NMDS for format for MI Census based on 7th MI Census

Item No	Concept name	Definition	Guidelines
1	**Contact**		
1.1	Contact Organisation	Organisation of the contact point(s) for the data or metadata.	Department of Water Resources, RD & GR. Ministry of Jal Shakti
1.2	Compiling agency	Organisation collecting and/or elaborating the data being reported	Minor Irrigation Statistics Wing, Department of Water Resources, RD & GR, Ministry of Jal Shakti
1.3	Custodian agency	Refers to an institution or agency which has responsibility of managing use, disclosure and protection of data/statistics.	Minor Irrigation Statistics Wing, Department of Water Resources, RD & GR, Ministry of Jal Shakti
1.4	Contact Details	The details of the contact points for the data or metadata.	Deputy Director General, Minor Irrigation Statistics Wing, Department of Water Resources, RD & GR, Ministry of Jal Shakti Phone:011-24699496, Email: priyanka.kulshreshtha@nic.in NIC, Department of Water Resources, RD & GR, Ministry of Jal Shakti
2	**Data Description and Presentation**	**Description of the disseminated data which can be displayed to users as tables, graphs or maps**	

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2.1	Data description	Metadata element describing the main characteristics of the Data Set in an easily understandable manner, referring to the main data and indicators disseminated.	Minor Irrigation Census broadly covers Irrigation schemes using either ground water or surface water and having a Culturable Command Area up to 2000 hectare individually. The schemes have been categorized broadly into six major types; (1) Dugwell (2) Shallow tubewell (3) Medium Tubewell (4) Deep tubewell (5) Surface flow schemes and (6) Surface lift schemes. It provides comprehensive information relating to irrigation schemes, Culturable Command Area (CCA), Irrigation Potential Created (IPC), Irrigation Potential Used (IPU), ownership, social status of the owner, and water distribution devices etc.
2.2	System of Classification	Arrangement or division of objects into groups based on characteristics which the objects have in common	Village/block level/district/state wise data Rural/Urban wise data
2.3	International/ National Standards Classification etc.	An international statistical standard is an internationally agreed statistical macro-socio-economic output framework or a cross-functional framework. International/ National standard classification, is the primary tool for collecting and presenting internationally/nationally comparable	NA

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		statistics by economic activity.	
2.4	Sector coverage	Description of sectors covered by the statistics.	An irrigation scheme having culturable command area (CCA) up to 2000 hectare is classified as minor irrigation scheme in India. Types of minor irrigation scheme include dug well, shallow tube well, medium tube well, deep tube well, surface flow irrigation scheme and surface lift irrigation scheme.
2.5	Concepts and definitions	Characteristics of statistical observations, or variables used	Culturable Command Area (CCA), Irrigation Potential Created (IPC), Irrigation Potential Used (IPU), ownership, social status of the owner, and water distribution devices etc. For details of concepts and definitions including major variables used in the Census, the Instruction Manual for Minor Irrigation census may be referred to.
2.6	Unit of compilation	Entity for which information is sought and for which statistics are ultimately compiled.	The primary unit of enumeration in the survey is an irrigation scheme.
2.7	Population coverage	Definition of the main types of population covered by the statistics or variables	The frame consists of all irrigation schemes existing in the State/UT
2.8	Reference Period	Timespan or point in time to which the measured observation is intended to refer.	Reference period for 7th MI Census was 2023-24 agricultural year.
2.9	Duration and period of enumeration	Duration of enumeration refers to the time taken to conduct the enumeration process of all nature.	The enumeration period was 2025-26
2.10	Sample	Sample size is	Complete enumeration was adopted all irrigation

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	size/Dataset Size	the number of observations or individuals included in a study or experiment.	schemes exiting in states were covered.
2.11	Data Confidentiality	Rules applied for treating the datasets to ensure statistical confidentiality and prevent unauthorised disclosure.	The data does not contain any confidential information.
3	**Institutional Mandate**	**Law, set of rules or other formal set of instructions assigning responsibility as well as the authority to an organisation for the collection, processing, and dissemination of statistics**	
3.1	Legal acts and other agreements	Legal acts or other formal or informal agreements that assign responsibility as well as the authority to an Agency for the collection, processing, and dissemination of statistics.	No Act/Rules
3.2	Data sharing/Data Dissemination	Exchange of data and/or metadata in a situation involving the use of open, freely available data formats and where process patterns are known and standard. Regular or *ad hoc* publications in which the data are made	1) Unit level data through OGD Platform https://www.data.gov.in/catalog/7th-minor-irrigation-census-village-schedule-ground-water-schemes-surface-water-schemes 2) Reports and tables through MI Census Website of the Ministry https://mowr.nic.in/irrigationcensus/

