

Metadata & Data Standards for Rural Drinking Water and Sanitation

Ministry of Drinking Water & Sanitation

MDDS – RDWS : 01
Version 1.0
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Metadata of MDDS-RDWS

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S.No.	Data elements	Values
13.	Target Audience	<ul style="list-style-type: none"> - All stakeholders in central and state govt. as well as any other organization involved in design, development and implementation of e-Governance solutions in the drinking water and sanitation domain - Administrators - Service providers - Disaster Management Groups - Academia / Researchers - NGOs
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Amendments Log

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MDDS–MoDWS:01 Version : 0.1 July 2015	Apex Committee review comments (section 11)	MDDS–RDWS:01 Version : 1.0 September 2016	<p>4.1 – Modified 15.006- Added 15.006.005 (Version No) and 15.006.006 (Date of last update)</p> <p>4.2 – Same as above</p> <p>4.3 – Same as above</p> <p>4.4 – Added data element 15.009.006- Programme_InitiatorName</p> <p>4.10 – Modified 15.019 – Added 4-Institutional Use in Data Element 15.015.004</p> <p>4.14 – Modified 15.019 – Specified max size (p) in data element 15.019.002</p> <p>4.15 – Modified 15.020 – Specified max size(p) in data element 15.020.005</p> <p>4.16 – Modified 15.021 - Specified max size (p) in data element 15.021.003</p> <p>5.2 – Definition modified for Edu_inst_type (15.002.003)</p> <p>5.4 – Modified 15.004.003 - Max Size increased to 250</p> <p>6.4 – Added metadata of 15.009.006</p>

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			<p>6.9 - Specified max size (p) in data element 15.015.001</p> <p>6.10 – Modified Metadata of 15.015.004 (Supply_To)</p> <p>6.14 – Modified Metadata of 15.019.002 (Water_TreatmentPlant_ID)</p> <p>6.15 - Specified max size (p) in data element 15.020.005</p> <p>6.16 - Specified max size (p) in data element 15.021.003</p> <p>11- Added Review Comments of Apex committee and compliance</p>

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1. Introduction

- 1.1. The Government of India has launched the Digital India programme with the intent to support the growth of e-Governance and improved delivery of services within the country. The programme envisages creation of right environments to implement G2G, G2B, G2E, and G2C services.
- 1.2. The Ministry of Electronics and Information Technology (MeitY), Government of India (GoI) is driving the Digital India programme which seeks to create the right governance and institutional mechanisms for ensuring that the government services are made available to citizens electronically by leveraging technology and improving online infrastructure. To achieve this, standards in e-Governance have to be defined, which will help ensure sharing of information and seamless interoperability of data across the various government departments and their e-Governance applications.
- 1.3. Semantic interoperability among e-Governance applications requires that precise meaning of exchanged information is understood across applications. There is a need for commonly accepted definitions / data definitions for the various elements used in Governance systems. Hence, Standardization of data entities / their attributes (data elements¹) is the prerequisite for systematic development of e-Governance applications. This document is an attempt towards integration of the various e-governance applications being used in the Rural Drinking Water and Sanitation domain. It is the first published, Standards for the Rural Drinking Water & Sanitation domain, which has been prepared by the expert committee constituted by the Ministry of Drinking Water and Sanitation, after consultations with various stakeholders particularly the state line departments of the Ministry and has been approved by the Apex Committee.

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The term **data element** will be used for attribute of an entity.

- 1.4. The standard document MDDS Demographic Ver 1.1, published by MeitY (previously DeitY), has been extensively referred to.
- 1.5. The “Institutional mechanism for formulation of Domain Specific Metadata and data Standards” published by MeitY has also been used as a guiding document for this initiative.

2. Scope and Objective

- 2.1. The entities pertaining to the Rural Drinking Water and Sanitation (RDWS) domain and the data elements required for uniquely identifying these entities are to be identified for standardization
- 2.2. Those data elements which will be sufficient to **uniquely** describe a particular entity and are **not required** just for one application, need to be identified. Such data elements are to be further categorized as below
 - 2.2.1 Data elements, which are common across the applications **within the domain**
 - 2.2.2 Data elements, which are common **across other domains also**
- 2.3 Further, these data elements are also to be categorized into one of the following ways:
 - 2.3.1 Prospective Generic Data Element Within the RDWS Domain (PGWD)
 - 2.3.2 Prospective Generic Data Element Across all Domains (PGAD)
 - 2.3.3 Customized for RDWS Domain from already standardized generic data element (C)

Hence, whenever that entity/ data element is (are) referred in other applications within the RDWS domain or across other related domains, it can be used in the standard format. This is the mandatory step towards achieving seamless interoperability among the different applications within/across the domain.

It may also be noted that values in the code directories are completely domain specific

and may be enhanced by other Ministries/Departments if required.

2.4 This document was circulated to all stakeholders for their valuable comments and suggestions on the following:

- 2.4.1 Are the definitions of domain entities unambiguous and complete?
- 2.4.2 Do the data elements describe the entity adequately in context with the above discussion? If not, additional data elements to be suggested.
- 2.4.3 Do the names of data elements correctly reflect the semantics of the element? If not, an alternate should be suggested.
- 2.4.4 Are the definitions of data elements complete and comprehensive?
- 2.4.5 Examination of the data type of a data element for correctness.
- 2.4.6 Important issues have to be highlighted in the Remarks column.

In this document, there is mention of assigning unique codes to geographical locations (like Block, Village). While assignment of unique codes to these data elements, for various cases viz. new creation, split and merger, guidelines used in “MDDS- Demographic: 01, Version: 1.1, November, 2011”, will be followed.

The term “Village” is identical to “Administrative Village”. Scope and definition of Generic Data Element - Land Region Code (G02.01) may be considered for enhancement or modification by Domain Committee, in order to accommodate ‘Administrative villages’. This requirement exists in multiple domains.

After several rounds of deliberations with stakeholders and committee members, the document was finalized and forwarded for approval of Apex Committee. The comments received thereafter, have been reviewed and incorporated wherever feasible, in the present version.

It is to be noted that this document will continue to evolve and will be updated when required, after further approval from Domain and Apex committee, is obtained for the same.

Definitions given in this document are totally in context of Rural Drinking Water and Sanitation domain, allocated to the Ministry of Drinking Water and Sanitation, Government of India

3. Metadata Definitions – Sanitation

3.1 Entity Name: Toilet (15.001)

Entity Description: A toilet is a sanitation fixture used primarily for the disposal of human excreta & urine, often found in a small room referred to as a toilet / lavatory / latrine. Toilets can also be mobile units (used for disposal of human excreta / urine) which are generally used in places of large public gathering, pilgrimage spots / routes during festivals, celebrations, disasters, etc.

(**Source:** Wikipedia, MDWS)

Name of Data Element/ Ref. No. specific to Entity in Domain	Description of Data element	Data Format	Maximum Size	Type of Data elements (PGWD/PGAD/C)	Remarks
Toilet_ Base 15.001.001	Toilet Base is a platform on which the toilet-pan / commode is mounted and fixed. Toilet base can either be: 1 - Stationary : Base is fixed to the ground 2 - Mobile : Base is movable (for example Mobile toilet vans)	Integer	1	PGWD	
Toilet_ Usage 15.001.002	Toilets exist at home / office / schools / public places / etc., which could have the following ownership / usage criteria: 1 - Private 2 - Public Free	Integer	1	PGWD	

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Name of Data Element/ Ref. No. specific to Entity in Domain	Description of Data element	Data Format	Maximum Size	Type of Data elements (PGWD/PGAD/C)	Remarks
	3 - Public Paid				
Toilet_ Super Structure 15.001.003	<p>A toilet super structure is basically meant to provide adequate privacy to the toilet users. It is the part of the toilet above the ground, which comprises of the walls, door, roof, etc.</p> <p>The various types of materials used for toilet super structures, as defined by MDWS are placed as Code Directory CD15.001</p>	Integer	2	PGWD	
Toilet _ Status 15.001.004	<p>Toilet Status is either :</p> <ul style="list-style-type: none"> 1 - Functional 2 - Functional, but not in use 3 - Defunct <p>Toilet Status is said to be “Functional” if the toilet is in proper working condition and is fit for use.</p> <p>[“Working Condition” implies all parts of the toilet viz. squatting pan / commode, sewage handling unit (pit), drain pipe, etc. are all properly functional,</p>	Integer	1	PGWD	

Name of Data Element/ Ref. No. specific to Entity in Domain	Description of Data element	Data Format	Maximum Size	Type of Data elements (PGWD/PGAD/C)	Remarks
	<p>and the super structure is intact.]</p> <ul style="list-style-type: none"> “Functional, but not in use” implies that the toilet is functional, and in proper working condition, but the beneficiaries are not willing to use it. Toilet is said to be “Defunct” if it is not fit for use. 				
Toilet_ Location Owner 15.001.005	<p>Defines the location where the “Toilet” exists (in case of Stationary Toilet) or “Name of owner” (in case of Mobile Toilet). Values as per Code Directory CD15.002</p>	Integer	1	PGWD	
Toilet_ User 15.001.006	<p>Toilets have different specifications such as width, breadth, height, and depth of the pan / commode for different types / gender / age group of toilet users. Toilets may be used by: 1 - Physically Handicapped (PHY): any Individual with loss of or failure to develop a specific</p>	Integer	1	PGWD	

Name of Data Element/ Ref. No. specific to Entity in Domain	Description of Data element	Data Format	Maximum Size	Type of Data elements (PGWD/PGAD/C)	Remarks
	<p>bodily function or functions, whether of movement, sensation, coordination, or speech, but excluding mental impairments or disabilities.</p> <p>2 - Senior Citizen: any person being a citizen of India, who has attained the age of sixty years or above.</p> <p>3 - Baby: any child up to the age of 3 years or below. Baby friendly toilets are generally built in Anganwadis.</p> <p>4 - Child: any child between the ages of 3 years to 6 years. Child friendly toilets are generally built in schools</p> <p>5 - General: All types of general toilet users.</p>				
Toilet_ Type 15.001.007	<p>Toilets differ in the design of pan or sewage handling unit.</p> <p>Lists of various types of toilets used are placed as Code Directory CD15.003</p>	Integer	2	PGWD	

3.2 Entity Name: Educational Institute (15.002)

Entity Description: In the context of MDWS, an Educational Institution is a place which children of different age group(s) attend, in order to gain education. These may include preschools, nursery, elementary, primary, secondary, and senior secondary schools. The scope of the domain is limited to Schools only, hence, other educational institutes eg. Colleges, are not defined here.

Also, Educational Institutes come under the purview of the Ministry of Human Resource & Development, hence, the data elements which have been proposed here, may be further examined and owned by MHRD.

(**Source:** Wikipedia, MDWS)

Name of Data Element/ Ref. No. specific to Entity in Domain	Description of Data element	Data Format	
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Name of Data Element/ Ref. No. specific to Entity in Domain	Description of Data element	Data Format	Maximum Size	Type of Data elements (PGWD/PGAD/C)	Remarks
	<p>1 - Pre School: A school that provides non-formal/formal pre-school education and also basic health care in some.</p> <p>2 - Primary School: Institutes where the final stage of compulsory education (also known as “Elementary School”) is imparted to students. These institutes usually have five standards.</p> <p>3 - Upper Primary School: Institutes which enrol students who have completed primary level of education. These schools may have classes upto sixth, seventh or eighth standards</p> <p>4 - Secondary School: Institutes which enrol students who have completed upper primary level of education. These schools may have classes upto ninth or tenth standards</p>				

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Name of Data Element/ Ref. No. specific to Entity in Domain	Description of Data element	Data Format	Maximum Size	Type of Data elements (PGWD/PGAD/C)	Remarks
	5 - Senior Secondary School: Institutes which enrol students who have completed secondary level of education. These schools may have classes upto eleventh or twelfth standards				
Village Code 15.002.004	It refers to the unique code allocated to the Administrative Village where the Educational Institute is located.	Integer	6	C	Land Region Code (G02.01)
Year_ Established 15.002.005	Year on which the educational institute was established	Char	4	C	Calendar Year (G00.07)
Edu_Inst_ Ownership 15.002.006	Whether owned by - 1- Government: A school run by the department of Education of the UT/ State Government or central government or Public Sector Undertaking or an Autonomous Organisation completely financed by the Government. 2- Government Aided: A school that receives Grant-in-Aid from the Union Government or	Integer	1	PGAD	

Name of Data Element/ Ref. No. specific to Entity in Domain	Description of Data element	Data Format	Maximum Size	Type of Data elements (PGWD/PGAD/C)	Remarks
	<p>Administration of the UT or State Government.</p> <p>3 - Local Body: A school that receives Grant-in-Aid / Funds from Local Governing Bodies viz. Panchayati Raj and local body institution such as Zilla Parishad, Municipal Corporation, Municipal Committee, Notified Area Committee and Cantonment Boards</p> <p>4 - Private: A school that is owned and operated by an individual or Private or religious organisation.</p>				

3.3 Entity Name: Waste (15.003)

Entity Description: Any material/ liquid that is left over after productive use or which is beyond any use in its current form and is generally discarded as unwanted; any material linked to human activity in comparison to nature which has its own system of recycling waste such that it eventually becomes a resource. For example, **Organic Matter** – such as leaves, branches, and so on, decompose to form manure.

This entity may be more appropriately defined by other Ministries, but MDWS proposes the following data elements related to its own domain

(Source: MDWS)

Name of Data Element/ Ref. No. specific to Entity in Domain	Description of Data element	Data Format	Maximum Size	Type of Data elements (PGWD/PGAD/C)	Remarks
Waste_Classification 15.003.001	Waste can be broadly classified based on its capability or incapability to get decomposed, either naturally over a period of time, or due to certain other factors. Values as per Code Directory CD15.004	Integer	1	PGAD	
Waste_Disposal 15.003.002	It refers to the various methods used for disposal of Waste. Values as per Code Directory CD15.005	Integer	2	PGAD	

Name of Data Element/ Ref. No. specific to Entity in Domain	Description of Data element	Data Format	Maximum Size	Type of Data elements (PGWD/PGAD/C)	Remarks
Waste_ Type 15.003.00 3	Defines the type of Waste commonly found in rural areas Values as per Code Directory CD15.006	Integer	2	PGWD	

3.4 Entity Name: Survey (15.004)

Entity Description: The word “Survey” is used to describe a method of gathering information from a sample of individuals i.e. a fraction of the population being studied, except for a “Census” where all members of the population are included in the survey. Our society requires a prompt and accurate flow of information on preferences, needs and behavior.

It is in response to this critical need for information on the part of the government, business, and social institutions that surveys are conducted.

A survey is generally done with the help of a questionnaire which is answered by the target group of individuals.

Land / Cadstral Surveys play a key role in the development of our physical environment. We need accurate surveys and maps to build roads, houses, schools, plus to locate our natural resources and our boundaries, locally or nationally. While we seldom see surveyors in the field, we all directly experience the effects of their work on a daily basis. This aspect of survey is beyond the purview of this document.

This entity may be further enhanced/enriched by other concerned Ministries/Departments.

(Source: <https://www.whatisasurvey.info/chapters/chapter1.htm>, MDWS)

Name of Data Element/ Ref. No. specific to Entity in Domain	Description of Data element	Data Format	Maximum Size	Type of Data elements (PGWD/PGAD/C)	Remarks
Survey_ Code 15.004.001	Unique Code to identify the Survey	Integer	5	PGAD	
Survey_ Name 15.004.002	Name of the Survey	Varchar	100	PGAD	
Survey_ Description 15.004.003	Brief description of the Survey	Varchar	250	PGWD	
Survey_ Year 15.004.004	Year in which the Survey is conducted.	Char	4	C	Calendar Year (G00.07)
Survey_ Level 15.004.005	The level at which the survey is conducted Values as per Code Directory CD15.007	Integer	1	PGWD	
Survey_ Category 15.004.006	Describes the type of area under survey which could be either: 1 - Urban 2 - Rural 3 - Both Urban and Rural	Integer	1	PGWD	

Name of Data Element/ Ref. No. specific to Entity in Domain	Description of Data element	Data Format	Maximum Size	Type of Data elements (PGWD/PGAD/C)	Remarks
Survey_Audience 15.004.007	Individuals, group of individuals from whom data is collected for survey, with the help of a questionnaire. Values as per Code Directory CD15.008	Integer	1	PGWD	
Coordinating Agency Name 15.004.008	Name of the co-ordinating Agency / State Government Department / Ministry responsible for undertaking the survey	Varchar	100	PGWD	
Survey_Type 15.004.009	Defines the type of survey conducted. Values as per Code Directory CD15.009	Integer	1	PGWD	

3.5 Entity Name: IEC Campaign (15.005)

Entity Description: IEC stands for Information, Education, and Communication. This tool is used by Social Sector Ministries like the Ministry of Drinking Water & Sanitation, to educate individuals and community as a whole for achieving social awareness and behavioral changes towards issues like water conservation, hygiene and sanitation. This is done through the campaign mode by government, NGOs, Community based Organizations (CBOs) and field level motivators.

