





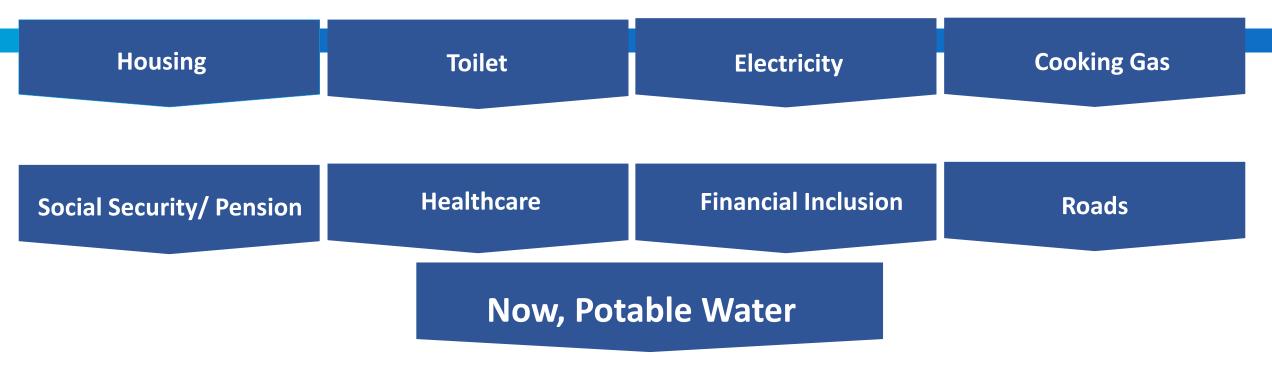


Jal Jeevan Mission

an Introduction

6th August, 2021

Recent initiatives to improve the lives of people



provision of safe tap water to every home by 2024

through Functional Household Tap Connection (FHTC)

Jal Jeevan Mission – Har Ghar Jal



- Every rural household to have Functional Household Tap Connection (FHTC)
- Assured tap water supply in adequate quantity of prescribed quality with adequate pressure on regular and long-term basis.

- Out of 18.93 Crore rural HHs, 3.23 Crore (17%) with tap water connections.
- Remaining 15.70 Crore (83%) HHs are to be provided with FHTC by 2024.
- Scheme launched on 15 Aug, 2019
- Implementation started with release of Operational Guidelines on 25th Dec, 2019.

What's new: Paradigm shift



- Stress on 'functionality' of tap connections
- Focus on water service delivery rather than mere water supply infrastructure;
- Delegation, empowerment and capacity building of GPs i.e. VWSC;
- community ownership contribution in cash, kind or labour of 5%/ 10% of CAPEX
- End-to-end approach: Source sustainability, grey-water reuse and O&M integrated;
- Focus on long-term assured supply;
- Assets created under JJM to be photo-geo-tagged; and
- FHTCs provided will be linked to Aadhar of the head of the household.

Bottom-up approach



- Community ownership approval of 5-year Village Action Plan (VAP) in Gram Sabha;
- VAP co-terminus with 15th Finance Commission period for long-term water security and improved WASH services – owned by village community;
- VAP to have 4 components, viz.:
 - drinking water source augmentation & strengthening;
 - drinking water supply system;
 - grey water treatment and its reuse; and
 - regular operation & maintenance (O&M).
- Long-term water security VAP to be implemented by dovetailing funds at village level, viz.
 MGNREGS, JJM, SBM-G, 15th FC grants for PRIs, DMDF, CSR funds, MP/ MLA–LAD, community contribution, etc.

Bottom-up approach (contd.)



- Preparation of schemes to be based on Village Action Plan (VAP) approved by Gram Sabha;
- VAPs to be integrated into District Action Plan (DAP);
- DAPs to be aggregated to finalise State Action Plan (SAP);
- Skilling of local persons as masons, plumbers, electricians, fitters, pump operators, etc.;
- Training of 5 persons especially women in villages for testing of water samples;
- Capacity building of GP/ VWSC/ Pani Samiti members to manage, operate and maintain the system – development of 'responsible and responsive leadership' at the village level;

Overall Planning Approach



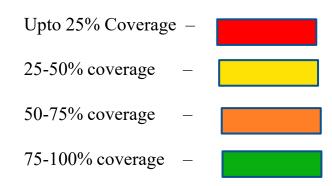
- Assured water supply to every home in every village for the next 30 40 years, to be planned using 'bottom-up and participatory approach';
- In villages with existing piped water supply system, all remaining HHs to be provided with tap water connection by retrofitting/ augmenting, if needed, so that 'no one is left out';
- In isolated tribal hamlets/ hilly/ forested areas, stand-alone solar-based water supply systems to be given priority, with low O&M expenditure and easy to operate & maintain;
- In villages where ground/ surface water of good quality in sufficient quantity available, single village systems (SVS) to be planned and executed;
- Villages with adequate groundwater but having water quality issues, water to be treated before supply to every home, and
- In water-stressed, drought prone and desert areas, regional water supply schemes to be planned and executed.

Gulbarga Yadgir Raichur Uttara Kannada

JJM: Area Coverage Map

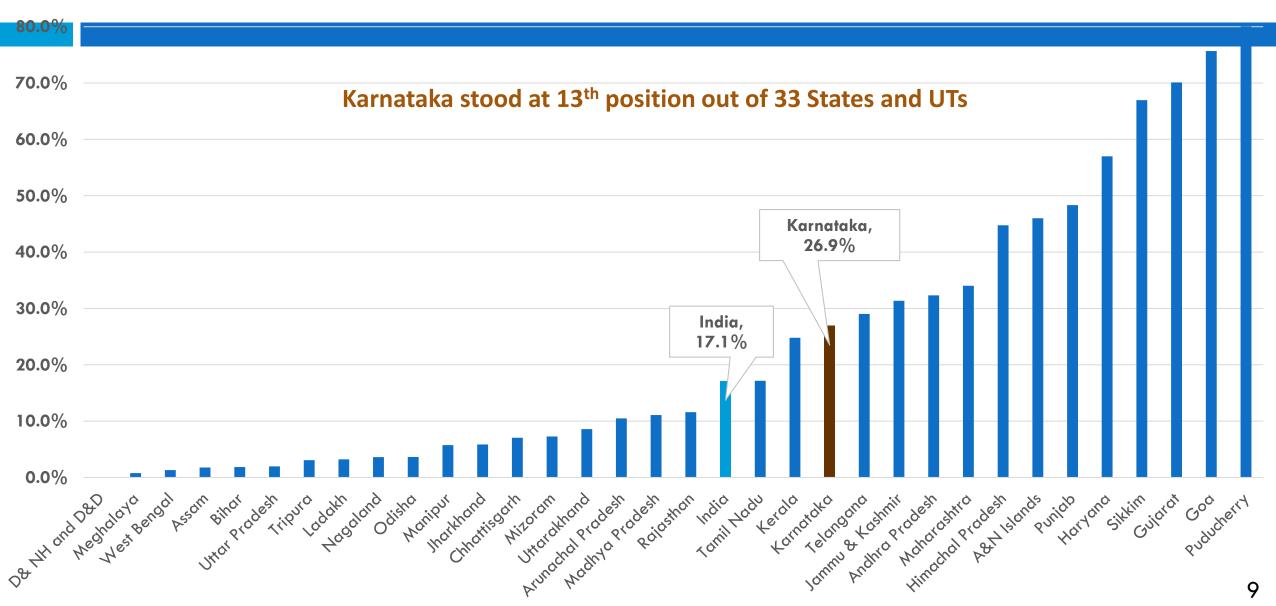
Plans prepared based on the current availability of water will lead to coverage of FHTCs in the state as per this map.

<u>Legend:</u>



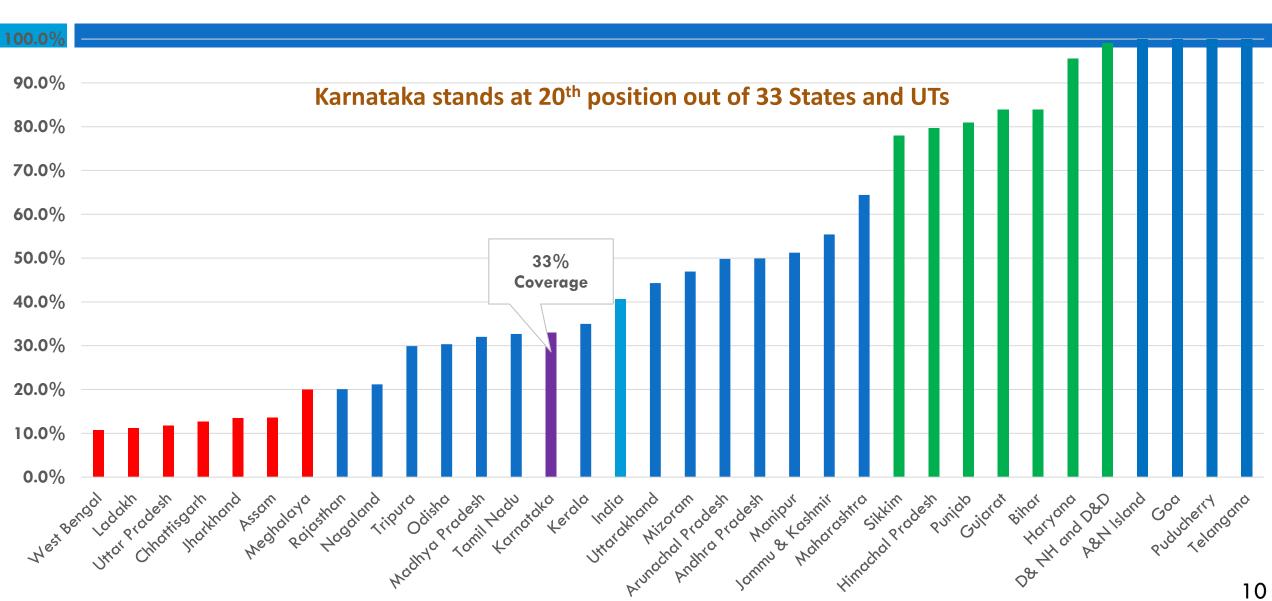
JJM – Coverage: As on 15th August, 2019





JJM - Coverage: As on 17th July, 2021









(100% households with tap water connections)

India

100% FHTC Districts

71

100% FHTC Blocks

814

100% FHTC Panchayats

49,918

100% FHTC Villages

99,201

Karnataka

100% FHTC
Districts

0

100% FHTC Blocks

0

100% FHTC Panchayats

31

100% FHTC Villages

863

JJM – Immediate tasks



- Work to be started in every village, augmentation and retrofitting works in all 28,517 PWS villages to be completed.
- Tap water connection to 5.66 lakh HHs in 2 Aspirational districts.
- Approval of Multi- Village Schemes by SLSSC within next couple of months.
- Piped water supply to remaining schools and AWCs by 15th August, 2021.
- VWSCs to be constituted in remaining 6,375 villages.
- VAPs to be prepared in participatory manner in remaining 9,263 villages; VAPs to ensure dovetailing of resources including 15th FC tied grants.
- Gram Sabha to be conducted on 15th August and 2nd October.
- Water quality to be improved along with accreditation of 32 district labs.
- Public grievance redressal on digital/ online platform.

Way Forward

- Chief Secretary may hold monthly review as Chairman of State Water & Sanitation Mission (SWSM);
- Hon'ble Chief Minister may like to hold joint review with Hon'ble Union Minister, Jal Shakti, on regular basis;
- A high powered 'Committee of Ministers' chaired by Hon'ble Home
 Minister, regular review the implementation and progress; and
- Jal Jeevan Mission to be reviewed in Pragati by Hon'ble Prime Minister
 Thanks

Thank you!



Water Quality Monitoring &

Surveillance

Dr. Pratibha D'Souza
State Technical Coordinator, WQMSP
RDW&SD

Background

- The **United Nations General Assembly**: "Right to safe and clean drinking water, sanitation", essential for life.
- **Niti Aayog** June 2018 report:
 - 75% of the households in India do not have drinking water in their premises.
 - ~70% water is contaminated, India @ 120th amongst 122 countries in the water quality index".
 - About 2,00,000 people die every year mainly due to inadequate access to safe water, leading to water borne diseases such as typhoid, cholera, dysenteries etc.
- Ministry of Jal Shakti constituted for an integrated approach to water conservation and management.
- **Jal Jeevan Mission,** the Flagship programme of Prime Minister, launched on 15th August 2019

Introduction

VISION:

To ensure safe **potable water** is available for all the rural households of Karnataka

OBJECTIVE:

To ensure each and every functional source is tested for its water quality

Laboratories Status

Total labs: 80 Chemical, 80 Microbiology labs (yet to be set up) & 2 State referral labs covering 176 Taluks

Existing:

- 2 State referral Govt and Private labs: KSPCB & Shri. Krishna Aqua Engineering works,
- 31 District/ Division and 46 Sub-Division Chemical labs

To be set up:

- Chemical labs: 1 District lab at Hospet & 2 Sub-Division labs at Kudligi and Dandeli
- Microbiology labs: 32 District/ Division and 48 Sub-Division Microbiology labs (lab floor plans are getting finalized)

RDW&SD Laboratories



Water

- Water in its chemically pure form occurs rarely in nature
- Groundwater quality depends on multiple factors: rock type, irrigation practices, over exploitation and effluents if any.
- Owing to above factors ground water quality is a dynamic one
- Hence, there is a need to constantly monitor the water quality to determine suitability for consumption. Hence the testing is done in Pre-monsoon (Jan-June) and Post-Monsoon (July-Dec)
- **Water quality** refers to physical, chemical, biological and radiological characteristics of water
- Revised BIS 10500: 2012, Ra 2018 standards are followed for drinking water

INDIAN STANDARD DRINKING WATER SPECIFICATIONS <u>IS 10500</u>: 2012, Ra 2018

TEST PARAMETER	ACCEPTABLE LIMIT	PERMISSIBLE LIMIT
Color (hazen units)	5	15
Odour	Agreeable	Agreeable
pН	6.5 – 8.5	No relaxation
Turbidity, NTU	1	5
Specific Conductance, µS/cm		9
Alkalinity as CaCO ₃ , mg/l	200	600
Total Dissolved Solids as TDS, mg/l	500	2000
Total Hardness as CaCO3, mg/l	200	600
Calcium as Ca, mg/l	75	200
Magnesium as Mg, mg/l	30	100
Chloride as Cl, mg/l	250	1000
Fluoride as F, mg/l	1	1.5
Sulphate as SO ₄ , mg/l	200	400
Nitrate as NO ₃ , mg/l	45	No relaxation
Iron as Fe, mg/l	1	No relaxation
Arsenic as As, mg/l	0.01	No relaxation
Total coliform/ 100ml	Shall not be detectable in any 100ml of sample	-
E.coli/ 100ml	Shall not be detectable in any 100ml of sample	-

Why Water Quality Monitoring?

It serves as a tool to identify safe drinking water, whether at the source, within a piped distribution system, or consumer end.