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		available to the public.	
3.3	Release calendar	Schedule of release dates.	As per the target date fixed by the Ministry
3.4	Frequency of dissemination	The time interval at which the statistics are disseminated over a given time period.	Five yearly
3.5	Data access	The conditions and modalities by which users can access, use and interpret data. Statistics should be easy to find and obtain, presented clearly and in a way that can be understood, and available and accessible to all users in line with open data standards.	Minor Irrigation Census data are available in the OGD platform. https://www.data.gov.in/catalog/7th-minor-irrigation-census-village-schedule-ground-water-schemes-surface-water-schemes For easy access of users, following details should also be mentioned about the dataset: **Title:** 7th Minor Irrigation Census - Village Schedule, Ground Water Schemes, Surface Water Schemes **Dataset Edition:** Final **Dataset Reference data type:** Unit level data of Minor Irrigation Census can be downloaded/exported to different format as per the standard statistical software available such as .csv, .xml, .xls. .ODS etc. **Presentation Format:** Unit level data as per specified data structure **Dataset Language:** English **Status/Version:** NA
4	**Quality Management**	**Systems and frameworks in place within an organisation to manage the quality of statistical products and processes.**	
4.1	Documentation on methodology	Descriptive text and references to methodological documents available.	Concepts, definitions and methodologies adopted for Minor Irrigation Census are available in the published Reports and Manual. Published reports may be seen at the following link: https://mowr.nic.in/irrigationcensus/

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4.2	Quality documentation	Documentation on procedures applied for quality management and quality assessment.	To ensure quality, monitoring is ensured at each step the of survey including field inspection, scrutiny, validation, checking for consistency of the tables, etc. Scrutiny and Validation checks points are enabled in the mobile and web app.
4.3	Quality assurance	Guidelines focusing on quality in general and dealing with quality of statistical programmes, including measures for ensuring the efficient use of resources.	Regional training workshops on concepts, definitions, data entry in the module etc. are provided to the States/UTs for data processing. Number of validation check points have been embedded in the mobile application and web application to ensure data quality. Apart from that, multi-layer scrutiny is carried out at different levels in the State Government for ensuring data quality.
5	**Accuracy and Reliability**	**Statistics should accurately and reliably portray reality. Accuracy of data is the closeness of computations or estimates to the exact or true values that the statistics were intended to measure. Reliability of the data, defined as the closeness of the initial estimated value to the subsequent estimated value.**	
5.1	Sampling error	That part of the difference between a population value and an estimate thereof, derived from a random sample, which is due to the fact that only a subset of the population is enumerated.	Not applicable
5.2	Measures of reliability	Reliability refers to the consistency of a measure.	Not applicable
6	**Timeliness**	**Statistics should be made available to users with the shortest delay possible and be delivered on the promised, advertised or announced dates. The timeliness of the data collection release to be compiled.**	

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6.1	Timeliness	Length of time between data availability and the event or phenomenon they describe.	Data collection period: 2025-26 Data Validation Period:2025-26 Release of data /report period: Mar 2026
7	**Coherence and Comparability**	**Coherence is the degree to which data that are derived from different sources or methods, but refer to the same topic, are similar. Comparability is the degree to which data can be compared over time and domain**	
7.1	Comparability – over time	Extent to which differences between statistics can be attributed to differences between the true values of the statistical characteristics.	Minor Irrigation Census data are broadly comparable over time.
7.2	Coherence	Extent to which statistics are reconcilable with those obtained through other Data Sources or statistical domains.	Not applicable
8	**Data Processing**	**Any processing undertaken to finalise the data**	

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8.1	Source data type	Characteristics and components of the raw statistical data used for compiling statistical aggregates.	Census data
8.2	Frequency of data collection	Time interval at which the source data are collected.	Five yearly
8.3	Mode and method of data collection	The different combinations of data collection modes, pre-contact and follow-up modes. Method applied for gathering data for official statistics	Minor irrigation census through a detailed questionnaire. Several validation/scrutiny rules are embedded in the data entry module and at tabulation level. These checks include code check, value/content check, inter and intra-block consistency checks etc. • The questionnaire can be accessed at https://mowr.nic.in/irrigationcensus/Documents/MI-Census/Schedules/7-MI-Schedule-English.pdf

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8.4	Data validation	Process of monitoring the results of data compilation and ensuring the quality of the statistical results.	Content checks, coverage checks, inter block and intra block consistency checks, howler checks, etc. are done. Aggregate output data are compared with previous years' data.
8.5	Data compilation	Operations performed on data to derive new information according to a given set of rules.	No applicable

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8.6	Data identifier(s)	The unique identifier for an administered item within a registration authority.	LGD codes serve as the unique identifiers in the census. For villages for which LGD codes were not available, provisional pseudo-codes were assigned.
9	**Metadata Update**	**The date on which the metadata element was inserted or modified in the database.**	
9.1	Metadata last posted	Date of the latest dissemination of the metadata	30.04.2026

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9.2	Metadata last update	Date of last update of the content of the metadata.	05.05.2026