(**Source:** MDWS)

Ministry of Drinking Water & Sanitation
(<http://mdws.gov.in>)

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Name of Data Element/ Ref. No. specific to Entity in Domain	Description of Data element	Data Format	Maximum Size	Type of Data elements (PGWD/PGAD/C)	Remarks
IEC_ ID 15.005.001	Unique ID used to identify an IEC campaign	Integer	2	PGWD	
IEC_Description 15.005.002	Brief description of the IEC Campaign including the mode of campaign, issues on which awareness is to be created, etc.	Varchar	250	PGWD	
Coordinating Agency Name 15.005.003	Name of the co-ordinating agency responsible for conducting the Campaign	Varchar	100	PGWD	
IEC_ Area Covered 15.005.004	Describes the geographical area where the IEC campaign is carried out. Values as per Code Directory <u>CD15.010</u>	Integer	2	PGWD	
IEC_ Target Audience 15.005.005	Refers to the target audience for the IEC Campaign Values as per Code Directory <u>CD15.011</u>	Integer	2	PGWD	
IEC_ Techniques 15.005.006	Defines what technique is used to promote IEC. Values as per Code Directory <u>CD15.012</u>	Integer	2	PGWD	

4 Metadata Definitions – Drinking Water

4.1 Entity Name: Block (15.006)

Entity Description: A Block is a unit of development administration within a district. It is generally headed by a Block Development Officer. While in some states, the boundary of a block may coincide with census sub-district boundaries, in others, it may not coincide. Here, Block code would be mandatory, to facilitate data exchange among software applications.

(Source: MDWS)

Name of Data Element/ Ref. No. specific to Entity in Domain	Description of Data element	Data Format	Maximum Size	Type of Data elements (PGWD/PGAD/C)	Remarks
Block_Code 15.006.001	Unique code to identify a block across the country	Integer	10	PGAD	
Block_Name 15.006.002	Name of the Block in english	Varchar	100	PGAD	
District_code 15.006.003	Unique code of the district to which this block belongs	Integer	3	C	Land Region Code (G02.01)
Block_Headquarter 15.006.004	Address of Block office / Headquarters of the Block	Varchar	336	C	Address of a Premises (G02.03)

Name of Data Element/ Ref. No. specific to Entity in Domain	Description of Data element	Data Format	Maximum Size	Type of Data elements (PGWD/PGAD/C)	Remarks
VersionNumber 15.006.005	Version number of data record to be used for tracing history of changes in values of the record	Char	5	C	Version Number (G00.08)
VersionDate 15.006.006	Date of last update of record	Date (dd/mm/yy yy)	10	C	Date (G00.01)

4.2 Entity Name: Gram Panchayat (15.007)

Entity Description: Gram panchayats are local self-governments at the village or small town level in India. The gram panchayat is the foundation of the Panchayat System. A gram panchayat can be set up in villages with minimum population of 300. Sometimes two or more villages are clubbed together to form group-gram panchayat when the population of the individual villages is less than 300.

However, there could be exceptions to this definition. In few states, a single village can have more than one panchayat. Therefore Ministry of Drinking Water and Sanitation, has not prescribed any fixed norms for defining a panchayat. It is assumed that a panchayat is formed through a gazette notification issued to the effect and has the ‘Sarpanch’ heading the panchayat. The members of the panchayat are elected by the people of the constituent villages.

(**Source:** Wikipedia / MDWS)

This can be referred to the definition of Local Government Body in section 2, Serial No 3 in the Draft Definitions of Metadata and data Standards for Panchayati Raj Domain ([https://egovstandards.gov.in/sites/default/files/Draft_Definitions_Panchyati_Raj_Domain_1\(1\).pdf](https://egovstandards.gov.in/sites/default/files/Draft_Definitions_Panchyati_Raj_Domain_1(1).pdf)) .

Name of Data Element/ Ref. No. specific to Entity in Domain	Description of Data element	Data Format	Maximum Size	Type of Data elements (PGWD / PGAD / C)	Remarks
Panchayat_ Code 15.007.001	Unique code to identify a Gram Panchayat in a block	Integer	10	PGAD	Gram Panchayat Codes may be notified by Ministry of Panchayati Raj after approval of MeitY
Panchayat_ Name 15.007.002	Name of the Gram Panchayat	Varchar	100	PGAD	

Name of Data Element/ Ref. No. specific to Entity in Domain	Description of Data element	Data Format	Maximum Size	Type of Data elements (PGWD / PGAD / C)	Remarks
Block_ code 15.006.001	Unique code of the block to which this Gram Panchayat belongs	Integer	10	PGWD	
VersionNumber 15.006.005	Version number of data record to be used for tracing history of changes in values of the record	Char	5	C	Version Number (G00.08)
VersionDate 15.006.006	Date of last update of record	Date (dd/mm/yyyy)	10	C	Date (G00.01)

4.3 Entity Name: Habitation (15.008)

Entity Description: A natural environment or locality. It is also known as a place of abode or Hamlet. However, in the context of this document, a habitation is a locality inside a village boundary, where a cluster of families reside. In several hilly areas, an isolated locality where a single household exists is also considered as a habitation.

(**Source:** Dictionary.com / MDWS)

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Name of Data Element/ Ref. No. specific to Entity in Domain	Description of Data element	Data Format	Maximum Size	Type of Data elements (PGWD/PGAD/C)	Remarks
Habitation_ Code 15.008.001	A unique code to identify a Habitation within Administrative Village boundary for providing drinking water and sanitation.	Integer	10	PGWD	
Habitation_ Name 15.008.002	Name of the Habitation	Varchar	100	PGWD	
Village Code 15.008.003	A unique code allocated to the administrative unit of a Village where the Habitation is located.	Integer	6	C	Land Region Code (G02.01)
Panchayat_ Code 15.007.001	Unique code of Gram Panchayat in a block in which Habitation is located	Integer	10	PGAD	
VersionNu mber 15.006.005	Version number of data record to be used for tracing history of changes in values of the record	Char	5	C	Version Number (G00.08)
VersionDat e 15.006.006	Date of last update of record	Date (dd/mm/yyyy)	10	C	Date (G00.01)

4.4 Entity Name: Programme (15.009)

Entity Description: A programme of the Union Government or State Government or both under which funds are provided to achieve specific development goals. Here, Programme code would be mandatory, to facilitate data exchange among software applications.

(**Source:** MDWS)

This can be referred to the definition of Scheme in section 2, Serial No 5 in the Draft Definitions of Metadata and data Standards for Panchayati Raj Domain ([https://egovstandards.gov.in/sites/default/files/Draft_Definitions_Panchyati_Raj_Domain_1\(1\).pdf](https://egovstandards.gov.in/sites/default/files/Draft_Definitions_Panchyati_Raj_Domain_1(1).pdf)) .

Name of Data Element/ Ref. No. specific to Entity in Domain	Description of Data element	Data Format	Maximum Size	Type of Data elements (PGWD/PGAD/C)	Remarks
Programme _ Code 15.009.001	Code which uniquely identifies the Programme	Integer	2	PGWD	
Programme _ Name 15.009.002	Name of Programme for example:. National Rural Drinking Water Programme (NRDWP), Swachh Bharat Mission (SBM)	Varchar	250	PGWD	
Programme _ Description 15.009.003	A brief description about the programme, its goals, geographical area of implementation etc.	Varchar	250	PGWD	
Programme _ Initiator 15.009.004	“Programme Initiator” refers to the competent authority which initiated the course of action, i.e. initiated the	Integer	1	PGWD	

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(<http://mdws.gov.in>)

Name of Data Element/ Ref. No. specific to Entity in Domain	Description of Data element	Data Format	Maximum Size	Type of Data elements (PGWD/PGAD/C)	Remarks
	“Programme” and is responsible for implementation. It could be either: 1 - State 2 - Centre 3 - Any other agency				
Programme_start 15.009.005	Specifies the year during which the programme will become operational	Char	7	C	Financial Year (G00.03)
Programme_InitiatorName 15.009.006	Name of the Programme Initiator	VarChar	250	PGAD	

4.5 Entity Name: Programme Component (15.010)

Entity Description: A Programme generally comprises of several components, each of which aims at achieving specific objectives. For example under the NRDWP programme, NRDWP-Sustainability is a component which ensures sustainability of drinking water schemes.

(**Source:** MDWS)

This can be referred to the definition of Scheme Component in section 2, Serial No 6 in the Draft Definitions of Metadata and data Standards for Panchayati Raj Domain ([https://egovstandards.gov.in/sites/default/files/Draft_Definitions_Panchyati_Raj_Domain_1\(1\).pdf](https://egovstandards.gov.in/sites/default/files/Draft_Definitions_Panchyati_Raj_Domain_1(1).pdf)) .

Name of Data Element/ Ref. No. specific to Entity in Domain	Description of Data element	Data Format	Maximum Size	Type of Data elements (PGWD/PGAD/C)	Remarks
Prog_ component_ Code 15.010.001	A Code to uniquely identify the programme component	Integer	4	PGWD	
Program_ Code 15.009.001	Code which uniquely identifies the Programme, of which this component is a part	Integer	3	PGWD	
Prog_ component_ name 15.010.002	Name of the Programme Component	Varchar	100	PGWD	

4.6 Entity Name: Scheme Category (15.011)

Entity Description: Refers to the category of a scheme such as open well, bore well, hand pump, piped water supply etc. The scheme category in conjunction with the Source Category (Data element -15.014.002, in this document) tells about the source of drinking water and the delivery mechanism. For example an open well is ground water based scheme and is a spot source i.e source and delivery system is at the same place

whereas a piped water supply scheme may be either ground water or surface water based and the delivery system is generally away from the source. Here, Scheme Category code would be mandatory, to facilitate data exchange among software applications.

(**Source:** MDWS)

Name of Data Element/ Ref. No. specific to Entity in Domain	Description of Data element	Data Format	Maximum Size	Type of Data elements (PGWD/P GAD/C)	Remarks
Scheme Category_ Code 15.011.001	Code to uniquely identify the scheme category. For example: Piped water Scheme, Hand Pump, Check Dam, Treatment plant.	Integer	2	PGWD	
Scheme Category_ Name 15.011.002	Name of the scheme category	Varchar	100	PGWD	

4.7 Entity Name: Scheme Type (15.012)

Entity Description: Each state has its own set of scheme types. Under one scheme category, there can be more than one scheme type. However, vice versa does not hold good. Eg. Under Scheme Category - Piped water Supply scheme, there can be multiple scheme types - Mini water supply, combined water supply scheme, regional water supply etc .. Here, Scheme Type code would be mandatory, to facilitate data exchange among software applications. This definition is as per the MDWS domain.

(**Source:** MDWS)

Name of Data Element/ Ref. No. specific to Entity in Domain	Description of Data element	Data Format	Maximum Size	Type of Data elements (PGWD/PGAD/C)	Remarks
Scheme_Type_Code 15.012.001	Code to uniquely identify the Scheme Type	Integer	2	PGWD	
Scheme_Type_Name 15.012.002	Name of the Scheme Type. This is a short name of the type of scheme, which is state specific and is needed for maintaining state wise repository of scheme types for use by the stakeholders at state district and subdistrict level	Varchar	100	PGWD	
Scheme Category_Code 15.011.001	Code to uniquely identify the category of a scheme	Integer	2	PGWD	

4.8 Entity Name: Scheme (15.013)

Entity Description: A scheme is undertaken as part of a Programme to fulfill a felt need of the people . Schemes are the Systems which Supply drinking Water from the Sources to the beneficiary / institution concerned. A scheme may also augment existing service levels or may be instrumental in making another scheme, sustainable and more efficient. Here, Scheme code would be mandatory, to facilitate data exchange among software applications.It is proposed that MDWS will maintain the repository of scheme codes for rural water supply (RWS) related schemes.

(Source: MDWS)

This can be referred to the definition of Work in section 2, Serial No 13 in the Draft Definitions of Metadata and data Standards for Panchayati Raj Domain ([https://egovstandards.gov.in/sites/default/files/Draft_Definitions_Panchyati_Raj_Domain_1\(1\).pdf](https://egovstandards.gov.in/sites/default/files/Draft_Definitions_Panchyati_Raj_Domain_1(1).pdf)) .

Name of Data Element/ Ref. No. specific to Entity in Domain	Description of Data element	Data Format	Maximum Size	Type of Data elements (PGWD/PGAD/C)	Remarks
RWS_ Scheme_ Code 15.013.001	<p>A unique code to uniquely identify a rural water Supply Scheme/treatment Plant/ Sustainability Structure which is constructed to make a source of water sustainable.</p> <ul style="list-style-type: none"> • Water Supply Schemes include hand pump, bore well, Shallow tube well, piped water scheme etc • Treatment Plant Scheme is generally attached to a parent water supply Scheme for treating the supplied water to make it fit for drinking. • Sustainability Structures are used to make one water source sustainable. 	Integer	6	PGWD	

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Name of Data Element/ Ref. No. specific to Entity in Domain	Description of Data element	Data Format	Maximum Size	Type of Data elements (PGWD/PGAD/C)	Remarks
	Ex. Recharge Pits, Sub-Surface Dykes, check dams etc.				
RWS_Scheme_Name 15.013.002	Name of the Rural Water Supply Scheme / Sustainability Structure	Varchar	100	PGWD	
RWS_Scheme_Category_Code 15.011.001	Code to uniquely identify the category of a rural water supply scheme	integer	2	PGWD	
RWS_Scheme_Type_code 15.012.001	Code to uniquely identify the rural water supply Scheme Type	Integer	2	PGWD	
RWS_Scheme_Description 15.013.003	Information about the rural water supply scheme comprising of area of coverage, demography of the area of coverage, source details etc.	Varchar	250	PGWD	

4.9 Entity Name: Drinking Water Source (15.014)

Entity Description: Natural Source of water available on surface or underground, which will be used for supplying drinking water to a group of people.

(Source: MDWS)

Name of Data Element/ Ref. No. specific to Entity in Domain	Description of Data element	Data Format	Maximum Size	Type of Data elements (PGWD / PGAD / C)	Remarks
Source_ID 15.014.001	Unique code to identify a drinking water source in a habitation.	Integer	6	PGWD	
Source_Category 15.014.002	Whether : 1 - Ground Water: Water available in underground aquifers. 2 - Rain Water: Rain Water captured / stored for future use. 3 - Surface Water: Natural water bodies like river, lake, pond, etc. 4 - Traditional Source: Sources where water was collected / stored in some traditional method in olden days. These sources are still in use and are being revived wherever possible. For example: Ooranis in Tamil Nadu, Nadis in Rajasthan, etc.	Integer	1	PGWD	

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Name of Data Element/ Ref. No. specific to Entity in Domain	Description of Data element	Data Format	Maximum Size	Type of Data elements (PGWD / PGAD / C)	Remarks
Source_ Name 15.014.003	Name of the water source (viz-a-viz name of river / lake / pond / stream / open well / etc.)	Varchar	100	PGWD	
Source_ Ownership 15.014.004	Whether : 1 - Public (Government/Community Owned) 2 - Private Individual	Integer	1	PGWD	
Source_ Location 15.014.005	Description of the location of water source within a Habitation, in respect of other surrounding prominent physical features. For example: 1. Near Village Primary School; 2. In front of house of Mr. X. 3. GPS Coordinates	Varchar	336	C	Address of Premises (G02.03)
Source_ Functionality 15.014.006	Whether the source of drinking water is : 1 - Active (Functional): The water source is called 'Functional', if it is being used for drinking and cooking purposes. 2 - Non-Functional: The source of water is called 'Non-Functional', if it is not presently in use for cooking & drinking purpose. This could be due to drying up of the source or due to contamination.	Integer	1	PGWD	

4.10 Entity Name: Water Supply (15.015)

Entity Description: A piped Water Supply System extracts water from the source, treats it to remove bacteriological and Chemical contamination if any and delivers it to the households or specific points along the road called delivery points/stand posts. This entity defines the service provided to the people in respect of supply of drinking water.

(*Source:* MDWS)

Name of Data Element/ Ref. No. specific to Entity in Domain	Description of Data element	Data Format	Maximum Size	Type of Data elements (PGWD/PGAD/C)	Remarks
Scheme_ Code 15.013.001	<p>A unique code to uniquely identify a water Supply Scheme/treatment Plant/ Sustainability Structure.</p> <ul style="list-style-type: none"> Water Supply Schemes include hand pump, bore well, Shallow tube well, piped water scheme etc Treatment Plant Scheme is generally attached to a parent water supply Scheme for treating the supplied water to make it fit for drinking. Sustainability Structures are used to make one water source sustainable. Ex. 	Integer	6	PGWD	

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Name of Data Element/ Ref. No. specific to Entity in Domain	Description of Data element	Data Format	Maximum Size	Type of Data elements (PGWD/PGAD/C)	Remarks
	Recharge Pits, Sub-Surface Dykes, check dams etc.				
Scheme_ Category 15.011.001	Code to uniquely identify the scheme category. For example: Piped water Scheme, Hand Pump, Check Dam, Treatment plant.	Integer	2	PGWD	
Habitation_ Code 15.008.001	Habitation Code is a unique code to identify a Habitation within a Village. The water supply scheme is located in this habitation.	Integer	10	PGWD	
Supply_ volume 15.015.001	Average volume of water (in Cubic Metre) supplied by the scheme per day or per hour to the consumer..	Decimal (p,3)	4	C	Volume in Cubic Meters (G00.02-31)
Supply_ Duration 15.015.002	Average hours of water supply by this scheme over a period of one week	Char (hh:mm)	5	PGWD	
Supply_ Type 15.015.003	Whether water supply is : 1 - Metered : Consumers need to pay charges for water consumed by them 2 - Unmetered : Consumers do not need to pay any charge for water consumed by them	Integer	1	PGWD	

Name of Data Element/ Ref. No. specific to Entity in Domain	Description of Data element	Data Format	Maximum Size	Type of Data elements (PGWD/PGAD/C)	Remarks
	3 - Fixed : Consumers pay a fixed charge				
Supply_ to 15.015.004	Whether water from this scheme is supplied for : 1 - Commercial Use 2 - Industrial Use 3 - Domestic Use 4 - Institutional Use 5 - Multiple Uses (Multiple Uses may include commercial & / or industrial & / or domestic)	Integer	1	PGWD	

4.11 Entity Name:Water Testing Lab (15.016)

Entity Description: Water Testing Labs are laboratories where drinking water samples are tested for presence of any contamination. Contamination could be Physical (for example: Turbidity), chemical (for example: Iron) or bacteriological (For example: E-Coli).

