 **Item No 9(b): Cost of Machinery (in lakh Rs.):** Any cost of machinery for motor/ pump/ water distribution devices like pipe, drip or sprinkler, solar power panel should be included in cost of machinery in this item in lakh Rs. It may include cost incurred on purchasing such equipments over the years.

8.2.15 **Item No 9(c): Cost of maintenance during the year 2023-24 (in lakh Rs.):** It may be noted in lakh Rupees taking into account the repair and maintenance expenses

borne on the schemes during the reference year 2023-24. The nature of replacements and additions to machinery may not be included here.

8.2.16 Item No 10(a): Major Sources of finance (This item should be filled up in case of individual owner only): It is intended to find out two major sources of financing of the scheme which could be through farmers' own savings, bank loan or Government fund. Appropriate codes will be recorded in this item. In case the scheme is financed by two or more sources, the source from which larger amount has been taken is to be recorded in first place and the second important source in the second space. The codes are:

Bank Loan	- 1
Government fund	- 2
Own savings	- 3
Money lender	- 4
Others	- 9

In this item, the source of money for constructing the scheme or purchasing machinery may be considered. In case money is neither taken from government or from bank/ money lenders then either it may be from own savings or from friends and relatives. In case there is interest on loan from friends/relatives, it should be classified as from money lenders. Loan from co-operative societies may be taken as govt. loan and from co-operative banks or Gramin banks/ land development banks, it should be included in bank loan.

8.2.17 Item No 10(b): If any subsidy/ assistance provided by Govt./ PSU: In this item, amount of subsidy received for construction of the MI scheme or for purchase of machinery for installation of scheme or for machinery including water distribution system will be noted in Rupees separately (i) for cost of construction/drilling/digging (ii) for cost of machinery/distribution device etc. If any subsidy or financial assistance is provided for construction of well/ tube well or for machinery it may be noted in this item. In case MGNREGA assistance is provided for construction of well/ tube well or for water channel or under-ground installation of the same, it may be valued and included against this item for the concerned part.

8.2.18 Item No. 11 (a): Current Status of the Scheme: The information whether the scheme

is “in use” at present or “not in use” Temporarily or Permanently will be recorded in codes.

In use	- 1
Temporarily “Not in use”	- 2
Permanently “Not in use”	- 3

As mentioned earlier, the reference year for 7th MI Census is 2023-24 .The wells which are not ‘in use’ during last two years before the reference year i.e. 2021-22 and 2022-23 due to temporary reasons but has also not been abandoned for use are categorized as ‘temporarily not in use’. The remaining schemes i.e. the schemes excluding ‘in use’ and ‘temporary not in use’ may be classified as ‘permanently not in use’.

8.2.19 Item No. 11 (b): Number of years not in use:The period in number of years since ‘not in use’ will be noted against this item. It will be noted for both ‘temporarily not in use’ or ‘permanently not in use’. In case of schemes permanently not in use, such schemes cannot be out of use from or before 2017-18, since those schemes would be out of coverage of 7th MI census.

8.2.20 Item No. 12: Reason code for Temporarily “not in use” Scheme (code-2 in item 11 (a)):Reason should be given in code for the schemes which are temporarily “not in use”. Codes are as under:

Non availability of adequate power/ fuel	- 1
Mechanical breakdown	–2
Less discharge of water	- 3
Non-availability of finance	-4
Lack of maintenance	-5
Any other reason	- 9

8.2.21 Item No. 13: Reason code for permanently “not in use” Scheme (code-3 in item 11(a)):Reason should be given in code for the schemes which are permanently “not in use”. Codes are given below:

Due to salinity	– 1
Dried up	– 2

Destroyed beyond repair	– 3
Due to sea water intrusion	– 4
Due to industrial effluent	-5
Availability of Major/ Medium irrigation project	-6
Due to other reasons	- 9

8.2.22 **Item No 14: Method used for Water distribution:** Farmers are adopting different type of water distribution devices for irrigation. Sprinkler and drip irrigation methods have gained popularity among the farmers besides conventional methods of ground water channel. Appropriate code is to be indicated for the water distribution devices being used by the farmers.

Open Water Channel (lined/ pucca)	- 1
Open Water Channel (unlined/ Kutcha)	- 2
Under Ground pipe	- 3
Surface Pipe	-4
Drip	- 5
Sprinkler	- 6
Others	- 9

8.2.23 **Item No 15: Types of Lifting Device:** The type of devices used for lifting water from the source is to be indicated here by appropriate code. These codes are:

Submersible Pump	- 1
Centrifugal Pump	- 2
Turbine/ Jet Pump	– 3,
Manual/ animal	– 4
Others	– 9

8.2.24 **Item No 16: Source of Energy:** The source of energy used for operating lifting devices for lifting water from the source is to be indicated by appropriate code:

Electric	- 1,
Diesel	– 2,
Wind Mill	– 3,
Solar	– 4,
Manual/ animal	– 5,

8.2.25 Item No17: Horse Power of Lifting devices (ignore, if lifting device is manual/animal): Horse Power of the lifting device used may be reported. In case of manual/ animal driven, this item will be crossed (X).

8.2.26 Item No. 18. Number of days pump operated (ignore, if lifting device is manual/animal): The information is to be given for each season separately as per actual number of days of operation as informed by the farmer. In case of manual/ animal driven, this item will be crossed (X).

8.2.27 Item No. 19. Average Hours of pumping per day: These are to be given for each season separately as per actual average number of hours operated as informed by the farmer. In case of manual/ animal driven, this item will be crossed (X).

8.2.28 Item No. 20(a): whether the scheme is located in the command of Major/ Medium Schemes like Canal etc: Some of the minor irrigation schemes may be located in the command of major/ medium schemes for conjunctive use. Such schemes are also to be enumerated. The appropriate code depending upon their use may be noted in this item as:

No	- 1
Yes	- 2

8.2.29 Item 20(b): If the scheme is in command area i.e. code 2 in item 20(a): Normally, it is expected that there should be less number of MI scheme in the command area of major/ medium schemes as the water may be available for irrigation from Medium or Major Scheme. Despite that if any MI scheme exists in the command area, the reason for the same may be reported. The codes are: Water not available up to field from major/ medium scheme-1, Water available but not adequate for irrigation-2, Water available but not usable for irrigation-3, other reasons-9. The name of command area may be reported in item 20b(i) and the reason code for scheme in the command area may be reported in item 20(b)(ii).

8.2.30 Item 20(c): Whether the scheme is meant only for recharge of Ground water Yes-1, No-2: There may be schemes which are not used for irrigation and merely for augmentation i.e. the scheme is meant only for recharge of Ground water. The same

may be ensured when tube well or dug-well is constructed mainly to remove water only. In such cases, code 1 can be given and item 21 to 31 should be left blank. This type of cases may be very few. Most of cases would be scheme meant for irrigation i.e. having code 2 in item 20 (c).

8.2.31 Item No.21: Culturable Command Area (CCA) (in Ha.):In this column, the area proposed to be irrigated by the scheme during reference period should be indicated in hectare. It is generally the measurement of the field proposed to be irrigated by the scheme at the time of installation. In case the scheme is very old and the old Culturable command area is not feasible, due to change in land use etc., the current maximum Culturable command area of the scheme will be noted. If the CCA is spread over to another village also, the whole CCA for the scheme may be entered for the scheme in the village where it is located.

8.2.32 Item No 22 to Item No 26: Season wise Irrigation Potential Created (IPC): It is intended to find out the gross irrigation potential created from the scheme. It will indicate the area under Kharif, Rabi, perennial crops and other season proposed to be irrigated. The total of item 22 to 25 is to be noted in item 26. The figures under item 22, 23 & 25 should be season wise area proposed to be irrigated by the scheme. The figure under item 24 is for perennial crops. If the scheme has been improved upon by major addition in machinery or water distribution devices added, then revised potential is to be indicated. Item 26 will indicate the gross irrigation potential created. Irrigation potential created will be recorded in Ha up to two places of decimals.

8.2.33 Item No 27 to Item No 31: Season wise actual area irrigated during 2023-24 (IPU):In these columns, the area actually irrigated under kharif, rabi, perennial crops and for other season during the year 2023-24 shall be reported. Item 31 will indicate the gross irrigation potential utilized. Figure in each item from 27 to 31 would normally be less than or equal to the figure in item 22 to 26. Irrigation potential utilised will be recorded in Ha up to two places of decimals.

There may be some minor irrigation schemes which are located in the command area of major/ medium irrigation projects and serve the purpose of supplementary irrigation. For example a Dug well/ Tube well in the command area of Major or Medium Scheme. It will be decided on the basis of actual availability of water from

the Major/ Medium Irrigation project in to the fields under the coverage of the MI scheme concerned. In order to assess the extent of such supplementary irrigation, data is to be recorded under item 27 to 31.

For recording the potential utilized through the scheme which are situated in command area of Major/medium irrigation project, gross irrigated area will be divided in proportion to number of times MI scheme is used to irrigate the field. For example, if the field is irrigated two times by M.I. scheme and three times by major/ medium scheme, then irrigation potential utilized by M.I. scheme will be 2/5 times of the field area.

8.2.34 Item No 32(i): Whether the scheme is underutilized. (Only for In-use Schemes):

For in-use schemes, it has to be ascertained whether it is under-utilized and if Yes, code 1 is to be given otherwise code 2 is to be given. Scheme shall be considered under-utilised if IPU is significantly less than IPC.

If a MI Scheme is in the Command Area of Major/ Medium Scheme and IPU of the Scheme is less than IPC, even then it may not be underutilized as it is providing the necessary supplementary irrigation. It is clarified that for the schemes outside the command area, schemes shall be considered underutilized if the IPU in item 31 is significantly less than IPC in item 26 and scheme situated outside command area i.e code 1 in item 20(a). For schemes within the Command Area, ratio of IPU to IPC will not be the actual deciding factor for underutilization of the scheme. Enumerator has to decide on the actual situation of the scheme in the field. Similarly, for the schemes meant only for recharge of ground water, enumerator has to decide whether scheme is underutilized or not on the basis of actual situation of the scheme in the field, since, IPC and IPU are not relevant in these types of schemes.

8.2.35 Item No. 32(ii): If yes i.e., code 1 in item 32(i): If the scheme is underutilized, reason for the under-utilisation of scheme is to be recorded in terms of codes. The codes are:

Non availability of adequate power/ fuel	- 1
Mechanical break-down	- 2
Less discharge of water	- 3
Non availability of Finance	- 4
Lack of Maintenance	- 5

8.2.36 Item No. 33: Whether the MI Scheme is used for 'Drinking Water' Purpose: If the MI scheme is used for 'drinking water' as observed by the field investigator/enumerator in consultation with knowledgeable people of the village, then 'YES' should be selected; otherwise, 'no' should be selected.

Name of Enumerator, designation, mobile number and remarks (if any) should be clearly mentioned in the mobile application. This information should be thoroughly checked before submitting the schedule.

Name of Supervisor, designation, mobile number and remarks (if any) should be clearly mentioned in the mobile application. This information should be thoroughly checked before submitting the schedule.

CHAPTER NINE:

**GENERAL INSTRUCTIONS
FOR FILLING
SURFACE WATER SCHEDULE
(7th MINOR IRRIGATION CENSUS)**

9.0 SURFACE WATER SCHEDULES

All surface water schemes, namely, surface flow and surface lift schemes in the village which are mainly for irrigation purpose or are meant only for recharge of ground water will be included for filling surface water scheme schedule. All schemes in the village are to be listed and enumerated. It may be ensured that no scheme is left. It may be noted that if the command area of a scheme spreads in more than one village, in that case also it will be treated as one scheme only in the village where it is located. Schedules are to be filled up for schemes commissioned during or before 2023-24 only. However, the schemes which are 'permanently not in use' for irrigation purposes in 2017-18 or before will not be included in the coverage of this Census. Care may be taken not to miss any scheme. Separate schedule will be filled for each surface water scheme.

Schedules are to be filled up for schemes commissioned during or before 2023-24 only.

9.1 IDENTIFICATION PARTICULARS

The name of the State/ District/ Block (Tehsil)/ Village will be recorded with respective codes of Local Government Directory (LGD). Date of enumeration has to be auto-recorded in the format dd/mm/yy

9.2 SPECIFIC INFORMATION

9.2.1 Item No. 1: Serial No. of the Scheme: The surface water schemes in a village should be given running serial numbers. This will serve as an identification no. of that particular surface water scheme in that village. While giving serial no. of the scheme, it is to be noted that data collection work has to be started from North-west corner of the concerned village and moving in serpentine way, serial numbers are to be given starting from 0001 separately for ground water and surface water schemes in each village.

9.2.2 Item No. 2: Type of Scheme: The type of the scheme is to be recorded in terms of code as below:

Surface Flow Scheme -1

Surface Lift Scheme - 2.

Such schemes like ponds or tanks/ reservoirs with capacity of irrigation up to 2000 Ha with water distribution by way of flow through channels up to the fields will be included in surface flow scheme (code 1). Those schemes in which water is being lifted from drain/ rivers or pond/ tanks with the help of pump sets by diesel/ electric power or by manual/ animal driven method will be included in surface lift scheme. Any pond or tank which is not used for irrigation purposes and it is only for fishing/ drinking, such water bodies will not be considered for filling surface water scheme schedule. Such ponds/ tanks/ reservoirs may be within the residential area of the village or near the fringes of the village and sometimes away from the village as well. As such, due care may be taken with regard to such water bodies to know the use of such bodies with the help of knowledgeable persons of the village.