Objectives of water quality monitoring:

- Verifying safety of drinking water
- Investigating & correlation with disease outbreaks
- To assess the type of water purification technology required
- Validating process and preventive measures (WPPs functioning etc.)
- To evaluate water quality trend over a period of time

Concept of Monitoring & Surveillance

Monitoring:

- Laboratory and / or Spot Testing of water samples collected from water sources and FHTCs.
- It is the responsibility of **RWS Dept.**

Surveillance:

- Keeping a careful watch at all times, from the public health point of view over the safety and acceptability of drinking water supply.
- It is the responsibility of GPs/rural community.

Key components of Surveillance

- 5 women VWSC members to do the following:
 - Testing of 100% drinking water sources including private sources and anganwadi and Govt. schools sources by FTK & bacteriological vials.
 - Refer positively tested samples to nearby RDW&SD WQ testing laboratories
 - Sanitary survey (yearly twice)
 - Data sharing with GP members, VWSC and concerned RWS officials
 - FTK & bacteriological vials test results & sanitary inspection report to be submitted to RWS Dept.
- Purchase, distribution and training on FTKs and H2S vials is the responsibility of
 Division Executive Engineers
- FTKs and H₂S vials **testing, sanitary survey and reporting in WQMIS/IMIS** responsibility lies with **PDOs**, which has to be regularly monitored by AEEs

Water Quality Monitoring & Surveillance Mechanism

Presumptive Testing via Field Test Kits & Bacteriological Vials (6022 GP)

(5 VWSC Women members, Waterman and G.P Secretary)



Detail laboratory Testing @ 46 Sub-Division Laboratories
(all sources in lab jurisdiction)
(Headed by AEEs of Concerned Sub divisions)



Detail laboratory Testing @ 31 Division Level Laboratories (all sources in lab jurisdiction & positive samples from Taluka) (Headed by EEs of Concerned Divisions)

Govt. & Pvt. State Referral Laboratory (KSPCB & Shri. Krishna Aqua Engineering Works, crosscheck of 5% samples including positive samples from Districts)

Water Quality Monitoring & Surveillance Mechanism

contd...



- Field test kit analysis of parameters (pH, Cl, TH, Alk, Fe, NO₃, F) and H₂S Vials Testing for Total Coliforms and E.Coli
- Water Sample collection using Time and Geo Stamp Application.



Lab analysis of 16 parameters (Colour, odour, taste, pH, turb, TDS, EC, TH, Ca, Mg, Alk, Cl, F, SO₄, NO₃, Fe)



Around 3000 samples analyzed/yr/lab



WQMIS/IMIS data entry



Analysis carried out for ~1,20,000 drinking water sources

• Borewells, Delivery Points, WPPs (raw & treated water) and Random FHTCs as per JJM Guidelines

Water Quality Management Information System (WQMIS)

National Jal Jeevan Mission in partnership with Indian Council of Medical Research (ICMR) has developed an online portal on "Water Quality Management Information System (WQMIS)".

WQMIS benefits:

- 1. Automated data flow: sampling, analysis, reporting and decision making;
- 2. In case of contaminations, immediate remedial actions can be initiated by DWSM member secretary;
- 3. Easy management of inventories, human resources and financial transaction of the laboratories;
- 4. Laboratories are **accessible to public** through online mode; a nominal fee of Rs. 1150/- is charged to test 16 basic parameters.

NABL Accreditation/Recognition

- NABL stands for National Accreditation Board for Testing and Calibration Laboratories.
- Requirements: Laboratory infrastructure, competent trained manpower, calibrated instruments, requisite documentation, proficiency proofs
- NABL provides an impartial assessment of the quality standards being followed by labs
- Laboratory compliance and testing have to be according to ISO/ IEC 17025: 2017
- Once the lab applies for NABL accreditation, adequacy audit is conducted, followed by detailed audit to test whether the technical competency and management system requirements are being fulfilled or not

Steps being taken for NABL Accreditation

- Recruitment of competent personnel and their capacity building
- Video documentation of Water Quality Analysis
- Standard reference rates consolidated for Chemical and Microbiology laboratories requirements
- Specifications for Chemical and Microbiology labs to be set up circulated and layout plan for each lab is examined and finalized for infrastructure upgradation
- Four level documentation: QM, MSP, SoP and documentation formats
- AMC and external calibration of Instruments ensured
- IQC, ILC and PT to demonstrate competency in testing
- Internal audit through NABL assessors
- Management review meeting and corrective actions
- Performance review of the labs through regular VCs.
- Field visits and remote monitoring to ensure preparedness for NABL accreditation

Status of NABL Accreditation

NABL accredited Labs:

- Dakshin Kannada District Lab
- Bengaluru Urban District Lab
- Bengaluru Rural District Lab
- Chikballapura District Lab

NABL accreditation application filed for 8 labs:

- Belagavi District Lab
- Dharwad District Lab
- Mandya District Lab
- Vijaypura District Lab
- Ramnagara District Lab
- Mysuru District Lab
- Kalaburagi District Lab
- Haveri District Lab

Impact of NABL Accreditation

- NABL approval has boosted confidence of the lab personnel and instilled a sense of responsibility
- Quality Assurance standards as per NABL requirements are being complied, hence supply of safe potable water being ensured and hence consumers are also satisfied.
- A satisfaction for the District authority with regard to competency of WQ testing and hence keeping up with the public trust.
- Improvement in the long term performance of the laboratory.
- Increased credibility of laboratory among Public Users which boosts their confidence to opt for testing in Govt. laboratory at a nominal rate

1

A CASE STUDY OF DAKSHINA KANNADA DISTRICT LABORATORY, RDW&SD, GoK

ಕರ್ನಾಟಕ ನಿರ್ದೇಶಕರ ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ನೈರ್ಮಲ್ಯ ಇಲಾಖೆ, ರಕ್ಷಿಣ ಕನ್ನಡೆ ವಿಭಾಗ, ಮಂಗಳೂರು. ಜಿಲ್ಲಾ ಮಟ್ಟರ ಕುಡಿಯುವ ನೀರಿನ ಗುಣಮಟ್ಟ ಪರೀಕ್ತಾ ಪ್ರಯೋಗಾಲಯ RURAL DRINKING WATER & SANITATION DEPARTMENT DAKSHINA KANNADA DIVISION, MANGALORE. DISTRICT LEVEL WATER QUALITY TESTING LABORATORY

1st NABL accredited laboratory





National Accreditation Board for Testing and Calibration Laboratories

NARL

CERTIFICATE OF ACCREDITATION

WATER QUALITY TESTING LABORATORY, DAKSHINA KANNADA DIVISION, RURAL DRINKING WATER AND SANITATION DEPARTMENT

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

2ND FLOOR, ZILLA PANCHAYATH BUILDING, RURAL DRINKING WATER AND SANITATION DIVISION, KOTTARA, MANGALORE, DAKSHIN KANNAD, KARNATAKA, INDIA

in the field of

TESTING

Certificate Number:

Issue Date: 30/06/2021

Valid Until:

29/06/2023

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.mabl-india.org)

Name of Legal Identity: RURAL DRINKING WATER AND SANITATION DEPARTMENT, KARNATAKA

Signed for and on behalf of NABL

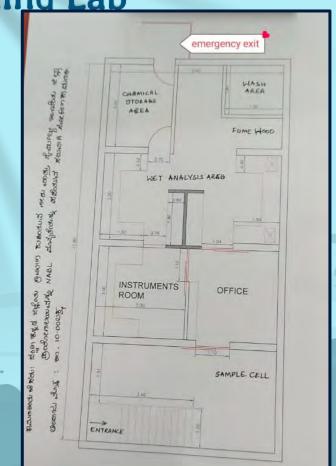




N. Venkateswaran Chief Executive Officer 19

Upgradation of Existing Lab

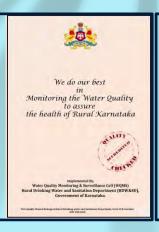




4 Level Documentation

Level - I Quality Manual





Level - II Management System

Procedures

Level - IV

Formats

&



Level - III

Standard

Operating

Procedures







Registers

	I. MASTER LIST OF DOCUMENTATION FORMATS				
SL No.	Format No.	Name			
116	#EAW/ED/WGMSP/HC/ICC	Hillinry out-i			
2;	REWSD/WQMSP/SOP/XX	Standard Operating Procedure			
3.	EDWSD/WQMSP/BHT/XX	Imtrumento			
14.	REWSO/WQMSP/STO/RE	Californian/Standardistilion (introdu			
./5	REWOD/WQMSP/85/01	Robertson (Gardenla			
6	REWILD/WOMSP/1Q/91	Mornal Quality Checks			
7.	REWSD/WQMSP/A0/81	Audit Observations			
10	HEWSD/WOMSP/AP/01	Audit Pinn.			
4	REWSO/WOMSP/AS/01	Biofit Summity			
.10:	REWID/WQMSP/TR/ST	Induction Training Street			
11	BDW3D/WQMSP/TB/92	On Job: Truiting Floriest			
.12.	REWEND/INQMSIP/TR/03	Training Data depot			
1.1.	REWID/WOMEN/TR/64	Additional Ventuing			
24.	REWSD/WQMSP/TE/81	Tecturical evaluation			
11.	REWAD/WOMER/TC/61	Technical Corregions Register			
16	RDWSD/WQMSP/FR/RT	Outmer feedback			
17	ROWND/WQMSP/FR/03	Training trouburk			
10.	sowio/wqwsp/wii/et	Management Review Agenda			
19.	REWYD/WQMSP/MR/02	Minutes of ciview menting			
70.	REWID/WQMSP/NC/01	Non-Confermance			
-21.	#DWSD/WQMSP/Tc#/III	Test Report format			
12.	REWISD/WQMSP/CC/93.	Critical Chemical lin			
23.	RDWSD/WUNSP/TP/81	Training Plan			
24.	RDWSD/WQMSF/SHI/01	Skill Matrix for Lab equipment			
25.	nowso/woeneywayez	Acceptance Circuit Instrument A Acceptance Circuit			
26	REWSD/WQMSP/RT/01	Replicate Test Focusal .			
22.	REWISD/WQMSP/NeT/R1	Replicate Test using different instruments			

28 RDWSD/WQNSF/SS/81

SL No.	Format No.	Name
1	REWISE/WOMSP/SOP/XX	Standard Operating President
.2	BDWSD/WQHSP/SOF/91	SOF terpif
(3)	REWSD/WQMSP/SUP/RC	50P for Specific conductivity
ı	RDWSD/INQMSP/SOP/03	SOF But TOS
5	KDWSE/WQMSF/SOF/H4	SOF for Treballty
6	RDWSD/MQMSP/SOP/IIS	SOP for Adultisity
7	REMISE/MONSP/SOP/IN	SSF for Total Hainbress
	KDWSD/WQNSP/SOP/87	SOP for Calcium
- 1	REDWISE/REQUEST/SOPYRIE	SOF for Magnessum.
19	kowstywqusy/sog/er	500 (or Oblerate
11	sawsb/wqxss/sur/18	SOP for tress
12.	RDWSB/WI)MSP/S0F/11	500' for Flourish
13	RDWSb/wQMSP/S0P/12	SSP hat Natione
14.	RDWSD/WQMSP/SOF/LS	SOP for Arvenic
15	RDWSD/WQNSP/SOP/16	900 for Solphate
16	BDWSD/MQMSP/SOP/15	50P for Determination of Total Collins
17	SERVISO/WIGHSP/SOP/24	SOP for Determination of E. Coli.
38	RDWSD/WQMSP/SOF/17	SOP for Lab Sidety Procedures
19	RDWSD/WQMSP/SOP/18	507 for Boles & Responsibility
28	RDWSD/MSP/SOP/18	50P for Laboratory wastermanagemen

Audit

Compliance

Sample Receipt & Documentation Area







- Sample receipt area provided separately for receiving samples and checking its condition.
- · Organized Documentation room being maintained for safe custody of documents and referral books

Wet Analysis Room





From wooden table to dedicated Titration platform for conducting titrations along with the provision of cabinets to store chemicals and other requirements handy, thereby improving the efficiency of analysis.

Instrumentation Room





Partitions between wet analysis room and instrumentation area alongwith AC for maintaining environmental conditions.

AR Grade Chemicals & CRMs









AR Grade Chemical

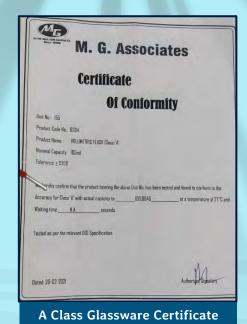
Certificate of AR Grade Chemical

Certified Reference Material

Certificate of CRM

Glassware A & B Class





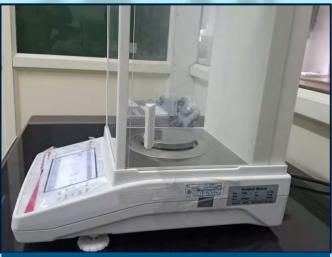


Earlier B class glasswares were used. Now for volumetric measurements only A class glasswares with calibration certificates are used and for other requirements B class glasswares are used

Instrument: Internal & External Calibration



Analytical Balance on Anti Vibration Table with IOP & History Card



External Calibration Label: Calibration date Calibration due date Calibrated by Signature



External Calibration Certificate



Internal Calibration Record

Sample retention





Earlier samples were retained at normal room temperature conditions and in open. Now Samples are retained in cold storage for a period of 15 days, with the maintenance of environmental conditions.

Safety Measures Followed In The Lab

















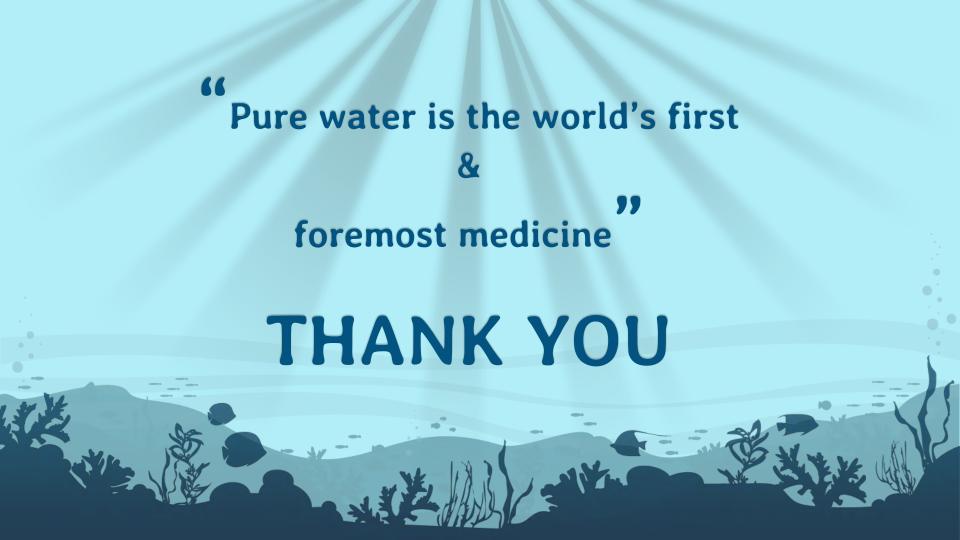
Liquid waste disposal



The liquid waste generated from the titrations and instrumental analysis is collected in polypropylene drums, neutralized with acid/base and then discharged to the drain

Further actions to be Initiated

- Heavy Metal analysis Instrument: ICPMS to be procured 1 for each circle.
- Till Microbiology labs are setup analysis of the existing sources for Microbiological parameters (Total Coliform and E.Coli) will be done through 3rd party NABL Accreditation laboratory.