(**Source:** MDWS)

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Name of Data Element/ Ref. No. specific to Entity in Domain	Description of Data element	Data Format	Maximum Size	Type of Data elements (PGWD/PGAD/C)	Remarks
	<p>2 - Partially Functional: Only few equipment(s) & / or a small section of the laboratory is functional.</p> <p>3 - Defunct: It is not in working condition</p>				
Lab_ Mobility 15.016.007	<p>Whether lab is :</p> <p>1 - Stationary: The lab is housed in a building</p> <p>2 - Mobile: The lab may be in a van/boat which is mobile.</p>	Integer	1	PGWD	
Lab_ Access 15.016.008	<p>Whether Lab is open for Public to get water sample of their house/locality tested, by giving a nominal fee or for free:</p> <p>1 - Yes</p> <p>2 - No</p>	Integer	1	PGWD	

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Name of Data Element/ Ref. No. specific to Entity in Domain	Description of Data element	Data Format	Maximum Size	Type of Data elements (PGWD/PGAD/C)	Remarks
Lab_Skilled_Staff 15.016.009	<p>Whether the lab is equipped with skilled staff for testing: 1 - Yes 2 - No</p> <p>A “Skilled Worker” is any worker who has some special skill, knowledge, or (usually acquired) ability in their work. A skilled worker may have attended a college, university or technical school. Or, a skilled worker may have learned their skills on the job.</p> <p>In the context of a laboratory, “Skilled Staff” would be any staff member having the requisite skill, knowledge, or ability (usually acquired) to complete their testing / analysis / etc. as required in a laboratory.</p>	Integer	1	PGWD	

4.12 Entity Name: Water Quality Testing (15.017)

Entity Description: Testing of drinking water samples is a regular activity carried out by any agency which supplies drinking water to the public. Individuals may also carry out test of water samples collected from their private water sources MDWS considers the standards set by the Bureau of Indian Standards (BIS) for categorizing Drinking Water as either “Safe” or “Unsafe”.

(Source: MDWS)

Name of Data Element/ Ref. No. specific to Entity in Domain	Description of Data element	Data Format	Maximum Size	Type of Data elements (PGWD/PGAD/C)	Remarks
Source_ID 15.014.003	Unique code to define the source from which the sample is collected	Varchar	6	PGWD	
Sample_ID 15.017.001	Unique code assigned to the water sample collected from the source.	Varchar	6	PGWD	
Test_Type 15.017.002	Whether testing of Water sample is done via : 1 - Laboratory Testing	Integer	1	PGWD	

Name of Data Element/ Ref. No. specific to Entity in Domain	Description of Data element	Data Format	Maximum Size	Type of Data elements (PGWD/PGAD/C)	Remarks
	2 - FTK: Field Test Kits. Used for preliminary identification of contaminants. It is not a conclusive test.				
Lab_ID 15.016.00 1	Unique code assigned to the Laboratory where the sample is tested	Integer	5	PGWD	
Test_Date 15.017.00 3	Date on which the sample is tested	Date (dd/mm/yyyy)	10	C	Date (G00.01)

4.13 Entity Name: Water Quality Parameter (15.018)

Entity Description: Water is said to be **SAFE** for human consumption if it is free from biological contamination and within permissible limits of chemical contamination as per IS-10500 Standard of BIS as revised in 2012 (For reference, please refer Annexure III). MDWS follows this standard to identify water sources which are unsafe and takes necessary remedial measures.

(**Source:** MDWS)

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Name of Data Element/ Ref. No. specific to Entity in Domain	Description of Data element	Data Format	Maximum Size	Type of Data elements (PGWD/PGAD/C)	Remarks
Parameter_ID 15.018.001	Unique ID to identify the parameter (Contaminant) for which Drinking Water sample is tested. Values as per Code Directory CD15.013	Integer	2	PGWD	Adopted from BIS
Parameter_Name 15.018.002	Name of the defined Water Quality parameter(contaminant) for which the water sample is tested. Names of contaminants as per Code Directory CD15.013	Varchar	100	PGWD	Adopted from BIS

Name of Data Element/ Ref. No. specific to Entity in Domain	Description of Data element	Data Format	Maximum Size	Type of Data elements (PGWD/PGAD/C)	Remarks
Measurement Unit_ Parameters 15.018.003	Unit of measurement for a water quality contaminant, which is recorded along with the value of a water sample test result. Values as per Code Directory CD15.015	Integer	2	PGWD	Adopted from BIS
Parameter_Type 15.018.004	Defines the Type of Parameter. Whether : 1 - Chemical 2 - Bacteriological 3 - Physical 4 - Radioactive	Integer	1	PGWD	Adopted from BIS except Radioactive parameter

4.14 Entity Name: Water Treatment Plant (15.019)

Entity Description: A **Water Treatment Plant (WTP) or Water Treatment Works** is an industrial structure designed to remove **biological** or **chemical** contaminants from water, thereby permitting the treated water to be used for drinking and other purposes.

(Source: CPHEEO Manual)

Name of Data Element/ Ref. No. specific to Entity in Domain	Description of Data element	Data Format	Maximum Size	Type of Data elements (PGWD/PGAD/C)	Remarks
Water Treatment Plant_ID 15.019.001	A Unique code to uniquely identify a drinking water treatment plant.	Integer	6	PGAD	
Scheme_Code 15.013.001	A unique code to uniquely identify a drinking water Supply Scheme to which the treatment plant is connected.	Integer	6	PGWD	
Treatment_Plant_Capacity 15.019.002	Total volume of water in cubic meters which can be treated per day in the plant	Decimal (p,3)	10	C	Volume in Cubic Meters (G00.02-31)
Treatment_Plant_Ownership 15.019.003	Whether owned by : 1 - Central Government 2 - State Government 3 - Private 4 - Community	Integer	1	PGWD	
Treatment_Plant_Owner Name 15.019.004	Complete name of the Owner (Government entity name / private owner name / Company Name / etc)	Varchar	100	PGWD	
Treatment_Plant_Date_	Date of establishment of the Plant. This is the date of commissioning of the plant	Date (dd/mm/yyyy)	10	C	Date (G00.01)

Name of Data Element/ Ref. No. specific to Entity in Domain	Description of Data element	Data Format	Maximum Size	Type of Data elements (PGWD/PGAD/C)	Remarks
Estd 15.019.005					
Treatment Plant_Agency_Name 15.019.006	Name of the operating agency responsible for all operations / functioning of the treatment plant	Varchar	100	PGWD	
Treatment_Plant_Functionality 15.019.007	Whether the treatment plant is : 1 - Functional : It is in working Condition 2 - Defunct : It is not in working condition	Integer	1	PGWD	
Water Treatment Method 15.019.008	Lists the various methods by which water is treated/purified for making it suitable for drinking. Values as per Code Directory CD15.014	Varchar	5	PGAD	

4.15 Entity Name: Fund Sanction (15.020)

Entity Description: This entity describes the various parameters for capturing the fund sanction details. This would be capturing the details of the fund sanctioned to the implementing agencies, under any Programme of MDWS in a specified financial year.
(**Source:** MDWS)

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Name of Data Element/ Ref. No. specific to Entity in Domain	Description of Data element	Data Format	Maximum Size	Type of Data elements (PGWD / PGAD / C)	Remarks
Fund_Sanction_Code 15.020.001	A Code to uniquely identify the Fund Sanctions generally called the Sanction Order..	Integer	3	PGWD	
Programme component _Code 15.010.001	A Code of the Programme component towards which this Fund is being sanctioned.	Integer	4	A	
Plan_ Year 15.020.002	The financial year for which the work is planned.	Char	7 (nnmm-(mm+1))	C	Financial Year (G00.03)
Fund Sanction_ Date 15.020.003	Date on which the Fund Amount is sanctioned	Date (dd/mm/yyyy)	10	C	Date (G00.01)
Fund Sanction_State_ Code 15.020.004	Code to uniquely identify the State for which fund is being sanctioned	Integer	2	C	Land Region Code (G02.001)
Sanctioned _ Amount 15.020.005	The amount (in Rs.) sanctioned under the work for the above mentioned State	Decimal (p,2)	20	C	Amount (G00.04)

4.16 Entity Name: Fund Release (15.021)

Entity Description: This entity describes the various parameters for capturing the fund release details. This would be capturing the year-wise details of the fund released under any Programme of MDWS in a specified Plan Period.

(Source: MDWS)

Name of Data Element/ Ref. No. specific to Entity in Domain	Description of Data element	Data Format	Maximum Size	Type of Data elements (PGWD/PGAD/C)	Remarks
Fund_ Release_ Code 15.021.001	A Code to uniquely identify a Fund Release towards implementation of a programme of the government of India	Integer	3	PGWD	
Fund_ Sanction_ Code 15.020.001	Code of the Sanction Order against which the Release is being made	Integer	3	PGWD	
Fund Release_ Date 15.021.002	Date on which the Fund Amount is released	Date (dd/mm/yyyy)	10	C	Date (G00.01)
Fund Release _State_ Code 15.020.004	Code to uniquely identify the State to which fund is being released	Integer	2	C	Land Region Code (G02.01)
Release_ Amount 15.021.003	The amount (in Rs.) released to an implementing agency / state government	Decimal (p,2)	20	C	Amount (G00.04)

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Name of Data Element/ Ref. No. specific to Entity in Domain	Description of Data element	Data Format	Maximum Size	Type of Data elements (PGWD/PGAD/C)	Remarks
	against a Sanction Order for the approved work in the state				

5. Metadata of Data Elements – Sanitation

5.1. Entity Name: Toilet (15.001)

Name of Data Element : Toilet_Base(15.001.001)	
Description of Data Element	Toilet Base is a platform on which the toilet-pan / commode is mounted and fixed. Toilet base can either be: 1 - Stationary :Base is fixed to the ground 2- Mobile : Base is movable (for example Mobile toilet vans)
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Integer
Max Size	1
Validation	
Values	1 - Stationary 2- Mobile
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	As decided by Domain committee of Drinking Water & Sanitation (DWS Domain Committee)
Version	1.0
Status	Published
Date agreed	
Verification	
Comments	
Date of Publication	28 September 2016

Name of Data Element : Toilet_ Usage(15.001.002)	
Description of Data Element	Toilets exist at home / office / schools / public places / etc., which could have the following ownership / usage criteria: 1- Private 2- Public Free 3- Public Paid
Data Element Type (Generic / Custom)	PGWD

Is part of any	
Parts if any	
Data Format	Integer
Max Size	1
Validation	
Values	1 - Private 2 - Public Free 3 - Public Paid
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	As decided by DWS Domain committee
Version	1.0
Status	Published
Date agreed	
Verification	
Comments	
Date of Publication	28 September 2016

Name of Data Element : Toilet_Super Structure(15.001.003)	
Description of Data Element	A toilet super structure is basically meant to provide adequate privacy to the toilet users. It is the part of the toilet above the ground, which comprises of the walls, door, roof, etc. The various types of materials used for toilet super structures, as defined by MDWS are placed as Code Directory CD 15.001
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Integer
Max Size	2
Validation	
Values	For codes of Toilet_Super Structure and their values, refer to Code Directory CD15.001
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	As decided by DWS Domain committee
Version	1.0
Status	Published

Date agreed	
Verification	
Comments	
Date of Publication	28 September 2016

Name of Data Element : Toilet _Status(15.001.004)

Description of Data Element	<p>Toilet Status is either :</p> <ol style="list-style-type: none"> 1. Functional 2. Functional, but not in use 3. Defunct <p>Toilet Status is said to be “Functional” if the toilet is in proper working condition and is fit for use. [“Working Condition” implies all parts of the toilet viz. squatting pan / commode, sewage handling unit (pit), drain pipe, etc. are all properly functional, and the super structure is intact.]</p> <p>Toilet is said to be “Defunct” if it is not fit for use. “Functional, but not in use” implies that the toilet is functional, and in proper working condition, but the beneficiaries are not willing to use it.</p>
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Integer
Max Size	1
Validation	
Values	<p>1 - Functional 2 - Functional, but not in use 3 - Defunct</p>
Default value	1-Functional
Owner	Ministry of Drinking Water & Sanitation
Based on	As decided by DWS Domain committee
Version	1.0
Status	Published
Date agreed	
Verification	
Comments	It is assumed that a ‘Functional’ toilet would have provision of water supply.
Date of Publication	28 September 2016

Name of Data Element : Toilet_Location Owner(15.001.005)	
Description of Data Element	Defines the location where the “Toilet” exists (in case of Stationary Toilet) or “Name of owner” (in case of Mobile Toilet). Values as per Code Directory CD 15.002
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Integer
Max Size	1
Validation	
Values	For codes of Toilet_location Owner and their values, refer to Code Directory CD15.002
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	As decided by DWS Domain committee
Version	1.0
Status	Published
Date agreed	
Verification	
Comments	
Date of Publication	28 September 2016

Name of Data Element : Toilet_User(15.001.006)	
Description of Data Element	<p>Toilets have different specifications such as width, breadth, height, and depth of the pan / commode for different types / gender / age group of toilet users.</p> <p>Toilets may be used by:</p> <ol style="list-style-type: none"> 1. Physically Handicapped: any Individual with loss of or failure to develop a specific bodily function or functions, whether of movement, sensation, coordination, or speech, but excluding mental impairments or disabilities. 2. Senior Citizen: any person being a citizen of India, who has attained the age of sixty years or above. 3. Baby: any child up to the age of 3 years or below. Baby friendly toilets are generally built in Anganwadis.

	4. Child: any child between the ages of 3 years to 6 years. Child friendly toilets are generally built in schools 5. General: All types of general toilet users.
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Integer
Max Size	1
Validation	
Values	1-Physically Handicapped 2-Senior Citizen 3-Baby 4-child 5-General
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	As decided by DWS Domain committee
Version	1.0
Status	Published
Date agreed	
Verification	
Comments	
Date of Publication	28 September 2016

Name of Data Element : Toilet_Type(15.001.007)	
Description of Data Element	Toilets differ in the design of pan or sewage handling unit. Lists of various types of toilets used are placed as Code Directory CD15.003
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Integer
Max Size	2
Validation	
Values	For codes of Toilet type and values refer to Code Directory CD15.003
Default value	

Owner	Ministry of Drinking Water & Sanitation
Based on	As decided by DWS Domain committee and documents available in the Ministry
Version	1.0
Status	Published
Date agreed	
Verification	
Comments	
Date of Publication	28 September 2016

5.2. Entity Name: Educational Institute (15.002)

Name of Data Element : Edu_Inst_Code(15.002.001)	
Description of Data Element	Unique code to identify all the Educational Institutes
Data Element Type (Generic / Custom)	PGAD
Is part of any	
Parts if any	
Data Format	Integer
Max Size	10
Validation	
Values	
Default value	
Owner	Presently Ministry of Drinking Water & Sanitation. Subsequently may be owned by Ministry of Human Resource Development
Based on	As decided by DWS Domain committee
Version	1.0
Status	Published
Date agreed	
Verification	
Comments	
Date of Publication	28 September 2016

Name of Data Element : Edu_Inst_Name (15.002.002)	
Description of Data Element	Name of the Educational Institute
Data Element Type (Generic / Custom)	PGAD
Is part of any	

Parts if any	
Data Format	Varchar
Max Size	250
Validation	
Values	
Default value	
Owner	Presently Ministry of Drinking Water & Sanitation. Subsequently may be owned by Ministry of Human Resource Development
Based on	As decided by DWS Domain committee
Version	1.0
Status	Published
Date agreed	
Verification	
Comments	
Date of Publication	28 September 2016

Name of Data Element : Edu_Inst_Type(15.002.003)

Description of Data Element	<p>Educational Institutes are classified based on the age of the students enrolled and the level of education imparted to its students.</p> <p>These could be :</p> <ol style="list-style-type: none"> 1 - Pre School: A school that provides non-formal/formal pre-school education and also basic health care in some. 2 - Primary School: Institutes where the final stage of compulsory education (also known as “Elementary School”) is imparted to students. These institutes usually have five standards. 4- Upper Primary School: Institutes which enrol students who have completed primary level of education. These schools may have classes upto sixth, seventh or eighth standards 5- Secondary School: Institutes which enrol students who have completed upper primary level of education. These schools may have classes upto ninth or tenth standards 5 - Senior Secondary School: Institutes which enrol students who have completed secondary level of education. These schools may have classes upto eleventh or twelfth standards
Data Element Type (Generic / Custom)	PGAD

Is part of any	
Parts if any	
Data Format	Integer
Max Size	1
Validation	
Values	1- Pre School 2- Primary School 3- Upper Primary School 4- Secondary School 5- Senior Secondary School
Default value	
Owner	Presently Ministry of Drinking Water & Sanitation. Subsequently may be owned by Ministry of Human Resource Development
Based on	As decided by DWS Domain committee
Version	1.0
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Verification	
Comments	
Date of Publication	28 September 2016