9.2.3 **Item No. 3.1: If code 1 in item 2, nature of Surface Flow Scheme:** If the Scheme is Surface Flow, the nature of scheme code may be recorded. Definition may be referred while recording nature of scheme which is given in Concept and Definition part. The codes are:

Reservoirs	- 1
Tanks/ ponds	-2
Other Storages	-3
Permanent diversion	- 4
Temporary diversion	- 5
Water conservation-cum-ground water recharge schemes / percolation tanks/ check dams etc.	– 6
Spring Channel	- 7
Others	– 9

Code 1 will be given in case of reservoirs which are larger in size and specially constructed for irrigation purposes. Code 2 may be given for ponds/ tanks. A tank is neither very small and nor very large but it may require a ferry or boat to cross it while ponds are small water bodies mostly kutchra in nature and do not require a ferry or boat for crossing from one side to the other. Permanent diversions are those which are channels created to divert water from some surface water bodies for permanently

diverting water for irrigation purposes. Temporary diversions are such diversions which are made for some time by kutchha construction for diverting water from some surface water bodies for irrigation purposes for short duration.

- 9.2.4 **Item No. 3.2: If code 2 in item 2, Nature of Surface Lift Scheme:** If the Scheme is Surface Lift, any one code from the codes given may be recorded.

On River	- 1
On Stream	- 2
on drain/ canal	- 3
On Tanks/ Ponds/ Reservoirs/ check dams	- 4
others	-9

- 9.2.5 **Item No. 4: Owner of the Scheme:** Name should be recorded in case of individual farmer being owner of the scheme and appropriate code should be given. Codes are:

Govt. Owned	- 1
Cooperative owned	- 2
Panchayat Owned	- 3
Owned by Group of Farmers	- 4
Owned by individual farmer	- 5
Others	- 9

The owner of the scheme may be farmer /cooperative society/ government department / organization / group of farmers. The type of ownership is to be indicated in this item with code. In case of absentee, it may be enquired from the neighbor or from the person who is in possession of the scheme.

- 9.2.6 **Item No.5: Khasra No./ Plot No./ Survey No. in which the scheme is located:** Khasra no./ Plot no./ Survey no. in which the scheme is installed shall be noted against this item for physical verification etc. which may be needed at a later date.

- 9.2.7 **Item No. 6(a): Total holding of the Owner (in case of individual owner only):** This item should be filled up in case of individual owner only. The total area owned by the owner in any part of the country is to be recorded in hectares. The land owned by owner of the scheme in his/ her name will be mentioned in ha up to 3 decimal points

against this item. At the time of filling of this schedule, if the ownership holding is available in local units, it may be noted by pencil as such and later at the time of finalizing the schedule, local units may be converted into ha with the help of calculator and then it should be filled.

9.2.8 Item No.6 (b): Social Status of owner (in case of individual owner only):

Appropriate code for social status, scheduled caste, scheduled tribe, OBC or others as the case may be, will be given in case of individual owner only.

Schedule Caste	– 1
Schedule Tribe	- 2
OBC	- 3
Others	– 9

The social status as per the central govt. notification may only be used. In some states, some castes have been recognized as special backward classes only within the state for state govt. jobs but not for central govt. purpose. Such classifications should not be considered. If a caste is included in SC, ST or OBC for All India selection, then only it should be considered for particular classification.

9.2.9 Item No.6 (c): Gender of Owner (in case of individual owner only): The code for gender of owner i.e. male (code-1), female (code-2) and transgender (Code- 3) is to be reported in this item.

9.2.10 Item No.7: Year of Commissioning of the scheme: Appropriate code for the year of commissioning of the scheme should be mentioned. The schemes which were installed during 2018-19 or before are to be indicated with code number '1' The codes are:

On or before 2018-19	– 1
During 2019-20	– 2
During 2020-21	– 3
During 2021-22	– 4
During 2022-23	– 5
During 2023-24	-6

9.2.11 **Item No 8(a): Cost of construction of Scheme (in lakh Rs.):** The cost of construction (excluding the cost of machinery) of the scheme at the time of its installation will be reported in this item. Cost of the construction in case of surface water schemes may include cost of labour for digging the pond/ tank/ other storage or diversion with or without masonry work and it may include cost of land in case land is actually purchased by the owner for constructing water body.

9.2.12 **Item No 8(b): Cost of Machinery (in lakh Rs.):** Any cost of machinery for motor/ pump/ water distribution devices like pipe, drip or sprinkler, solar power panel should be included in the cost of machinery in this item in lakh Rs. It may include cost incurred on purchasing such equipments over the years.

9.2.13 **Item No 8(c): Cost of maintenance during the year 2023-24 (in lakh Rs.):** It may be noted in lakh Rupees taking into account the repair and maintenance expenses borne on the scheme during the reference year 2023-24. The nature of replacements and additions to machinery may not be included here but in the cost of machinery. Maintenance cost will include cost of de-silting of pond/ tank/reservoir and other storage, repair of the boundaries/ channels or lifting device, pipes etc.

9.2.14 **Item No 9(a): Major Sources of finance (up to 2) (This item should be filled up in case of individual owner only):** It is intended to find out two major sources of financing of the scheme which could be through farmers' own savings, bank loan or Government fund. Appropriate codes will be recorded in this item. In case the scheme is financed by two or more sources, the source from which larger amount has been taken is to be recorded in first place and the second important source in the second space. The codes are:

Bank Loan	- 1
Government fund	-2
Own savings	- 3
Money lender	– 4
others	– 9

In this item, the source of money for constructing the scheme or purchasing machinery

may be considered. In case money is neither taken from government or from bank/ money lenders then either it may be from own savings or from friends and relatives. In case there is interest on loan from friends/ relatives, it should be classified as from money lenders. Loan from co-operative societies may be taken as govt. loan and from co-operative banks or Gramin banks/ land development banks; it should be included in bank loan.

9.2.15 Item No 9(b): If any subsidy/ assistance provided by Govt./ PSU: In this item amount of subsidy received for construction of the MI scheme or for purchase of machinery for installation of scheme or for machinery including water distribution system will be noted in Rupees separately (i) for cost of construction/digging, (ii) for cost of machinery/distribution device etc. If any subsidy or financial assistance is provided for construction or for machinery it may be noted in this item. In case MGNREGA assistance is provided for construction, the same may be valued and included against this item for the concerned part.

9.2.16 Item No. 10 (a): Current Status of the Scheme: The information whether the scheme is “in use” at present or “not in use” temporarily or permanently will be recorded in codes.

In use	- 1
Temporarily “Not in use”	– 2
Permanently “Not in use”	– 3

As mentioned earlier, the reference year for 7th MI Census is 2023-24. The scheme, which is not ‘in use’ during last two years before the reference year i.e. 2021-22 and 2022-23 due to temporary reasons but has also not been abandoned for use, is categorized as temporarily ‘not in use’. The remaining schemes i.e. the schemes excluding ‘in use’ and ‘temporary not in use’ may be classified as ‘permanently not in use’.

9.2.17 Item No. 10 (b): Number of years not in use: The period in number of years since ‘not in use’ will be noted against this item. It will be noted for both ‘temporarily not in use’ and ‘permanently not in use’. The schemes which are out of use in 2017-18 or before would be out of coverage of 7th MI Census.

9.2.18 Item No.11: If code 2 in item 10(a), reason for “Temporary not in use” Scheme:

Reason should be given in code for the schemes which are temporarily “not in use”.Codes are as under:

Non availability of adequate power/ fuel	- 1
Mechanical breakdown	- 2
Less discharge of water	- 3
Non availability of finance	- 4
Storage not filled up fully	- 5
Siltation of Canal/ Storage	- 6
Breakdown of channels	-7
Any other reason	- 9

9.2.19 Item No. 12: If code 3 in item 10(a), reason for “Permanently not in use” Scheme:

Reason should be given in code for the schemes which are permanently “not in use”.

Codes are:

Due to salinity	– 1
Dried up	– 2
Destroyed beyond repair	– 3
Due to sea water intrusion	-4
Due to industrial effluents	-5
Availability of Major/Medium Irrigation Project	-6
Due to sinking	- 7
Due to other reason	- 9

9.2.20 Item No 13: Method used for Water distribution: Farmers are adopting different type of water distribution devices for irrigation. Sprinkler and drip irrigation methods have gained popularity among the farmers besides conventional methods of ground water channel. Appropriate code is to be indicated for the water distribution devices being used by the farmers.

Open Water Channel (lined/ pucca)	- 1
Open Water Channel (unlined/ kutchra)	- 2

Under Ground Pipe	- 3
Surface Pipe	-4
Drip	- 5
Sprinkler	- 6
Others	- 9

9.2.21 **Item No 14: Type of Lifting Device (Only for Surface lift scheme):** The type of device used for lifting water from the source is to be indicated here by appropriate code. The codes are:

Submersible Pump	- 1
Centrifugal Pump	- 2
Turbine/Jet pump	– 3
Manual/animal	– 4
others	– 9

9.2.22 **Item No 15: Source of Energy (Only for surface lift scheme):** The source of energy used for operating lifting device for lifting water is to be indicated by appropriate code. Codes are:

Electric	- 1
Diesel	– 2
Wind Mill	– 3
Solar	– 4
Manual/animal	– 5
others	- 9

9.2.23 **Item No16: Horse Power of Lifting device (ignore, if lifting device is manual/animal):** Horse power of lifting device (only for surface lift scheme) is to be recorded. In case of manual/animal driven, this item will be crossed (X).

9.2.24 **Item No. 17: Number of days pump operated (ignore, if lifting device is manual/animal):** These are to be given for each season separately as per actual number of days of operation as informed by the farmer.

9.2.25 **Item No. 18: Average Hours of pumping per day:** These are to be given for each season separately as per actual average number of hours operated as informed by the farmer.

9.2.26 **Item No. 19(a): Whether the scheme is located in the command of Major and Medium Schemes like Canal etc.:** Some of the minor irrigation schemes may be located in the command of major/ medium schemes for conjunctive use. Such schemes are also to be enumerated. The appropriate code depending upon their use may be noted in this item as:

No -1

Yes - 2

9.2.27 **Item 19(b):If the scheme is in command area i.e. code 2 in item 19(a):** Normally, it is expected that there should be less number of MI scheme in the command area of major/ medium schemes as the water may be available for irrigation from Medium or Major Scheme. Despite that if any MI scheme exists in the command area, the reason for the same may be reported. The codes are: Water not available up to field from major/medium scheme-1, Water available but not adequate for irrigation-2, Water available but no useable for irrigation-3, other reasons-9. The name of command area may be reported in item 19b(i) and the reason code for scheme in the command area may be reported in item 19(b)(ii).

9.2.28 **Item 19(c): Whether the scheme is meant only for recharge of Ground water:** Yes-1, No-2: There may be schemes which are not used for irrigation and merely for augmentation i.e. the scheme is meant only for recharge of Ground water. In such cases, code 1 can be given and item 20 to 30 should be left blank. This type of cases may be very few. Most of cases would be scheme meant for irrigation i.e. having code 2 in item 19 (c).

9.2.29 **Item No.20: Culturable Command Area (CCA) (in Ha.):** In this column, the area proposed to be irrigated by the scheme during reference period should be indicated in hectare. It is generally the measurement of the field proposed to be irrigated by the

scheme at the time of installation. In case the scheme is very old and the old culturable command area is not feasible, due to change in land use etc., the current maximum culturable command area of the scheme will be noted. If the CCA is spread over to another village also, the whole CCA for the scheme may be entered in the village where it is located.

9.2.30 Item No 21 to Item No 25: Season wise Irrigation Potential Created (IPC): It is intended to find out the gross irrigation potential created from the scheme. It will indicate the area under Kharif, Rabi, perennial crops and other seasonal crops proposed to be irrigated. The total of item 21 to 24 is to be noted in item 25. The figures under item 21, 22 & 24 should be season wise area proposed to be irrigated by the scheme. The figure under item 23 is for perennial crops. If the scheme has been improved upon then revised potential is to be indicated. Item 25 will indicate the gross irrigation potential created. Irrigation potential will be recorded up to two places of decimals.

9.2.31 Item No 26 to Item No 30: Season wise actual area irrigated during 2023-24 (IPU): In these columns, the area actually irrigated under kharif, rabi, perennial crops and other seasonal crops during the year 2023-24 shall be reported. Item 30 will indicate the gross irrigation potential utilized. Figure in item 30 would normally be less than or equal to the figure in item 25.

There may be some minor irrigation schemes which are located in the command area of major/ medium irrigation projects and serve the purpose of supplementary irrigation. For example, a lift scheme on Tank/ Pond/ Drain may be in the command area of Major or Medium Scheme. In order to assess the extent of such supplementary irrigation, data is to be recorded in item 26 to 30.

For recording the potential utilized through the scheme which are situated in command area of Major/medium irrigation project in such cases, gross irrigated area will be divided in proportion to number of times MI scheme is used to irrigate the field. For example, if the field is irrigated two times by M.I. scheme and three times by major / medium scheme, then irrigation potential utilized by M.I. scheme will be $\frac{2}{5}$ times of the field area.

9.2.32 Item No 31(i): Whether the scheme is underutilized (Only for In-use Schemes):

For in-use schemes, it has to be ascertained whether it is under-utilised and if Yes, code 1 is to be given otherwise code 2 is to be given. Scheme shall be considered under-utilised if the IPU is significantly less than IPC.

If a MI Scheme is in the Command Area of Major/ Medium Scheme and IPU of the Scheme is less **than IPC, even then it may not be underutilized** as it is providing the necessary supplementary irrigation. It is clarified that for the schemes outside the command area, schemes shall be considered underutilized if the IPU in item 30 is significantly less than IPC in item 25 and scheme is outside the command area i.e. code 1 in Item 19 (a). Further, for schemes within the Command Area, ratio of IPU to IPC will not be the actual deciding factor for underutilization of the scheme. Enumerator has to decide on the actual situation of the scheme in the field. Similarly, for the schemes meant only for recharge of ground water, enumerator has to decide whether scheme is underutilized or not on the basis of actual situation of the scheme in the field, since, IPC and IPU are not relevant in these types of schemes.