KARNATAKA STATE POLICY AND STRATEGY FOR SANITATION AND WASTE MANAGEMENT IN RURAL AREAS

Rural Drinking Water and Sanitation Department (RDW&SD)

- VACUUM IN POLICY AND LAW WITH RESPECT TO RURAL WASTE MANAGEMENT
- TO PUT IN PLACE AN ENFORCEABLE UNIFORM FRAMEWORK WHICH COULD BE LOCALIZED
- PROVIDE A SHARED VISION FOR ALL FUNCTIONARIES
- CLARITY IN ROLES AND RESPONSIBILITIES, PROCESS OF WASTE MANAGEMENT, FINANCIAL VIABILITY & MONITORING OF SYSTEMS



BACKGROUND FOR THE POLICY & STRATEGY FRAMEWORK



POLICY

VISIONARY &
ASPIRATIONAL DOCUMENT

CONTAINS

OBJECTIVES,

GUIDING PRINCIPLES

APPROACH

FOR SOLID AND LIQUID WASTE MANAGEMENT



STRATEGY

IMPLEMENTATION DOCUMENT
CONTAINS

PLANNING,
FINANCING,
TECHNOLOGIES INCLUDING
NORMATIVE STANDARDS,
CAPACITY BUILDING,
MONITORING & EVALUATION,
IEC & BCC ACTIVITIES



BYE-LAWS

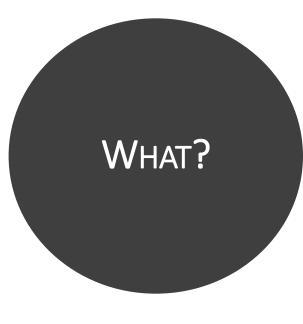
ENFORCEMENT DOCUMENT



ROLES, RESPONSIBILITIES AND DUTIES OF DIFFERENT STAKEHOLDERS,

DETAILS OF PENALTIES & USER FEES

GRIEVANCE REDRESSAL



COMPONENTS OF THE FRAMEWORK

STEPS TAKEN FOR IMPLEMENTATION



APPOINTMENT
OF QUALIFIED
MANPOWER AT
STATE &
DISTRICT
LEVELS

30 STATE
CONSULTANTS
150 DISTRICT
CONSULTANTS



CONTINUOUS
TRAINING &
CAPACITY
BUILDING

Workshops

TRAINING SESSIONS BY EXPERTS

SITE VISITS

STUDY MATERIAL



PILOT PROJECTS IN DIFFERENT AREAS

DECENTRALISED
WET WASTE
MANAGEMENT

DRY WASTE CENTRES & MATERIALS RECOVERY FACILITIES

SANITARY WASTE MANAGEMENT





IEC AND BBC ACTIVITIES

AWARENESS PROGRAMS

SENSITISATION WORKSHOPS

CONTINUOUS & CONSISTENT BEHAVIOURIAL CHANGE ACTIVITIES



INTRODUCTION AND BACKGROUND

- THE POLICY IS BASED ON THE SBM (G) GUIDELINES, KARNATAKA GRAM SWARAJ AND PANCHAYAT RAJ ACT 1993, ENVIRONMENT PROTECTION ACT 1986, SWM RULES 2016 & PWM RULES 2016
- MANAGEMENT OF HAZARDOUS WASTE, BIO-MEDICAL WASTE, E-WASTE, CONSTRUCTION
 AND DEMOLITION WASTE & INDUSTRIAL WASTE IS EXCLUDED FROM THE SCOPE OF THIS
 POLICY
- THIS POLICY IS APPLICABLE TO ALL THE GRAM PANCHAYATS IN THE STATE OF KARNATAKA.
- GRAM PANCHAYATS HAVE THE PRIMARY RESPONSIBILITY AT DECENTRALISED LEVEL TO
 PROVIDE PROPER SANITATION AND WASTE MANAGEMENT FACILITIES WITH HANDHOLDING
 SUPPORT FROM THE STATE GOVERNMENT

VISION OF THE POLICY

TO PROVIDE SAFE,
AFFORDABLE, SUSTAINABLE,
INCLUSIVE SANITATION AND
WASTE MANAGEMENT TO
EVERY INDIVIDUAL IN RURAL
KARNATAKA LEADING TO
IMPROVED PUBLIC HEALTH
AND ENHANCED RECOVERY OF
RESOURCES

INTRODUCTION & BACKGROUND OF THE POLICY

AIMS & OBJECTIVES OF THE POLICY



SEGREGATION AT SOURCE AND PROCESSING OF 100% OF BIODEGRADABLE WASTE

20% OF GPS BY MARCH 2020 50% OF ALL GPS BY MARCH 2021 100% BY MARCH 2022



100% REUSE,
RECYCLE OR
PROCESSING OF THE
NON-BIODEGRADABLE
WASTE WITH FOCUS
ON MINIMIZING
TRANSPORTATION TO
LANDFILL.

20% OF GPS BY MARCH 2020 50% OF ALL GPS BY MARCH 2021 100% BY MARCH 2022



EFFECTIVE
IMPLEMENTATION
OF KARNATAKA
PLASTIC BAN

IN ALL RURAL AREAS
WITHIN THE STATE



ZERO DUMPING OR BURNING OF WASTE IN OPEN SPACES.



CONVERGENCE OF DRY WASTE&

DOMESTIC

HAZARDOUS WASTE

MANAGEMENT

BETWEEN RURAL

AND URBAN AREAS

AT TALUK OR

DISTRICT LEVEL

BY MARCH 2022.



TO INCULCATE THE
4R APPROACH (I.E.
REDUCE, REUSE,
RECYCLE AND
RECOVER)
TOWARDS WASTE
THROUGH
INTENSIVE IEC AND
BCC ACTIVITIES.



REDUCTION IN
ADVERSE AFFECTS
OF IMPROPER SOLID
AND LIQUID WASTE
MANAGEMENT ON
ENVIRONMENT
AND HEALTH OF
LOCAL POPULATION
IN RURAL AREAS.

AIMS & OBJECTIVES OF THE POLICY



ELIMINATE OPEN
DEFECATION THROUGH
ACCESS TO TOILET AND
ENSURE SUSTAINED USAGE
OF THE FACILITIES
THROUGH AWARENESS
AND COMMUNITY
PARTICIPATION



IMPROVE PUBLIC
HEALTH AND HEALTH OF
SANITATION WORKERS
THROUGH PROMOTION
OF SAFE PERSONAL AND
PUBLIC HYGIENE
PRACTICES



ENSURE NO EXPOSURE OF
HUMAN FAECES BY
PROVIDING SAFE
CONTAINMENT, COLLECTION
& TREATMENT. COMPLIANCE
WITH PROHIBITION OF
EMPLOYMENT AS MANUAL
SCAVENGERS AND THEIR
REHABILITATION ACT 2013



ENSURE NON-CONTAMINATION
OF LAND AND WATER
RESOURCES BY WASTEWATER BY
PROVIDING APPROPRIATE AND
LOW-COST, MINIMAL
MAINTENANCE TREATMENT
FACILITIES



ENSURE MAXIMUM
RESOURCE RECOVERY
AND REUSE THROUGH
PROPER LIQUID WASTE
MANAGEMENT
PRACTICES

100% ODF STATUS IS MAINTAINED BY CONSTRUCTING NEW TOILETS FOR EVERY NEW HOUSE WITH APPROPRIATE CONTAINMENT

CONVERT SINGLE-PIT TOILETS TO TWIN-PIT OR ANY OTHER ACCEPTABLE SAFE MODE OF CONTAINMENT

PROVIDE 100% CONTAINMENT AND TREATMENT OF FAECAL SLUDGE AND GREYWATER

• 100% CONVERSION FROM SINGLE PIT BY 2025

- 5% OF THE TOTAL BY 2021
- 20% OF THE TOTAL BY 2022
- 35% OF THE TOTAL BY 2023
- 70% OF THE TOTAL BY 2024
- 100% OF THE TOTAL BY 2025













WASTE GENERATORS
SHALL HAVE THE
PRIMARY
RESPONSIBILITY ON
MINIMIZING THEIR
WASTE (SOLID AND
LIQUID) AND TREATING
IT ON-SITE TO THE
EXTENT POSSIBLE

DECENTRALIZED
SOLUTIONS SHOULD BE
PREFERRED OVER
CENTRALIZED ONES

WASTE MINIMIZATION
AND TREATMENT
OPTIONS WITH BETTER
REUSE/RECYCLING
POTENTIAL SHOULD BE
SELECTED.

EASY TO OPERATE, LOW O&M COST TECHNOLOGIES SHALL BE CHOSEN. PLANNING SHALL BE
ON THE BASIS OF
LOCAL CONDITIONS
AND CAPACITIES TO
IMPLEMENT AND
OPERATE THE
SOLUTION.

SELF SUSTAINABLE
SYSTEMS — 25% OF
BUDGET TO BE
EARMARKED FOR
SANITATION

ALL WASTE
GENERATORS SHOULD
BE PREPARED TO PAY
USER FEES FOR WASTE
MANAGEMENT
SERVICES ON AN
EQUITABLE BASIS

MANAGEMENT OF BLACKWATER SHOULD BE GIVEN PRECEDENCE OVER GREYWATER BECAUSE OF GREATER RISKS.

DRY WASTE MANAGEMENT SHOULD BE GIVEN PRECEDENCE OVER WET WASTE MANAGEMENT

OVERALL WASTE MANAGEMENT APPROACH

STATE STRATEGY

SECTIONS COVERED IN STRATEGY

- RETROFITTING OF FAULTY TOILETS
- SWM & LWM— Approach, Process and technology selection
- PLANNING
- EXTERNAL SOURCES FOR FUNDING CAPEX + SHORT-TERM OPEX
- Internal sources for Revenue Long-term OpEx
- FINANCIAL SUSTAINABILITY
- CAPACITY BUILDING FOR VARIOUS LEVELS: SANITATION STAFF, VILLAGE LEVEL WORKERS, GP LEVEL FUNCTIONARIES, TALUK & DIST LEVEL FUNCTIONARIES
- Wages, benefits & occupational safety for sanitation staff
- IEC/BCC For whom, what and how?
- MONITORING OF SLWM SYSTEMS PARAMETERS/KEY INDICATORS, MANNER AND FREQUENCY OF MONITORING
- ADMINISTRATIVE STRUCTURE STATE, DISTRICT, TALUK AND GP LEVEL
- ROLES & RESPONSIBILITIES OF FUNCTIONARIES AT DIFFERENT LEVELS

ANNEXURES

ANNEXURE I | METHODS FOR RETROFITTING OF TOILETS

ANNEXURE II | ILLUSTRATIVE LIST FOR THE PURPOSE OF SEGREGATION

ANNEXURE III | NORMATIVE STANDARDS FOR MANPOWER AND VEHICLES

ANNEXURE IV | WASTE FLOW IN GRAM PANCHAYATS

ANNEXURE V | WET WASTE PROCESSING TECHNOLOGIES

ANNEXURE VI | MODEL DRY WASTE CENTRE/UNIT

ANNEXURE VII | SUGGESTED TECHNOLOGY OPTIONS FOR TREATMENT OF LIQUID WASTE

ANNEXURE VIII | GUIDELINES FOR SELECTION OF SUITABLE TECHNOLOGIES FOR LIQUID WASTE MANAGEMENT

ANNEXURE IX | CLASSIFICATION OF DISTRICTS IN KARNATAKA

ANNEXURE X | WORKABLE MODEL FOR LIQUID WASTE MANAGEMENT

ANNEXURE XI | FORMAT OF MODEL DETAILED PROJECT REPORT

ANNEXURE XII | ROLES AND RESPONSIBILITIES FOR SLWM IN RURAL AREAS

ANNEXURE XIII | RECOMMENDED USER FEES

ANNEXURE XIV | RECOMMENDED PENALTIES

RETROFITTING FOR SUSTAINED USAGE

STEP TO ENSURE FUNCTIONING AND USAGE OF TOILETS

- FACT FINDING EXERCISE: CONDUCT A HOUSE TO HOUSE SURVEY TO MARK OUT THE FAULTY DESIGNS
- CATEGORIZE THE FAULTY TOILETS BASED ON DESIGN AND THE FAULTS
- PREPARE A PLAN OF ACTION AND ASSIGN RESPONSIBILITIES, EARMARK BUDGETS AND SOURCE OF FUNDS FOR RETROFITTING
- CARRY OUT FOCUSED IEC/BCC ACTIVITIES AND ENSURE COMMUNITY PARTICIPATION
- PROVIDE TECHNICAL TRAINING IN RETROFITTING TO THE STAFF WHO WILL BE INVOLVED IN RETROFITTING
- Perform concurrent quality monitoring

MAJOR ISSUES	REPERCUSSIONS	RETROFITTING OPTIONS
Only one pit instead of two	PIT CONTENT DOES NOT DECOMPOSE FULLY, NO RESTING PERIOD, PROBLEMS IN EMPTYING	 ADD ANOTHER PIT WITH JUNCTION CHAMBER TRY VERMI-FILTRATION REMOVE MANURE WITH ADEQUATE PRECAUTION
IMPROPER SEPTIC TANK DESIGN	NO TREATMENT HAPPENS DUE TO FAULTY DESIGN	 Make corrections in inlet/outlet design & vent pipe Construct leach pit for effluent discharge Send sludge to FSTP/STP
SUPERSTRUCTURE ISSUES: LOW HEIGHT, NO VENTILATORS, NO ROOF/DOOR, IMPROPER PLATFORM FINISH	No privacy Discomfort	 EXTEND HEIGHT PROVIDE SMALL WINDOW PROVIDE DOOR AND ROOF CORRECT PLATFORM FINISH

PROPOSED FLOW OF SOLID WASTE





IN RURAL VILLAGES

IN PERI-URBAN VILLAGES

GUIDING PRINCIPLES FOR WASTE WATER MANAGEMENT

Domestic waste generators shall have the primary responsibility on minimizing their waste water and treating it on-site to the extent possible Decentralized solutions should be preferred over centralized ones Waste minimization and treatment options with better reuse/recycling potential should be selected. All waste generators should either manage their waste scientifically on their own or pay for the services of the waste management service provider Easy to operate, low O&M cost technologies shall be chosen. Planning shall be on the basis of local (climatic and social) conditions and capacities to implement and operate the solution.