Name of Data Element : Village Code (15.002.004) customised from Generic Data Element Land Region Code (G02.01)

Description of Data Element	It refers to the unique code allocated to the Administrative Village where the Educational Institute is located.
Data Element Type (Generic / Custom)	C
Is part of any	
Parts if any	
Data Format	Integer
Max Size	6
Validation	
Values	
Default value	
Owner	Office of RGI
Based on	Document MDDS-Demographic : Version 1.1, November 2011 available at https://egovstandards.gov.in

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Comments	

	the UT or State Government. 3. Local Body: A school that receives Grant-in-Aid / Funds from Local Governing Bodies. 4. Private: A school that is owned and operated by Private Entities.
Data Element Type (Generic / Custom)	PGAD
Is part of any	
Parts if any	
Data Format	Integer
Max Size	1
Validation	
Values	1- Government 2- Government Aided 3- Local Body 4- Private
Default value	1
Owner	Presently Ministry of Drinking Water & Sanitation. Subsequently may be owned by Ministry of Human Resource Development
Based on	As decided by DWS Domain committee
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Date of Publication	28 September 2016

5.3. Entity Name: Waste (15.003)

Name of Data Element : Waste_Classification (15.003.001)	
Description of Data Element	Waste can be broadly classified based on its capability or incapability to get decomposed, either naturally over a period of time, or due to certain other factors. Values as per Code Directory CD15.004
Data Element Type (Generic / Custom)	PGAD
Is part of any	
Parts if any	

Data Format	Integer
Max Size	1
Validation	
Values	For Codes of Waste Classification and values, refer to Code Directory CD15.004
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	As decided by DWS Domain committee
Version	1.0
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Date agreed	
Verification	
Comments	
Date of Publication	28 September 2016

Name of Data Element : Waste_Disposal (15.003.002)	
Description of Data Element	It refers to the various methods used for disposal of Waste. Values as per Code Directory CD15.005
Data Element Type (Generic / Custom)	PGAD
Is part of any	
Parts if any	
Data Format	Integer
Max Size	2
Validation	
Values	For codes of Waste Disposal Methods and their values refer to Code directory CD15.005
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	As decided by DWS Domain committee
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Comments	
Date of Publication	28 September 2016

Name of Data Element : Waste_Type (15.003.003)	
Description of Data Element	Defines the type of Waste commonly found in rural areas Values as per Code Directory CD15.006
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Integer
Max Size	2
Validation	
Values	For codes of Waste_Type and their values refer to Code Directory CD15.006
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	As decided by DWS Domain committee
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Date agreed	
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Comments	
Date of Publication	28 September 2016

5.4. Entity Name: Survey (15.004)

Name of Data Element : Survey_Code (15.004.001)	
Description of Data Element	Unique Code to identify the Survey
Data Element Type (Generic / Custom)	PGAD
Is part of any	
Parts if any	
Data Format	Integer
Max Size	5
Validation	
Values	
Default value	
Owner	Ministry of Drinking Water & Sanitation

Based on	As decided by DWS Domain committee
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Comments	
Date of Publication	28 September 2016

Name of Data Element : Survey_Name (15.004.002)	
Description of Data Element	Name of the Survey
Data Element Type (Generic / Custom)	PGAD
Is part of any	
Parts if any	
Data Format	Varchar
Max Size	100
Validation	
Values	
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	As decided by DWS Domain committee
Version	1.0
Status	Published
Date agreed	
Verification	
Comments	
Date of Publication	28 September 2016

Name of Data Element : Survey_Description (15.004.003)	
Description of Data Element	Brief description of the Survey
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	

Data Format	Varchar
Max Size	250
Validation	
Values	
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	As decided by DWS Domain committee
Version	1.0
Status	Published
Date agreed	
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Comments	
Date of Publication	28 September 2016

Name of Data Element : Survey_Year (15.004.004) customised from Generic Data Element Calendar Year (G00.07)	
Description of Data Element	Year in which the Survey is conducted.
Data Element Type (Generic / Custom)	C
Is part of any	
Parts if any	
Data Format	Char
Max Size	4
Validation	
Values	
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	Document MDDS-Demographic : Version 1.1, November 2011 available at https://egovstandards.gov.in
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Comments	
Date of Publication	16/11/2011

Name of Data Element : Survey_Level (15.004.005)

Description of Data Element	The level at which the survey is conducted Values as per Code Directory CD15.007
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Integer
Max Size	1
Validation	
Values	For codes of Survey_Level and values refer to Code Directory CD15.007
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	As decided by DWS Domain committee
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Date of Publication	28 September 2016

Name of Data Element : Survey_Category (15.004.006)	
Description of Data Element	Describes the type of area under survey which could be either: 1- Urban 2- Rural 3 - Both Urban and Rural
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Integer
Max Size	1
Validation	
Values	1-Urban 2-Rural 3-Both Urban and Rural
Default value	
Owner	Ministry of Drinking Water & Sanitation

Based on	As decided by DWS Domain committee
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Comments	
Date of Publication	28 September 2016

Name of Data Element : Survey_Audience (15.004.007)

Description of Data Element	Individuals, group of individuals from whom data is collected for survey, with the help of a questionnaire. Values as per Code Directory CD15.008
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Integer
Max Size	1
Validation	
Values	For codes of Survey_Audience and values refer to Code Directory CD15.008
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	As decided by DWS Domain committee
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Comments	
Date of Publication	28 September 2016

Name of Data Element : Coordinating Agency Name (15.004.008)

Description of Data Element	Name of the co-ordinating Agency / State Government Department / Ministry responsible for undertaking the survey
Data Element Type (Generic / Custom)	PGWD

Is part of any	
Parts if any	
Data Format	Varchar
Max Size	100
Validation	
Values	
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	As decided by DWS Domain committee
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Verification	
Comments	
Date of Publication	28 September 2016

Name of Data Element : Survey_Type (15.004.009)	
Description of Data Element	Defines the type of survey conducted. Values as per Code Directory CD15.009
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Integer
Max Size	1
Validation	
Values	For codes of Survey_Type and values refer to Code Directory CD15.009
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	As decided by DWS Domain committee
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Date agreed	
Verification	
Comments	
Date of Publication	28 September 2016

5.5. Entity Name: IEC Campaign (15.005)

Name of Data Element : IEC_ID (15.005.001)	
Description of Data Element	Unique ID used to identify an IEC campaign
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Integer
Max Size	2
Validation	
Values	
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	
Version	1.0
Status	Published
Date agreed	
Verification	
Comments	
Date of Publication	28 September 2016

Name of Data Element : IEC_Description (15.005.002)	
Description of Data Element	Brief description of the IEC Campaign including the mode of campaign, issues on which awareness is to be created, etc.
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Varchar
Max Size	250
Validation	
Values	
Default value	

Owner	Ministry of Drinking Water & Sanitation
Based on	
Version	1.0
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Verification	
Comments	
Date of Publication	28 September 2016

Name of Data Element : Coordinating Agency Name (15.005.003)	
Description of Data Element	Name of the co-ordinating agency responsible for conducting the Campaign
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Varchar
Max Size	100
Validation	
Values	
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	
Version	1.0
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Date agreed	
Verification	
Comments	
Date of Publication	28 September 2016

Name of Data Element : IEC_Area Covered (15.005.004)	
Description of Data Element	Describes the geographical area where the IEC campaign is carried out.

	Values as per Code Directory CD15.010
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Integer
Max Size	2
Validation	
Values	For codes of IEC_Area Covered and values, refer to Code Directory CD15.010
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	
Version	1.0
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Verification	
Comments	
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Name of Data Element : IEC_Target Audience (15.005.005)	
Description of Data Element	Refers to the target audience for the IEC Campaign Values as per Code Directory CD15.011
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Integer
Max Size	2
Validation	
Values	For codes of IEC_Target Audience and values, refer to Code Directory CD15.011
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	As decided by DWS Domain committee and documents available in the Ministry
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Verification	
Comments	
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Name of Data Element : IEC_Techniques (15.005.006)

Description of Data Element	Defines what technique is used to promote IEC. Values as per Code Directory CD15.012
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Integer
Max Size	2
Validation	
Values	For codes of IEC_Techniques and values, refer to Code Directory CD15.012
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	As decided by DWS Domain committee and documents available in the Ministry
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Verification	
Comments	
Date of Publication	28 September 2016

6. Metadata of Data Elements – Drinking Water

6.1. Entity Name: Block (15.006)

Name of Data Element : Block_Code (15.006.001)

Description of Data Element	Unique code to identify a block across the country
Data Element Type (Generic / Custom)	PGAD
Is part of any	
Parts if any	

Data Format	Integer
Max Size	10
Validation	
Values	
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	
Version	1.0
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Verification	
Comments	
Date of Publication	28 September 2016

Name of Data Element : Block_Name (15.006.002)

Description of Data Element	Name of the Block
Data Element Type (Generic / Custom)	PGAD
Is part of any	
Parts if any	
Data Format	Varchar
Max Size	100
Validation	
Values	
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	
Version	1.0
Status	Published
Date agreed	
Verification	
Comments	
Date of Publication	28 September 2016

Name of Data Element : District_code (15.006.003) customised from Generic Data Element Land Region Code (G02.01)

Description of Data Element	Unique code of the district to which this block belongs
Data Element Type (Generic / Custom)	C
Is part of any	
Parts if any	
Data Format	Integer
Max Size	3
Validation	
Values	
Default value	
Owner	Office of RGI
Based on	Document MDDS-Demographic : Version 1.1, November 2011 available at https://egovstandards.gov.in
Version	1.0
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Comments	
Date of Publication	16/11/2011

Name of Data Element : Block_ Headquarter (15.006.004) customised from Generic Data Element Address of a Premises (G02.03)

Description of Data Element	Address of Block office / Headquarters of the Block
Data Element Type (Generic / Custom)	C
Is part of any	
Parts if any	
Data Format	Varchar
Max Size	336
Validation	
Values	
Default value	
Owner	Department of Post
Based on	Document MDDS-Demographic : Version 1.1, November 2011 available at https://egovstandards.gov.in
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Verification	
Comments	
Date of Publication	16/11/2014

Name of Data Element : VersionNumber (15.006.005) customised from Generic Data Element Version Number for tracing history (G00.08)

Description of Data Element	Version number of data record to be used for tracing history of changes in values of the record
Data Element Type (Generic / Custom)	C
Is part of any	
Parts if any	
Data Format	Char
Max Size	5
Validation	
Values	
Default value	
Owner	Office of RGI
Based on	Document MDDS-Demographic : Version 1.1, November 2011 available at https://egovstandards.gov.in
Version	1.0
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Comments	
Date of Publication	16/11/2014

Name of Data Element : VersionDate (15.006.006) customised from Generic Data Element Date (G00.01)

Description of Data Element	Date of last update of record
Data Element Type (Generic / Custom)	C
Is part of any	
Parts if any	
Data Format	Date
Max Size	10
Validation	

Values	
Default value	
Owner	Ministry of Drinking Water and Sanitation
Based on	Document MDDS-Demographic : Version 1.1, November 2011 available at https://egovstandards.gov.in
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6.2. Entity Name: Gram Panchayat (15.007)

Name of Data Element : Panchayat_Code (15.007.001)	
Description of Data Element	Unique code to identify a Gram Panchayat in a block
Data Element Type (Generic / Custom)	PGAD
Is part of any	
Parts if any	
Data Format	Integer
Max Size	10
Validation	
Values	
Default value	
Owner	Presently Ministry of Drinking Water & Sanitation. Subsequently may be owned by Ministry of Panchayati Raj
Based on	
Version	1.0
Status	Published
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Comments	
Date of Publication	28 September 2016

Name of Data Element : Panchayat_Name (15.007.002)	
Description of Data Element	Name of the Gram Panchayat
Data Element Type (Generic / Custom)	PGAD
Is part of any	
Parts if any	
Data Format	Varchar
Max Size	100
Validation	
Values	
Default value	
Owner	Presently Ministry of Drinking Water & Sanitation. Subsequently may be owned by Ministry of Panchayati Raj
Based on	
Version	1.0
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Comments	
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6.3. Entity Name: Habitation (15.008)

Name of Data Element : Habitation_Code (15.008.001)	
Description of Data Element	A unique code to identify a Habitation within a Village
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	

Version	1.0
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Comments	
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Name of Data Element : Habitation_Name (15.008.002)	
Description of Data Element	Name of the Habitation
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Varchar
Max Size	100
Validation	
Values	
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	
Version	1.0
Status	Published
Date agreed	
Verification	
Comments	
Date of Publication	28 September 2016

Name of Data Element : Village Code (15.008.003) customised from Generic Data Element Land Region Code (G02.01)	
Description of Data Element	A unique code allocated to the administrative unit of a Village where the Habitation is located.
Data Element Type (Generic / Custom)	C
Is part of any	
Parts if any	
Data Format	Integer

Max Size	6
Validation	
Values	
Default value	
Owner	Office of RGI
Based on	Document MDDS-Demographic : Version 1.1, November 2011 available at https://egovstandards.gov.in
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6.4. Entity Name: Programme (15.009)

Name of Data Element : Programme_Code (15.009.001)	
Description of Data Element	Code which uniquely identifies the Programme
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Integer
Max Size	2
Validation	
Values	
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	As decided by DWS Domain committee
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Verification	
Comments	
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Name of Data Element : Programme_Name (15.009.002)	
Description of Data Element	Name of Programme for example:. National Rural Drinking Water Programme (NRDWP), Swachh Bharat Mission (SBM)
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Varchar
Max Size	250
Validation	
Values	
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	As decided by DWS Domain committee
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Name of Data Element : Programme_Description (15.009.003)	
Description of Data Element	A brief description about the programme, its goals, geographical area of implementation etc.
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Varchar
Max Size	250
Validation	
Values	
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	
Version	1.0

Status	Published
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Comments	
Date of Publication	28 September 2016

Name of Data Element : Programme_Initiator(15.009.004)	
Description of Data Element	<p>“Programme Initiator” refers to the competent authority which initiated the course of action, i.e. initiated the “Programme” and is responsible for implementation.</p> <p>It could be either:</p> <ul style="list-style-type: none"> 1- State 2- Central 3- Any other agency
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Integer
Max Size	1
Validation	
Values	<ul style="list-style-type: none"> 1- State 2- Centre 3- Any other agency
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	As decided by DWS Domain committee
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Verification	
Comments	
Date of Publication	28 September 2016

Name of Data Element : Programme_start (15.009.005) customised from Generic Data Element Financial Year (G00.03)

Description of Data Element	Specifies the year during which the programme will become operational
Data Element Type (Generic / Custom)	C
Is part of any	
Parts if any	
Data Format	Char
Max Size	7
Validation	
Values	
Default value	
Owner	Ministry of Drinking Water and Sanitation
Based on	Document MDDS-Demographic : Version 1.1, November 2011 available at https://egovstandards.gov.in
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Name of Data Element : Programme_InitiatorName(15.009.006)

Description of Data Element	"Programme Initiator Name" refers to the name of the competent authority which initiated the course of action, i.e. initiated the "Programme" and is responsible for implementation eg. Department of Rural Development
Data Element Type (Generic / Custom)	PGAD
Is part of any	
Parts if any	
Data Format	Varchar
Max Size	250
Validation	
Values	
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	As decided by DWS Domain committee

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Comments	
Date of Publication	28 September 2016

6.5. Entity Name: Programme Component (15.010)

Name of Data Element : Prog_component_Code (15.010.001)	
Description of Data Element	A Code of the Programme component towards which Fund is being sanctioned for implementation of the rural drinking water and sanitation programme of the Government of India
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Integer
Max Size	4
Validation	
Values	
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	
Version	1.0
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Comments	
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Name of Data Element : Program_Code(15.009.001)	
Description of Data Element	Code which uniquely identifies the Programme, of which this component is a part
Data Element Type (Generic / Custom)	PGWD

Custom)	
Is part of any	
Parts if any	
Data Format	Integer
Max Size	3
Validation	
Values	
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	
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Name of Data Element : Prog_component_name (15.010.002)	
Description of Data Element	Name of the Programme Component
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Varchar
Max Size	100
Validation	
Values	
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	
Version	1.0
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Verification	
Comments	
Date of Publication	28 September 2016

6.6. Entity Name: Scheme Category (15.011)

Name of Data Element : Scheme_Category_Code (15.011.001)	
Description of Data Element	Code to uniquely identify the scheme category. For example: Piped water Scheme, Hand Pump, Check Dam, Treatment plant.
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Integer
Max Size	2
Validation	
Values	
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	As decided by DWS Domain committee
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Comments	
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Name of Data Element : Scheme_Category_Name (15.011.002)	
Description of Data Element	Name of the scheme category. . The scheme category in conjunction with the Source Category (Data element - 15.014.002, in this document) tells about the source of drinking water and the delivery mechanism. For example an open well is ground water based scheme and is a spot source i.e source and delivery system is at the same place whereas a piped water supply scheme may be either ground water or surface water based and the delivery system is generally away from the source.
Data Element Type (Generic / Custom)	PGWD

Is part of any	
Parts if any	
Data Format	Varchar
Max Size	100
Validation	
Values	
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	As decided by DWS Domain committee
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6.7. Entity Name: Scheme Type (15.012)

Name of Data Element : Scheme_Type_Code (15.012.001)	
Description of Data Element	Code to uniquely identify the Scheme Type. Each state has its own set of scheme types. Under one scheme category, there can be more than one scheme type. However, vice versa does not hold good. Eg. Under Scheme Category - Piped water Supply scheme, there can be multiple scheme types - Mini water supply, combined water supply scheme, regional water supply etc
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Integer
Max Size	2
Validation	
Values	
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	As decided by DWS Domain committee