9.2.33 Item 31(ii): If yes, i.e. code 1 in item 31(i), reasons for under utilisation of scheme:

If Scheme is underutilized, reason for under-utilisation of the scheme is to be mentioned in terms of codes. The codes are:

Non availability of adequate power	– 1
Mechanical break-down	– 2
Less discharge of water	– 3
Storage not fully filled up	-4
Siltation of Canal/ Storage	-5
Break down of Channels	-6
Any other reason	- 9

9.2.34 Item No. 32: Number of villages covered by the scheme: The number of villages covered by the scheme will be noted against this item. Even if a scheme is used for irrigation in more than one village, its particulars will be included in the schedule under the village where scheme is located and its entire irrigation potential created or irrigation potential used will be covered in one schedule in the village where that scheme is located.

9.2.35 **Item No. 33: Specific Features of Reservoirs, Tanks etc.:** It is intended to collect some specific information regarding the surface water scheme used for storing water. Information regarding storage in items 33(a) to 33(c) have to be filled only if information in item 3.1 is either code 1,2, 3 or in Item 3.2, it is 4. It may be noted that if there are more than one surface lift schemes in a Pond/ Tank /Reservoir/Other storage, then item 33(a) to item 33(c) has to be recorded in the schedule of 1st surface lift scheme only on that Pond/ Tank /Reservoir/Other storage. In other surface lift scheme schedules on same Pond/ Tank /Reservoir/other storage, items 33(a) to item 33(c) will be left blank to avoid duplication of data.

- a) **Designed Storage (in cubic meters):** Designed storage of the tank/ pond/ reservoir undersurvey may be obtained with the help of surface area and the average depth or from the records, if available. The designed capacity of the reservoir may be available in records as these are generally owned by public sector, i.e. owned by cooperatives/ govt. department and information may be taken from the records. In case of ponds/ tanks owned by individual farmers, its approximate volume in terms of cubic meters may be estimated after conversion from local units as obtained from the owners.
- b) **Filled up Storage (during 2023-24):** The information may be recorded in codes:

Full	- 1
up to 3/4	- 2
up to 1/2	- 3
up to 1/4	- 4
Nil/ Negligible filled up	- 5

The Code will be entered depending upon the extent of filling up of storage during reference period.

- c) **Status of filling up of storage:** The appropriate code will be decided on the basis of 50% filling up of storage in last 5 years. The codes are

Filled up every year	- 1
Usually filled up	- 2
Rarely filled up	- 3
Never filled up	- 4

9.2.36 Item No. 34: Specific information relating to Water Body:

- a) **21 Digit water body serial number as per water body schedule:** If the surface water scheme, for which MI schedule is being filled up, is on a water body, then 21 digit water body code given in the water body schedule will be auto-recorded in this item also as in the Census of Water body.
- b) **Total number of schemes in the village in above water body:** Total number of schemes functioning from the water body (within village) has to be reported in item 34(b).
- c) **Serial number of this scheme within the village in the water body:** This is serial number of the scheme on the water body with Unique ID reported in item 34(a). Last serial number reported in col. 34 (c) will be equal to total number of schemes reported in the item 34(b).

9.2.37 Item No. 35 Whether the MI Scheme is used for 'Drinking Water' purpose?: If the MI scheme is used in providing 'drinking water' then 'yes' should be selected otherwise 'no' should be selected.

Name of Enumerator, designation, mobile number and remarks (if any) should be clearly mentioned in the mobile application. This information should be thoroughly checked before submitting the schedule.

Name of Supervisor, designation, mobile number and remarks (if any) should be clearly mentioned in the mobile application. This information should be thoroughly checked before submitting the schedule.

CHAPTER TEN:

**GENERAL INSTRUCTIONS
FOR FILLING
2nd CENSUS OF WATER BODIES
SCHEDULE**

10.0 2nd CENSUS OF WATER BODIES

All Water bodies, as explained in definition of Water bodies, are to be covered in this Census irrespective of their uses, whether for irrigation or other purposes (e.g. industrial, pisciculture, domestic/ drinking, recreation, religious, ground water recharge etc.). The Water Body schedule is to be filled in both Rural as well as Urban areas. All water bodies in the villages as well as towns are to be listed and enumerated irrespective of their mention in the administrative records. It has to be ensured that no water body is left out. If any water body spreads in more than one village, it will be treated as one water body and only one schedule has to be canvassed for it.

10.1 IDENTIFICATION PARTICULARS

If the water body is in rural area, then code 1 may be reported, otherwise code 2 for urban may be given.

The name of the State/ District/ Block (Tehsil)/ Village or State/District/Town/Ward whatever applicable will be recorded using LGD codes.

Since Water body Schedule contain information of Rural or Urban, it may be ensured that if Water Body is in Rural area, it has information of Tehsil and Village code and if Water body is in Urban area the information relating to Urban i.e. Name of Town and their code with Ward number is reported in relevant item.

These Water Body information are to be compiled in Village Schedule or Urban Schedule by type of water body by Rural/Urban bifurcation. It may be ensured that the water body is to be reported either in Village Schedule or in Urban Schedule as per their area.

- 10.1.1 **Serial number of the Water body:** The water bodies in a village or town should be given running serial numbers. This will serve as an identification no. of that particular water body in that village. While giving serial no. of the water body, it is to be noted that data collection work has to be started from North-west corner of the concerned village and moving in serpentine way, serial numbers are to be given starting from 001. The serial number has to be given starting from 001 separately for water bodies in each village or town.

10.1.2 **Date of enumeration:** Date of enumeration has to be auto recorded in the format dd/mm/yy

10.1.3 **Unique Identification key for water body:** This has been kept to have the unique code for identification of water body. 21 Digit code starting from rural/ Urban to serial number of the water body is to be given which will be combination of code for rural/ urban, State, District, Tehsil/ town/ block, village/ ward and its serial number. It may be noted that for urban area, code of town and their ward number is to be reported. For rural areas, the Block/Tehsil code and Village code is to be reported. No box should be left blank. Leading zeroes may be put. For example, if the Tehsil or block code is only four digits, then leading two zeroes to be added to make it six-digit code.

10.2 SPECIFIC INFORMATION

10.2.1 **Item No. 1.1(a): Name of the Water body, if any, with specific permanent land marks:** If there is any name of the water body, the same may be written, otherwise, permanent land mark nearby water body may be written for easy identification of water body.

10.2.2 **Item No. 1.1(b): Name of Basin & Sub-basin in which water body is situated:** The name of Basin and Sub-basin in which water body is situated may be recorded in this item. The code, if available, may also be reported in the boxes provided in the schedule.

10.2.3 **Item No. 1.2(a): Type of Water body:** The type of the water body is to be recorded in this item in terms of code. The codes are:

Pond	-1,
Tank	-2,
Lake	-3,
Reservoir	-4,
Water Conservation Scheme/percolation tank/check dam	-5,
Others	-9.

Code 1 will be given in case of Ponds which are smallest in size. Code 2 may be given for tanks. A tank is neither very small nor very large but it may require a ferry or boat

to cross it while ponds are small water bodies mostly kutchha in nature and do not require a ferry or boat for crossing from one side to the other. The lake may be little bigger than tank. The concept and definition may be looked in before assigning any code.

10.2.4 **Item No. 1.2(b):** If code in item 1.2(a) is 9 i.e. ‘others’, then the nature of storage may clearly be specified here.

10.2.5 **Item No. 1.3 Khasra No./ Plot No./ Survey No. in which the water body is located:** Khasra no./ Plot no./ Survey number, in which the water body is located, shall be noted against this item for physical verification etc. which may be needed at a later date. If the water body is spread in more than one village or town, khasra number/ plot number/ survey number of that village or town will be recorded in which maximum area of the water body exists.

10.2.6 **Item No. 2 and 3: Latitude and Longitude (In degree, minutes, seconds):** The six digit latitude and longitude of the water body has to be captured by the mobile and has to be recorded in these items. The latitude and longitude of the water body may be preferably taken at its North West corner.

10.2.7 **Item No. 4: Whether located in DPAP/ Tribal/ DDP/ Flood prone/ Naxal affected area:** Appropriate code as per the location of water body may be given.

Code 1 is for Drought Prone Area Programme (DPAP)-1. The basic objective of the DPAP programme is to minimize the adverse effects of drought on production of crops and livestock and productivity of land, water and human resources ultimately leading to drought proofing of the affected areas. The programme also aims to promote overall economic development and improving the socio-economic conditions of the resource poor and disadvantaged sections inhabiting the programme areas.

Code 2 is for Tribal areadepending upon the proportion of tribal population living in the area, as per definition in the state.

Code 3 is for Desert Development Programme (DDP). DDP was started both in hot desert areas of Rajasthan, Gujarat and Haryana and the cold deserts of Jammu & Kashmir and Himachal Pradesh in 1977-78. From 1995-96, the coverage has been extended to a few more districts in Andhra Pradesh and Karnataka.

Code 4 is to be given for flood prone area. The main flood prone areas are:

Ganga Basin: The Ganga Basin gets flooded mostly in the northern part by its northern tributaries. The badly affected states of the Ganga basin are West Bengal, Bihar and Uttar Pradesh. Besides the Ganga, rivers like Sarada, Rapti, Gandak and Ghagra cause flood in eastern part of Uttar Pradesh. The Yamuna is famous for flooding Haryana and Delhi. Bihar experiences massive dangerous flood every year. River Burhi, Bagmati, Gandak, Kamla along with many small rivers contribute to that. In West Bengal, rivers like Mahananda, Bhagirathi, Damodar, Ajay etc. cause floods because of tidal effects and insufficient river channels.

Brahmaputra and Barak Basins: The river banks of Brahmaputra and Barak get flooded due to the surplus water found in the Brahmaputra basin and the Barak basin. These rivers along with their tributaries flood the northeastern states like West Bengal, Assam and Sikkim. Jaldakha, Teesta and Torsa in northern West Bengal and rivers in Manipur often overflow their banks.

Central India and Deccan Rivers Basin: In Orissa, spilling over of river banks by Mahanadi, Baitarni and Brahmani causes havoc. The deltaic area formed by these three rivers is thickly populated. Even some small rivers of Kerala and mud stream from the nearby hills add on to the destruction. Southern and Central India observe floods caused by Narmada, Godavari, Tapi, Krishna and Mahanadi due to heavy rainfall. Cyclonic storms in the deltaic regions of Godavari, Mahanadi and Krishna even floods the coastal regions of Andhra Pradesh, Orissa and Tamil Nadu occasionally.

Code 5 is for naxal affected area and rest of the area can be given as code 9 i.e. others.

Appropriate code may be given depending upon the location of the water body. Above information/ list is illustrative not exhaustive. Thus, the information may be taken from authorised or knowledgeable person before recording it in the schedule.

10.2.8 Item No. 5: Ownership: The owner of the water body may be Government or Private. The appropriate code applicable may be given. The codes are:

State WRD/ State Irrigation	-1
Co-operative	-2

Panchayat	-3
Municipal authority	-4
Other Govt. agency	-5
Individual	-6
Group of Individuals	-7
other private body	-9

10.2.9 **Item No. 6(1): Whether water body is in use: Yes-1, No-2:** If the water body is being used for any purpose like irrigation, industrial, pisciculture, domestic/drinking, recreation, religious or ground water re-charge, it should be treated as in use irrespective of their use and code 1 may be recorded. In case, there is no use of water body or no physical existence of water body, then code 2 may be reported.

10.2.10 **Item No. 6(2): If in use i.e. code 1 in item 6(1) above:** If the water body is in use i.e. code 1 in item 6(1) above, then appropriate code for its use has to be reported in this item. If the water body is used for more than one type of use, maximum of three codes of use may be recorded in the order of preference of its use. For example, if a water body is primarily used for irrigation, but is also used for domestic purpose, code will be recorded as 1 in the 1st box and 4 in the 2nd box.

10.2.11 **Item No. 6(3) If water body is "in use" for irrigation i.e. code 1 in item 6(2), the CCA and IPC of Water body:** If the Water body is "in use" and is being used for Irrigation purpose then its Culturable Command Area (CCA) and Irrigation potential created (IPC) may be reported in hectares. If the information of CCA and IPC is not directly available from any records, the same information may be ascertained from local knowledgeable person like Patwari/Sarpanch/Gram Sevak. In addition, CCA and IPC of the schemes installed on the Water Body can also be utilized to derive CCA and IPC of water body. If the water body is spread in more than one village, efforts may be made to include all the area for arriving at CCA and IPC.

10.2.12 **Item No. 6(4) If not in use i.e. code 2 in item 6(1) above:** If the water body is not in use i.e. code 2 in item 6(1) above, appropriate code for its reason is to be reported in this item as applicable. The codes are:

Dried up	-1
Construction	-2

Siltation	-3
destroyed beyond repair	-4
Salinity	-5
due to industrial effluents	-6
others	-9

The status of its use/ not in use should be as on the date of survey. Code 1 will be reported only when code 2 to 6 is not applicable.

10.2.13 Item No. 7(1): Type of water body by nature: If the water body is natural code 1 may be reported. For the man made water body (Dam, weir, constructed new pond/ tank in MGNREGA, etc.), code 2 is to be reported.

10.2.14 Item No. 7(2): If man made i.e. code 2 in item 7(1): As per the nature of water body in terms of type of its construction i.e. whether it is earthen, made of concrete or masonry work is done, the applicable code is to be reported in this item. Otherwise code 9 may be reported. If water body is constructed only from earthen kutch material, code 1 may be reported. If water body is Pucca from Cement or concrete, code 2 may be given. If the water body is made up of bricks with masonry work, code 3 can be given. For rest of cases code 9 may be given.

10.2.15 Item No. 8: Year of construction and cost (only for manmade): If water body is manmade i.e. code 2 in item 7(1), the original cost incurred (in Rs.) at the time of its construction and year in which, it was made, is to be reported in this item.

10.2.16 Item No. 9: Year of renovation/ repair (for all water bodies): If any renovation or repair work of the water body has been done, the cost of latest renovation/ repair done (in Rs.) and year of latest renovation/ repair has to be recorded in this item.

10.2.17 Item No. 10: Whether water body is under repair/ renovation/ restoration: If the water body is presently under repair/ renovation/ restoration, code 1 will be reported else code 2 will be reported in this item. Information for items 10(1) to 10(6) will be recorded if water body is presently under repair/ renovation/ restoration.