THE KARNATAKA PANCHAYAT RAJ (MANAGEMENT OF SOLID WASTE) MODEL BYE-LAWS, 2019

PUBLISHED IN THE GAZETTE ON 28TH MAY 2020

Rural Drinking Water and Sanitation Department (RDW&SD)



CONTENTS OF SWM BYE-LAWS

PRIMARY STAKEHOLDERS IN THE SWM BYELAWS

DEIFINTION OF TERMS AND APPLICABILITY

ROLES AND RESPONSIBILITIES

PLANNING AND IMPLEMENTATION

WASTE COLLECTION, TRANSPORTATION AND PROCESSING

MONITORING OF SWM SYSTEMS

USER FEES, PENALTIES & FINES, GRIEVANCE REDRESSAL



KARNATAKA PANCHAYAT RAJ (GRAM PANCHAYAT SANITATION & LIQUID WASTE MANAGEMENT) MODEL BYE-LAWS, 2019

PUBLISHED IN THE GAZETTE ON 28TH MAY 2020



CONTENTS OF LWM BYELAWS

COVERAGE OF THE SANITATION & LWM BYELAWS

APPLICABILITY & DEFINITIONS

FAECAL SLUDGE AND SEPTAGE MANAGEMENT- CONTAINMENT, COLLECTION, TREATMENT AND DISPOSAL

GREYWATER & COMBINED WASTEWATER MANAGEMENT.

POWERS AND FUNCTIONS OF DIFFERENT STAKEHOLDERS IN THE GRAM PANCHAYAT

PLANNING AND MONITORING OF WASTEWATER MANAGEMENT SYSTEMS

USER CHARGES FOR WASTEWATER MANAGEMENT; OFFENSES, PENALTIES AND GRIEVANCE REDRESSAL

ROLES AND RESPONSIBILITIES AT VILLAGE LEVEL

TASKS

MEETINGS AND ORGANISATION

PLANNING

IMPLEMENTATION

OPERATION AND MAINTENANCE

MONITORING, AUDIT AND REPORTING

VILLAGE
GOVERNING
AUTHORITY
(GRAM
PANCHAYAT)

VILLAGE
ADMINISTRATIV
E OFFICER
(PANCHAYAT
DEVELOPMENT
OFFICER)

COMMUNITY

BASED

ORGANISATIONS

SUCH AS
SANITATION
MOTIVATORS





THANK YOU

Contact: wsrdpr@gmail.com

RURAL DRINKING WATER & SANTIATION DEPARTMENT

Water Purification Plants (WPP)

WATER PURIFICATION PLANTS ACROSS KARNATAKA

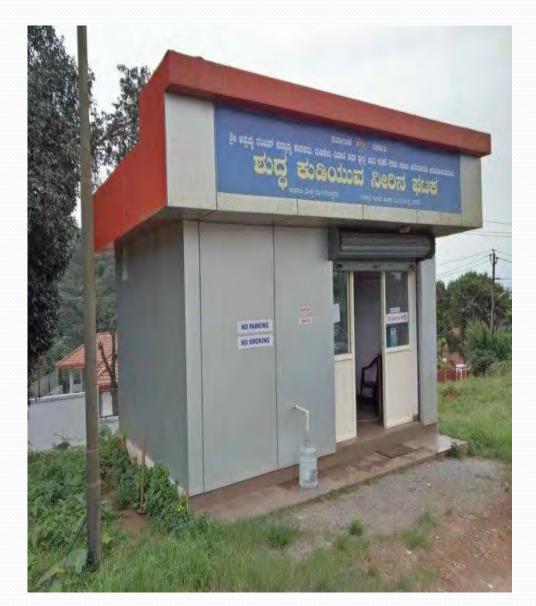
• Drinking Water is an important and economical element which shall be made available to every person as constitutional rights. Of the 60272 habitations, as per IMIS data as on 01.04.2021, 8998 habitations are fully covered while 51274 are partially covered. At present there are about 18,000 plants

•2011-12	300
•2012-13	387
•2013-14	1000
•2014-15	2000
•2015-16	5454
•2016-17	2015
•2017-18	6138

• Karnataka is the second most drought prone state, after Rajasthan.
The availability of safe potable water is scarce due to depletion of ground water levels and therefore it is challenging task especially in districts of Kolar, Chickballapur, Bengaluru rural and Tumkur districts. (బయలు సించు)

- The installation of water purification plants in quality affected habitations will ensure that the rural population is provided with clean and safe drinking water as a measure of Social justice which NGT has given directions..
- •As per IMIS data all 218 quality affected habitations as on 01.04.2021 are covered either with WPP or provided treated surface water.

- Through 3rd party assessment GoK has digitised and standardized the existing inventory of plants spread across the state in coordination with the district officials. Plants were audited based on their cleanliness, water availability, maintenance and sales.
- In addition to inventory and physical audit of the plants, users (households which avail the services of the plant) and non-users (Households which do not avail the services) were interviewed to understand affordability, accessibility and availability of water at the RO-plants.



• Of the audited 18,741 plants across the state in all 31 districts it was found,

69% of the plants were 'operational'

31% of plants were reported to be 'not operational'.

- As part of the audit, more than 90,000 community-level interviews were conducted with both users and non-users in the vicinity of the RO plants.- Role of ISA is more important here to educate users for proper utilisation of the services provided by the government and even to complain to appropriate authorities if there is any issues on functioning of the WPP. Parihara Cell is monitoring the status of complaints
- From the audit, it was observed that the RO-plants on an average sold about 827 litres of water per day and that there were more than 11 districts that outperformed the state average in terms of sales

- The plants that were flagged as 'not operational', two key reasons that were found were;
 - 1)Maintenance issues (58%),
 - 2)Dried-up water source/sources (38%),

Remaining 4% account for major repairs or damaged units.

- On the service-delivery front, it was found that about 14% of the plants delivered RO-water throughout the day, and 21% of plants delivered water for at least 8 hours per day. It was found that about 88% of the plants sold at a 20-litre benchmark whereas 11% of plants sold at a 10 liter benchmark.
- overall feedback as received from the users where 95% of the respondents reported that they were satisfied with RO water.

THANK YOU

Rural Drinking Water and Sanitation Department,

Rural Development and Panchayat Raj Department,

GoK

6th August 2021

Operations & Maintenance Policy for Rural Water Supply sector in Karnataka

Table of Contents - Operation and Maintenance (O&M) Policy

- Chapter I Introduction
 - 1.1 to 1.9 Goal, Objectives, Scope, Need, Components, Category of Rural Water Supply
 Schemes, Governance and Institutional aspects, Water Policies and Organization of O&M Policy

Part A: O&M of Multi Village Schemes (MVS)

- Chapter II Policy Statements for O&M of MVS
- Chapter III Implementation Strategies for O&M of MVS

Part B: O&M of Single Village Schemes (SVS) and In-Village Distribution network (IVDN)

- Chapter IV Policy Statements for O&M of SVS and IVDN
- Chapter V Implementation Strategies for O&M of SVS and IVDN

Part C: Annexures

- Chapter VI Annexures for O&M of MVS
 - 22 Nos. of Annexures
- Chapter VII Annexures for O&M of SVS and IVDN
 - ❖ Model Bylaws at GP level for operation and maintenance of SVS and IVDN

Objectives of O&M Policy

1

To provide guidance on sustainable water supply services in terms of availability, accessibility and affordability adopting decentralized approach involving Panchayat Raj Institutions (PRIs) and VWSCs.

2

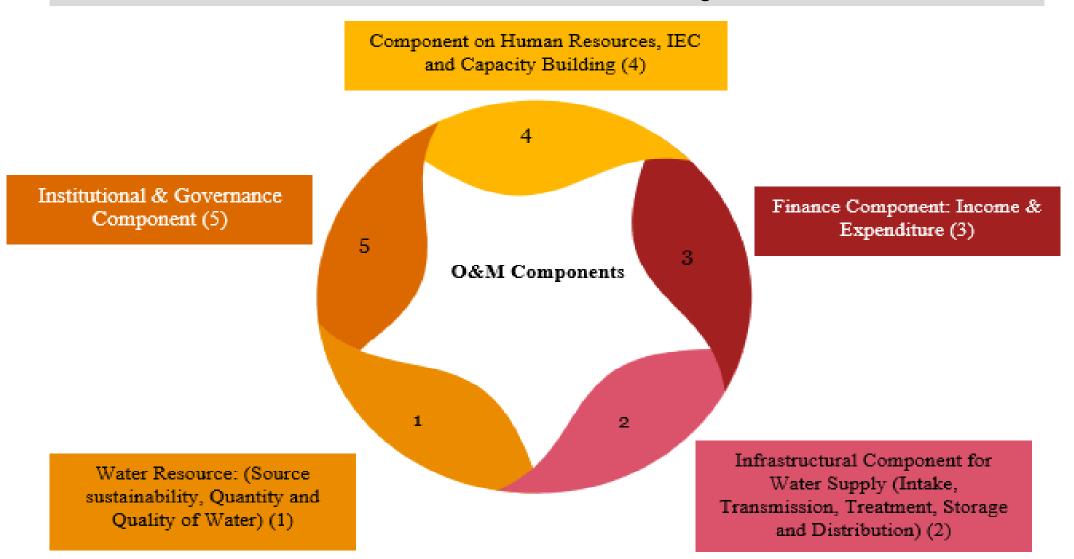
To improve institutional capacity and human resources of RDWSD, GPs and VWSCs to provide efficient, effective and sustainable drinking water supply services and to clarify institutional roles and responsibilities of RDWSD, GP, VWSC and Operators for operation, maintenance and management of rural water supply schemes and assets in the State.

3

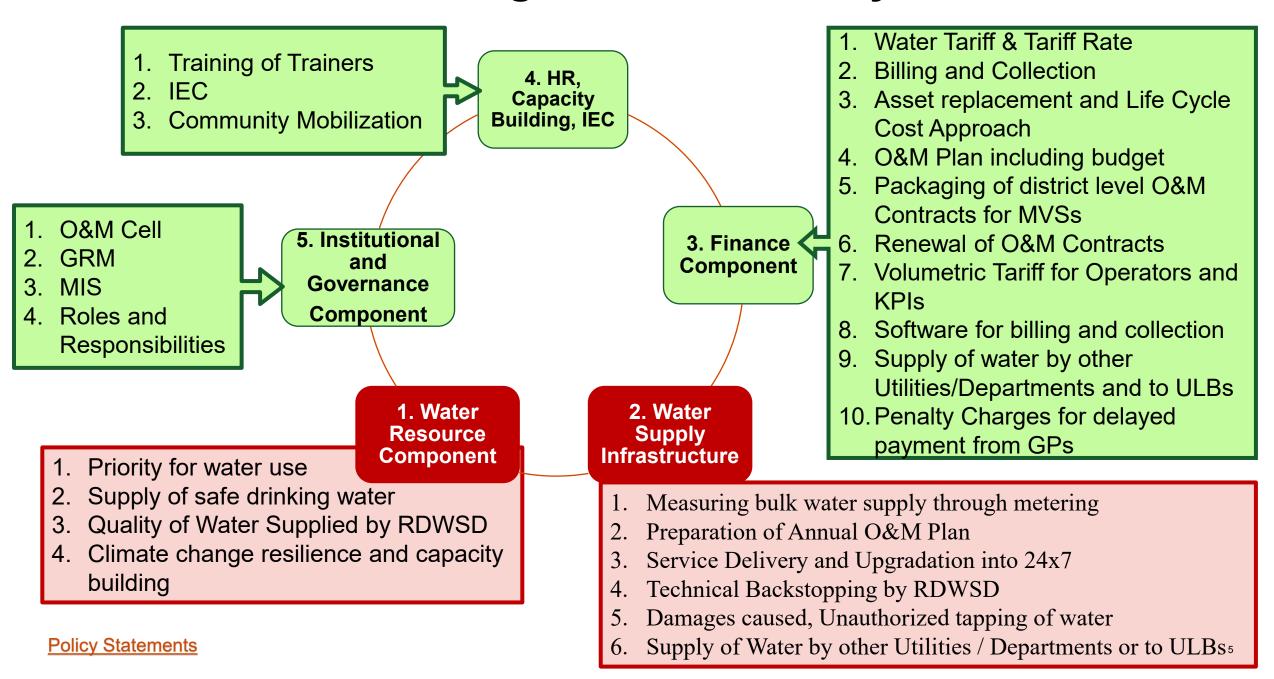
To provide guidance on technical, institutional and financial sustainability of rural water supply schemes and to facilitate cost recovery at the GP and community level from operations of MVS and SVS in the State

O&M Components – Basis of O&M Policy

O&M of Rural Water Supply Schemes is based on five components, collectively referred to as the O&M Pentagon



Strategies of O&M Policy



Incremental Block Tariff proposed at Bulk Water for MVS

Water supply from RDWSD to GPs	Tariff Rs / kL	Tariff Paise / L				
Assuming a GP with 1500 Hou	Assuming a GP with 1500 Households					
Upto 7 kL/Month/HH for entire GP	05	0.5				
7.1 to 10 kL/Month/HH for entire GP	08	0.8				
10.1 to 15 kL/Month/HH for entire GP	10	1.0				
15.1 to 20 kL/Month/HH for entire GP	12	1.2				
Tariff for Bulk water supply (no	on-PRI)					
Upto 60 kL/Month/Bulk Consumer	15	1.5				
60.1 kL+ Upto 120 kL/Month	17	1.7				
120.1 kL+ Upto 180 kL/Month	19	1.9				
180.1 kL+ Upto 240 kL/Month	21	2.1				

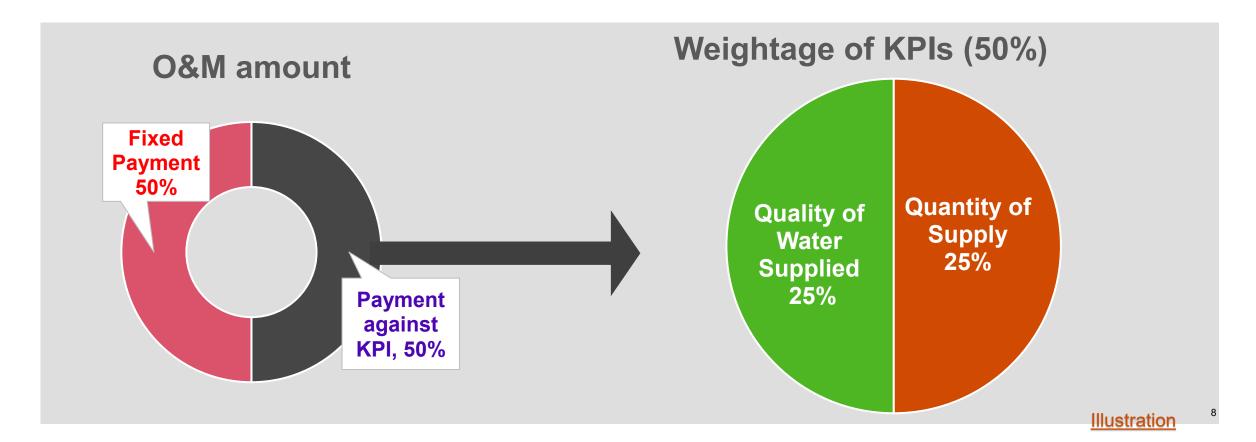
Indicative Water Tariff at Domestic and Non-domestic level