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Name of Data Element : Scheme_Type_Name (15.012.002)	
Description of Data Element	Short name of the type of scheme, which is state specific and is needed for maintaining state wise repository of scheme types for use by the stakeholders at state, district and subdistrict level
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Varchar
Max Size	100
Validation	
Values	
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	As decided by DWS Domain committee
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6.8. Entity Name: Scheme (15.013)

Name of Data Element : RWS_Scheme_Code (15.013.001)	
Description of Data Element	A unique code to uniquely identify a rural water Supply Scheme/treatment Plant/ Sustainability Structure which is constructed to make a source of water sustainable. 1- Water Supply Schemes include hand pump, bore well,

	<p>Shallow tube well, piped water scheme etc</p> <p>2- Treatment Plant Scheme is generally attached to a parent water supply Scheme for treating the supplied water to make it fit for drinking.</p> <p>3- Sustainability Structures are used to make one water source sustainable. Ex. Recharge Pits, Sub-Surface Dykes, check dams etc.</p> <p>It is proposed that MDWS will maintain the repository of scheme codes for rural water supply (RWS) related schemes.</p>
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Integer
Max Size	6
Validation	
Values	
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	
Version	1.0
Status	Published
Date agreed	
Verification	
Comments	
Date of Publication	28 September 2016

Name of Data Element : RWS_Scheme_Name (15.013.002)	
Description of Data Element	Name of the Rural Water Supply Scheme / Sustainability Structure
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Varchar
Max Size	100
Validation	
Values	
Default value	

Owner	Ministry of Drinking Water & Sanitation
Based on	
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Verification	
Comments	
Date of Publication	28 September 2016

Name of Data Element : RWS_SchemeCategory_Code (15.011.001)	
Description of Data Element	Code to uniquely identify the category of a rural water supply scheme
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Integer
Max Size	2
Validation	
Values	
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	
Version	1.0
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Date agreed	
Verification	
Comments	
Date of Publication	28 September 2016

Name of Data Element : RWS_Scheme_Type_code (15.012.001)	
Description of Data Element	Code to uniquely identify the rural water supply Scheme Type
Data Element Type (Generic / Custom)	PGWD
Is part of any	

Parts if any	
Data Format	Integer
Max Size	2
Validation	
Values	
Default value	
Owner	Ministry of Drinking Water & Sanitation
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Version	1.0
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Comments	
Date of Publication	28 September 2016

Name of Data Element : RWS_Scheme_Description (15.013.003)	
Description of Data Element	Information about the rural water supply scheme comprising of area of coverage, demography of the area of coverage, source details etc.
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Varchar
Max Size	250
Validation	
Values	
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	
Version	1.0
Status	Published
Date agreed	
Verification	
Comments	
Date of Publication	28 September 2016

6.9. Entity Name: Drinking Water Source (15.014)

Name of Data Element : Source_ID (15.014.001)	
Description of Data Element	Unique code to identify a drinking water source in a habitation. It uniquely identifies a Source of water available on surface or underground, which will be used for supplying drinking water to a group of people.
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Integer
Max Size	6
Validation	
Values	
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	
Version	1.0
Status	Published
Date agreed	
Verification	
Comments	
Date of Publication	28 September 2016

Name of Data Element : Source_Category (15.014.002)	
Description of Data Element	<p>Whether :</p> <ol style="list-style-type: none"> 1- Ground Water: Water available in underground aquifers. 2- Rain Water: Rain Water captured / stored for future use. 3- Surface Water: Natural water bodies like river, lake, pond, etc. 4- Traditional Source: Sources where water was collected / stored in some traditional method in olden days. These sources are still in use and are being revived wherever possible. For example: Ooranis in Tamil Nadu, Nadis in Rajasthan, etc.

Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Integer
Max Size	1
Validation	
Values	1-Ground Water 2-Rain Water 3-Surface Water 4-Traditional Source
Default value	1
Owner	Ministry of Drinking Water & Sanitation
Based on	As decided by DWS Domain committee and documents available in the Ministry
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Comments	
Date of Publication	28 September 2016

Name of Data Element : Source_Name (15.014.003)	
Description of Data Element	Name of the water source (viz-a-viz name of river / lake / pond / stream / open well / etc.)
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Varchar
Max Size	100
Validation	
Values	
Default value	

Owner

Name of Data Element : Source_Location (15.014.005) customised from Generic Data Element Address of Premises (G02.03)

Description of Data Element	Description of the location of water source within a Habitation, in respect of other surrounding prominent physical features. For example: 1- Near Village Primary School; 2- In front of house of Mr. X. 3- GPS Coordinates
Data Element Type (Generic / Custom)	C
Is part of any	
Parts if any	
Data Format	Varchar
Max Size	336
Validation	
Values	
Default value	
Owner	Ministry of Drinking Water and Sanitation
Based on	Document MDDS-Demographic : Version 1.1, November 2011 available at https://egovstandards.gov.in
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Comments	
Date of Publication	16/11/2014

Name of Data Element : Source_Functionality (15.014.006)

Description of Data Element	Whether a source of drinking water is : 1- Active (Functional): The water source is called 'Functional', if it is being used for drinking and cooking purposes. 2-Non-Functional: The source of water is called 'Non-Functional', if it is not presently in use for cooking & drinking purpose. This could be due to drying up of the source or due to contamination.
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Integer

Max Size	1
Validation	
Values	1- Active 2- Non-Functional
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	As decided by DWS Domain committee
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Comments	
Date of Publication	28 September 2016

6.10. Entity Name: Water Supply (15.015)

Name of Data Element : Supply_volume (15.015.001) customised from Generic Data Element Volume in Cubic Meters (G00.02-31)

Description of Data Element	Average volume of water (in Cubic Metre) supplied by a water supply scheme per day or per hour to the consumer.
Data Element Type (Generic / Custom)	C
Is part of any	
Parts if any	
Data Format	+ (p,3)
Max Size	4
Validation	
Values	
Default value	
Owner	Ministry of Drinking Water and Sanitation.
Based on	Document MDDS-Demographic : Version 1.1, November 2011 available at https://egovstandards.gov.in
Version	1.0
Status	Accepted
Date agreed	
Verification	
Comments	
Date of Publication	16/11/2014

Name of Data Element : Supply_Duration (15.015.002)

Description of Data Element	Average hours of water supply by a water supply scheme.
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Char (hh:mm)
Max Size	5
Validation	
Values	
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	As decided by DWS Domain committee
Version	1.0
Status	Published
Date agreed	
Verification	
Comments	
Date of Publication	28 September 2016

Name of Data Element : Supply_Type (15.015.003)

Description of Data Element	Whether water supplied to premises is : 1- Metered : Consumers need to pay charges for water consumed by them 2- Unmetered : Consumers do not need to pay any charge for water consumed by them 3- Fixed – Consumers pay a fixed charge
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Integer
Max Size	1
Validation	
Values	1- Metered 2- Unmetered

	3- Fixed
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	As decided by DWS Domain committee and documents available in the Ministry
Version	1.0
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Date agreed	
Verification	
Comments	
Date of Publication	28 September 2016

Name of Data Element : Supply_to (15.015.004)	
Description of Data Element	Whether water from a piped water supply scheme is supplied for : 1- Commercial Use 2- Industrial Use 3- Domestic Use 4- Institutional Use 5- Multiple Uses (Multiple Uses may include commercial &/ or industrial &/ or domestic)
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Integer
Max Size	1
Validation	
Values	1- Commercial Use 2- Industrial Use 3- Domestic Use 4- Multiple Uses
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	As decided by DWS Domain committee
Version	1.0
Status	Published

Date agreed	
Verification	
Comments	
Date of Publication	28 September 2016

6.11. Entity Name: Water Testing Lab (15.016)

Name of Data Element : Lab_ID (15.016.001)	
Description of Data Element	Unique code assigned to the Laboratory where the drinking water sample is tested for presence of any contamination
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Integer
Max Size	5
Validation	
Values	
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	
Version	1.0
Status	Published
Date agreed	
Verification	
Comments	
Date of Publication	28 September 2016

Name of Data Element : Lab_Level (15.016.002)	
Description of Data Element	Level at which the water testing laboratory is situated. The level can be 1- State 2- District 3- Block 4- Sub Division
Data Element Type (Generic / Custom)	PGWD

Is part of any	
Parts if any	
Data Format	Integer
Max Size	1
Validation	
Values	1- State 2- District 3- Block 4- Sub Division
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	As decided by DWS Domain committee and documents available in the Ministry
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Status	Published
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Comments	
Date of Publication	28 September 2016

Name of Data Element : Lab_Name (15.016.003)	
Description of Data Element	Name of the Water Testing Laboratory
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Varchar
Max Size	100
Validation	
Values	
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	
Version	1.0
Status	Published
Date agreed	
Verification	

Comments	
Date of Publication	28 September 2016

Name of Data Element : Lab_Ownership (15.016.004)	
Description of Data Element	Whether the Water Testing Laboratory is owned by : 1- State Govt. 2- Central Govt. 3- Private Owners 4- Educational Institute
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Integer
Max Size	1
Validation	
Values	1- State Govt. 2- Central Govt. 3- Private Owners 4- Educational Institute
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	As decided by DWS Domain committee and documents available in the Ministry
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Name of Data Element : Date_Estd. (15.016.005) customised from Generic Data Element Date (G00.01)

Description of Data Element	Date on which the water testing laboratory was established
Data Element Type (Generic / Custom)	C
Is part of any	
Parts if any	
Data Format	Date (dd/mm/yyyy)
Max Size	10
Validation	
Values	
Default value	
Owner	Ministry of Drinking Water and Sanitation
Based on	Document MDDS-Demographic : Version 1.1, November 2011 available at https://egovstandards.gov.in
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Verification	
Comments	
Date of Publication	16/11/2011

Name of Data Element : Lab_Functionality (15.016.006)

Description of Data Element	Whether the water testing laboratory is : 1- Functional : It is in working Condition 2- Partially Functional: Only few equipment(s) &/ or a small section of the laboratory is functional. 3- Defunct: It is not in working condition
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Integer
Max Size	1
Validation	
Values	1- Functional 2- Partially Functional 3- Defunct

Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	As decided by DWS Domain committee and documents available in the Ministry
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Verification	
Comments	
Date of Publication	28 September 2016

Name of Data Element : Lab_Mobility (15.016.007)	
Description of Data Element	Whether water testing laboratory is : 1- Stationary: The laboratory is housed in a building 2- Mobile: The laboratory may be in a van/boat which is mobile.
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Integer
Max Size	1
Validation	
Values	1- Stationary 2- Mobile
Default value	1
Owner	Ministry of Drinking Water & Sanitation
Based on	As decided by DWS Domain committee and documents available in the Ministry
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Date agreed	
Verification	
Comments	
Date of Publication	28 September 2016

Name of Data Element : Lab_Access (15.016.008)	
Description of Data Element	Whether water testing laboratory is open for Public to get water sample of their house/locality tested, by giving a nominal fee or for free: 1- Yes 2- No
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Integer
Max Size	1
Validation	
Values	1- Yes 2- No
Default value	1- Yes
Owner	Ministry of Drinking Water & Sanitation
Based on	As decided by DWS Domain committee and documents available in the Ministry
Version	1.0
Status	Published
Date agreed	
Verification	
Comments	
Date of Publication	28 September 2016

Name of Data Element : Lab_Skilled_Staff (15.016.009)	
Description of Data Element	Whether the water testing laboratory is equipped with skilled staff for testing: 1- Yes 2- No A “Skilled Worker” is any worker who has some special skill, knowledge, or (usually acquired) ability in their work. A skilled worker may have attended a college, university or technical school. Or, a skilled worker may have learned their skills on the job. In the context of a water testing laboratory, “Skilled Staff” would be any staff member having the requisite skill,

	knowledge, or ability (usually acquired) to complete their testing / analysis / etc. as required in a laboratory.
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Integer
Max Size	1
Validation	
Values	1- Yes 2- No
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	As decided by DWS Domain committee and documents available in the Ministry
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Comments	
Date of Publication	28 September 2016

6.12. Entity Name: Water Quality Testing (15.017)

Name of Data Element : Sample_ID (15.017.001)	
Description of Data Element	Unique code assigned to the water sample collected from a source for testing purposes
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Varchar
Max Size	6
Validation	
Values	
Default value	
Owner	Ministry of Drinking Water & Sanitation

Based on	As decided by DWS Domain committee and documents available in the Ministry
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Name of Data Element : Test_Type (15.017.002)	
Description of Data Element	Whether testing of Water sample is done via : 1- Laboratory Testing 2- FTK: Field Test Kits. Used for preliminary identification of contaminants. It is not a conclusive test.
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Integer
Max Size	1
Validation	
Values	1- Laboratory Testing 2- Field Test Kits
Default value	1
Owner	Ministry of Drinking Water & Sanitation
Based on	As decided by DWS Domain committee and documents available in the Ministry
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Comments	
Date of Publication	28 September 2016

Name of Data Element : Test_Date (15.017.003) customised from Generic Data Element Date (G00.01)

Description of Data Element	Date on which a water sample is tested for presence of any contaminants
Data Element Type (Generic / Custom)	C
Is part of any	
Parts if any	
Data Format	Date (dd/mm/yyyy)
Max Size	10
Validation	
Values	
Default value	
Owner	Ministry of Drinking Water and Sanitation
Based on	Document MDDS-Demographic : Version 1.1, November 2011 available at https://egovstandards.gov.in
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6.13. Entity Name: Water Quality Parameter (15.018)**Name of Data Element : Parameter_ID (15.018.001)**

Description of Data Element	Unique ID to identify the parameter (Contaminant) for which a drinking water sample is tested. Values as per Code Directory CD15.013
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Integer
Max Size	2
Validation	
Values	For codes of Parameter_ID and values refer to Code directory CD15.013

Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	Adopted from BIS
Version	1.0
Status	Published
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Verification	
Comments	
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Name of Data Element : Parameter_Name (15.018.002)	
Description of Data Element	Name of the defined contaminant for which a drinking water sample is tested
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Varchar
Max Size	100
Validation	
Values	For names of the contaminants refer to Code directory CD15.013
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	Adopted from BIS
Version	1.0
Status	Published
Date agreed	
Verification	
Comments	
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Name of Data Element : Measurement Unit_Parameters (15.018.003)	
Description of Data Element	Unit of measurement for a water quality contaminant, which is recorded along with the value of a water sample test result. Values as per Code Directory CD15.015

Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Integer
Max Size	2
Validation	For codes of Measurement Unit_Parameters and values refer to Code directory CD15.015
Values	
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	Adopted from BIS
Version	1.0
Status	Published
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Verification	
Comments	
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Name of Data Element : Parameter_Type (15.018.004)

Description of Data Element	Defines the Type of Parameter. Whether : 1- Chemical 2- Bacteriological 3- Physical 4- Radioactive
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Integer
Max Size	1
Validation	
Values	1- Chemical 2- Bacteriological 3- Physical 4- Radioactive
Default value	
Owner	Ministry of Drinking Water & Sanitation

Based on	Adopted from BIS except Radioactive parameter
Version	1.0
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Date agreed	
Verification	
Comments	
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6.14. Entity Name: Water Treatment Plant (15.019)

Name of Data Element : Water TreatmentPlant_ID (15.019.001)	
Description of Data Element	A Unique code to uniquely identify a water treatment plant. A Water Treatment Plant (WTP) or Water Treatment Works is an industrial structure designed to remove biological or chemical contaminants from water, thereby permitting the treated water to be used for drinking and other purposes.
Data Element Type (Generic / Custom)	PGAD
Is part of any	
Parts if any	
Data Format	Integer
Max Size	6
Validation	
Values	
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	
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Comments	
Date of Publication	28 September 2016

Name of Data Element : Treatment_Plant_Capacity (15.019.002) customised from Generic Data Element Volume in Cubic Meters (G00.02-31)

Description of Data Element	Total volume of water in cubic meters which can be treated per day in a drinking water treatment plant
Data Element Type (Generic / Custom)	C
Is part of any	
Parts if any	
Data Format	Decimal (p,3)
Max Size	10
Validation	
Values	
Default value	
Owner	Ministry of Drinking Water and Sanitation
Based on	Document MDDS-Demographic : Version 1.1, November 2011 available at https://egovstandards.gov.in
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Comments	
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Name of Data Element : Treatment_Plant_Ownership (15.019.003)

Description of Data Element	Describes the ownership status of a drinking water treatment plant. Whether owned by : 1- Central Government 2- State Government 3- Private 4- Community
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Integer
Max Size	1
Validation	
Values	

	1- Central Government 2- State Government 3- Private 4- Community
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	As decided by DWS Domain committee
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Date agreed	
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Comments	
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Name of Data Element : Treatment_Plant_Owner Name (15.019.004)	
Description of Data Element	Complete name of the Owner (Government entity name / private owner name / Company Name / etc) of a drinking water treatment plant
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Varchar
Max Size	100
Validation	
Values	
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	As decided by DWS Domain committee
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Comments	
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Name of Data Element : Treatment Plant_Date_ Estd (15.019.005) customised from Generic Data Element Date (G00.01)

Description of Data Element	Date of establishment of a water treatment plant which is the actual date of commissioning of the plant
Data Element Type (Generic / Custom)	C
Is part of any	
Parts if any	
Data Format	Date (dd/mm/yyyy)
Max Size	10
Validation	
Values	
Default value	
Owner	Ministry of Drinking Water and Sanitation
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Verification	
Comments	
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Name of Data Element : Treatment Plant_Agency_Name (15.019.006)