In item 10(1), name of the scheme is to be written under which the water body is under repair/ renovation or restoration. Year of inclusion under the scheme, targeted year of completion and estimated cost will be accordingly recorded in items 10(2), 10(3) and

10(4) respectively. The target of potential revival and Irrigation Potential revived may also be collected in item 10(5) and Item 10 (6) in hectare. The target of Potential revival relates to improvement and it will indicate additional potential likely to be increased due to repair/renovation/restoration. Similarly, the Irrigation Potential revived will indicate additional potential revived so far.

10.2.18 Item No. 11(1): Whether Water Body associated with Central Scheme: Yes-1, No-2: If any water Body is covered under any central scheme then code 1 may be reported, otherwise code 2 is to be reported.

10.2.19 Item No. 11(2): Name of the Central Scheme under which given water body is covered: If code 1 is selected in 11(1), then name of the central scheme is to be selected i.e. for Jal Jeevan Mission, code 1 may be reported, for Pradhan Mantri Matsya Sampada Yojana, code 2 is to be reported. For any other central scheme other than the above mentioned, code 3 may be reported.

10.2.20 Item No. 12(1): Does Water body contains water throughout the year: If water body contains water throughout the year then code 1 may be given, otherwise code 2 is to be reported.

10.2.21 Item No. 12(2): If code in item 12(1) is 2 i.e. 'No', appropriate code has to be recorded for number of months Water Body contained the water. Codes for this item are:

More than 9 months	-1
6-9 months	-2
less than 6 months	-3

10.2.22 Item No. 13: Water spread area of the water body during reference year 2023-24 (in Ha): Water spread area of the water body has to be reported in hectares up to three decimal points. If the water body is spread in more than one village, efforts may be made to include all the area for arriving at water spread area. It is clarified that water spread area will have the meaning of area covered by water i.e. land occupied by water (submerged area).

10.2.23 Item No. 13(1): Water spread area of the water body during current year (in Ha): Water spread area of the water body has to be reported for the year when schedule is filling on the ground in hectares up to three decimal points.

10.2.24 **Item No. 13(2): Minimum Spread Area(in Ha):** Minimum Water spread area of the water body has to be reported in hectares up to three decimal points.

10.2.25 **Item No. 13(3): Maximum Spread Area(in Ha):** Maximum Water spread area of the water body has to be reported in hectares up to three decimal points.

10.2.26 **Item No. 14: Maximum depth of water body when fully filled up (in meters):** The maximum depth (in meters) of water body is to be recorded in this item. Even if the water body is not fully filled up at the time of survey, depth would be recorded presuming it to be fully filled.

10.2.27 **Item No. 15: Storage capacity of water body in thousand cu. meters:** The original storage capacity and present storage capacity of the water body in thousand cubic meters is to be reported in this item. Designed storage of all the tanks / ponds / reservoirs in the village may be obtained from the records if available for original otherwise with the help of surface area and the average depth of tank and their sum total may be estimated and recorded here. The designed capacity of the reservoir may be available in records as these are generally owned by public sector, i.e. owned by cooperatives/ govt. department and information may be taken from the records. In case of ponds/ tanks owned by individual farmers, its approximate volume in terms of thousand cubic meters may be estimated after conversion from local units as obtained from the owner.

10.2.28 **Item No. 16: Filled up Storage (during 2023-24):** The information for this item has to be collected for the reference year 2023-24 and appropriate code has to be recorded. Codes for this item are:

Full	-1
up to $\frac{3}{4}$	- 2
up to $\frac{1}{2}$	-3,
up to $\frac{1}{4}$	- 4
Nil/Negligible filled up	- 5.

10.2.29 **Item No. 17: Whether silt is present in the water body which is reducing its capacity:** If the silt is present in the water body, 'yes' should be selected otherwise 'no' should be selected. Some local and knowledgeable person may also be contacted for obtaining this information.

10.2.30 Item No. 18: Status of filling up of storage space (based on around 50% filling up of storage during last 5 years): The appropriate code will be decided based on the information on 50% filling up of storage in last 5 years. The codes are:

Filled up every year - 1

Usually filled up - 2

Rarely filled up - 3

Never filled up - 4

For example, if a water body is filled up to or above 50% of its total capacity every year in the last 5 years, then code 1 will be recorded. If a water body is never filled up to or above 50% of its total capacity in the last 5 years, then code 4 will be recorded.

10.2.31 Item No. 19(1): Number of Cities/ towns/ villages benefitted: The number of cities/towns and number of villages benefitted by the water body under coverage has to be ascertained and recorded in this item separately.

10.2.32 Item No. 19(2): Number of people directly benefited by Water Body: The number of people directly benefited by the Water body is to be reported in this item. In case, there is any problem in collecting exact number, the estimated number may be ascertained from local knowledgeable person and recorded.

10.2.33 Item No. 20(1): Whether water Users Association (WUA) is formed (except individual Ownership): If the Water body users association is formed or associated for taking decisions on matters relating to utilization of water of the water body under consideration, code 1 will be recorded and code 2 if no. Efforts should be made to get the information. However, if the information is not available despite best efforts, then code 3 i.e. not known may be recorded. For the Water Bodies whose Ownership is Individual i.e. code 6 in item 5 this has to be left blank.

10.2.34 Item No. 20(2), If yes i.e. code 1 in item 20(1): If in item 20(1) information is yes i.e. code 1, it may be possible that some area of Water body is not covered by Water Users Association. Thus, if the Water Users Association covers entire area of water body then code one can be given i.e. Full area covered in item 20(2)(a), otherwise code 2 i.e. Partially area coverage can be given. Item 20(2)(b) relates to total number of Water Users Association (WUA) formed in a Water Body.

10.2.35 Item No. 21: Whether water body included in District Irrigation Plan (DIP)/ State Irrigation Plan (SIP): If the water body under survey is covered in District Irrigation Plan (DIP) or State Irrigation Plan (SIP), code 1 has to be recorded in this item else code 2 will be recorded.

10.2.36 Item No. 22(1): Whether any area of water body is encroached (Yes-1, NO-2): If the water body or any part/ area of it has been encroached, code 1 has to be recorded else code 2 is to be recorded in this item. Encroachment on a water body refers to unauthorized entry into the defined boundary of the water body for various human activities like construction, agriculture etc.

10.2.37 Item No. 22(2) and Item No. 22(3): If Yes in item 22(1): If it is observed that the area of water body has been encroached then it has to be ascertained whether the encroachment area can be assessed approximately (percentage). If Yes, then approximate percentage of area encroached may be given in item 22(3) in two digits without decimal. To assess the area of encroachment, for water body owned by Public, the original water spread area can be enquired from the authority under which the Water Body is functioning.

10.2.38 Item No. 23: Whether water body is standalone or connected: If there is only one water body, then 'standalone' should be selected. If two or more water bodies are connected to each other (for e.g. by strait), then 'connected' should be selected.

10.2.39 Item No. 23(1): If Connected, Number of Connected Water Bodies: If the water bodies are connected, then number of connected water bodies should be recorded here.

Name of Enumerator, designation, mobile number and remarks (if any) should be clearly mentioned in the mobile application. This information should be thoroughly checked before submitting the schedule.

Name of Supervisor, designation, mobile number and remarks (if any) should be clearly mentioned in the mobile application. This information should be thoroughly checked before submitting the schedule.

CHAPTER ELEVEN:

FREQUENTLY ASKED QUESTIONS

11.0 FREQUENTLY ASKED QUESTIONS

Some of the frequently asked questions regarding 7th MI Census and 2nd Census of Water Bodies are given as follows:

11.1 VILLAGE SCHEDULE AND URBAN SCHEDULE

Q1. Can gross irrigated area (by all sources) be larger than geographical area of the village?

Ans. Yes, gross irrigated area (by all sources) can be larger than geographical area of the village as it is the total of season-wise irrigated area (by all sources)

Q2. Some of the States are getting rainfall from two monsoons. Which is relevant monsoon season for pre/post monsoon ground water level?

Ans. Of the two seasons, the season with major rainfall is to be treated as Monsoon season for pre-monsoon and post-monsoon ground water level.

Q3. How the information of number of water bodies to be reported in the Revenue village which is having rural and urban area both?

Ans. The water body in the rural area of the revenue village is to be reported in the Village Schedule and the water body in the urban area of the revenue village is to be reported in the Urban Schedule. Duplication of counting of waterbodies should be avoided in village/urban schedule of a revenue village. If the revenue village is having urban area only, the information relating to Water Bodies will be compiled only in urban schedule corresponding to that town.

Q4. How the total number of wards information to be given?

Ans. This is to be filled up for a town as per the Urban Directory. Separate urban Schedule is to be filled up for each town.

11.2 GROUND WATER SCHEDULE

Q1. The depth of Tubewell is exactly 35 meter. Whether it would counted in Shallow tube well or Medium Tube Well?

Ans. Upto 35 Meter Depth is to be taken as Shallow tube well. Depth more than 35 meter and upto 70 meters is to be taken as Medium Tubewell. Above 70 meters' depth shall be treated as Deep Tubewell.

Q2. In some Tubewells, the bore is having two pipes of different diameters. Diameter of which pipe is to be taken.

Ans. The diameter of the lower pipe of the bore is to be taken in this case.

Q3. What is to be recorded if cost of construction is Not available.

Ans. Estimated value of the cost of Construction is to be reported in this case.

Q4. If a tractor is used as lifting device for lifting water from a tube well, will the full cost of tractor be reported in cost of machinery?

Ans. It would not be appropriate to give cost of tractor as cost of machinery, as it will give abnormally high value for cost of machinery. However, the estimated cost of the lifting device, which would have been appropriate for that tubewell had the tractor not been used as lifting device, may be given.

Q5. A farmer owns more than one MI scheme and is using one portable lifting device in more than one scheme. How the cost of machinery will be reported?

Ans. The cost of portable lifting device will be equally divided and reported in all the schemes.

Q6. If a farmer owns a MI scheme but doesn't own a lifting device and is paying rent for portable lifting device, whether this expense is to be shown as Machinery Cost?

Ans. No. The expense incurred on rent paid in this case is to be recorded in the cost of maintenance.

Q7. If any scheme which was permanently not in use in 6th MI Census, and is found to be "in use" during survey, whether it will be covered?

Ans. Yes. If a scheme is found in use during survey, it will be covered.

Q8. Whether average pumping hours can be given in decimal

Ans. The average pumping hours is to be recorded in whole numbers. If it is in decimal, it is to be rounded off.

Q9. What is to be recorded in name of command area?

Ans. If a MI scheme is located in the command area of a Major/Medium Scheme, the name of that Major/Medium Scheme is to be recorded.

Q10. What code is to be given if a MI Scheme is under utilised due to its location in the command area of a Major/Medium Scheme.

Ans. “Any other reason” is to be recorded in such cases.

Q11. If a ground water scheme is used in other sectors also besides irrigation, should it be included in the census?

Ans. If the major portion of output from the scheme is used in irrigation sector, it should be included in the census.

Q12. How to identify if the scheme is under-utilized?

Ans. If there is significant difference in IPC and IPU of scheme, then it is under-utilized.

11.3 SURFACE WATER SCHEDULE

Q1. If a Water Body is used for irrigation also, whether both schedules i.e. one for Water Body and another for MI Scheme are to be canvassed?

Ans. Yes. If a Water Body is used for irrigation also, it will be treated as a MI scheme and one MI schedule of surface water along with one water body schedule will be canvassed. If there are more than one MI schemes on the water body, MI schedules for all the MI schemes on that water body will be canvassed along with one water body schedule.

11.4 WATER BODIES SCHEDULE

Q1: If a water body is spread in more than one village, whether the information in various items of the schedule is to be reported for the area of the waterbody in the village only?

Ans. If a water body is spread in more than one village, even then only one schedule for water body has to be filled and the information in various items of the schedule is to be reported for the whole water body.

Q2. Whether bowli will be treated as a water Body?

Ans. If the bowli is receiving ground water, it will be treated as a ground water scheme and not as a water body.

Q3. If the base of a Water Body is Pucca, whether it is a Water Body?

Ans. The base of a Waterbody (whether pucca or kutcha) is not the deciding factor for classifying a structure as water body. It has to be decided on the basis of the definition of the water body in the instruction manual of Census of water bodies.

Q4. If original cost of Water Body is not available, how to record it?

Ans. This information is to be collected for manmade Water Bodies only. If record is not available, estimated cost can be given.

Q5. How the name & code of basin & sub-basin is to be recorded.

Ans. List of basin and sub-basin along with their codes will be circulated to the States/UTs.

Q6. Which area will be taken as water spread area of the water body?

Ans. Surface area covered of the water body will be taken as water spread area of the water body. In the case of large water bodies (like Reservoirs), the water spread area may be available in the official records which need to be taken. Otherwise it has to be recorded as actual area covered at the time of survey.

Q7. Whether schedule is to be filled for the water body which is fully encroached.

Ans. If, during the survey work, the enumerator comes to know (through the records or otherwise) that earlier there was a water body which has now been fully encroached and doesn't exist now, even then, a water body schedule will be canvassed and entry in the relevant items will be recorded to know the extent of encroachment of water bodies in the country.

Q8. If the storage capacity of water body is not available, what should be recorded?

Ans. The estimated figure may be written in this item.

Q9. How to map latitude and longitude in case of reservoir which is falling in 02 states.

Ans. The State in which maximum portion of reservoir is falling, the schedule should be filled for that State only.

Q10. How the encroachment figures of water bodies be recorded?

Ans. These figures should primarily be taken from the Revenue Department of the State.

Q11. Whether a water body located in Forest area is to be included in the census?

Ans. Yes, all the water bodies are to be covered in the census of water bodies.

Q12. How to conduct water body census in Forest area?

Ans. Regarding coverage of Forest area, a member may be included from the State Forest Department in the State Level Steering Committee. The queries related to covering of water body in Forest Area will be addressed by the said committee.