Tariff for water supply from GPs to Consumer Households	Total Water in Litres /month	Block Tariff Amount in INR /Unit of kL		riff Amount / Unit of L	Cumulative Amount
Upto 7kL/Month/Hh	7000	INR 70 for 7 kL @INR 10/kL		0.7	70
7.1 kL to 08 kL/Month	8000				82
8.1 kL to 09 kL/ Month	9000	12		1.2	94
9 kL to 10 kL/ Month	10000				106
10.1 kL to 11 kL/Month	11000				120
11.1 kL to 12 kL/Month	12000				134
12.1 kL to 13 kL/Month	13000	14		1.4	148
13.1 kL to 14 kL/Month	14000				162
14.1 kL to 15 kL/Month	15000				176
15.1 kL to 16 kL/Month	16000				190
16.1 kL to 17 kL/Month	17000				206
17.1 kL to 18 kL/Month	18000	16		1.6	222
18.1 kL to 19 kL/Month	19000				238
19.1 kL to 20 kL/Month	20000				252
	Non-Dome	stic Water Tariff			
	Consumer Category			Tariff / kL / Mo	onth Tariff / L in Paise
Non-Domestic public institutions (such	n as (1) Orphanages, (2)) Old age homes, (3) F	Physically		
Challenged Residence, (4) Raitha Samparka Kendra, (5) Government educational institutions, (6)			itions, (6)	INID 40	. 1.1
Government offices, (7) Government Hospitals (PHCs and sub-centres) and including Private			INR – 10 per	kL 1.0	
sector Institutions from (1) to (3) as above					
Non-Domestic Commercial Enterprises				INR – 30 per	kL 3.0
Industrial Enterprises				INR – 40 per	

^{*}RDWSD may examine the category of unit on a case-by-case basis

Calculation of O&M contract amount based on KPIs

O&M Contract amount	Weightage	Fixed Payment	Weightage	(50%)
Odivi Contract amount	vveigntage	Payment Against KPI	Weightage	(50%)
Fixed Payment	50%	A. Quantity of treated water	50% of 50%=	25%
	 0/	B. Quality of treated water	50% of 50%=	25%
Payment against KPI	50%	Total	Weightage	100%



Operations, Maintenance and Management of Rural Water Supply Schemes-SVS and IVDN- Model Bylaws, 2021 for the State of Karnataka (1/2)

Powers, Functions, Roles and Responsibilities of Key stakeholders related to O&M of Rural Water Supply Schemes

Captures the roles and responsibilities of

- Gram Panchayat
- Gram Sabha
- Gram Panchayat council
- Panchayat Development officer
- VWSC
- Waterman

Domestic and Non-Domestic Consumers
New Consumer Connections
Disconnection of consumer connections
Reconnection of Connections

Technical O&M of SVS and IVDN

This section of Bylaws explains:

- Maintenance of Village OHTs
- Indent & Purchase of Spares and Consumables
- Water Quality Monitoring
- Recharging of traditional water sources and borewells
- Guidelines on O&M of WPPs

Operations, Maintenance and Management of Rural Water Supply Schemes-SVS and IVDN- Model Bylaws, 2021 for the State of Karnataka (2/2)

Water Tariff and Finance Management for O&M of SVS and IVDN

This section of Bylaws captures appropriate tariff, mechanisms for collection and policy guidelines regarding cost recovery in the short, medium and long term

- Finance Management in O&M
- Payment of Water Tariff to GP
- Billing and Collection
- Measurement of Water Consumption
- O&M Budget
- Water Tariff and Increasing Block Tariff
- Consumer Bill Model at GP Level
- Tariff for Bulk water supply
- Consumer Ledger
- Capacity Building, IEC and Community Mobilization Component for O&M of SVS and IVDN

Governance and Institutional Arrangements for O&M of SVS and IVDN

Governance in the context of Bylaws is the way rules, norms and actions are structured, sustained and regulated for operating and maintaining a rural water supply scheme.

Governance of O&M of WSS at GP level

- Decentralized service delivery and O&M
- Bylaw for O&M
- Tripartite Memorandum of Understanding (TMoU)
- VWSC
- Staffing Pattern
- Monitoring the functioning of Staff at GP level
- Community Consultations
- MIS
- Grievance Redressal Mechanism GP Level
- Technical backstopping by RDWSD

ANNEXURES (1/3)

Water Ovality	Annexure 1	Protocol for Water Quality Monitoring		
Water Quality	Annexure 2	Format for Water Quality Monitoring at district level water quality labs (MVS)		
Government	G.O. on implementation of Policy for O&M of Rural Water Supply schemes			
Orders	Annexure 4	G.O. on Tariff for bulk water supply from Multi Village Schemes in the State		
O&M Manual	Annexure 5	Operation, Maintenance and Management Manual for Rural Water Supply Schemes		
Mollo	Annexure 6	Tripartite Agreement between RDWSD, Water Utility and GP for operation and maintenance of rural water supply services		
MoUs	Annexure 7	Bipartite Agreement between RDWSD and ULB for operation and maintenance of rural water supply services		
	Annexure 8	Logbook Format for recording Bulk Water Consumption in kL (OHT/BWM Level) – MVS		
Demand & Collection of	Annexure 9	Monthly Consolidated Data on Bulk Water Consumption (GP/ULB Level) for MVS		
Water charges Annexure 10 Format for generating Monthly Bills on Bulk Water Consumption, Water Demand (MVS)		Format for generating Monthly Bills on Bulk Water Consumption, Water Tariff and Demand (MVS)		
	Annexure 11	Billing and Collection of Water Tariff / Process Flow - MVS		
Role of	Annexure 12	Roles & Responsibilities of RDWSD Officials, Other Departments and O&M		
Stakeholders		Contractor		

ANNEXURES (2/3)

Tariff	Annexure 13	Water Tariff Calculation at MVS level
Annual Budget	Annexure 14	Annual O&M Plan for MVS
Contract Packaging	Annexure 15	Note on packaging of O&M Contracts of MVS at district level
Renewal	Annexure 16	Note on renewal of O&M Contracts and Handing over from Old Contractor to New Contractor
KPIs	Annexure 17	Note on calculation of O&M contract amount based on Key Performance Indicators (MVS)
Tuelininae	Annexure 18	Note on Trainings at State and Division Level
Trainings	Annexure 18.1	Reporting Format for Training Achievement
O&M Cell	Annexure 19	O&M Cell under RDWSD
Water meters	Annexure 20	Note on Metering
	Annexure 21	Management Information System
MIS - MVS	Annexure 21.1	Format for capturing baseline information on MVS
	Annexure 21.2	Format for capturing O&M related data on MVS
GRM	Annexure 22	Grievance Redressal Mechanism (GRM) for MVS

ANNEXURES (3/3)

Annexure 23	Operations, Maintenance and Management of Rural Water Supply Schemes-SVS and IVDN- Model Bylaws, 2021 for the State of Karnataka
CHAPTER I	General
CHAPTER II	Powers, Functions, Roles and Responsibilities of Key stakeholders related to Operation and Maintenance of Rural Water Supply Schemes
CHAPTER III	Technical Operations and Maintenance of Single Village Schemes (SVS) and In-Village Distribution Network (IVDN)
CHAPTER IV	Water Tariff and Finance Management for O&M of SVS and IVDN
CHAPTER V	Governance and Institutional Arrangements for O&M of SVS and IVDN
CHAPTER VI	Capacity Building, IEC and Community Mobilization Component for O&M of SVS and IVDN

Thank You

KPI – Quantity of treated water

- The volume of water supplied by the operator will be measured and captured daily and this will be compared with the required quantity of water to be supplied by the operator.
- Penalty will be levied for the shortfall of water supply i.e. if the quantity of water supplied to the sum total of village OHTs individually and collectively is less than the required quantity, then penalty will be levied.
- 50% weightage will be considered under this head. The penalty to be levied for non-compliance is illustrated below:

Assumed Quantity of water supplied per month from a MVS	Penalty	Remarks
3000 kL	0	
2700 kL	X into 8.30%	
2400 kL	X into 16.65%	Total amount to be paid to operator against
2100 kL	X into 25.00%	supply of 3000 kL per month (Inclusive of
1800 kL	X into 37.50%	losses) of water is assumed as = Rs. X.
1500 kL	X into 50.00%	The penalty will be calculated by adding for
1200 kL	X into 62.50%	each day separately for every OHT in the
900 kL	X into 75.00%	project.
600 kL	X into 87.50%	
300 kL	X into 100.00%	

KPI – Quality of treated water

- Water supplied to the scheme should be tested at Water Treatment plant with all the 17 water quality parameters.
 - Water quality testing will be undertaken for the water sample taken daily at WTP location.
 - Water sample testing at WTP should be within acceptable/ permissible limits for all the 17 parameters.
- Four water quality parameters will be tested at Village OHT level (Colour Hazen units, Max; pH, value, Turbidity, NTU, Max and Free Residual chlorine*, mg/l, Min).
 - Residual chlorine limit must be tested daily basis, while the other three may be tested on a weekly basis.

No	Parameters for testing at WTP level	Weightage % (Amount)	Periodicity of Testing	Parameters for testing at WTP level	Weightage % (Amount)	Periodicity of Testing	
	Total	17 (170000)			8 (8000)		
1	Free Residual chlorine*, mg/l,	1(10000)	Daily	Free Residual chlorine*,	2 (20000)	Daily	
	Min.			mg/l, Min			
2	Colour Hazen units, Max	1(10000)	Daily	Colour Hazen units, Max	2 (20000)	Weekly	
3	pH, value	1(10000)	Daily	pH, value	2 (20000)	Weekly	
4	Turbidity, NTU, Max	1(10000)	Daily	Turbidity, NTU, Max	2 (20000)	Weekly	
5	For rest of the 13 parameters –	1(10000)	Daily				
	Same weightage and						
	periodicity is proposed						
6	13 parameters includes						
	(1) Taste (Test only after safety is established); (2) Odour, (Test cold and when heated and at several dilutions); (3) Total dissolved						

(1) Taste (Test only after safety is established); (2) Odour, (Test cold and when heated and at several dilutions); (3) Total dissolved solids, mg/l; (4) Chloride (as Cl), mg/l, Max; (5) Total alkalinity (as Ca CO3), mg/l, Max; (6) Total hardness (as Ca CO3), mg/l, Max; (7) Sulphate (as SO4), mg/l, Max; (8) Iron (as Fe), mg/l, Max; (9) Total arsenic (as As), mg/l, Max (in hot spots); (10) Fluoride (as F), mg/l, Max; (11) Nitrate (as NO3) mg/l, Max; (12) Total coliform bacteria; (13) E. coli or thermo-tolerant coliform bacteria

Policy Statements (1/11)

2.1. Water Resource (Water Source, Sustainability, Quantity and Quality of Water)

- 2.1.1 Supply of safe drinking water: RDWSD shall draw water from sustainable sources (preferably surface sources) and after appropriate treatment, supply safe drinking water equivalent to 55 LPCD to Gram Panchayats and eligible enroute ULBs on priority need basis, with an objective of covering the entire rural areas of Karnataka progressively in a 7-year period from 2021.
- 2.1.2 Priority for water use: Drinking water needs of the people will have highest priority among competing uses of water. (Ref Karnataka State Water Policy-2002 and 2019).
- 2.1.3 Quality of Water Supplied by RDWSD: RDWSD directly or through Operator shall supply water complying with BIS 10500 specifications or as specified. Gram Panchayat shall also ensure that safe potable quality water is distributed to the consumer community through schemes managed within the GP. The Contractor/ Operator will be bound by provisions of O&M policy to maintain water quality standards distributed out of MVS. RDWSD shall check water samples for all quality parameters parallel to the Operator, either randomly or periodically and the result thereof will be considered for releasing payment to the Operator/ Contractor.

Policy Statements (2/11)

2.1. Water Resource (Water Source, Sustainability, Quantity and Quality of Water)

2.1.4 Climate change resilience and capacity building: RDWSD shall support Gram Panchayats and other sector stakeholders in building their capacity for management of water infrastructure, quantity of supply, water quality management and in recharging Borewells and other water bodies. The following sub-set of policies shall also be applied to build resilience to climate change: (a) Gram Panchayats shall recharge all bore wells, within the GP area, whether of private or public ownership, provisioning funds from MGNREGS or other watershed development programmes as part of the climate change resilience and preparedness; (b) GP shall undertake monitoring of groundwater table, using appropriate technosocial methods, devices and tools in the GP limits to understand and analyze the results of groundwater recharging; (c) All sector stakeholders including government departments, three tier PRIs, other sectoral institutions, organizations, industrial and commercial consumer units and individual households shall encourage, disseminate, demonstrate and scale up conjunctive use of water, including surface water, groundwater and rainwater sources as an immediate response to climate change impact in the State.

Policy Statements (3/11)

- 2.2 Infrastructure Component for Water Supply (Intake, Treatment, Transmission, Storage, Distribution)
 - 2.2.1 Multi Village Schemes (MVS): RDWSD shall manage MVS either directly or through Operators/Contractors selected through a transparent tender process and provide bulk water to Gram Panchayats.
 - 2.2.2 Priority for water use: Drinking water needs of the people will have highest priority among competing uses of water.
 - 2.2.3 Measuring bulk water supply through metering: Bulk Water Meters (Electro-magnetic flow meters) shall be installed at Village level OHTs or such other appropriate locations to measure water supplied to GPs so as to calculate volumetric tariff and charge GPs and other bulk water consumers. Bulk Water Meters will be installed at the inlet and outlet of WTP, MBR and ZBR, besides at the inlet of Village OHTs and other supply points to GPs and ULBs for the same purpose. Three tier PRIs, especially Gram Panchayats shall take initiative for installing consumer level water meters of appropriate quality and specifications. Cost of Consumer Meters shall be borne under a project if projects/programmes such as JJM are available. If such projects/ programmes are not available, the consumer shall bear the cost of water meter.