Description of Data Element	Name of the operating agency responsible for all operations / functioning of the drinking water treatment plant
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Varchar
Max Size	100
Validation	
Values	
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	

Version	1.0
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Date agreed	
Verification	
Comments	
Date of Publication	28 September 2016

Name of Data Element : Treatment_Plant_Functionality (15.019.007)	
Description of Data Element	Status of functionality of a drinking water treatment plant. Whether : 1- Functional : It is in working Condition 2- Defunct : It is not in working condition
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Integer
Max Size	1
Validation	
Values	1- Functional 2- - Defunct
Default value	Specify Default value
Owner	Ministry of Drinking Water & Sanitation
Based on	
Version	1.0
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Verification	
Comments	
Date of Publication	28 September 2016

Name of Data Element : Water Treatment Method (15.019.008)	
Description of Data Element	Lists the various methods by which water is treated/purified in a drinking water treatment plant, for making it suitable for drinking. Values as per Code Directory CD15.014

Data Element Type (Generic / Custom)	PGAD
Is part of any	
Parts if any	
Data Format	Varchar
Max Size	5
Validation	
Values	For codes of Water Treatment Method and values refer to Code directory CD15.014
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	As decided by DWS Domain committee and documents available in the Ministry
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Comments	
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6.15. Entity Name: Fund Sanction (15.020)

Name of Data Element : Fund_Sanction_Code (15.020.001)	
Description of Data Element	A Code to uniquely identify the Fund Sanctions generally called the Sanction Order issued for purpose of rural drinking water supply and sanitation, by the Government of India.
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Integer
Max Size	3
Validation	
Values	
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	As decided by DWS Domain committee

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Verification	
Comments	
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Name of Data Element : Plan_ Year (15.020.002) customised from Generic Data Element Financial Year (G00.03)

Description of Data Element	The financial year for which the work pertaining to implementation of rural drinking and sanitation programme of Government of India, is planned.
Data Element Type (Generic / Custom)	C
Is part of any	
Parts if any	
Data Format	Char
Max Size	7
Validation	
Values	
Default value	
Owner	Ministry of Drinking Water and Sanitation
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Comments	
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Name of Data Element : Fund Sanction_Date (15.020.003) customised from Generic Data Element Date (G00.01)

Description of Data Element	Date on which Fund Amount is sanctioned for purpose of rural drinking water supply and sanitation, by the Government of India
Data Element Type (Generic / Custom)	C
Is part of any	
Parts if any	
Data Format	Date (dd/mm/yyyy)
Max Size	10
Validation	
Values	
Default value	
Owner	Ministry of Drinking Water and Sanitation
Based on	Document MDDS-Demographic : Version 1.1, November 2011 available at https://egovstandards.gov.in
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Comments	
Date of Publication	16/11/2011

Name of Data Element : Fund Sanction_State_Code (15.020.004) customised from Generic Data Element Land Region Code (G02.001)

Description of Data Element	Code to uniquely identify the State for which fund is being sanctioned
Data Element Type (Generic / Custom)	C
Is part of any	
Parts if any	
Data Format	Integer
Max Size	2
Validation	
Values	
Default value	

Owner	Ministry of Drinking Water and Sanitation
Based on	Document MDDS-Demographic : Version 1.1, November 2011 available at https://egovstandards.gov.in
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Comments	
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Name of Data Element : Sanctioned_Amount (15.020.005) customised from Generic Data Element Amount (G00.04)

Description of Data Element	The amount (in Rs.) of funds sanctioned for a particular work
Data Element Type (Generic / Custom)	C
Is part of any	
Parts if any	
Data Format	Decimal (p,2)
Max Size	20
Validation	
Values	
Default value	
Owner	Ministry of Drinking Water and Sanitation
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6.16. Fund Release (15.021)

Name of Data Element : Fund_Release_Code (15.021.001)	
Description of Data Element	A Code to uniquely identify a Fund Release towards implementation of a programme of the government of India
Data Element Type (Generic / Custom)	PGWD
Is part of any	
Parts if any	
Data Format	Integer
Max Size	3
Validation	
Values	
Default value	
Owner	Ministry of Drinking Water & Sanitation
Based on	
Version	1.0
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Verification	
Comments	
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Name of Data Element : Fund_Release_Date (15.021.002) customised from Generic Data Element Date (G00.01)	
Description of Data Element	Date on which the Fund Amount is released
Data Element Type (Generic / Custom)	C
Is part of any	
Parts if any	
Data Format	Date (dd/mm/yyyy)
Max Size	10
Validation	
Values	
Default value	
Owner	Ministry of Drinking Water and Sanitation

Based on	Document MDDS-Demographic : Version 1.1, November 2011 available at https://egovstandards.gov.in
Version	1.0
Status	Accepted
Date agreed	
Verification	
Comments	
Date of Publication	16/11/2011

Name of Data Element : Release_Amount (15.021.003) customised from Generic Data Element Amount (G00.04)

Description of Data Element	The amount (in Rs.) released to implementing agency/ state government for the approved work for which the sanctions have been given
Data Element Type (Generic / Custom)	C
Is part of any	
Parts if any	
Data Format	Decimal(p,2)
Max Size	20
Validation	
Values	
Default value	
Owner	Ministry of Drinking Water and Sanitation
Based on	Document MDDS-Demographic : Version 1.1, November 2011 available at https://egovstandards.gov.in
Version	1.0
Status	Accepted
Date agreed	
Verification	
Comments	
Date of Publication	16/11/2011

7 Annexure – I: Definitions & Acronyms

7.1 Definitions

S. No.	Term	Definition
1.	Advocacy Workshops	Refers to the use of Media; Political / Religious / Opinion leaders; Officials of allied departments; etc. for campaigning purposes. (Source: MDWS)
2.	Anganwadi	Anganwadi is a government sponsored child-care and mother-care center in India. It caters to children in the 0-6 age group. The word Anganwadi means ""courtyard shelter"" in Hindi. They were started by the Indian government in 1975 as part of the Integrated Child Development Services program to combat child hunger and malnutrition. A typical Anganwadi centre also provides basic health care in Indian villages. It is a part of the Indian public health-care system. Basic health-care activities include contraceptive counseling and supply, nutrition education and supplementation, as well as pre-school activities. The centres may also be used as depots for oral rehydration salts, basic medicines and contraceptives. These centres provide supplementary nutrition, non-formal pre-school education, nutrition and health education, immunization, health check-up and referral services of which later three services are provided in convergence with public health systems. (Wikipedia)
3.	Baby Friendly Toilets	Baby Friendly Toilets are those toilets built specifically in Anganwadis for use of children upto the age of 3 years.
4.	Cadastral	A public record, survey, or map of the value, extent, and ownership of land as a basis of taxation (http://www.thefreedictionary.com/cadastral)
5.	Child Friendly Toilets	Child Friendly Toilets are those toilets built specially in schools for use of children between the ages of 3 years to 6 years.
6.	Code Directory	In case of certain Generic Data Elements, their values need to be controlled and defined in advance for using them uniformly across the domain applications. Such predefined values would be stored in prescribed structure, referred as Code Directory. (MDDS-Demographic : Version 1.1)
7.	Community Sanitary	A sanitary toilet complex is an infrastructure for the use of the community and/or floating population. A sanitary toilet complex takes care of safe disposal/reuse of human waste in addition to the objective of providing a toilet facility that enhances privacy and dignity.

S. No.	Term	Definition
	Complexes	Depending on the nature of users, a sanitary toilet complex may be categorized as either a community toilet or public toilet. The design aspect remains the same in both cases. The type of toilet in both cases depends upon the expected profile of users (NBA Guidelines)
8.	Gram Panchayat	Gram panchayats are local self-governments at the village or small town level in India, and the Gram Pradhan is in charge of it. There are about 265,000 gram panchayats in India. The gram panchayat is the foundation of the Panchayat System (Wikipedia)
9.	Habitation	<ol style="list-style-type: none"> 1) A natural environment or locality 2) A place of abode; a residence. (http://www.thefreedictionary.com/habitation) 3) A locality within a village where a cluster of families reside (http://www.thefreedictionary.com/habitation and MDWS)
10.	Household	<ol style="list-style-type: none"> 1) A domestic unit consisting of the members of a family who live together along with nonrelatives such as servants. 2) The living spaces and possessions belonging to such a unit. 3) A person or group of people occupying a single dwelling (http://www.thefreedictionary.com/household)
11.	Mass Media	Refers to the use of TV / Radio / Newspaper / Press Conference / Newsletter / etc. for campaigning purposes. (Source: MDWS)
12.	Mid-Media Activities	Refers to the use of Cultural show; Audio-Visual Show; Audio Play/ Announcement on P.A. System; Exhibitions in Melas; etc. for campaigning purposes. (Source: MDWS)
13.	New Media	Refers to the use of Website; Bulk SMS; E-mail; E-newsletter; etc. for campaigning purposes. (Source: MDWS)
14.	Physical	Loss of or failure to develop a specific bodily function or functions, whether of movement, sensation, coordination, or speech, but

S. No.	Term	Definition
	Handicapped	excluding mental impairments or disabilities. (http://dictionary.reference.com/browse/physically+handicapped)
15.	Print Media	Refers to the use of Leaflets / folders; Flip charts; Best practices charts; User Manuals; BCC tool kit; etc. for campaigning purposes. (Source: MDWS)
16.	Reminder Media	Refers to the use of Wall Paintings; Hoarding; Tin Plate; Posters; Banner; Flex; Bus panels; Kiosks; etc. for campaigning purposes. (Source: MDWS)
17.	Senior Citizen	“Senior Citizen” means any person being a citizen of India, who has attained the age of sixty years or above. (http://dc-siwan.bih.nic.in/senior_citizens_act.pdf)
18.	Social Mobilization	Refers to the use of Gram Sabha / GP meetings; Exposure visits; Mass Meetings; Community Rally/ March; Door-to-door visit; Group meetings; PRA; VWSC meetings; etc. for campaigning purposes. (Source: MDWS)

7.2. Acronyms

Acronym	Meaning
APL	Above Poverty Line
BIS	Bureau of Indian Standards
BLK	Block
BPL	Below Poverty Line
CBO	Community Based Organization
CSC	Community Sanitary Complexes
DRDO	District Rural Development Organization
DTW	Depth To Water
DW	Drinking Water
FTK	Field Testing Kit(s)
Gen	General
Gol	Government of India
GP	Gram Panchayat
GW	Ground Water
HH	Households
HQ	Head Quarter
ICT	Information & Communication Technology
IEC	Information, Education & Communication
MHFW	Ministry of Health & Family Welfare
MHRD	Ministry of Human Resource & Development
MoA	Ministry of Agriculture
MoEF	Ministry of Environment & Forest
MoRD	Ministry of rural Development

Acronym	Meaning
MoUD	Ministry of Urban Development
MoWR	Ministry of Water Resources
MP	Measuring Point
MWCD	Ministry of Woman & Child Development
NBA	Nirmal Bharat Abhiyan
NGO	Non-Government Organization
NGP	Nirmal Gram Puraskar
NRDWP	National Rural Drinking Water Programme
PHY	Physically Handicapped
RGI	Registrar General of India
RW	Rain Water
SHG	Self Help Groups
SW	Surface Water
WTP	Water Treatment Plant

8. Annexure – II: Code Directories along with their ownership and sample values

8.1 List of Code Directories

Ref. No. of Code Directory	Name of Code Directory	Proposed Ownership
Sanitation Section		
CD15.001	Toilet Super Structure	Ministry of Drinking Water & Sanitation
CD15.002	Toilet Location Owner	Ministry of Drinking Water & Sanitation
CD15.003	Toilet Type	Ministry of Drinking Water & Sanitation
CD15.004	Waste Classification	Ministry of Drinking Water & Sanitation
CD15.005	Waste Disposal	Ministry of Drinking Water & Sanitation
CD15.006	Waste Type	Ministry of Drinking Water & Sanitation
CD15.007	Survey Level	Ministry of Drinking Water & Sanitation
CD15.008	Survey Audience	Ministry of Drinking Water & Sanitation
CD15.009	Survey Type	Ministry of Drinking Water & Sanitation

Ref. No. of Code Directory	Name of Code Directory	Proposed Ownership
<u>CD15.010</u>	IEC Area	Ministry of Drinking Water & Sanitation
CD15.011	IEC Target Audience	Ministry of Drinking Water & Sanitation
CD15.012	IEC Techniques	Ministry of Drinking Water & Sanitation
CD15.013	Parameter ID	Ministry of Drinking Water & Sanitation
CD15.014	Water Treatment Method	Ministry of Drinking Water & Sanitation
CD15.015	Parameter Unit (for Measurement)	Ministry of Drinking Water & Sanitation

8.2 Sample Values of Code Directories – Sanitation Section

CD15.001 – Toilet Super Structure
(Reference – Entity 15.001 Toilet)

Toilet Super Structure Code	Values
1.	Wood
2.	Brick

Toilet Super Structure Code	Values
3.	Jute
4.	Plastic
5.	Bamboo
6	Metallic Sheet

CD15.002 – Toilet Location Owner
(Reference – Entity 15.001 Toilet)

Toilet Location Code	Values
1.	Schools
2.	Household – APL
3.	Household – BPL
4.	Community Sanitary Complex (CSC)
5.	Anganwadi
6.	State Government Departments / Local Government Bodies (LGBs)

Toilet Location Code	Values
7.	Other Pvt. Building (Any other building not owned by Govt.)
8.	Other Govt. Buildings (Govt. Buildings other than schools/ Anganwadis)

CD15.003 – Toilet Type
(Reference – Entity 15.001 Toilet)

Toilet Type Code	Values	Description
1.	Direct Single Pit	Excreta fall directly into the sewage storage unit.
2.	Single Pit Latrine	The sewage storage pit is away from the pan / commode and is connected to each other by a pipe of a short length or a covered channel.
3.	Solar Heating Single Vault	Used in dry toilets. The excreta falls into the chamber which uses a passive solar panel to increase the temperature of the chamber, and thereby, dehydrate the faeces.
4.	Urinal	Toilets which are designed only for urination.
5.	Direct Double Dry Pit	The toilet consists of two pits, each covered with a slab with a drop hole and a vent pipe which is further covered by fly screen and one super structure. Only one pit is used at a time.

Toilet Type Code	Values	Description
6.	Double Pit Latrine	Here a single water seal pan connects two pits by pipes. There is an inspection chamber with a “Y” junction built between the pits and the pan, so that the excreta can be channeled into either pit.
7.	Single Vault	A dry toilet with a urine diversion unit with only one collection cum storage unit for the containment of faeces.
8.	Eco-San Indian	Dry toilets with Indian squatting pan which involve urine diversion and recycling of water and nutrients contained in human wastes. It is also known as “Compost Latrines” in India.
9.	Eco-San European	Dry toilets with European commode which involve urine diversion and recycling of water and nutrients contained in human wastes. It is also known as “Compost Latrines” in India.

CD15.004 – Waste Classification
(Reference – Entity 15.003 Waste)

Waste Classification Code	Values	Description
1.	Biodegradable organic	Type of waste which decomposes naturally and is of biological origin like paper, wood, vegetables, animal waste, sludge etc.

Waste Classification Code	Values	Description
2.	Biodegradable Inorganic	Type of waste which decomposes naturally and is composed of material other than plant and animal matter such as sand, dust, glass and many synthetics.
3.	Biodegradable Recyclable	Type of waste which composed of organic waste such as vegetation, food waste, human faeces, cattle dung etc, which can be reused.
4.	Non-Biodegradable Recyclable	Type of wastes that cannot be naturally dissolved but can be recycled Ex. Plastic waste.
5.	Non-Biodegradable/Non-Recyclable & Hazardous	Type of Waste which is most detrimental to the environment. This kind of waste does not decompose, cannot be reused. Ex. Medicines, Batteries, Dried paints etc.