11.5 GENERAL QUERIES

Q1. What is to be done if the LGD code of a village/ward is not found?

Ans. The LGD codes shall be finalized in consultation with States/UTs. Moreover, if a village is split into two villages after the reference year of censuses, it should be counted as a single village only. However, if a village is still missing in the LGD directory, it should be informed to this Ministry.

Q2. What is the reference year of the census?

Ans. The reference year of the census is 2023-24, i.e. the data on items of schedule should pertain to 2023-24 unless stated otherwise.

ANNEXURES

**SEVENTH CENSUS OF MINOR IRRIGATION SCHEMES
REFERENCE YEAR 2023-24 (AGRICULTURAL YEAR)**

VILLAGE SCHEDULE

Code: 01

I. IDENTIFICATION PARTICULARS

(a) State: _____ Code : (b) District: _____ Code :

(c) Block/Tehsil: _____ Code (d) Village: _____ Code

Date of Enumeration: (DD/MM/YY)

- -

II. SPECIFIC INFORMATION:

1. Is Village Tribal/ Non-Tribal ?

Code :

Tribal - 1, Non-Tribal - 2

2. (a) Is the Village covered by Major/ Medium Scheme

Code :

Yes - 1, No - 2

(b) If yes, Name of Major/ Medium Scheme _____

(The information in items 3 to 7 of this schedule shall be based on village records)

3. Geographical Area

In Whole number Ha.

4. Cultivable Area

In Whole number Ha.

5. Net sown Area

In Whole number Ha.

6. Gross Irrigated Area(By all sources)

In Whole number

(i) During Kharif Season

Ha.

(ii) During Rabi Season

Ha.

(iii) For Perennial crops

Ha.

(iv) During Other Season

Ha.

(v) Total Gross Area Irrigated (Item 6 (i)+6(ii)+6(iii)+6(iv)

Ha.

7. Net Area Irrigated (By all sources)

In Whole number

Ha.

8. Average Ground Water level (in Metres)

(i) Pre Monsoon)

Mtrs

(ii) Post Monsoon)

Mtrs

9. Whether Water Users association (WUA) exists in the village

Yes -1, No -2, Not known-3

Code :

10. Summary of Number of Water bodies as per water body Schedules filled in the village

Pond	Tank	Lake	Reservoirs	Water conservation Schemes/percolation tanks/check-dams	Others	Total (Col. 1 to 6)
(1)	(2)	(3)	(4)	(5)	(6)	(7)

11. Summary of M I Schemes in the village as per all scheme schedules filled.

(i) Ground Water Schemes

No.

(ii) Surface Water Schemes

No.

(iii) Total Schemes

No.

Remarks, if any:

Checked by:

Name:

Designation of Supervisory officer:

Mobile No.:

Signature of Enumerator:

Name:

Designation of Enumerator :

Mobile No:

CENSUS OF WATER BODIES**REFERENCE YEAR 2023-24 (AGRICULTURAL YEAR)****URBAN SCHEDULE****Code: 02****I. Identification Particulars:**(a) State _____ Code

--	--

 (b) District _____ Code

--	--	--

(C) Town/Municipality _____ Code

--	--	--	--	--	--

Date of Enumeration (DD/MM/YY)

		-			-		
--	--	---	--	--	---	--	--

II. Specific Information:**1. Total number of wards in the town/Municipality**

--	--	--

2. Ward wise and type wise number of water bodies as per Water Body schedules filled

S. No.	Ward No.	Pond	Tank	Lake	Reservoirs	Water conservation Schemes/ percolation tanks/ check-dams	Others	Total col. 3 to 8
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1								
2								
3								
4								
5								
6								
7								
...								
Total								

Please add separate sheet, if required.

Remarks, if any:

Checked by
Name
Designation of Supervisory officer
Mobile No.
Remarks

Signature of Enumerator
Name
Designation
Mobile NO.
Remarks

SEVENTH CENSUS OF MINOR IRRIGATION SCHEMES
REFERENCE YEAR 2023-24 (AGRICULTURAL YEAR)

SCHEDULE 1 : GROUND WATER SCHEMES

Code: 03

I. IDENTIFICATION PARTICULARS

(a) State: _____ Code: (b) District: _____ Code:

(c) Block/Tehsil: _____ Code: (d) Village: _____ Code:

Date of Enumeration: (DD/MM/YY)

- -

II. SPECIFIC INFORMATION:

1. Serial Number of scheme :

2. Type of Scheme

Code:

Dug well-1, Tube well/ Borewell-2

3.1. If code 1 in item 2 above, type of Dug well:

: Dug-cum-bore well -1, Dug well Pucca -2, Dug well Kutchha -3, Others - 9

Code:

3.2. If code 2 in item 2 above, type of Tube well:

Shallow Tube well-1, Medium Tube well-2, Deep Tube well-3, Artesian Well-4

Code:

4. Owner of the Scheme (Name in case of individual farmer)

Name _____

Code:

Govt. owned - 1, Co-operative owned - 2, Panchayat owned - 3, Owned by Group of farmers - 4,

Owned by individual farmer - 5, Others - 9

5. (a) Khasra number /Plot No./Survey No. in which the scheme is located _____

(b) Location particulars /Land Mark _____

6(a). Total ownership Holding of owner (in case of individual owner only)

Ha.

(b) Social Status of Owner (in case of individual owner only)

Code:

Scheduled caste -1, Scheduled tribe - 2, OBC- 3, Others- 9

(c) Gender of Owner (in case of individual owner only)

Male-1, Female-2, Transgender-3

Code:

7. Year of Commissioning of the Scheme

Code :

Up to 2018-2019 - 1, during 2019-20 - 2, during 2020 -21 - 3, during 2021-22 - 4
during 2022-2023-5, during 2023-24 - 6

8. Details of the scheme

(a) Depth of the Dug well/Tube well (in meters)

Mtr

(b) Diameter (In metres for dug well and mm for tube well)

(c) Depth of Bore (in metres) (in case of Dug-cum-borewell)

Mtr

(d) Distance from any nearest Dug well/Tube well (in meters)

Mtr

9. (a) Cost of construction of the scheme

(Rs. Lakhs)

(b) Cost of machinery

(Rs. Lakhs)

(c) Cost of maintenance during (2023-2024)

(Rs. Lakhs)

10.(a) Major source of finance (upto 2) (For individual owners only)

Code :

Bank loan - 1, Government fund - 2, Own savings - 3, Money lender - 4, Others - 9

10(b). If any subsidy/assistance provided by Govt. / PSU, amount for (For All Schemes)

(i) Construction of Scheme/ drilling/digging

(Rs.)

(ii) Cost of machinery/ distribution device

(Rs.)

11. Current Status of the Scheme

- (a) In use - 1, Temporarily Not in Use - 2, Permanently Not in use - 3
 (b) If code 2 or 3 in item 11(a), No. of years not in use

Code: Code: **12. If code 2 in item 11 (a) reason for Temporarily "not in use"**

- Non availability of adequate power/fuel - 1, Mechanical break down - 2,
 Less discharge of water - 3, Non-availability of finance - 4,
 Lack of maintenance - 5, Any other reason - 9

13. If code 3 in item 11 (a), reason for Permanently "not in use"Code:

- Due to salinity - 1, Dried up - 2, Destroyed beyond repair - 3
 Due to sea water intrusion - 4, Due to industrial effluents - 5, Availability of
 Major / Medium Irrigation Project - 6, Due to other reasons - 9

14. Method used for Water distributionCode:

- Open Water Channel (lined / pucca) - 1, Open Water Channel(unlined / kutchha) - 2
 Under ground pipe - 3, Surface pipe - 4, Drip - 5, Sprinkler - 6, Other - 9

15. Types of lifting device

- Submersible pump - 1, Centrifugal Pump - 2, Turbine/Jet pump - 3, Manual/animal - 4, Others - 9

16. Source of energy for lifting deviceCode:

- Electric - 1, Diescl - 2, Wind Mills - 3, Solar - 4, Manual/animal - 5, Others - 9

17. Horse Power of Lifting device HP

(ignore if lifting device is manual/animal driven)

18. Number of days pump operated (ignore, if lifting device is manual/animal)

During Kharif season

 Days

During Rabi season

 Days

For Perennial crops

 Days

During Other Season

 Days**19. Average hours of pumping per day (ignore, if lifting device is manual/animal)**

During Kharif season

 Hrs

During Rabi season

 Hrs

For Perennial crops

 Hrs

During Other Season

 Hrs**20 (a) Whether the scheme is located in the command of**

Major/ Medium Schemes like Canals etc.

Code:

No --- 1

Yes --- 2

20(b) If Scheme is in command area i.e. code 2 in item 20(a),

(i) Name of command Area: _____

(ii) reasons for Scheme in Command area

Code:

Water not available up to field from major/medium scheme-1, Water available but not adequate for irrigation-2

Water available but not useable for irrigation-3, Other reasons-9

20 (c) Whether the scheme is meant only for recharge of Ground water Yes-1, No-2

(If yes Keep item 21 to item 31 blank)

21. Culturable Command Area Ha.

SEASON WISE IRRIGATION POTENTIAL CREATED (IPC)

22.	Kharif	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	.	<input type="text"/>	<input type="text"/>	<input type="text"/>	Ha.
23.	Rabi	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	.	<input type="text"/>	<input type="text"/>	<input type="text"/>	Ha.
24.	Perennial	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	.	<input type="text"/>	<input type="text"/>	<input type="text"/>	Ha.
25.	Other	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	.	<input type="text"/>	<input type="text"/>	<input type="text"/>	Ha.
26	Total	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	.	<input type="text"/>	<input type="text"/>	<input type="text"/>	Ha.

Season wise actual area irrigated during 2023-24 (IPU)

27.	Kharif	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	.	<input type="text"/>	<input type="text"/>	<input type="text"/>	Ha.
28.	Rabi	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	.	<input type="text"/>	<input type="text"/>	<input type="text"/>	Ha.
29.	Perennial	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	.	<input type="text"/>	<input type="text"/>	<input type="text"/>	Ha.
30.	Other	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	.	<input type="text"/>	<input type="text"/>	<input type="text"/>	Ha.
31.	Total	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	.	<input type="text"/>	<input type="text"/>	<input type="text"/>	Ha.

Note (i) If Scheme is out side command area of Major & Medium Scheme then complete IPU is to be reported.

(ii) If the Scheme is in the Command of Major & Medium Scheme then IPU is to be given as supplemented by MI Scheme. Thus the Gross IPU is to be apportioned in the ratio utilised by Major/Medium and MI Scheme.

32(i) Whether the scheme is under utilised (Only for In-use Schemes) Yes-1, No-2 code:

32(ii) If yes i.e. code 1 in item 32(i) , reasons for under utilisation of schemes Code :

Non availability of adequate power/fuel – 1 , Mechanical break down – 2 ,

Less discharge of water - 3 , Non availability of finance-4, Lack of Maintenance-5

Any other reason-9

33. Whether the MI Scheme is used for 'Drinking Water' purpose? Yes-1, No-2 Code:

Remarks, if any:

Checked by
Name
Designation
Mobile No.:

Signature of enumerator
Name
Designation :
Mobile No.:

SEVENTH CENSUS OF MINOR IRRIGATION SCHEMES
REFERENCE YEAR 2023-24 (AGRICULTURAL YEAR)

SCHEDULE 2 : SURFACE WATER SCHEMES

Code: 04

I. IDENTIFICATION PARTICULARS

(a) State: _____ Code: (b) District: _____ Code:

(c) Block/Tehsil: _____ Code: (d) Village: _____ Code:

Date of Enumeration: (DD/MM/YY)

- -

II. SPECIFIC INFORMATION:

1. Serial Number of scheme :

2. Type of Scheme

Code:

Surface Flow Scheme - 1, Surface Lift Scheme - 2

3.1 If code 1 in item 2, Nature of Surface Flow Scheme:

Code:

Reservoirs - 1, Tanks/Ponds - 2, Other Storages - 3, Permanent diversion - 4, Temporary diversion - 5 ,
 Water conservation-cum-ground water recharge schemes /percolation tanks/check dams etc - 6, Spring Channel - 7, Others - 9

3.2, If code 2 in item 2, Nature of Surface Lift Scheme:

Code:

On River - 1, On Stream - 2, On drain/canal - 3, On Tanks/Ponds/Reservoirs/check dams - 4, Others - 9

4. Owner of the Scheme (Name in case of individual farmer)

Name _____

Code:

Govt. owned - 1, Co-operative owned - 2, Panchayat owned - 3, Owned by Group of farmers - 4,
 Owned by individual farmer - 5, Others - 9

5. Khasra number /Plot No./Survey No. in which the scheme is located

6(a). Total Holding of owner (in case of individual owner only)

Ha.

(b) Social Status of Owner (in case of individual owner only)

Code:

Scheduled caste - 1, Scheduled tribe - 2, OBC - 3, Others - 9

(c) Gender of Owner (in case of individual owner only)

Code:

Male - 1, Female - 2, Transgender - 3

7. Year of Commissioning of the Scheme

Code:

Upto 2018-19 - 1, during 2019-20 - 2, during 2020-21 - 3, during 2021-22 - 4
 during 2022-23 - 5, during 2023-24 - 6

8. (a) Cost of construction of the scheme

(Rs. Lakhs)

(b) Cost of machinery

(Rs. Lakhs)

(c) Cost of maintenance during (2023-24)

(Rs. Lakhs)

9.(a) Major source of finance (upto 2) (For individual owners only)

Code:

Bank loan - 1, Government fund - 2, Own savings - 3, Money lender - 4, Others - 9

9(b) .If any subsidy/assistance provided by Govt. / PSU , amount for (For All Schemes)

(i) Construction of Scheme/ digging

(Rs.)

(ii) Cost of machinery/ distribution device

(Rs.)