Policy Statements (4/11)

- 2.2 Infrastructure Component for Water Supply (Intake, Treatment, Transmission, Storage, Distribution)
 - 2.2.4 Operations and Maintenance of MVS: Multi Village Schemes shall be operated and maintained for achieving prescribed results and efficiency, following best practices of the water supply sector. RDWSD shall plan and install SCADA, IoT and web based service level monitoring system to all MVSs, piloting with large Multi-Taluk MVSs for controlling, maintaining and managing Operations and Maintenance. Information generated by SCADA and IoT shall also be used for conducting water and energy audit.
 - 2.2.5 Preparation of Annual O&M Plan: RDWSD with the cooperation of DBOT contractors/ Operators shall prepare Operations and Maintenance Plan for each MVS, along with scheme specific O&M Manual. This manual shall be used as a guidance document / basis for the subsequent O&M contract. Routine O&M including preventive maintenance shall be included in the O&M plan and manual.
 - 2.2.6 Service Delivery: RDWSD shall ensure through the Operators, Gram Panchayats and VWSCs that potable quality water is supplied to the GP population with the following service conditions: (a) Duration of supply: GPs connected to MVS shall receive water for a minimum duration of not less than four hours per day, with two hours each in the morning and evening; (b) Timing of water supply: Drinking water at Village level may be supplied between 6.00 am & 9.00 am and 5.00 pm & 8.00 pm in the evening; (c) Quantity of supply. Per capita supply of 55 LPCD shall be assured by MVS. If the demand for potable water in rural areas is lesser than 55 LPCD on a monthly average, the GP may officially inform the Operator and RDWSD regarding quantity of water demand for the GP and RDWSD shall inform the Operator to suitably adjust quantity of supply as per the request of GP; (d) Reduced Pumping Hours: If the aggregate demand for water is lesser than 55 LPCD, RDWSD may direct the Operator to operate the water supply scheme (MVS) with reduced hours of pumping and treatment operations.

Policy Statements (5/11)

2.2. Infrastructure Component for Water Supply (Intake, Treatment, Transmission, Storage, Distribution)

- 2.2.7 Upgradation into 24x7 service delivery: RDWSD shall take initiative for upgradation of selected MVS into 24x7, subject to satisfactory fulfillment of conditions such as: (1) All Village level OHTs or entry points to village water distribution system are fixed with Bulk Water Meter; (2) All households in GPs covered by the selected MVS are given metered HTCs; (3) Capacity building of RDWSD, Operator staff, GP level stakeholders for operating, maintaining and managing 24x7 water supply scheme is undertaken and duly accredited; (4) Scaling up of 24x7 shall be carefully done, selecting one pilot MVS in each of the physiographic region of the State, subject to availability of water, readiness of stakeholders to enter into a multi-stakeholder MoU regarding demand, supply, tariff levels and other service conditions.
- 2.2.8 Technical Backstopping by RDWSD: RDWSD shall provide technical backstopping, advice and technical support to resolve issues related to rural water supply schemes owned and operated by the three tier PRIs. PDO of the GP or the concerned officer may request for technical backstopping support to the concerned officer of RSWSD.
- 2.2.9 Damage to water distribution and pumping network: Damages caused to components of existing water supply system such as raw water rising main, clear water transmission mains, major distribution network etc. during construction works carried out by other departments, contractors/ agencies shall be compensated for restoration of infrastructure and water supply service, for which the cost shall be borne by the damage causing institution/ party/ department/ contractor. The EE of RDWSD shall use his good offices to resolve the issue, failing which, he/she shall take up the matter with the district coordination committee.

Policy Statements (6/11)

2.2. Infrastructure Component for Water Supply (Intake, Treatment, Transmission, Storage, Distribution)

- 2.2.10 Unauthorized tapping of water: The Operator/Contractor shall lodge a complaint with the legal authorities against unauthorized tapping of water, illegal connections and vandalism, which affect uninterrupted supply. The EE of RDWSD shall use his good offices to resolve the issue, failing which, he/she shall take up the matter with the district coordination committee.
- 2.2.11 Resolving issues in the express feeder line of ESCOM. RDWSD shall clearly define roles and responsibilities of KPTCL or such other power distribution company or agency with regard to the power supply arrangements for operation and maintenance in the contract documents. Mutually accountable provisions from the part of the Operator and KPTCL shall be included and defined in the O&M contract, including clauses regarding remedial measures. District Coordination Committee shall be an institutional mechanism at the district level to resolve issues relating to the uninterrupted power supply.

Policy Statements (7/11)

- 2.3. Finance Component: (Income & Expenditure)
 - 2.3.1 Water Tariff: GPs, ULBs and other consumers as the case may be, will be charged by RDWSD for water supplied at specified rates. RDWSD will fix, recover and annually revise the water tariff for bulk water supply at a rate not less than 5% so as to recover partly or fully the cost of operations and maintenance.
 - 2.3.2 Billing and Collection: RDWSD and GP will follow a monthly cycle for billing and collection under MVS. GP shall pay the water tariff into the specified account within 30 days of receiving the monthly water bill and demand.
 - 2.3.3 Tariff Rate: RDWSD shall implement 'Incremental Block Tariff' for GPs/ULBs and other bulk consumers (if any). Gram Panchayats also shall implement 'Incremental Block Tariff' for its consumers. The bulk water consumer shall pay to the RDWSD, such tariff that is fixed by RDWSD, based on volumetric consumption and cost recovery principles. Bulk water tariff proposed is provided in the table below.

Tariff for water supply from RDWSD to GPs	Rs / kL	Paise / L
Up to 7 kL/Month/HH for entire GP	05	0.5
7.1 kL to 10 kL/Month/ HH /for entire GP	08	0.8
10.1 kL to 15 kL/Month/HH for entire GP	10	1.0
15.1 kL to 20 kL/Month/HH for entire GP	12	1.2

Policy Statements (8/11)

2.3. Finance Component: (Income & Expenditure)

- 2.3.4 Asset replacement and Life Cycle Cost Approach: Until RDWSD/Government of Karnataka fully graduates into life cycle cost approach and O&M cost recovery, the following arrangement shall be followed for asset replacement, operations and maintenance. For MVS, the replacement cost of assets is met by RDWSD for all assets upto the Bulk Water Meter at the Village level OHT. If any asset renewal or replacement or repair is required, such requirement shall be included in the annual O&M plan.
- 2.3.5 O&M Plan including budget: EE at Division level shall facilitate the preparation of an annual O&M Plan for each MVS. The annual O&M Plan shall be submitted to CE-RDWSD through CEO-ZP. CE-RDWSD shall review as per departmental norms, approve the O&M plan and inform EE of the respective division of RDWSD.
- 2.3.6 Packaging of district level O&M Contracts for MVSs: To the extent possible and unless there is justification otherwise, all O&M contracts for the smaller multi-village schemes may be merged and managed under a single contractor/ operator at district level in order to ensure service levels and monitor the quality of delivery. O&M contracts shall be for a period of five (5) years, renewable on a year on year basis, based on satisfactory performance by the O&M Operator/ contractor and, based on mutual agreement.

Policy Statements (9/11)

2.3. Finance Component: (Income & Expenditure)

- 2.3.7 Renewal of O&M Contracts: All costs associated with the repair, refurbishment, replacement of bulk water supply infrastructure shall be evaluated in the last year of the O&M contract and may be taken up as part of the upcoming O&M contract. O&M Contracts may be renewed with a 5% annual increment of O&M contract value from the second year of the five year contract for O&M.
- Volumetric Tariff for Operators and Key Performance Indicators: Contractors/ Operators shall 2.3.8 be paid on a volumetric basis, subject to achieving Key Performance Indicators (KPIs). Amount payable to Operator shall exclude cost towards electricity which shall be borne by the Government of Karnataka/RDWSD. The Operators will get 50% of the O&M contract amount as fixed cost and 50% payment as variable cost against achievement of key performance indicators. Key Performance Indicators for the O&M Contract of MVS shall be as under: (a) Total Quantity of Treated Water to be supplied to each habitation/village covered under the scheme at minimum of 55 LPCD for the design population (Weightage-25 (50% of the total score of 50); (b) All water samples tested daily in the previous month at WTP/Village OHT to meet quality standards as defined in the contract. (Weightage-25 (50% of the total score of 50); (c) Exemption from penal provisions: Penal provisions on the O&M Contractor may not be applied on account of supplying quantity of water lesser than 55 LPCD or as per the contract provisions, provided there is a clear indication of lesser demand for water from the rural community, supported with evidence, justification by data and written instruction by the GP; (d) Similarly, if water is not pumped, treated and supplied due to interrupted power supply, which is not under the control of the Operator, the penal provision may not be applied. This provision applies to such MVS which does not have a standby DG set. To administer these exemption provisions, evidence in the form of clear and justifiable data shall be presented; (e) O&M Cell of RDWSD shall undertake periodic review of O&M contracts.

Policy Statements (10/11)

2.3. Finance Component: (Income & Expenditure)

- 2.3.9 Data on bulk water supply: O&M contractor shall assist in capturing the volume of water supplied to each village consolidated at GP level and generate bills for the bulk water supply to GPs as per the tariff set out in the policy. Such data on bulk water supply shall be taken from the MIS/ SCADA or records maintained regularly and updated by the Operator/RDWSD.
- 2.3.10 Software for billing and collection: RDWSD shall prepare and introduce software to support billing, collection, accounting and build capacities of Operators/Contractors and GPs in using the software.
- 2.3.11 Supply of water by other Utilities/Departments: GPs/villages getting water from any other agency/utility such as BWSSB, KUWS&DB and KUIDFC shall pay for the water on a volumetric basis to RDWSD at a tariff rate as fixed under this policy. RDWSD shall pay to agency/utility the cost of water supplied on a per kL basis, which is equivalent to rate applicable/charged for urban local bodies. O&M activities of such schemes supplying water to enroute GPs, shall be carried out by the parent agency and shall charge O&M tariff to RDWSD for the volume of water supplied and recorded by bulk water meters at the same rate that is applicable for urban local bodies or otherwise agreed at the time of project implementation. RDWSD in turn will raise demand on GPs supplied with water from the scheme at a tariff as defined in the current policy and as amended ment from time to time.
- Supply of water to Urban Local Body (ULB)/GP by RDWSD: RDWSD shall supply water to selected Urban Local Bodies located enroute or adjacent to the GPs/Villages included under the scope of Multi Village Schemes (MVS), subject to demand from the ULB, concurrence from the part of Urban Development Department, based on signed MoU and payment of water tariff for bulk water supply made to ULB.
- 2.3.13 Penalty Charges for delayed payment from GPs: RDWSD shall impose a penal charge on GP if the latter does not remit the O&M charges by the stipulated date.

Policy Statements (11/11)

2.4. Human Resources, Capacity Building

2.4.1 Training: RDWSD shall facilitate capacity building of RDWSD Engineers, contractors, consultants, NGOs/ISAs and other sector stakeholders together with people's representatives at the three tier PRIs, officials of PRIs and GP based Waterman/Pump Operators, by preparing appropriate training modules, scheduling training events, supporting training programmes with resource persons and knowledge.

2.5 Governance and Institution

- 2.5.1 O&M Cell: RDWSD will set up an O&M Cell at the HQ to monitor O&M activities, guide operations and maintenance, and develop data and knowledge base on O&M
- 2.5.2 Grievance Redressal Mechanism: 'PARIHARA', a comprehensive GRM (Grievance Redressal Mechanism) already functional at RDWSD will address complaints from the consumer households and other institutional stakeholders with possibilities of escalating complaints in the event of non-resolution.
- 2.5.3 Management Information System: RDWSD in consultation with RDPRD shall develop a Management Information System (MIS) for rural water supply sector.
- 2.5.4 Roles and Responsibilities regarding Monitoring and Regulation of Operations and Maintenance: Roles and responsibilities with regard to monitoring and regulatory functions under O&M for MVS is elaborated under implementation strategy.









JAL JEEVAN MISSION Planning & Progress

06th August 2021

Darshini N.
Assistant Executive Engineer

JJM - Concept

Objective - Jal Jeevan Mission (JJM) aims at providing FHTC to every rural household by 2024.

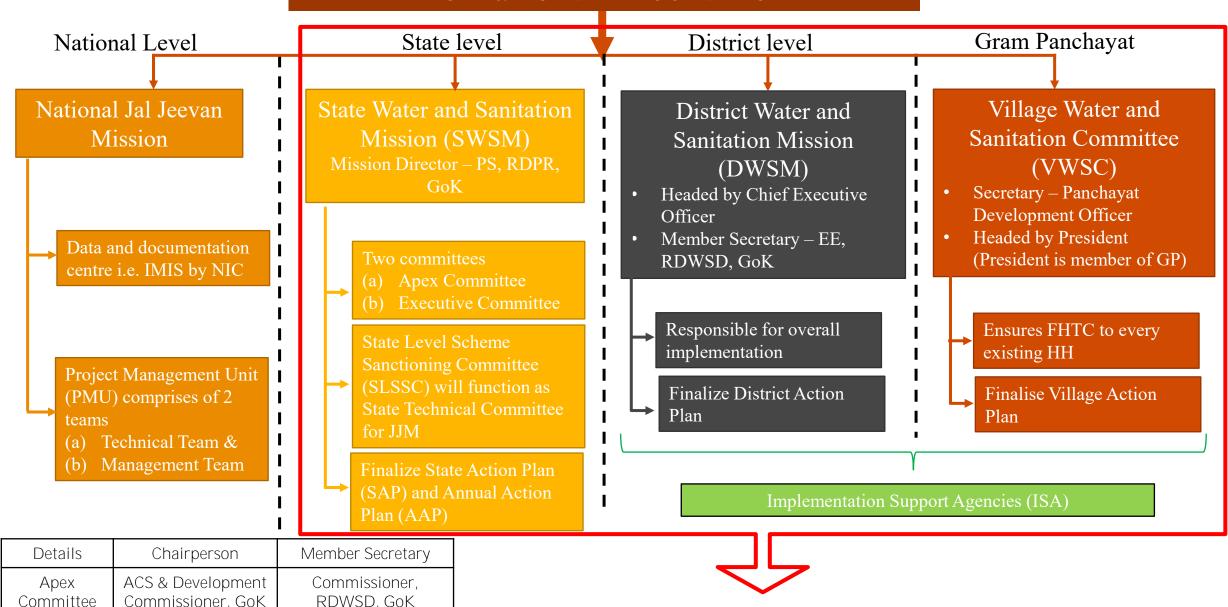
Functionality of a tap connection

- (a) in adequate quantity, i.e. at least 55 lpcd (litres per capita per day),
- (b) of prescribed quality as per BIS:10500 standards,
- (c) on regular basis, i.e. continuous supply in long-term.

Critical factors for considering schemes under JJM

- (a) Need
- (b) Source Sustainability
- (c) Techno Economic Feasibility
- (d) Fund availability
- (e) Implementation Capacity

Institutional Mechanism



Commissioner.