CD15.005 – Waste Disposal
(Reference – Entity 15.003 Waste)

Waste Disposal Code	Values
1.	Soak Pit
2.	Stabilization Ponds
3.	Duckweed Pond system
4.	Anaerobic Filter contact aeration
5.	Open Drains
6.	Septic Tanks
7.	Vermi Composting
8.	Pipe Composting
9.	Pot Composting
10.	Ring Composting
11.	Biogas
12.	Bio-Digester Toilets (DRDO)
13.	Segregation Units

Waste Disposal Code	Values
14.	Sanitary Landfill
15.	Plastic Shredding Units
16.	Incineration Method

CD15.006 – Waste Type

(Reference – Entity 15.003 Waste)

Waste Type Code	Values
1.	Agricultural waste
2.	Garden waste
3.	Cattle waste
4.	Excreta
5.	Urine
6.	Water Treatment Sludge
7.	Kitchen waste

Waste Type Code	Values
8.	Black Water
9.	Grey Water
10.	Sewage sludge

CD15.007 – Survey Level

(Reference – Entity 15.004 Survey)

Survey Level Code	Values
1.	National
2.	State
3.	District
4.	Block
5.	Gram Panchayat
6.	Village
7.	Habitation

CD15.008 – Survey Audience

(Reference – Entity 15.004 Survey)

Survey Audience Code	Values
1.	Individual
2.	Household
3.	Community
4.	Panchayat members

CD15.009 – Survey Type

(Reference – Entity 15.004 Survey)

Survey Type Code	Values
1.	Water Source
2.	Water Quality
3.	Sanitation

Survey Type Code	Values
4.	Drinking Water supply

CD15.010 – IEC Area

(Reference – Entity 15.005 IEC Campaign)

IEC Area Code	Values
1.	Habitation
2.	Village
3.	Gram Panchayat
4.	Block
5.	District
6.	State
7.	Assembly constituency
8	Parliamentary Constituency

CD15.011 – IEC Target Audience

(Reference – Entity 15.005 IEC Campaign)

IEC Target Audience Code	Values
1.	Village Water Sanitation Committee
2.	Panchayat Body (Gram Sabha)
3.	NGOs
4.	Self Help Groups (SHGs)
5.	Community Based Organizations (CBOs)
6.	School Teachers
7.	Children
8.	Women
9.	Village Elders
10.	Youth Groups

CD15.012 – IEC Techniques

(Reference – Entity 15.005 IEC Campaign)

IEC Technique s Code	Values	Description
1.	Mass Media	TV / Radio / Newspaper / Press Conference / Newsletter / etc.
2.	New Media	Website; Bulk SMS; E-mail; E-newsletter; etc
3.	Mid-media activities	Cultural show; Audio-Visual Show; Audio Play/ Announcement on P.A. System; Exhibitions in Melas; Puppet Shows, Nukkad Nataks, Magic Shows etc.
4.	Reminder Media	Wall Paintings; Hoarding; Tin Plate; Posters; Banner; Flex; Bus panels; Kiosks; etc.
5.	Advocacy Workshops	Media; Political / Religious / Opinion leaders; Officials of allied departments; etc
6.	Training/Workshops on IEC	Training programme
7.	Social Mobilization	Gram Sabha / GP meetings; Exposure visits; Mass Meetings; Community Rally/ March; Door-to-to visit; Group meetings; PRA; VWSC meetings; etc.
8.	Print Media	Leaflets / folders; Flip charts; Best practices charts; User Manuals; BCC tool kit; etc.
9.	Awards	State level; District level; BLK level; GP level; etc
10.	IEC in Schools	Discussion in daily prayer; School Cabinet meetings; Rally by school students; Competitions in schools (Essay / Play / Music /

IEC Technique s Code	Values	Description
		Debate / Posters / Quiz); Weekly door-to-door visit by members of School Cabinet; Testing of water sources with FTKs by school children; Posters in Schools; Wall painting in Schools; Best practices Charts; etc.
11.	IEC Gadgets	DVD player; TV Set / Projection Screen; Mini generator; P.A. System; Audio Player;etc.

8.3 Sample Values of Code Directories – Drinking Water Section

CD15.013 – Parameter ID

(Reference – Entity 15.018 Water Quality Parameter)

Parameter ID Code	Values
1.	Color (Hazen Units)
2.	Odor
3.	Taste
4.	Turbidity (NTU)
5.	Dissolved Solids (mg/l)

Parameter ID Code	Values
6.	pH Value
7.	Hardness (mg/l)
8.	Copper Content (mg/l)
9.	Iron Content (mg/l)
10.	Manganese Content (mg/l)
11.	Nitrate Content (mg/l)
12.	Fluoride Content (mg/l)
13.	Zinc Content (mg/l)
14.	Aluminum Content (mg/l)
15.	Chloride Content (mg/l)
16.	Selenium Content (mg/l)
17.	Alkalinity (mg/l)
18.	Calcium Content (mg/l)
19.	Magnesium Content (mg/l)
20.	Residual – Free Chlorine Content (mg/l)

Parameter ID Code	Values
21.	Phenolic Content (mg/l)
22.	Mineral Oil Content (mg/l)
23.	Anionic Detergents (mg/l)
24.	Boron Content (mg/l)
25.	Barium Content (mg/l)
26.	Molybdenum Content (mg/l)
27.	Sulphide Content (mg/l)
28.	Mercury Content (mg/l)
29.	Cadmium Content (mg/l)
30.	Arsenic Content (mg/l)
31.	Cyanide Content (mg/l)
32.	Lead Content (mg/l)
33.	Chromium Content (mg/l)
34.	Poly-nuclear Aromatic Hydrocarbon Content (mg/l)
35.	Pesticide Content (mg/l)

Parameter ID Code	Values
36.	Nickel Content (mg/l)
37.	Polychlorinated Biphenyl Content (mg/l)
38.	Tri-Halomethane Content (mg/l)
39.	Radioactive Alpha Emitters (bq/l)
40.	Radioactive Beta Emitters (bq/l)
41.	Uranium (µg/L)

CD15.014 – Water Treatment Method

(Reference – Entity 15.019 Water Treatment Plant)

Parameter Unit Code	Values
1	Conventional
1.1	Prechlorination
1.2	Aerator
1.3	Flocculation

Parameter Unit Code	Values
1.4	Sedimentation
1.5	Filtration
1.5.1	Rapid Sand Filtration
1.5.2	Slow Sand Filtration
1.6	Postchlorination
2	Unconventional
2.1	Iron Removal
2.2	Defluoridation
3	Desalination
3.1	Reverse Osmosis
3.2	Solar Distillation
3.3	Thermal Desalination
3.4	Multi Stage Flash Distillation (MSFD)
3.5	Multi Effect Distillation (MED)
3.5.1	Multi Effect Distillation – Thermal Vapour Compression (MED-TVC)

Parameter Unit Code	Values
3.5.2	Multi Effect Distillation – Thermal Vapour Compression (MED-MVC)

CD15.015– Parameter Unit (for Measurement)

(Reference – Entity 15.018 Water Quality Parameter)

Parameter Unit Code	Values
1.	Hazel Units
2.	NTU
3.	pH Value
4.	Mg/L
5.	Bq/L
6.	MPN/100ml
7.	µg/L

9. Annexure – III IS-10500 Standard of BIS

S.No.	Description	Unit	BISPermissibleLimit	BISDesirableLimit	ParameterType
1	pH	pH	8.5	6.5	Physical
2	Turbidity	NTU	5	1	Physical
3	Alkalinity	mg/l	600	200	Chemical
4	Aluminium	mg/l	0.2	0.03	Chemical
5	Arsenic	mg/l	0.05	0.01	Chemical
6	Calcium	mg/l	200	75	Chemical
7	Chloride	mg/l	1000	250	Chemical
8	Copper	mg/l	1.5	0.05	Chemical
9	Fluoride	mg/l	1.5	1	Chemical
10	Hardness	mg/l	600	200	Chemical
11	Iron	mg/l	0.3	0.3	Chemical
12	Magnesium	mg/l	100	30	Chemical
13	Manganese	mg/l	0.3	0.1	Chemical
14	Nitrate	mg/l	45	45	Chemical
15	Residual Chlorine	mg/l	1	0.2	Chemical
16	Sulphates	mg/l	400	200	Chemical
17	TDS	mg/l	2000	500	Chemical
18	Coliform	MPN/100ml	0	0	Bacteriological
19	E-Coli (MPN /100 ml)	MPN/100ml	0	0	Bacteriological

10. List of Contributors - Expert Committee Members

S.No.	Name / Designation
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17	State Water and Sanitation Mission, Govt. of Uttar Pradesh
18	Public Health Engineering Department, Govt. of Arunachal Pradesh
19	Public Health Engineering Department, Govt. of Assam
20	RDD, Govt. of Sikkim
21	SWAJAL, Uttarakhand
22	Gujarat Water Supply & Sewerage Board, Govt. of Gujarat
23	Water and Sanitation Support Organisation (WSSO), Water Supply and Sanitation Department, Govt. of Maharashtra

11. Apex Body Review Comments

Reviewer details:

- 1. Kavita Bhatia, Department of Electronics & IT
- 2. Dr. P. Balasubramanian, Open Technology Group (OTG), National Informatics Centre (NIC)
- 3. Amit Kumar Jha Deputy Director MAIT, PHD House, 4th Floor, Ramakrishna Dalmia Wing
- 4. Dr. Meenakshi Mahajan NIC

Sr. No	Apex Body Member Name	Entity Name/ Section	Page No.	Response/Feedback comment	NeST Team	Change Type	Compliance
1.	Kavita Bhatia, Department of Electronics & IT	General Comment :	-	<ul style="list-style-type: none">For elements with cost/fund, volume etc. data format is mentioned as ‘Decimal (p,2)’ where maximum size has been marked as “P”, which can be customized by domain apps. Maximum number should be defined in MDDS and the apps can set their own limits within the apps as per their specific requirements.Each Code Directory in the Annexure should have cross reference to Entities where is has been utilized in main document.	There are 8 instances of decimal values where Value of ‘P’ is to be provided by MDW&S .	Technical	Done

Metadata and Data Standards – Rural Drinking Water and Sanitation Domain

2.	Kavita Bhatia, Department of Electronics & IT	Program me_ Initiator 15.009.004	24	If the initiator is ' 3 - Any other agency '; there should different data elements to capture the Initiator's details like name etc.	What will be possible value of any other agency. Need to provide name of agency,	Technical	15.009.006 added
3.	Kavita Bhatia, Department of Electronics & IT	Habitatio n_ Code 15.008.001	33	Is there a predefined list for the code? If there is there should be a Code directory for it.	What will be possible value. Please define in code directories.	Technical	It is a running number of 10 digits which will be assigned to a habitation
4.	Kavita Bhatia, Department of Electronics & IT	Water Treatmen t Method 15.019.008	42	Code directory number should be CD15.014	Correction to be done	Cosmetic	Done
5.	Kavita Bhatia, Department of	Name of Data Element : Toilet _	47	Numbering in values seems wrong.	Correction to be done	Cosmetic	Done

Metadata and Data Standards – Rural Drinking Water and Sanitation Domain

	Electronics & IT	Status(15.001.004)					
6.	Kavita Bhatia, Department of Electronics & IT	Name of Data Element : Year_ Established (15.002.005) customized from Generic Data Element Calendar Year (G00.07)	53	Owner cannot be DeitY. Owner should be changed appropriately.	Ownership to be confirmed, Educational Institute is owned by Ministry of Human Resource Department and not DeitY	Technical	Done. However it is requested that esteemed committee may revisit this point and agree to consider ownership of customized data element to be same as that of the generic element
7.	Kavita Bhatia, Department of Electronics & IT	Name of Data Element : Block_ Code (15.006.001)	65	Should be taken from MoPR MDDS. Also owner should be changed appropriately.	Ownership to be confirmed, Block is owned by Ministry of Panchyati Raj	Technical	Not complied as of now. MoPR document is in Published stage. Can be decided by Apex Committee

Metadata and Data Standards – Rural Drinking Water and Sanitation Domain

8.	Kavita Bhatia, Department of Electronics & IT	Name of Data Element : Block_ Name (15.006.0 02)	66	Should be taken from MoPR MDDS. Also owner should be changed appropriately.	Ownership to be confirmed, Block is owned by Ministry of Panchyati Raj	Technical	-do-
9.	Kavita Bhatia, Department of Electronics & IT	Name of Data Element : Panchay at_ Code (15.007.0 01)	67	Should be taken from MoPR MDDS. Also owner should be changed appropriately.	Ownership to be confirmed, Block is owned by Ministry of Panchyati Raj	Technical	-do-
10.	Kavita Bhatia, Department of Electronics & IT	Name of Data Element : Panchay at_ Name (15.007.0 02)	68	Should be taken from MoPR MDDS. Also owner should be changed appropriately.	Ownership to be confirmed, Block is owned by Ministry of Panchyati Raj	Technical	-do-
11.	Kavita Bhatia,	Name of Data	70	Should be taken from MoPR MDDS. Also owner should be changed appropriately.	Ownership to be	Technical	-do-

Metadata and Data Standards – Rural Drinking Water and Sanitation Domain

	Department of Electronics & IT	Element : Village Code (15.008.003)		ORGI gives Revenue village code not administrative.	confirmed, Block is owned by Ministry of Panchyati Raj		
12.	Kavita Bhatia, Department of Electronics & IT	Name of Data Element : Supply_ volume (15.015.001)	86	Owner cannot be DeitY. Owner should be changed appropriately.	Ownership to be confirmed	Technical	Done. However it is requested that esteemed committee may revisit this point and agree to consider ownership of customized data element to be same as that of the generic element
13.	Kavita Bhatia, Department of Electronics & IT	Name of Data Element: Date_ Estd. (15.016.005)	91	Owner cannot be DeitY. Owner should be changed appropriately.	Ownership to be confirmed, is it not Ministry of Environment ?	Technical	-do-

Metadata and Data Standards – Rural Drinking Water and Sanitation Domain

14.	Kavita Bhatia, Department of Electronics & IT	Name of Data Element : Test_ Date (15.017.0 03)	96	Owner cannot be DeitY. Owner should be changed appropriately.	Ownership to be confirmed, is it not Ministry of Environment ?	Technical	-do-
15.	Kavita Bhatia, Department of Electronics & IT	Name of Data Element : Treatmen t_ Plant_ Capacity (15.019.0 02)	100	Owner cannot be DeitY. Owner should be changed appropriately.	Ownership to be confirmed, is it not Ministry of Environment ?	Technical	-do-
16.	Kavita Bhatia, Department of Electronics & IT	Name of Data Element : Treatmen t Plant_Da te_ Estd (15.019.0 05)	102	Owner cannot be DeitY. Owner should be changed appropriately.	Ownership to be confirmed, is it not Ministry of Environment ?	Technical	-do-
17.	Kavita Bhatia,	Name of Data	105	Owner cannot be DeitY. Owner should be changed appropriately.	Ownership to be	Technical	-do-

Metadata and Data Standards – Rural Drinking Water and Sanitation Domain

	Department of Electronics & IT	Element : Plan_Year (15.020.002)			confirmed, is it not Ministry of Environment ?		
18.	Kavita Bhatia, Department of Electronics & IT	Name of Data Element : Fund Sanction _ Date (15.020.003)	106	Owner cannot be DeitY. Owner should be changed appropriately.	Ownership to be confirmed, Owner will be department who sanctions the fund	Technical	-do-
19.	Kavita Bhatia, Department of Electronics & IT	Name of Data Element : Sanction ed _ Amount (15.020.005)	107	Owner cannot be DeitY. Owner should be changed appropriately.	Ownership to be confirmed, Owner will be department who sanctions the fund	Technical	-do-
20.	Kavita Bhatia, Department	Name of Data Element :	110	Owner cannot be DeitY. Owner should be changed appropriately.	Ownership to be confirmed,	Technical	-do-

	of Electronics & IT	Release_ Amount (15.021.0 03)			Owner will be department who sanctions the fund		
21.	Dr. P. Balasubramanian, Open Technology Group (OTG), National Informatics Centre (NIC)	General Note:	-	<p>1. Wherever Unique Code is used for locations (like Block, Gram Panchayat, Lab-ID), the guidelines for assigning code for various cases (new/creation, split, merger, etc) are to be clearly spelt. The guidelines used in “MDDS-Demographic: 01, Version: 1.1, November, 2011” (new/creation, split, merger, etc.) may be referred / re-used.</p> <p>2. The definition may include the terms “Village” (a small hamlet / habitation?), “Revenue-Village” (may contain several villages), “Village-Panchayat” (may contain several villages? its boundary may or may not match with boundary of revenue-village) indicating differences.</p>	to be provided by MDW&S	Technical	Done. Mentioned clearly in Page 9
22.	Dr. P. Balasubramanian, Open Technology	Name of Data Element : Edu_Inst	51	The reference “NCERT - 7 th Survey Reports – Enrolment in Schools” (www.ncert.nic.in/programmes/education_survey/7_survey_reports.html) indicates	Educational institutional classification done by	Technical	Additional attributes in the definitions have been added as

	Group (OTG), National Informatics Centre (NIC)	_Type(15.002.003)		<p>additional explanation which may be considered for further improvement;</p> <p><u>School Category</u></p> <p>School category will be determined as per state pattern <u>on the basis of the highest class in a school</u>.</p> <p>For example, in a State where Classes I-V, VI-VIII, IX-X and XI- XII form primary, upper primary, secondary and higher secondary stages respectively, the category of the school will be decided as follows:</p> <ul style="list-style-type: none">• A school having <u>classes up to V</u> will be termed as <u>Primary</u> school.• A school having <u>highest class either VI, VII or VIII</u> will be termed as <u>Upper Primary</u> school.• A school having <u>highest class either IX or X</u> will be termed as <u>Secondary</u> school.• A school having <u>highest class either XI or XII</u> will be termed as <u>Higher Secondary</u> school.	MHRD to be used as the value for this data element, also code directory of those value to be created.		<p>suggested. It has also been mentioned in the entity description that MHRD may examine the entity and attributes defined in the document and advise. Also ownership of this data element has been proposed as - MHRD in the metadata section.</p> <p>As there are only limited values, code directory not created</p>
23.	Dr. P. Balasubramanian, Open Technology Group (OTG), National	Name of Data Element : Toilet_ User(15.001.006)	49	<p>Indicates “5. General: All types of general toilet users. ”. This may be reconsidered for better classification like “5. Toilet for Men”, “6. Toilet for Women”, etc.</p> <p>The reference “The Provision of Public Toilets”</p> <p>(http://www.publications.parliament.uk/pa/cm200708/cmselect/cmcomloc/636/636.pdf)</p>	To be provided by MDW&S		<p>M a n a g e d</p> <p><i>different specifications such as width, breadth, height, and depth of the pan / commode for different types /</i></p>