10. Current Status of the Scheme

- (a) In use - 1, Temporarily Not in Use - 2, Permanently Not in use - 3
(b) If code 2 or 3 in item 10(a), No. of years not in use

Code: **11 . If code 2 in item 10 (a) reason for Temporarily "not in use"**Code:

Non availability of adequate power/ fuel - 1 , Mechanical break down - 2 ,
Less discharge of water - 3 , Non Availability of finance-4, Storage not filled up fully - 5
Siltation of canal/storage - 6, Breakdown of channels - 7, Any other reason - 9

12 . If code 3 in item 10 (a), reason for Permanently "not in use"Code:

Due to salinity - 1, Dried up - 2 , Destroyed beyond repair - 3,
Due to sea water intrusion - 4, Due to industrial effluents - 5, Availability of
Major / Medium Irrigation Project - 6, Due to sinking -7, Due to other reasons - 9

13. Method used for water distribution:Code :

Open Water Channel (lined / pucca) - 1, Open Water Channel(unlined / kutchha) - 2
Under ground pipe - 3, Surface pipe - 4, Drip - 5 , Sprinkler - 6 , Others -9

14. Types of lifting device (Only for Surface lift Scheme)

Submersible pump - 1 , Centrifugal Pump - 2, Turbine/Jet pump - 3, Manual/animal - 4, Others - 9

15. Source of energy :(Only for Surface lift scheme)Code :

Electric - 1, Diesel - 2, Wind Mills - 3, Solar - 4, Manual/animal - 5, Others - 9

16. Horse Power of Lifting device HP

(ignore if lifting device is manual/animal)

17. Number of days pump operated (ignore, if lifting device is manual/animal)

During Kharif season

 Days

During Rabi season

 Days

For Perennial crop

 Days

During other season

 Days**18. Average hours of pumping per day (ignore, if lifting device is manual/animal)**

During Kharif season

 Hrs

During Rabi season

 Hrs

For Perennial crop

 Hrs

During Other season

 Hrs**19 (a) Whether the scheme is located in the command of
Major/ Medium Schemes like Canals etc.**Code :

No --- 1

Yes --- 2

19(b) If Scheme is in command area i.e. code 2 in item 19(a),

(i) Name of command Area _____

(ii) reasons for Scheme in Command area :

Code :

Water not available up to field from major/medium scheme-1, Water available but not adequate for irrigation-2

Water available but not useable for irrigation-3, Other reasons-9

19 (c) Whether the scheme is meant only for recharge of Ground water Yes-1, No-2

(If yes Keep item 20 to item 30 blank)

20. Culturable Command Area Ha.

SEASON WISE IRRIGATION POTENTIAL CREATED (IPC)

21. Kharif	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Ha.
22. Rabi	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Ha.
23. Perennial	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Ha.
24. Other	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Ha.
25. Total	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Ha.

Season wise actual area irrigated during 2023-24 (IPU)

26. Kharif	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Ha.
27. Rabi	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Ha.
28. Perennial	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Ha.
29. Other	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Ha.
30. Total	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Ha.

Note (i) If Scheme is out side command area of Major & Medium Scheme then complete IPU is to be reported.

(ii) If the Scheme is in the Command of Major & Medium Scheme then IPU is to be given as supplemented by MI Scheme. Thus the Gross IPU is to be apportioned in the ratio utilised by Major/Medium and MI Scheme.

31(i) Whether the scheme is under utilised (Only for In-use Schemes) Yes-1, No-2 code:

31(ii) If yes i.e. code 1 in item 31(i) , reasons for under utilisation of schemes Code :

Non availability of adequate power/fuel – 1 , Mechanical break down – 2 ,

Less discharge of water - 3 , Storage not filled up fully - 4, Siltation of canal/storage- 5

Breakdown of channels - 6, Any other reason - 9

32. Number of Villages covered by the scheme

33. Specific features of Reservoirs, Tank, Other storages

(a) Designed Storage (in cubic metres)

(b) Filled up Storage (during 2023-24)

Full - 1 , upto 3/4 - 2 , upto 1/2 - 3, upto 1/4 - 4 , Nil/Negligible filled up - 5

(c) Status of filling up of storage Space

(based on around 50% filling up of storages during last 5 year)

Filled up every year - 1 , Usually filled up - 2 , Rarely filled up - 3 , Never filled up - 4

34. Specific information relating to Water body

(a) 21 Digit Sl no. as per Water body schedule in which the scheme is functioning

R/U	State	Distt.	Tehsil/Town/block	Village/Ward	Serial No.- within village/town
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

(b) Total number of schemes in the village in above water body.

(c) Sl. number of this scheme within village in the water body

35. Whether the MI Scheme is used for 'Drinking Water' purpose?

Yes-1, No-2

Code:

Remarks, if any

Checked by:

Name

Designation

Mobile No.:

Signature of Enumerator:

Name

Designation

Mobile No.:

CENSUS OF WATER BODIES
WATER BODY SCHEDULE
REFERENCE YEAR: 2023-24 (AGRICULTURAL YEAR)

Code: 05

Rural-1/Urban-2 ☐**I Identification Particulars (Standard Codes to be used)**(a) State _____ Code (b) District _____ Code **For Rural**(c) Block/Tehsil _____ Code (d) Villages name _____ Code **For Urban:**(e) Town/Municipality _____ Code (f) Ward no Sl.number of water body within village/Town Date of Enumeration (DD/MM/YY) **Unique Identification key for Water body (If urban give code for town and ward)**

R/U	State	Distt.	Tehsil/Town/block	Village/Ward	Serial No.- within village/town
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

II Specific Information:**1.1 (a) Name of Water body (if any)/ with specific permanent land marks**

1.1(b) Name of Basin & Sub-basin in which water body is situated: _____

Basin code Sub basin code **1.2 (a) . Type of Water Body:** Ponds-1, Tank-2, Lakes-3, Reservoirs-4

Water conservation schemes/percolation tanks/check-dams-5, Others-9

Code:

1.2(b) If code is "Others" in item 1.2(a) the nature of storage : _____

1.3. Khasra number/plot no/survey no in which the water body is located : _____

2. Latitude (In degree, minutes, seconds)

Degree	Minute	Second
<input type="text"/>	<input type="text"/>	<input type="text"/>
Degree	Minute	Second
<input type="text"/>	<input type="text"/>	<input type="text"/>

3. Longitude (In degree, minutes, seconds)

4. Whether located in DPAP-1 /Tribal-2/DDP-3/

Flood prone-4, Naxal affected area 5, Other -9

Code: **5. Ownership:** State WRD/State Irrigation-1, Co-operative-2, Panchayat-3, Municipal authority-4, Other Govt. Agency-5,

Individual-6, Group of Individuals -7, Other private body -9

Code: **6(1) Whether Water body is in use: Yes-1, No-2**Code: **6(2) If in use i.e. code 1 in item 6(1) above, uses:**

Irrigation-1, Industrial-2, Pisciculture-3, Domestic/Drinking-4, Recreation-5, Religious -6,

Ground Water Recharge-7, Natural Habitat for birds/Animals-8 Other-9: (up to three codes in order of preference)

Code: Code: Code: **6(3) If water body is "in use" for Irrigation i.e. code 1 in item 6(2) :**

CCA of water body

IPC of water body

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Ha.
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Ha.

6(4) If not in use i.e. code 2 in item 6 (1) above, state the Reasons: Dried up-1, Construction-2,

Siltation-3, Destroyed beyond repair-4, Salinity-5, Due to industrial effluents-6, Others-9

Code:

7(1). Type of water body by nature : Natural-1, Man made (Dam, weir constructed pond etc.)-2

Code:

7(2) If code 2 i.e. man made in item 7(1) type : Earthen-1,Concrete-2,Masonry-3,others-9

Code:

8. Year of Construction and original cost (only for man made):

Year

Original Cost Rs.

9. Year of renovation / repair (for all water bodies)

Year

Cost of last repair

Rs.

10. Whether, Water body is under repair/renovation/restoration: yes-1, NO-2

10.(1) If yes: Scheme under which revival is being done:

10(2) Year of inclusion under the scheme:

10(3) Targeted year of completion:

10(4) Estimated cost

Rs.

10(5) Target of potential revival

Ha.

10(6) Irrigation potential revived

Ha.

11(1). Whether the water Body is associated with central scheme ?

Yes-1,No-2

Code:

11(2) If Yes, Name the associated Central Scheme

(Jal Jeevan Mission-1, Pradhan Mantri Matsya Sampada Yojana- 2, Others-3)

Code:

12(1). Does Water Body contains water throughout the year? (Yes-1, No- 2)

Code:

12(2). If No. then. the number of months Water Body Contains the Water?

More than 9 months-1. 6-9 months-2. less than 6 months-3

Code:

13. Water spread area of the water body during reference year (in Ha)

Ha.

13(1). Water spread area of the water body during current year (in Ha)

Ha.

13(2). Minimum Water spread area (in Ha)

Ha.

13(3). Maximum Water spread area (in Ha)

Ha.

14 Max. depth of water body when fully filled up: (In Meters)

15.Storage Capacity of water body in thousand Cu.meter

Original

Present

16. Filled up Storage (During 2023-24) Full-1, up to 3/4 -2, up to 1/2 -3,

up to 1/4 -4, Nil/ negligible filled -5.

Code:

17 Whether silt is present in the water body which is reducing its capacity? Yes-1, No-2

Code:

18.Status of filling up of storage space (based on around 50% filling up of storage during last 5 year)

Code:

Filled up every year- 1, Usually filled up -2, Rarely filled up -3, Never filled up -4

19(1) Number of City/Town/Villages benefited.

Town/Cities

Villages

19(2) Number of people directly benefited by Water body:

No.

20 (1) Whether Water Users Association (WUA) is formed(Except Individual ownership):

Yes-1 , No-2, Not known-3

Code:

20 (2) If Yes i.e. code 1 in item 20(1):

Code:

(a) Extent of area covered by WUA: Full area covered-1, Partial area covered-2

(b) Number of Water Users Association(WUA) formed for this Water Body:

21. Whether water body included in District Irrigation Plan(DIP)/State Irrigation Plan(SIP) Yes-1, No-2

Code:

--

22 (1) Whether any area of Water Body is encroached: Yes-1, No-2:

Code:

--

22(2) If yes i.e. code 1 in item 22(1), can extent of encroachment be assessed : Yes-1, No-2

Code:

--

22(3) If yes i.e. code 1 in item 22(2) : Approximate percentage of area encroached

--	--

 %

23. whether water body is standalone or connected

Standalone-1, Connected-2

Code:

--

--	--

23(1) If Connected, Number of Connected Water Bodies

Name

Name

Designation of Supervisory officer

Designation

Mobile No.

Mobile NO.

Remarks

Remarks

Validation Check for Village Schedule

Item no.	Description of Validation Check	Other Check
1. Is Village Tribal/ Non-Tribal	Valid codes are 1 or 2	
2. (a) Is the Village covered by Major/ Medium scheme	Valid codes are 1 or 2	
2(b) If yes, Name(s) of Major/ Medium Scheme	If 2(a) value is 1, then fill the name of scheme	
3. Geographical Area	Value Must be >0	Show the warning where value is more than 20000.
4. Cultivable Area	Value Must be ≥ 0 and Value must be \leq item 3	Show the warning where value is more than 20000
5. Net sown area	Value Must be ≥ 0 and Value must be $<$ item 4	Show the warning where value is more than 20000
6. Gross Irrigated Area(by all sources)		
6(i) Kharif	Value Must be ≥ 0 and \leq item 7	Show the warning where where value is more than 10000
6(ii) Rabi	Value Must be ≥ 0 and \leq item 7	
6(iii) Perennial	Value Must be ≥ 0 and \leq item 7 . Item 6(iii)+ item 6(i) \leq item 7 Item 6(iii)+ item 6(ii) \leq item 7 Item 6(iii)+ item 6(iv) \leq item 7	
6(iv) Others	Value Must be ≥ 0 and \leq item 7	
6(v) Total Gross Area Irrigated	6(v)= 6(i)+ 6(ii)+ 6(iii)+ 6(iv) and value must be \geq item 7	Show the warning where value is more than 20000
7. Net Area Irrigated	Value Must be ≥ 0 and \leq item 5	Show the warning where value is more than 20000
8.(i) Average Ground Water level (in meters) Pre Monsoon	Value Must be >0	Show the warning where value is more than 100
8.(ii) Average Ground Water level (in Meters) Post Monsoon	Value Must be >0	show the warning where (i) value is more than 100 or (ii) Value in item 8(ii)>item 8(i)
9. Whether Water Users Association (WUA) exists in the village	Valid codes are 1, 2 and 3.	
10 Summary of number of water bodies	The field shall be automatically generated from the schedule of water bodies	
11.(i) Ground Water schemes	The fields shall be automatically generated from the ground water and surface schedules.	
11(ii) Surface Water schemes		
11(iii) Total		

Validation Check for Urban Schedule

Item no.	Description of Validation Check	Other check
1. Total number of wards in the town	The value should be greater than or equal to 1.	
2. Summary of number of water bodies	Sum of col. 3 to 8 in each row should tally with col. 9.	Show the warning where value is more than 20 in each column.

Validation Check for Ground Water Schedule

Item/ Field	Validation check	Other check
1. Serial no. of the Scheme	Should be unique and greater than zero	submission of schedule will not be allowed without Serial Number
2. Type of Scheme	(i) Valid code is 1 or 2. (ii) If code is 1 in item 2, disable item 3.2. (iii) If code is 2 in item 2, disable item 3.1.	
3.1 Type of Dug well	(i) Valid codes are 1,2,3 and 9. (ii) Disable item 8(c) if: (a) code is 2 in item 2 or (b) code is 2,3,9 in item 3.1.	
3.2 Type of tube well/ bore well	Valid codes are 1,2,3 and 4.	
4. Ownership code	(i) The valid codes are 1,2,3,4,5 and 9. (ii) Disable items 6(a),6(b),6(c) and item 10(a) if code is 1/2/3/4 or 9 in item 4.	
Item 5 (a) and (b) Khasra number/plot no. etc and Location particulars	Should not be 'NULL'.	
6. (a) Total Ownership Holding of owner	Item 6(a)>0 and <= 9999.999.	Show the warning where value is (i) equal to "0" or (ii) more than 1000.000
6. (b) Social Status of Owner	Valid codes are 1,2,3 and 9	
6. (C) Gender of Owner	Valid codes are 1, 2 and 3.	
7. Year of Commissioning of the Scheme	Valid codes are 1,2,3,4, 5 or 6.	