RDWSD, GoK

Executive

Committee

Chief Engineer,

RDWSD, GoK

Rural Drinking Water & Sanitation Department (RDWSD)
Rural Development & Panchayat Raj, Government of Karnataka

VILLAGE ACTION PLAN

Village Action Plan (VAP) – Prepared by GPs (or VWSC)

- Baseline survey
- Need assessment to decide whether SVS or MVS
- Community participation
- Capacity building
- Grey water management

VAP will be approved by Gram Sabha; Technical Approval of VAP by DWSM

DISTRICT ACTION PLAN

District Action Plan (DAP) - Prepared by DWSM

- Strategic Plan for FHTC
- Timelines for all activities, Financial requirement (Cost estimation) & institutional requirement for the district and plan for convergence of funds
- Decide on taking up retrofitting/augmentation and/or requiring water supply from surface water and formulation of schemes based on TEFR
- ISA activities & NABL accreditation of labs
- O&M

DAP will be approved by DWSM

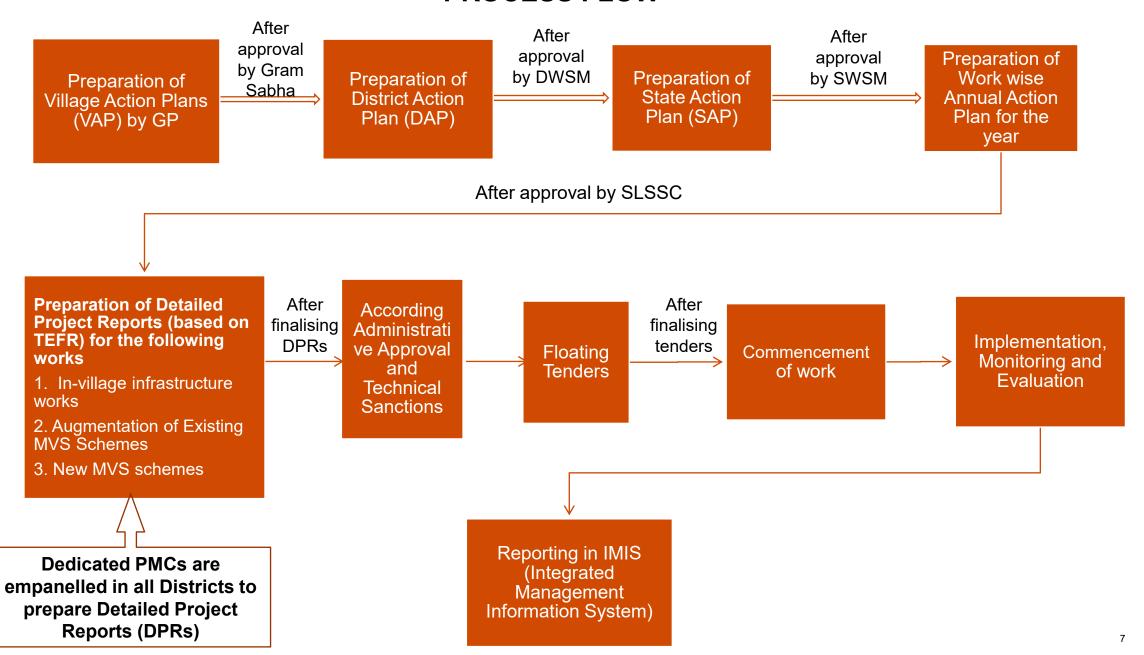
STATE ACTION PLAN

State Action Plan (SAP) – Prepared by SWSM

- District wise database
- Priority area planning
- Analysis of the schemes proposed in DAP
- Innovative technological interventions
- Timelines for all activities for district wise FHTC coverage and financial requirement
- HR required at different levels, training and capacity building

SAP will be approved by SWSM & GoI

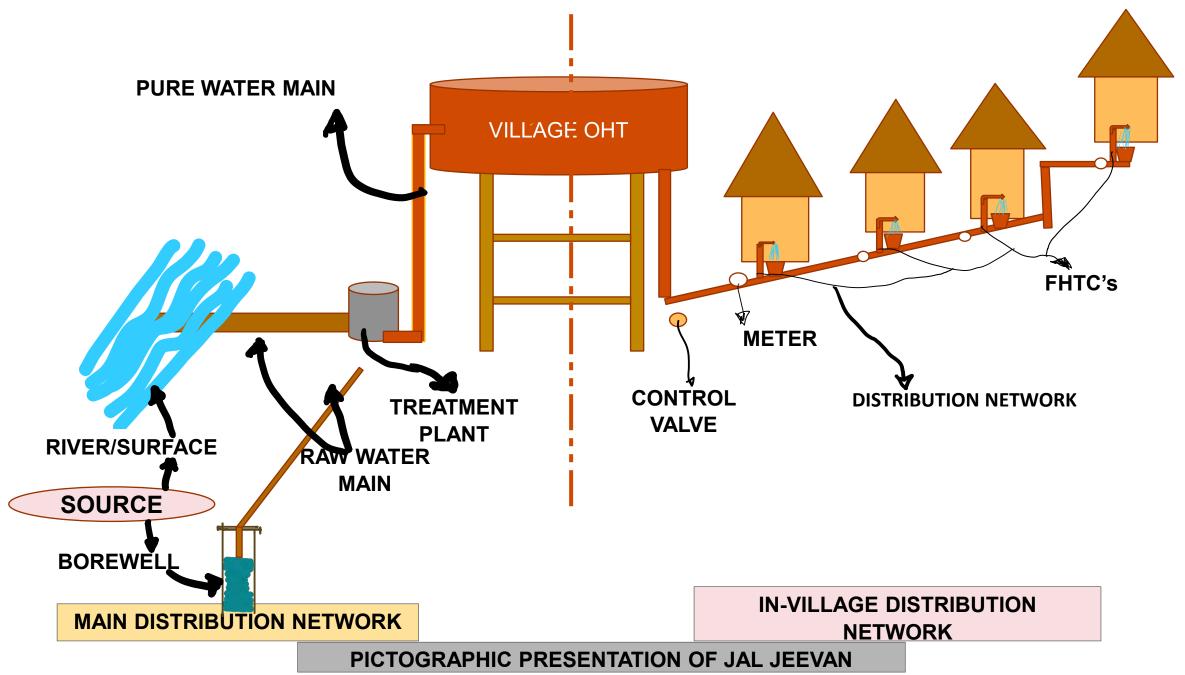
PROCESS FLOW



JJM – Financial Planning and Funding

- For Karnataka the sharing pattern between Centre and State is -
 - For bulk water supply 50:50
 - for in-village infrastructure 42.5:42.5:5:10 (GoI:GoK:15th FC:CC, CC-10% for general dominated villages)
 - 42.5:42.5:5:10 (GoI:GoK:15th FC:CC, CC-5% for SC,ST dominated & hilly areas)
 - For Implementation Support Activities 60:40 (5% out of overall fund)
 - For Water Quality Monitoring & Surveillance and other support activities 60:40 (2% out of overall fund)

Type of scheme	Indicative Cost Per HH (In Rs.)
Retrofitting of ongoing schemes for last mile connectivity to provide FHTC	7,500
SVS in blocks having both adequate quantity and good quality of groundwater	15,000
SVS based on treated groundwater/ in hard rock area	25,000
Multi Village Scheme	47,000
Mini solar based piped water supply scheme in isolated/tribal hamlets	7,00,000



MISSION-FHTC's

FHTC SATURATION PLAN

Sl. No.	Details	Numbers in lakhs
1	Total Rural Households as on 01.04.2020	91.19
2	Rural Households with tap connections up to the end of March 2020	24.72
3	Households provided with FHTCs in the year 2020-21	3.43
4	Balance Households to be provided with FHTCs [1-(2+3)]	63.04
5	Households planned to be provided with FHTCs in the year 2021-22	25.17
6	Households planned to be provided with FHTCs in the year 2022-23	27.15
7	Households planned to be provided with FHTCs in the year 2023-24 (till the end of December 2023)	10.72

JJM - SATURATION PLAN

To provide 55 LPCD safe drinking water from sustainable sources through FHTCs to all the 91.19 lakh rural households entire state, a plan of Rs.40,000 crores has been prepared (under 2215 H/A)

SI. No.	Planned year	Type of scheme	No of schemes	No. of FHTCs (in lakhs)	Amount (Rs. in crores)
1	2021-22	MVS	99	21	13000.00
2	2021-22	SVS	4000	4.17	1550.00
Total			4099	25.17	14550.00
	Provision for 2021-22				8196.95
3	2022-23	MVS	161	19	15700.00
4	2022-23	SVS	2500	8.14	1550.00
	Total		2661	17250.00	
5	2023-24 (Till December 2023)	MVS/SVS	-	10.72	8200.00
Grand Total			6760	63.03	40000.00

SNAPSHOT OF PROGRESS IN 2020-21

	Number of DPRs		Amount (Rs. in crores)		
Total works	10118	23,56,247	5341.50		
DPRs finalised	10082	23,43,459	5204.62		
ADM Approval	10070	23,33,923	5102.31		
Technical sanctions given	10066	23,22,345	4852.61		
Tender Floated	10033	23,06,527	4542.43		
Awarded works	8748	1982966	361.94		
Works under progress	7540	1667687	3177.43		
Works completed	896	318604	414.59		
FHTCs provided in 2020-21	3.43 lakh	3.43 lakh			

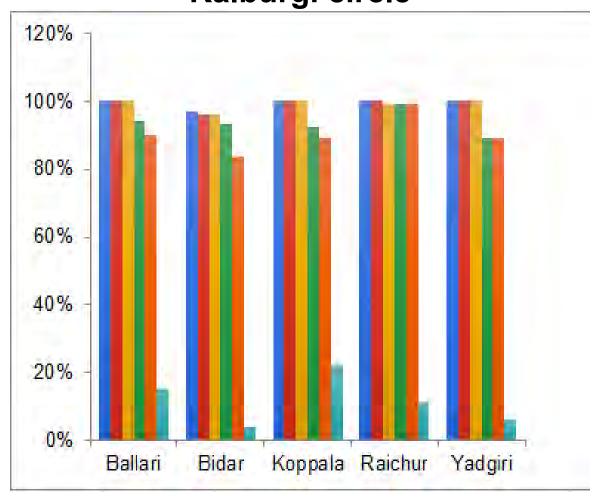
TOP 5 DISTRICTS (wrto Works commenced)

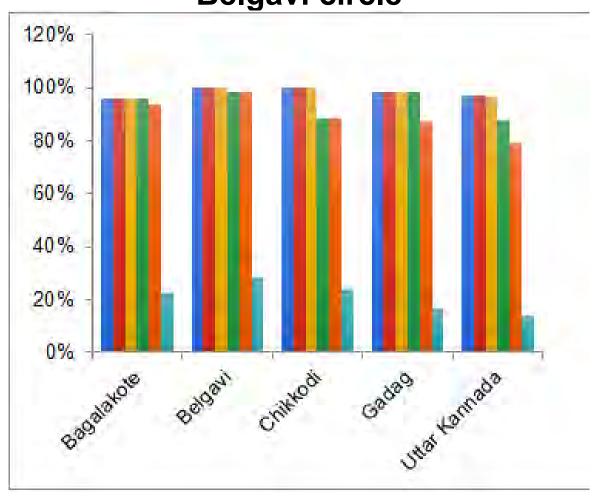
Kalburgi circle



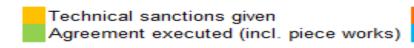


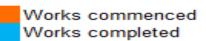






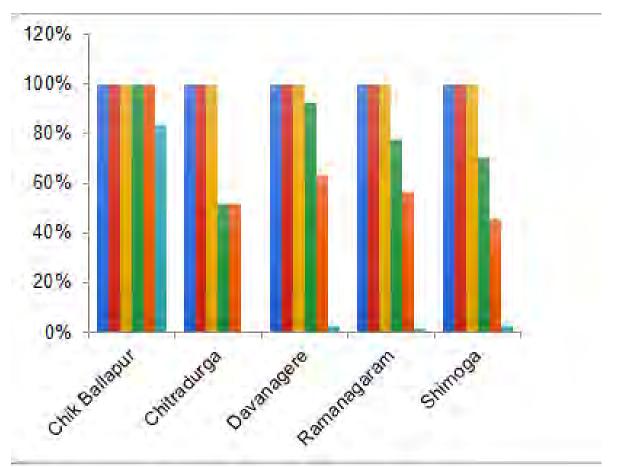
DPR finalised ADM Approvals accorded



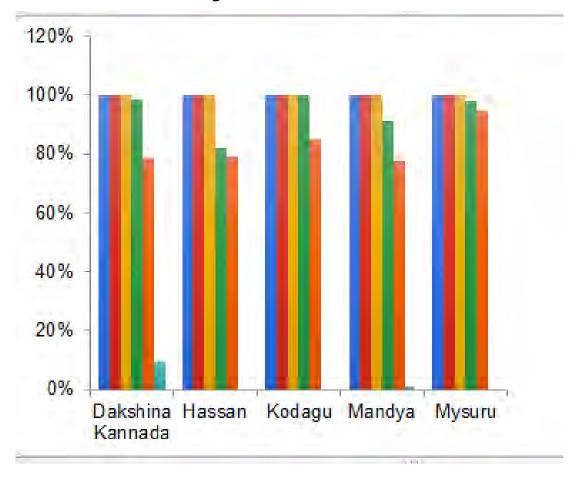


TOP 5 DISTRICTS (wrto Works commenced)

Bangalore circle



Mysore circle



DPR finalised
ADM Approvals accorded

Technical sanctions given

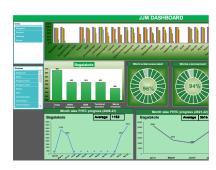
Agreement executed (incl. piece works)

Works commenced

Works completed

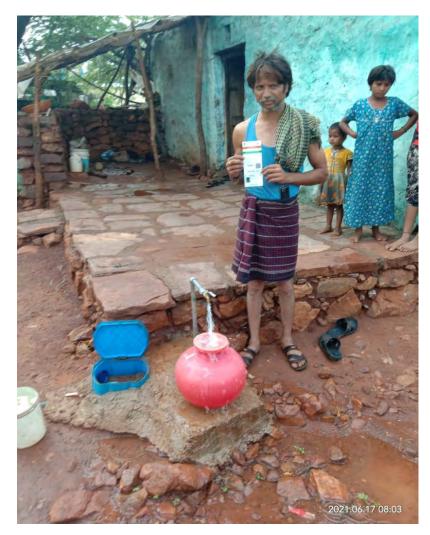
Monitoring of Progress

- 1. Periodic review of progress
- 2. Frequent site visits and follow up reviews
- 3. Daily updation of progress in a dedicated spreadsheet
- 4. Updation of data in IMIS
- 5. Real time dashboard



Good Practices







Good Practices





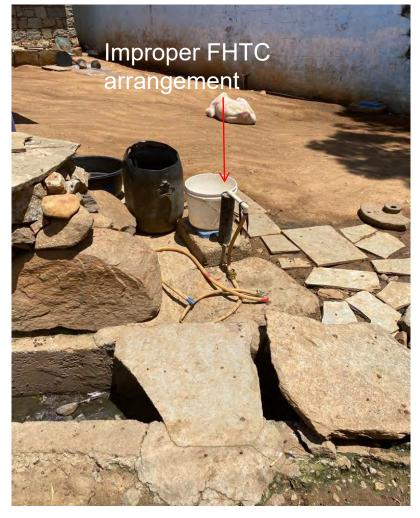




Bad Practices







Bad Practices







THANK YOU

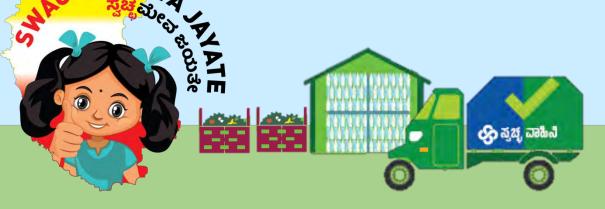






Rural Drinking Water & Sanitation Department Rural Development & Panchayat Raj Department Government of Karnataka