	Informatics Centre (NIC)			indicates the following explanation for Toilet for Women which may be considered for further improvement; <u>Gender</u> 46. <u>Women</u> take <u>longer</u> to go to the toilet because of “a range of sartorial, biological and functional reasons...Women have <u>more functions</u> than men [and] at any time about a quarter of all women of <u>childbearing age</u> will be menstruating, whereas <u>pregnant women</u> , those at menopause and those with diabetes...will need to use the toilet more often.” 48. The BTA is involved in the update of BS6465 Part 1 2006 and recommends <u>a ratio of provision of 2 female to 1 male facilities.</u>			<i>gender / age group</i> [A A A • ^ ! • A The types of toilets is defined based on the design specs. Comments provided here would be complied with in the individual application databases which may capture details of toilets for men and women
24.	Dr. P. Balasubramanian, Open Technology Group (OTG), National Informatics Centre (NIC)	Name of Data Element : Village Code (15.002.004)	52	Indicates “customised from Generic Data Element Land Region Code (G02.01)” “It refers to the unique code allocated to the <u>Village</u> where the Educational Institute is located”. This may be considered for better explanation; “ <u>Revenue Village</u> ” or “ <u>Administrative Village</u> ”.	To be provided by MDW&S		Done.... Scope and definition of Generic data element - Land Region Code, may need to be enhanced to include Administrative Village also, keeping in view its requirement in

							multiple domains. Mentioned in Page 9
25.	Dr. P. Balasubramanian, Open Technology Group (OTG), National Informatics Centre (NIC)	Name of Data Element : Edu_Inst_Ownership (15.002.006)	53	<p>Indicates Government, Local Body, <u>Government Aided, Private</u> schools. The reference “NCERT - 7th Survey Reports – Enrolment in Schools” (www.ncert.nic.in/programmes/education_survey/7_survey_reports.html) indicates better explanation (with <u>Private Aided, Private Unaided</u>) which may be considered for further improvement;</p> <p><u>13. Management of School</u> The <u>authority</u>, which runs a school, determines its <u>type of management</u>. For the purpose of the survey the following managements have been considered. <u>Government:</u> A Government School is that which is run by the State Government or Central Government or Public Sector Undertaking or an Autonomous Organisation completely financed by the Government. <u>Local Body:</u> A Local Body School is that which is run by Panchayati Raj and local body institution such as Zilla Parishad, Municipal Corporation, Municipal Committee, Notified Area Committee and Cantonment Boards. <u>Private Aided:</u></p>	<p>classification done by MHRD to be used as the value for this data element, also code directory of those value to be created.</p> <p>And confirmed with MHRD</p>		Done with minor modifications as agreed to by few states. The entity definition suggests ownership of MHRD

				<p>A Private Aided School is that which is run by an individual or a private organisation and receives grant from government or local body.</p> <p><u>Private Unaided:</u></p> <p>A Private Unaided School is that which is managed by an individual or a private organisation and does not receive any grant either from government or local body.</p>			
26.	Dr. P. Balasubramanian, Open Technology Group (OTG), National Informatics Centre (NIC)	Name of Data Element : Waste_Classification (15.003.001)	54	<p>Indicates “Waste can be broadly classified based on its capability or incapability to get <u>decomposed</u>, either naturally over a period of time, or due to certain other factors. Values as per Code Directory <u>CD15.004</u> ”; further explanation on Code (5 types of decomposable-wastes) is given in Page-118 (“<u>CD15.004 – Waste Classification</u>”).</p> <p>The codes from “<u>Central Pollution Control Board (CPCB)</u>” may be referred/reused here</p>	To be provided by MDW&S	Technical	No standardized codes could be obtained from CPCB
27.	Dr. P. Balasubramanian, Open Technology Group (OTG), National Informatics	Name of Data Element : Waste_Disposal (15.003.002)	55	<p>Indicates “It refers to the various methods used for disposal of Waste. Values as per Code Directory <u>CD15.005</u> ”; further explanation on Code (16 types) is given in Page-120 (“<u>CD15.005 – Waste Disposal</u>”).</p> <p>The codes from “<u>Central Pollution Control Board (CPCB)</u>” may be referred/reused here.</p>	To be provided by MDW&S		-do-

	Centre (NIC)						
28.	Dr. P. Balasubramanian, Open Technology Group (OTG), National Informatics Centre (NIC)	Name of Data Element : Waste_Type (15.003.003)	55	Indicates “ <u>Defines the type of Waste commonly found in rural areas Values as per Code Directory CD15.006</u> ”; further explanation on Code (10 types) is given in Page-121 (“ <u>CD15.006 – Waste Type</u> ”). The codes from “ <u>Central Pollution Control Board (CPCB)</u> ” may be referred/reused here.	To be provided by MDW&S		-do-
29.	Dr. P. Balasubramanian, Open Technology Group (OTG), National Informatics Centre (NIC)	Name of Data Element : IEC_Area Covered (15.005.004)	63	Indicates “Describes the geographical campaign is carried out. Values as per Code Directory CD15.010”; further explanation on Code (8 types) is given in Page-123 (“ <u>CD15.010 – IEC Area</u> ”). This “Village” may be considered for better explanation.	To be provided by MDW&S		Not clearly understood
30.	Dr. P. Balasubramanian, Open	Name of Data Element :	65	Indicates “Unique code to identify a block across the country”. The “Owner” is indicated as “Ministry of Drinking Water & Sanitation”;	Owner of block is Ministry of		Conscious decision may be

	Technology Group (OTG), National Informatics Centre (NIC)	Block_ Code (15.006.0 01)		it may be “Ministry of Rural Development” / “Ministry of Panchayat Raj”.	Panchayat Raj, Ownership to be confirmed		taken after MDDS-PR is finalised
31.	Dr. P. Balasubramanian, Open Technology Group (OTG), National Informatics Centre (NIC)	Name of Data Element : Panchayat_Code (15.007.0 01)	68	Indicates “Unique code to identify a Gram Panchayat in a block”; it has “10 digit Integer” as Max Size. This may be checked since there was a discussion earlier for “Unique code to identify a Gram Panchayat across the country”; and there is no need to have “10 digit Integer” as Max Size for “Unique code to identify a Gram Panchayat in a block”.	Panchayat Code is defined with size as ‘8’ in Panchayati Raj applications.		Conscious decision may be taken after MDDS-PR is finalised
32.	Dr. P. Balasubramanian, Open Technology Group (OTG), National Informatics	Name of Data Element : Habitation_Code (15.008.0 01)	69	Indicates “A unique code to identify a Habitation within a Village”; it has “10 digit Integer” as Max Size. This may be checked since there is no need to have “10 digit Integer” as Max Size for “A unique code to identify a Habitation within a Village”. (Here, the Owner is indicated as “Ministry of Drinking Water & Sanitation” and it is OK since the Habitation-definition & its area-boundary may vary for different purposes like	To be provided by MDW&S		Done

	Centre (NIC)			providing drinking-water, providing-electricity-supply, providing-school-education, etc). The description of the data-element may be improved as “A unique code to identify a Habitation within a Village in order to provide drinking water & sanitation”.			
33.	Dr. P. Balasubramanian, Open Technology Group (OTG), National Informatics Centre (NIC)	Name of Data Element : Source_Category (15.014.002)	82	Indicates 4 types of water sources. Please indicate where "Man-made sources of water" (like dams, canals) will be accommodated. Option-2 includes “Natural Water Bodies” only; it may also include "Man-made sources of water". Ministry of Water Resources may be consulted.	To be provided by MDW&S	Technical	Accommodated in 15.013.001
34.	Dr. P. Balasubramanian, Open Technology Group (OTG), National Informatics	Name of Data Element : Source_Ownership (15.014.004)	84	Indicates ownership of the source of water. Please note that a landowner may be liable for damages if he negligently pumps groundwater in a manner that causes subsidence of neighbouring land.; how this situation will be dealt? how the leasing of public water-resources (like rivers, lakes) to multinational companies will be addressed ? Ministry of Water Resources may be consulted.	Ownership to be confirmed, Is it Ministry of Water Resources?	Technical	Not found relevant- in rural context.

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	Centre (NIC)						
35.	Dr. P. Balasubramanian, Open Technology Group (OTG), National Informatics Centre (NIC)	Name of Data Element : Supply_Duration (15.015.002)	87	Indicates “Average hours of water supply by a water supply scheme.”. Please clarify if this is expected for every day for a location by a scheme; the periodicity may be indicated. Kindly also note that many locations/habitations in some parts of the country are getting drinking water-supply once in a week, 10 days, two-weeks, etc based on various conditions. These are also need to be addressed.	To be provided by MoDW&S	Technical	Done
36.	Dr. P. Balasubramanian, Open Technology Group (OTG), National Informatics Centre (NIC)	Name of Data Element : Supply_Type (15.015.003)	87	Indicates 2 types, namely metered and unmetered (free/no-payment). There is at-least one more category like “fixed payment case” irrespective of the quantity of consumption; i.e. without metering; this may be proportionate to some criteria like social-common-supply-point, electricity bill, area of the building, location-type, etc. This scenario needs to be addressed.	To be provided by MoDW&S	Technical	Done
37.	Dr. P. Balasubramanian, Open Technology	Name of Data Element : Supply_	88	Indicates 4 types. There are other situations like water-supply to institutional-areas, office-complex-areas, etc. This scenario needs to be addressed.	To be provided by MoDW&S	Technical	Done

	Group (OTG), National Informatics Centre (NIC)	to (15.015.004)					
38.	<p>Amit Kumar Jha</p> <p>Deputy Director</p> <p>MAIT, PHD House, 4th Floor, Ramakrishna Dalmia Wing</p> <p>4/2, Siri Institutional Area, August Kranti Marg, New Delhi - 110016</p> <p>Mobile: +91-9910</p>	General Comment :		<p>In reference to Draft Metadata & Data Standards (MDDS) document of Min. of Drinking Water & Sanitation (MDW&S), we have just one feedback/observation on e-governance part</p> <p>Interoperability between departments will be major factor as it can only be realized when the inter-operational data elements and data usage are determined. E-Governance has to be strictly looked after for feasibility and user convenience for operating on the platform. As a solution hiring consultancy firms from developed nations wherein integration between departments is operational and user convenience is known, will help save us many years of learning. As such we do not have technology penetration and hence learning and upgrades will be slower. Implementing it right for the first time is utmost important.</p>			--

	412 202 Tel: +91-11- 2685 5487 Fax: +91- 11-2685 1321			Overall the document is well planned and hoping to see a seamless implementation.			
39.	Dr. Meenakshi Mahajan NIC	Metadata of the document	2	<p>S. No. 1. Title of the document is given as “Metadata and Data Standards – MoDWS”, whereas the footer mentions “Meta Data and Data Standards for Rural Drinking Water & Sanitation”</p> <p>--- Clarity and uniformity should be there</p> <p>--- Meta Data to be replaced throughout by Metadata, as has been followed in MDDS-Demographic Ver 1.1</p> <p>Further, it should be MDDS-DWS in place of MDDS-MoDWS, in line with MDDS-PR (Panchayati Raj), MDDS-PDS (Public Distribution System) etc.</p>	To be provided by MDW&S	Cosmetic	Done
40.	Dr. Meenakshi Mahajan NIC	Metadata of the document	2	S. No. 4: Version 1.0 to be used in the final version of the document. Till then since it is draft, it may follow the version no. as 0.1, 0.2, ..., 0.99 etc.		Cosmetic	Done

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41.	Dr. Meenakshi Mahajan NIC	Metadata of the document	2	S.No. 5: Draft or Draft for approval may be mentioned		Cosmetic	Done
42.	Dr. Meenakshi Mahajan NIC	Metadata of the document	2	S. No. 9: Enforcement Category should be mentioned--- Mandatory or Advisory, as decided by the Domain Committee of the department.		Cosmetic	Done
43.	Dr. Meenakshi Mahajan NIC	Metadata of the document	2	S. No. 22: Relation The two documents should be mentioned-: (i) MDDS Demographic Ver 1.1 (ii) Institutional mechanism for formulation of Domain Specific Metadata and data Standards		Cosmetic	Done
44.	Dr. Meenakshi Mahajan NIC	Section 1.0 Introduction	8	This section needs to be concise and focus more on the need for Domain specific Metadata and data Standards, which is not coming up in the current write-up. <ul style="list-style-type: none"> In Section 1.0 the contents have been taken from MDDS Demographic Ver1.1, as it is, without considering the relevance and continuity. Contents of Section 2.0 are also taken from an 	To be provided by MDW&S	Cosmetic	Done

				<p>internal document of eGov Standards Division, NIC, given to participants during a workshop on e-Governance standards. Both the sections 1.0 and 2.0, may have to be reviewed and revised, to bring the scope and objective very clear, while maintaining the continuity and flow.</p> <ul style="list-style-type: none">• Further, the methodology need not be described. In fact, the same has already been covered in the “Institutional Mechanism for formulation of Domain Specific MDDS”. A reference to the document may suffice.• There are no bullet points a, b or c on Page 8. Suitable reference may be made to the bullet points in 2.2 series• On page 10, as already mentioned, “Application specific” data elements are not to be considered for standardization. Hence in the table, Column no. 5, the symbol, “A” for application specific to be removed.			
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45.	Dr. Meenakshi Mahajan NIC	General Comment	Page 18 onwards	From this page onwards, the table is disrupted	Size and layout of the table varies. Cell Content which spread over multiple pages creates confusion Metadata Templates are disrupted	Cosmetic	Done
46.	Dr. Meenakshi Mahajan NIC	General Comment	22	Reference has been made to the draft document on MDDS for Panchayati Raj. It is felt that a document still in draft stage may not be referred to. In fact, the approval of MDDS-DWS will also get delayed due to the draft status of Panchayati Raj Document.		Cosmetic	Done
47.	Dr. Meenakshi Mahajan NIC	2.2.3	8	There are no (b) and (c) categories as mentioned in the para		Cosmetic	Done

48.	Dr. Meenakshi Mahajan NIC	Village Code 15.008.003	23	The Village codes have been given to revenue village in the document, MDDS Demographic Ver 1.1. and not the administrative village. May be looked into.	To be provided by MDW&S	Technical	Page 9
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Additional Comments by NeST/STQC

S.no	Data element	Page no	Comment	Compliance
1.	Toilet_ Usage 15.001.002	11	There are multiple value for this data element code directory should be defined for these values	There are limited set of values and since there is only remote possibility of any more additions to this list of values therefore code directory is not needed

2.	Toilet _ Status 15.001.004	12	There are multiple value for this data element code directory should be defined for these values	There are limited set of values and since there is only remote possibility of any more additions to this list of values therefore code directory is not needed
3.	Toilet_ User 15.001.006	13	There are multiple value for this data element code directory should be defined for these values	There are limited set of values and since there is only remote possibility of any more additions to this list of values therefore code directory is not needed
4.	Edu_Inst_ Type 15.002.003	15	There are multiple value for this data element code directory should be defined for these values	There are limited set of values and since there is only remote possibility of any more additions to this list of values therefore code directory is not needed
5.	Edu_Inst_ Ownership 15.002.006	16	There are multiple value for this data element code directory should be defined for these values	There are limited set of values and since there is only remote possibility of any more additions to this list of values therefore code directory is not needed
6.	Survey_ Category 15.004.006	19	There are multiple value for this data element code directory should be defined for these values	There are limited set of values and since there is only remote possibility of any more additions to this list of values therefore code directory is not needed

7.	IEC_ Target Audience 15.005.005	22	Incomplete reference no of code directory is mentioned	Done
8.	IEC_ Techniques 15.005.006	22	Incomplete reference no of code directory is mentioned	Done
9.	Programme _ Initiator 15.009.004	26	There are multiple value for this data element code directory should be defined for these values	There are limited set of values and since there is only remote possibility of any more additions to this list of values therefore code directory is not needed
10.	Source_ Category 15.014.002	34	There are multiple value for this data element code directory should be defined for these values	There are limited set of values and since there is only remote possibility of any more additions to this list of values therefore code directory is not needed
11.	Supply_ to 15.015.004	38	There are multiple value for this data element code directory should be defined for these values	There are limited set of values and since there is only remote possibility of any more additions to this list of values therefore code directory is not needed
12.	Lab_ Level 15.016.002	40	There are multiple value for this data element code directory should be defined for these values	There are limited set of values and since there is only remote possibility of any more additions

				to this list of values therefore code directory is not needed
13.	Lab_ Ownership 15.016.004	40	There are multiple value for this data element code directory should be defined for these values	There are limited set of values and since there is only remote possibility of any more additions to this list of values therefore code directory is not needed
14.	Lab_Functionality 15.016.006	40	There are multiple value for this data element code directory should be defined for these values	There are limited set of values and since there is only remote possibility of any more additions to this list of values therefore code directory is not needed
15.	Parameter_ID 15.018.001	44	Incomplete code directory reference number is mentioned	Done
16.	Parameter Name 15.018.002	45	Incomplete code directory reference number is mentioned	Done
17.	Parameter_ Type 15.0 18.004	46	There are multiple value for this data element code directory should be defined for these values	There are limited set of values and since there is only remote possibility of any more additions to this list of values therefore code directory is not needed

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18.	Treatment_Plant_Ownership 15.019.003	48	There are multiple value for this data element code directory should be defined for these values	There are limited set of values and since there is only remote possibility of any more additions to this list of values therefore code directory is not needed
19.	WaterTreatmentMethod 15.019.008	49	Incomplete reference no of code directory is mentioned	Done
20.	Toilet_ Usage(15.001.002) metadata template	54	Sequence no is incorrect	Done
21.	Toilet _ Status(15.001.004) metadata template	55	Sequence number is incorrect	Done