8(a) Depth of the Dug well/Tube well (in meters)	<p>(i) Item 8(a)>0 and Item 8(a)<=999.99.</p> <p>(ii) If code in item 3.2 is 1, then Item 8(a) <=35.</p> <p>(iii) If code in item 3.2 is 2, then Item 8 (a) >35 and <=70</p> <p>(iv) If code in item 3.2 is 3, then Item 8(a) >70.</p>	<p>(i) If code 1 in item 2, show warning if value >50.</p> <p>(ii) If code 2 in item 2, show warning if value is >150.</p>
8(b) Diameter (unit in meters for dug well and millimeters for tube well)		If code is 1 in item 2, then show warning if value is >20.
8(c) Depth of Bore (in meters) in case of dug-cum-bore well	Item 8 (c) is >0.	Show warning if value is >150
8(d) Distance of nearest dugwell/Tube-well (in meters)	Item 8(d)>0 and Item 8(d)<999.99	Show warning if value is >500
9. (a) Cost of Construction (Rs.)	Item 9(a)>=0 and Item 9(a)<=9999999	<p>(i) If code is 1 in item 2 then show warning when the value is more than 2,00,000.</p> <p>(ii) If code is 1 or 2 in item 3.2, then Show the warning when value is more than 1,00,000.</p> <p>(iii) If code is 3 in item 3.2,show warning if value is >5,00,000.</p>
9. (b) Cost of Machinery (Rs.)	Item 9(b)>=0 and Item 9(b)<=9999999	<p>(i) If code is 1 in item 2 then show warning when the value is more than 2,00,000.</p> <p>(ii) If code is 1 or 2 in item 3.2, then Show the warning when value is more than 1,00,000.</p> <p>(iii) If code is 3 in item 3.2,show warning if value is >5,00,000.</p>
9. (c) Cost of maintenance during (2017-18) (Rs.)	Item 9(c)>=0 and Item 9(c)<=9999999 and Item 9(c)<= Item 9(a)	(i) If code is 1 in item 2 then show warning when the value is more than 1,00,000.

		<p>(ii) If code is 1 or 2 in item 3.2, then Show the warning when value is more than 1,00,000.</p> <p>(iii) If code is 3 in item 3.2, show warning if value is >2,00,000.</p>
10(a) Major Source of finance	Valid codes are 1,2,3,4 and 9.	No error message even if only one code is given.
10(b)(i) If any subsidy / assistance provided by Govt. / PSU, amount for construction	Item 10(b)(i) ≥ 0 and Item 10(b)(i) \leq item 9(a)	If no subsidy/ assistance provided 'zero' is to be entered, and in case the item is kept blank, a message box showing 'in case no subsidy/ assistance is provided, please enter zero' may be shown
10 b(ii) If any subsidy/assistance provided by Govt./PSU for cost of machinery/ distribution device (Rs.)	Item 10(b)(ii) ≥ 0 and 10(b)(ii) \leq item 9(b)	
11 (a) Current status of Scheme	<p>(i) The valid codes are 1,2 or 3.</p> <p>(ii) if code is 1 in tem 11(a), disable item 11(b), 12 and 13.</p> <p>(iii) if code is 2 in item 11(a), disable item 13 and 32.</p> <p>(iv) if code is 3 in item 11(a), items 12, 14, 15, 16,17, 18,19, 27, 28,29,30,31,32 to be disabled.</p>	
11(b) If not in use (years)	<p>(i) If Item 11(a) value is 2 then Item 11(b) should be ≤ 2</p> <p>(ii) If item 11 (a) code is 3 then item 11(b) should be ≤ 6</p>	
12. Reason code for Temporarily "not in use" Scheme	Valid codes are 1, 2, 3, 4, 5 and 9.	
13. Reason code for Permanently "not in use" Scheme	Valid codes are 1,2,3,4,5,6 and 9.	

14. Method used for Water distribution	Valid codes are 1,2,3,4,5,6 and 9.	
15. Type of lifting device)	(i) Valid codes are 1,2,3,4 and 9 (ii) If code is 4 in item 15, disable items 17,18 and 19.	
16. Source of energy for lifting device	(i) Valid codes are 1,2,3,4,5 and 9 (ii) If code is 4 in item 15 then code in item 16 should be 5.	
17. Horse Power of lifting device	(i) Value should be >0. (ii) If code is 3 in item 3.2 then value in item 17 should be >= 5HP.	Show warning where horse power is more than 30.
18 Number of days pump operated.	Value is >= 0.	
19 Average hours of pumping per day	Information in this item to be reported only when item 18 is >0 in corresponding season.	Item should be between 0 to 24
20(a) Location of scheme	(i) Valid code is either 1 or 2. (ii) Disable item 20(b) if code is 1 in item 20(a).	
20(b)(i) and (ii): Name of Command area and Reason for scheme in command area	For 20(b)(ii) Valid codes are 1, 2, 3 and 9.	
20 (c)Whether the scheme is meant only for re-charge of ground water	(i) Valid code is either 1 or 2. (ii) If code is 1 then disable items 21 to 31.	If code 1 is entered, show the warning message “Are you sure this scheme is meant for recharge of Ground water only”?
21 Culturable Command Area (CCA)	The Value should be <= 2000 hectares.	Show warning when CCA is more than 100.
22 IPC Kharif	Item 22 >= 0 and Item 22 <= Item 21	
23 IPC Rabi	Item 23 >= 0 and Item 23<= Item 21	
24 IPC Perennial	(i) Item 24 >= 0 and Item 24<= Item 21. (ii) Item 22 + Item 24 <= Item 21. (iii) Item 23 + Item 24 <= Item 21 and (iv) Item 25 + Item 24 <= Item 21	
25 IPC Other	Item 25 >= 0 and Item 25<= Item 21	

26 IPC Total	(i) Item 26= sum (22+23+24+25) and (ii) Item 26 >=item 21	
27 IPU Kharif	Item 27 >=0 and Item 27 <= Item 22	
28 IPU Rabi	Item 28 >=0 and Item 28 <= Item 23	
29 IPU Perennial	Item 29 >=0 and Item 29 <= Item 24	
30 IPU Other	Item 30 >=0 and Item 30 <= Item 25	
31 IPU Total	Item 31 = Sum(27+28+29+30)	
32 (i) Whether the scheme is under utilised (Only for in-use Scheme)	(i) Valid code is either 1 or 2. (ii) If code is 2 in item 32(i), disable item 32(ii).	
32(ii) Reasons for under utilistion	The valid code are 1,2,3,4,5,9	
33. MI Scheme used for Drinking Water Purpose?	Valid Codes are 1 and 2	

Validation Check for Surface Water Schedule

Item/ Field	Validation check	Other check
1. Serial no. of the scheme	Should be unique and greater than zero	Submission of schedule will not be allowed without Serial Number
2. Type of Scheme	(i) Valid code is 1 or 2. (ii) If code is 1 then disable items 3.2, 14, 15, 16, 17, 18. (iii) If code is 2 then disable item 3.1.	
3.1 Nature of Surface Flow Scheme	(i) Valid codes are 1, 2, 3, 4, 5, 6, 7 and 9. (ii) If code is 4,5,6,7,9 in item 3.1 then disable items 33(a),33(b) and 33(c).	
3.2 Nature of Surface Lift Scheme	(i) Valid codes are 1, 2, 3, 4 and 9. (ii) If code is 1,2,3,9 in item 3.2 then disable items 33(a),33(b) and 33(c).	
4. Ownership code	(i) Valid codes are 1,2,3,4,5 and 9 (ii) Disable items 6(a), 6(b), 6(c) and item 9(a) if code is 1/2/3/4 or 9 in item 4.	
5. Khasra number/ plot number		
6. (a) Total holding of Owner	Item 6(a) >=0 and item 6(a) <= 9999.999	Show the warning when value is (i) equal to “0” or (ii) More than 100.000
6. (b) Social Status of Owner	Valid codes are 1,2,3 and 9	
6. (c) Gender of Owner	Valid codes are 1,2 and 3.	
7. Year of Commissioning of the Scheme	Valid codes are 1,2,3,4,5.	.
8. (a) Cost of Construction (Rs.)	Item 8(a)>=0 and Item 8(a)<= 9999999	(i) If code is 1, in item 2 then show warning where the value is more than 10,00,000. (ii) If code is 2, in item 2 then show warning where the value is more than 2,00,000.
8. (b) Cost of Machinery (Rs.)	Item 8(b)>=0 and Item 8(b)<= 9999999	(i) If code is 1, in item 2, then show warning where the value is more than 1,00,000.

		(ii) If code is 2, in item 2 then show warning where the value is more than 2,00,000.
8. (c) Cost of maintenance during (2022-23) (Rs.)	Item 8(c)>=0 and Item 8(c)<= 9999999	Show warning when (i) the value is more than 1,00,000. (ii) Item 8(c) <= Item 8(a) (Updated in meeting held on 30-09-2020)
9(a) Major Source of finance	Valid codes are 1,2,3,4 and 9.	No error message even if only one code is given.
9(b)(i) If any subsidy / assistance provided by Govt. / PSU, amount for construction	Item 9(b)(i) >=0 and Item 9(b)(i)<= item 8(a)	If no subsidy/ assistance provided 'zero' is to be entered, and in case the item is kept blank, a message box showing 'in case no subsidy/ assistance is provided, please enter zero' may be shown.
9 b(ii) If any subsidy/assistance provided by Govt./PSU for cost of machinery/ distribution device (Rs.)	Item 9(b)(ii) >=0 and 9(b)(ii)<= item 8(b)	
10 (a) Current status of Scheme	(i) The valid codes are 1,2 or 3. (ii) If code is 1 in item 10(a) then disable item 10(b), 11 and 12. (iii) If code is 2 in item 10(a) then item 12 and 31 to be disabled. (iv) If code is 3 in item 10(a) then items 11, 13, 14, 15, 16, 17, 18, 26, 27, 28, 29, 30, 31 to be disabled.	
10(b) If not in use (years)	If item 10(a) value is 2 then Item 10(b) should be <=2. If Item 10(a) value is 3 then Item 10(b) should be <=6	
11. Reason code for Temporarily "not in use" Scheme	Valid codes are 1, 2, 3, 4, 5,6,7 and 9.	
12. Reason code for Permanently "not in use" Scheme	Valid codes are 1,2,3,4,5,6,7 and 9.	
13. Method used for water distribution	Valid codes are 1, 2, 3, 4, 5, 6 and 9.	
14. Type of lifting device	(i) Valid codes are 1,2,3,4 and 9.	

	(ii) If code is 4 in item 14, disable item 16,17 and 18.	
15. Source of energy for lifting device	(i) Valid codes are 1,2,3,4,5 and 9. (ii) If code is 4 in item 14 then code should be 5 in item 15.	
16. Horse Power of lifting device	Value is >0	Show warning when horse power is more than 10
17 Number of days pump operated.	Value is >= 0	
18 Average hours of pumping per day	Information in this item to be reported only when item 17 is >0 in corresponding season.	
19(a) Location of scheme	(i) Valid code is either 1 or 2. (ii) Disable item 19(b) if code is 1 in item 19(a).	
19(b)(i) and (ii) : Name of command area and reason for scheme in command area	For 19 (b) (ii) Valid codes are 1, 2, 3 and 9.	
19 (c)Whether the scheme is meant only for re-charge of ground water	(i) The valid code is either 1 or 2. (ii) If code is 1, then disable items 20 to 30.	If code 1 is entered, show the warning message “Are you sure this scheme is meant for recharge of Ground water only”?
20 Culturable Command Area (CCA)	The Value should be <= 2000 hectares.	(i) If code is 1 in item 2, show warning if CCA is >500. (ii) If code is 2 in item 2, show warning if CCA is >100.
21 IPC Kharif	Item 21 >= 0 and Item 21 <= Item 20	
22 IPC Rabi	Item 22 >= 0 and Item 22<= Item 20	
23 IPC Perennial	(i) Item 23 >= 0 and Item 23<= Item 20. (ii) Item 21 + Item 23 <= Item 20. (iii) Item 22+ Item 23 <= Item 20 and (iv) Item 24 + Item 23 <= Item 20	
24 IPC Other	Item 24 >= 0 and Item 24<= Item 20	
25 IPC Total	(i) Item 25 = sum (21+22+23+24) and (ii) Item 25 >=item 20	

26 IPU Kharif	Item 26 ≥ 0 and Item 26 \leq Item 21	
27 IPU Rabi	Item 27 ≥ 0 and Item 27 \leq Item 22	
28 IPU Perennial	Item 28 ≥ 0 and Item 28 \leq Item 23	
29 IPU Other	Item 29 ≥ 0 and Item 29 \leq Item 24	
30 IPU Total	Item 30 = Sum (26+27+28+29)	
31 (i) Whether the scheme is under utilised (Only for in-use Scheme)	(i) Valid code is either 1 or 2. (ii) If code is 2 in item 31(i), disable item 31(ii).	
31(ii) Reasons for under utilisation	The valid code are 1,2,3,4,5,6 and 9	
32.Number of villages covered by the scheme	Value is ≥ 1	
33(a) Designed storage in cubic meters	Value is >0	
33(b)Filled up storage (during 2017-2018)	Valid codes are 1,2,3,4,5	
33(c) Status of filling up of storage (based on last 5 years)	Valid codes are 1,2,3,4	
34(a) 21 Digit water body sl. No.	Each field should has value ≥ 0	This item is optional only in the case of surface lift schemes
34(b) Total number of schemes in the village in the water body	Value ≥ 0	This item is optional only in the case of surface lift schemes
34(c) Serial number of the scheme within village in the water body.	Value should be \leq item 34(b)	This item is optional only in the case of surface lift schemes
35. MI Scheme being used for Drinking Water Purpose?	Valid Codes are 1, 2	

Validation Check for Schedule of 2nd Census of Water Bodies

Item/ Field	Validation check	Other check
Serial no. of water body in village/ town	Should be >0	
Unique Identification key	No box should be blank.	
1.1(a) Name of water body.		
1.1(b) Name of Basin & Sub-basin		
1.2(a): Type of water body	(i) The valid codes are 1,2,3,4,5 and 9. (ii) If code is 1,2,3,4,5,disable item 1.2(b).	
1.2(b): If other, the nature of storage		
1.3 Khasra number/plot no. etc		
2. Latitude	No box should be blank.	
3.Longitude	No box should be blank.	
4. Location of water body	Valid codes are 1,2,3,4,5 and 9	
5.Ownership code	(i) The valid codes are 1,2,3,4,5,6,7 and 9. (ii) If code is 6 in item 5, disable items 20(1) and 20(2).	.
6(1). Whether Water body is in use	(i) Valid code is either 1 or 2. (ii) If code is 1, disable item 6(4). (iii) If code is 2, disable item 6(2) & item 6(3).	
6(2). If in use, uses	(i) Valid codes are 1,2,3,4,5,6,7,8 and 9. (ii) If code 1 is not given in any box in item 6(2), disable item 6(3).	No error message even if only one code is given
6(3). If Water body is in use for Irrigation, CCA and IPC of water body	(i) Value for CCA and IPC is >0. (ii) IPC >= CCA	Show warning , if code is 6 in item 5 and IPC is >100
6(4). If not in use, reason	Valid codes are 1,2,3,4,5,6 and 9	

7(1). Type of water body by nature	(i) Valid code is either 1 or 2. (ii) If code is 1, disable item 7.2 and item 8.	
7(2). If man made the type	Valid codes are 1, 2, 3 and 9.	
8. Year of construction and original cost (Only for manmade)	(i) Value of year should be in four digits. (ii) 1500<year<2023 (iii) Value for original cost should be >=0.	Show warning if ownership code in item 5 is 6/7/9 and the value for original cost is > 1, 00,00,000.
9. Year of renovation/ repair	(i) If there is positive entry in year of repair/renovation then the cost of last repair should be >0. (ii) Value in 'year' > value of 'year' in item no. 8 (iii) 1500<year<2023	Show warning if ownership code in item 5 is 6/7/9 and the value for cost of repair is > 10, 00,000.
10. Whether, water body is under repair/ renovation/ restoration	(i) Valid code is either 1 or 2. (ii) If code is 2 in item 10 disable items 10(1), 10(2),10(3),10(4),10(5) and 10(6). (iii) For item 10(2) the year should be in four digits. (iv) For item 10(3) the year should be in four digits and item 10(3)>= item 10(2).	(i) Show warning if ownership code in item 5 is 6/7/9 and value is more than 10,00,000 in item 10(4). (ii) Show warning if ownership code in item 5 is 6/7/ 9 and value is more than 2000 hectares in item 10(5) and item 10(6).
11(1).Whether, water body associated with central scheme	(i) Valid code is either 1 or 2. (ii) If code is 2 in item 11(1) disable item 10(2)	
11(2).Name of Central Scheme	Valid codes are 1, 2, and 3.	
12(1). Does Water Body contains water throughout the year	(i) Valid code is either 1 or 2. (ii) If code is 1 in item 12(1) disable item 12(2)	
12(2).Number of months Water Body contains the water	Valid codes are 1, 2, and 3.	
13. Water spread area of water body	Should be >=0	Show warning, if value is >50
13(1). Water spread area of water body during current year	Should be >=0	
13(2). Maximum water spread area	Should be >=0	

13(3). Minimum water spread area	Should be ≥ 0	
14. Max. depth of water body		Show warning, if value is >100
15. Storage capacity of water body in thousand cu. meter	If code in item 1.2(a) is 1/2/3/4 then value should be >0	
16. Filled up storage during 2023-24	If code in item 1.2(a) is 1/2/3/4 then valid codes are 1,2,3,4 and 5	
17. Whether silt is present in the water body which is reducing its capacity	valid codes are 1,2	
18. Status of filling up of storage space	If code in item 1.2(a) is 1/2/3/4 then valid codes are 1,2,3 and 4	
19(1). Number of cities/ towns/ villages benefitted	If item 6(1) code is 1, the value should be ≥ 0	(i) Show warning, if value is >10 for Towns. (ii) Show warning, if value is $> "100"$ for Village.
19(2). Number of people directly benefited by water body	If item 6(1) code is 1, the value is ≥ 0	
20(1). Whether water users association is formed	(i) Valid codes are 1, 2 and 3. (ii) If code is 2 or 3, disable item 20(2).	
20(2) If Yes in item 17(1)	(i) Valid code is either 1 or 2 in 20(2)(a). (ii) For item 20(2)(b) the value is >0	
21. Whether water body is included in DIP/SIP plan	Codes are either 1 or 2	
22(1). Whether any area of water body is encroached	(i) Valid code is either 1 or 2. (ii) If code in 22(1) is 2, disable 22(2) and 22(3).	
22(2).can extent of encroachment be assessed	(i) Valid code is either 1 or 2. (ii) If code is 2, disable item 22(3).	
22(3).approximate percentage of area encroached	Value should be >0	
23. whether water body is standalone or connected	Valid code is either 1 or 2. If code is 1, disable item 23(1).	

23(1) If connected, number of connected water bodies	Value should be >0	
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PROVISION OF FUND

As a token of appreciation of work entrusted to various officials in addition to their normal duties and not as compensation or remuneration for additional work, the officials who would be involved in field work, scrutiny, inspection of field work and schedules at the District/Block/village levels shall be paid suitable honorarium which will be drawn from the grants released to the States/UTs by the Department of Water Resources, RD & GR for the 7th Minor Irrigation and 2nd Census of Water Bodies. The rates of grant towards honorarium have been decided as below for different administrative levels for primary and supervisory work. The honorarium for each District and Block is fixed and it is expected that only one officer from each District and Block would go to the field for physical verification of the filled-in schedules.

Enhancement of Rates of Honorarium: In the 7th MI Census and 2nd Census of Water Bodies, rates of honorarium for coordination, supervision and conduct of the field work shall be as under:

7th MI Census

S.No	Item	Rate (in Rs.)
A	Honorarium	
1	Field Allowance per Village for enumerator (Maximum)	900
2 (i)	Patwari Allowance per Village	300
2 (ii)	Per Block	3170
2 (iii)	Per District	6480
3	State/UT	
3 (i)	Per Large State /UT(i.e. States with number of MI schemes \geq 15,000 as per 5th MI Census as per Annexure)	18000
3 (ii)	Per Small State/UT(i.e. States with number of MI schemes $<$ 15,000 as per 5th MI Census as per Annexure)	12000
4	Scrutiny per village for 35% schemes and 100% village schedule	360

B	Printing cost of user manual per 10 village	20
C	Contingency per Village	290
D	Computerisation cost per schedule (maximum including validation)	3

2nd census of water bodies

S.No	Item	Rate (in Rs.)
A	Honorarium	
1	Field Allowance per Village for enumerator (Maximum)	720
2	Per Block	960
3	Per District	1320
4	State/UT	3600
5	Scrutiny per village for 35% water bodies schedule	120
B	Contingency per Village	90
C	Computerisation cost per water body schedule (maximum including validation)	3

Honorarium rates for the use of the personal mobile devices of the field functionaries for capturing the data of 7th MI Census and 2nd Census of water bodies will be Rs. 750/- per village. However, if any State/UT wishes to take mobile handsets on rent basis, flexibility of doing so will be allowed subject to the condition that the total cost should not exceed the allocation mentioned as above.

Provision of Rs. 5,00,000/- per State has been kept towards cost of purchasing computer, printer etc. for carrying out the census related work only.

In addition, 20% of total cost of 2nd Census of Water bodies has been earmarked towards fieldwork, printing cost of user manuals and data validation costs, scrutiny, supervision, inspection, coordination at State level, contingency expenditure etc. for urban areas.

Contingency amount is to be spent on

- i. Providing State/ district level trainings to enumerators and supervisors,
- ii. advertisement for MI Census, publicity etc.,

- iii. transportation to be used by the Central and Statistical cell teams only for supervisory work during the census.(The expenditure on transport should not be more than 2% of the total contingency amount for the States except Kerala where it should not be more than 15% of the total contingency fund, as per practice followed in XII Plan). Facility of vehicles is applicable to entitled officers at State Headquarters only. Hiring of vehicles for field visits by District/Tehsil/non-entitled Headquarter officials is not permitted. Funds provided under the Contingency head may be used for this purpose.
- iv. Providing training honorarium to the District level officers, who would provide training to the enumerators and Block level supervisors maximum upto @ Rs. 1650/- per day including transport
- v. Providing Rs 165/ enumerator/ Block officer as TA , DA for attending the training and
- vi. any other unforeseen miscellaneous expenditure of contingent nature which may arise during the conduct of the Census, subject to ceiling of total contingency expenditure sanctioned for the State/UT for 7th MI Census. Contingency amount Rs. 90/- per village for 2ndCensus of Water bodies has been provided, as training, field work etc. of Census of Water bodies will be carried out in convergence with 7th MI Census.
- vii. Also, where the sanctioned posts are not filled up or lying vacant for a long time due to various administrative reasons, temporary staff may be engaged on contract/deputation basis as per the rules admissible under the respective States/UTs against the vacant posts.

Field allowance: Rs. 900/- as maximum Field allowance per village for 7th MI Census is flexible and to be fixed by the States/UTs keeping in view the number of MI schemes, the distance and terrain in their States. Similarly, Rs. 720 per village as maximum Field allowance per village for 2ndCensus of Water Bodies is flexible and to be fixed by the States/UTs keeping in view the approximate number of water bodies, the distance and terrain in their States. The field allowance is flexible and to be fixed by the States/UT after due deliberations keeping in view the no. of schemes, the distances and terrain in their states. For example:

- In a State with normal terrain, if there is large variation in the number of schemes in various regions of the State, the State may decide to give Rs. 470 for villages with < 50 schemes, Rs. 625 for villages with schemes > 50 but < 100, Rs. 780 for villages with Schemes > 100 but < 300 and Rs. 900 for villages with schemes > 300.

- In a hilly State where number of schemes are less and terrain is uniform Rs 470 for villages with schemes < 10, Rs 625 for villages with schemes > 10 and < 20, Rs. 780 for villages with schemes > 20 but < 50 and Rs. 900 for villages with schemes > 50.
- In plains/hills where distances between schemes is large and schemes are few Rs. 900 can be kept per village even when number of schemes is less.
- For Census of Water body schedules i.e. Rs. 375 for villages with < 5 water bodies, Rs. 500 for villages with water bodies > 5 but < 10, Rs. 625 for villages with water bodies > 10 but < 30 and Rs. 720 for villages with water bodies > 30.
- In the Census of urban water bodies, the equivalent geographical area corresponding to 'village' may be ward or Group of wards or town. The size of wards varies from State to State or within the State. So the decision regarding the rate of honorarium per ward or Group of wards or town in a State is left to the State Government subject to a maximum of Rs.720/- prescribed for a village. The State may decide to give Rs.125/- for a small ward, Rs.500/- for a group of 5 to 10 wards or Rs.720/- for a small town, the maximum limit being Rs.720/-.

The rates of honorarium for 35% scrutiny will be Rs.120/- maximum per ward/group of wards/town as decided by State Government. Similarly, the contingency per ward/group of wards/town would be limited to a maximum of Rs.90/-.

However, while working out the rate of honorarium, scrutiny and contingency for the conduct of Census of Water Bodies in urban areas, care should be taken that the total cost of conducting the Census of Water Bodies in urban areas (i.e. field work, scrutiny, supervision, inspection, coordination at State level, contingency, printing cost of schedules and validation costs) does not exceed 20% of the total cost (i.e. Rural + Urban) of conduct of 2nd Census of Water Bodies in the State.

Patwari Allowance: Rs.300/- is kept for Patwari who will canvass the village schedule and provide necessary assistance to the enumerator for data collection for both Census in the village. This would be handed over to Patwari immediately after he submits his form.

Funds will be released to State through Single Nodal Agency (SNA) route following the procedures/instructions related to SNA issued by Department of Expenditure, Ministry of Finance. As per these instructions, not more than 25% of the amount earmarked for a state for a CSS for the financial year can be released in the beginning of a financial year. Additional central share (not more than 25% of annual grant at a time) will be released upon utilization of at least 75% of the funds released earlier and compliance of the conditions of previous sanction.

Further, the releases to the States/UTs will also depend on the Stage of completion of Census activities. States/UTs will be eligible for 25% of the total estimated cost in advance for initiating work relating to 7th Minor Irrigation Census and 2nd Census of water bodies, next 25 %, after completion of preparatory work including ensuring readiness of tools/technologies/equipments, completion of field trainings, & start of primary enumeration/field work on ground, next 25% after completion of fieldwork & balance 25% after completion of data validation and receipt of final comments of States/UTs on observations of the Ministry on the Census data. The total grant to States /UTs shall be regulated as per the norms reported in above paras. In addition, grants-in-aid will be provided to host States/UTs for organizing Regional Training Workshops & Data Processing Workshops on behalf of the Ministry, for publication State/UT level Census reports and for meeting balance expenditure of 6th MI Census and 1st census of water bodies. The total grant of the Census for both 7th MI Census and 2nd Census of Water Bodies for each State/UT, has been estimated based on the currently available information and may be revised based on the total work done. State shall submit detailed work plan for both Census along with time lines for completion of each stage of Census, at the time of submission of proposal for first installment.

MOBILE SPECIFICATIONS

For data collection, the specifications of the mobile phones to be used are as follows:

1. Android version should be above 8
2. Minimum storage should be 128 GB
3. RAM should be minimum 6 GB
4. ROM should be minimum 128 GB
5. Battery should be minimum 5000 MaH