Swachh Bharat Mission (Gramin)



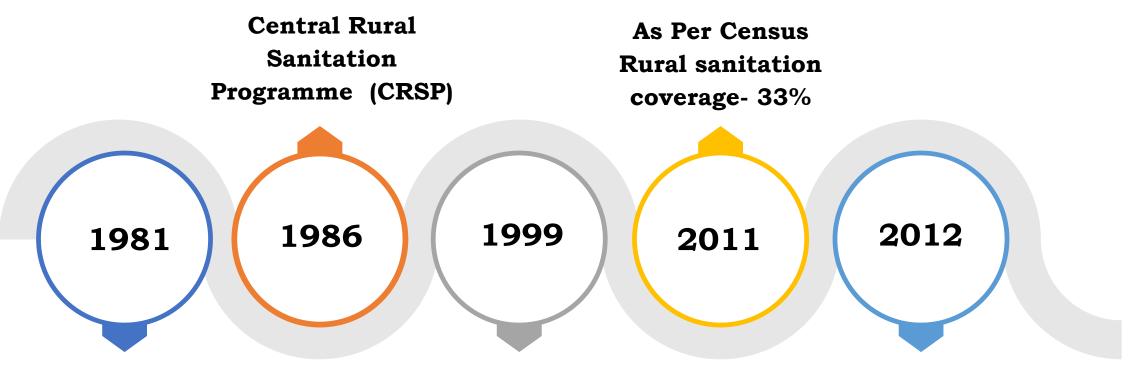




OVERVIEW OF SBM-G & ODF PLUS

INTRODUCTION

Brief history:



As per Census Rural sanitation coverage -1% Total Sanitation Campaign (TSC)

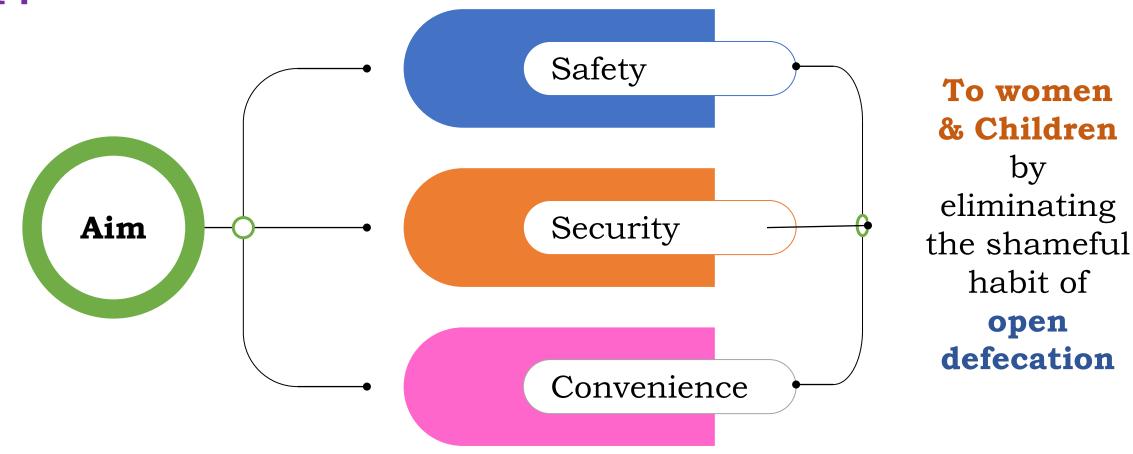
Nirmal Bharat Abhiyan (NBA)

Brief history: Cont....,



LAUNCH OF SBM-G (PHASE-I)

Swachh Bharat Mission (Gramin) was launched on 2nd October 2014



Sanitation coverage achieved:

- ❖ As per **BLS 2014** the rural Sanitation coverage was **39%**
- ❖ SBM(G) achieved 100% coverage in 2019 (as per BLS 2019)
- ❖ India became ODF by building 10.28 Cr toilets across 36 States/Union territories.

Key Components

IEC

(Information Education Communication)



IHHL

(Individual House Hold Latrines)

LWM

(Liquid Waste Management)

- 1. FSM
- 2. GWM



CSC
(Community
Sanitary Complex)

SWM

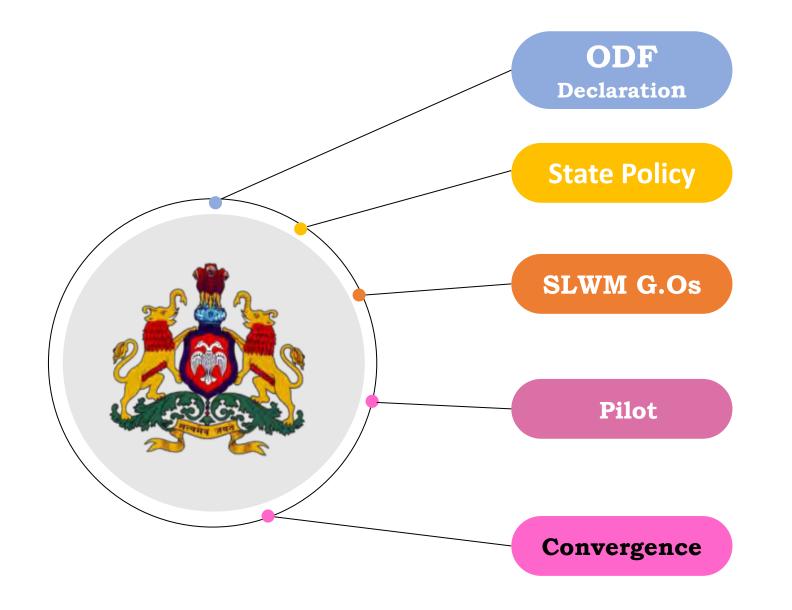
(Solid Waste Management)

- 1. GOBARDHAN
- 2. MRF
- 3. MHM



ODF Sustainability

KEY ACHIEVEMENTS



19th, November 2018

(Constructing around 45 lakhs IHHL)

Policy, Strategy & Bye law GO- 12th March, 2020 Gazetteer - 28th May -2020

In principle approval

SLWM (14-10-2019) - All GPs' LWM (13-11-2020) - 4464 GPs' SWM (15-01-2021) - 2545 GPs' Approved - 4829 Nos Operational- 2065 Nos

FSM - 17 Nos. MRF- 4 Nos. Gobardhan - 11 Nos Incinerators -32 Nos

SWM Vehicle - 15th FC DWCC - MGNREGA MOUs- GP Clusters & ULBs

SBM-G PHASE-II (2020-21 to 2024-25)

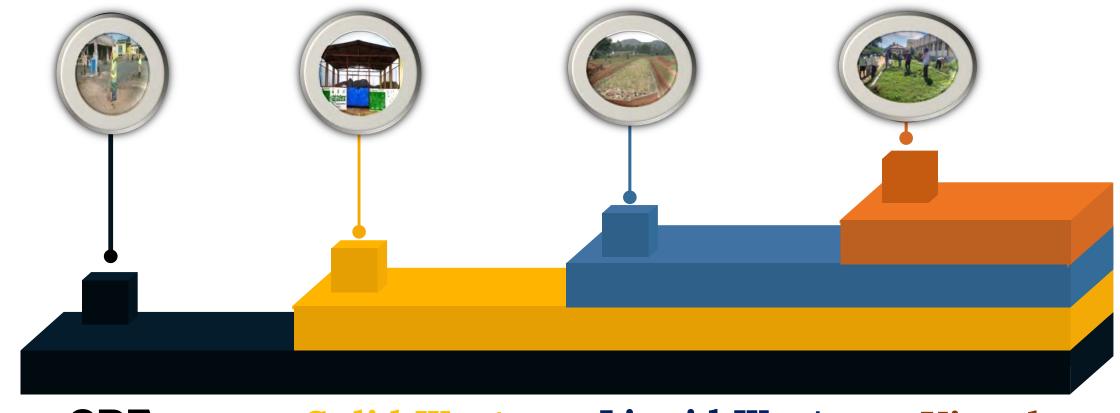
The GOI has approved Phase-II of the SBM-G in **February 2020** Total **outlay** of **Rs.1,40,881 Crores**



Convergence model

SBM-G PHASE-II (2020-21 to 2024-25)

KEY COMPONENTS OF SBM-G PHASE-II



ODF Solid Waste
Sustainability Management

Liquid Waste Visual Management Cleanliness

FROM ODF TO ODF PLUS

ODF Sustainability

- New IHHL (including LOB/NOLB)
- Community Sanitary Complex (CSC)
- Third party verification of sustaining ODF status
- Capacity Strengthening of rural local self governments
- Sustainability centric IEC
- Awards, Incentives to Communities for Sustaining ODF Status
- Retrofitting through IEC

ODF-Plus

Solid & Liquid Waste Management



INDIVIDUAL HOUSEHOLD LATRINE (IHHL)

STATUS OF IHHL

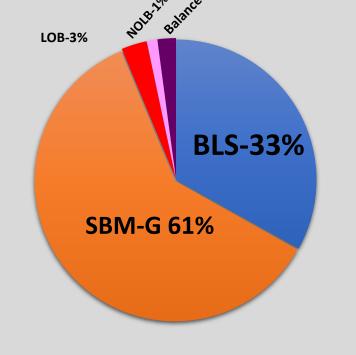
IHHL coverage

(Baseline survey (BLS) 2012-13)

- Total Rural Households: **70,26,518**
- Households with Toilets: 24,83,863
- Households without Toilets: 45,42,655

1. Completed Construction of IHHL Toilets - 45,42,655 and Rural Karnataka declared as ODF on 19th November, 2018.

Scheme	Target	Nos.	Status	
LOB(2018-19)	Target	214575	Completed	
NOLB(2019-20)	Target	210559	Completed	
	Target	122562		
New IHHL-	Achievement	36808		
Phase-II(2020- 21)	Balance to be Constructed	85754	On going	





COMMUNITY SANITARY COMPLEX (CSC)

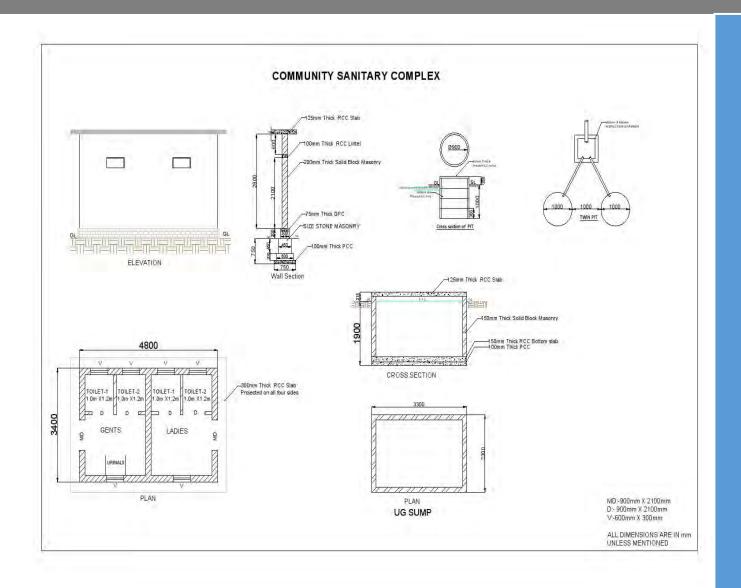
IMPORTANCE OF CSC

Community sanitary complex is a facility built for:

- Households /community who have lack of space for constructing an IHHL.
- >Floating population/migrant workers tourists, public gathering places
- ➤ Owned and maintained by community based organisations or Gram panchayat.
- ➤ Other utilities-bathing facility, place for washing clothes, depending on the needs of the community.



REQUIREMENT OF A CSC



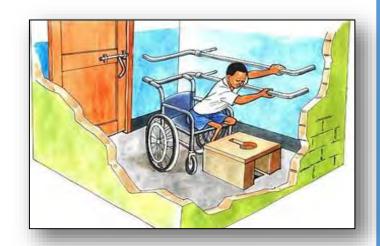
- Separate facilities for men and women,
- Appropriate number of toilet seats, bathing cubicles, washing and cleaning facilities.
- Accessible to **Divyangjans and** Transgender.
- Safe disposal of generated black water through twin pit, septic tank with soak pit and other suitable technology.

ARRANGEMENTS FOR OPERATION AND MAINTENANCE

- 1. A Model Template is designed by the State & shared to districts where the districts have to detail out the following points.
 - Necessity of CSC
 - Details of HH's which will be tagged to each CSC
 - Documents of the land available to construct the Unit
 - Details and certification by the GP regarding adequate supply of water and electricity.
 - GP's plan for operating and maintaining the unit

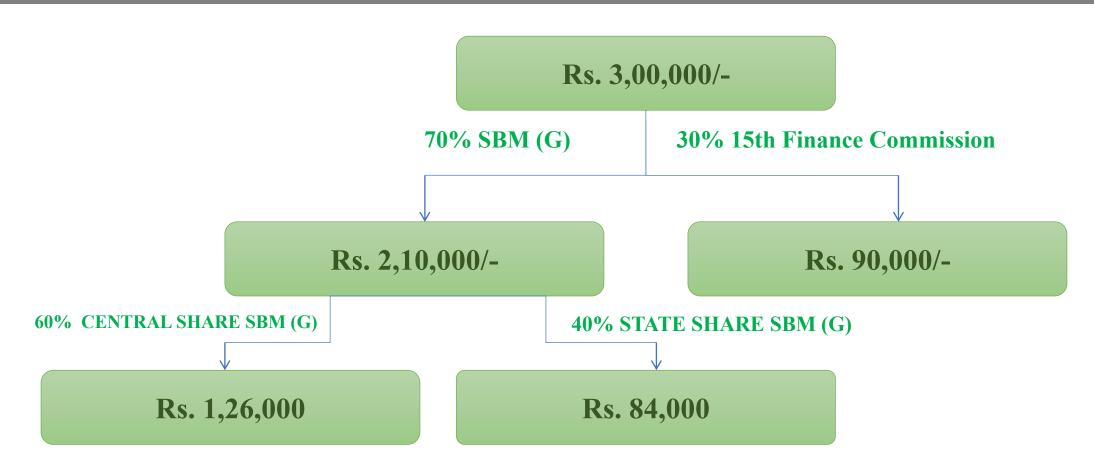
By this we make sure the proposals are approved only where there is necessity and a proper O&M mechanism is in place.

- 2. State reviews the GPs on maintenance of CSCs (On their own or through CBOs)-basic facilities like electricity, water, cleaning material, Sanitation Staff, maintaining structure and regular desludging of pits or Septic tanks connected to CSCs.
- 3. GoK issued a detailed advisory on **utilisation of 15th FC grants** to carry out O&M activities by GPs.





FUNDING PATTERN



Convergence under MGNREGA: 230 Days * Rs.289 per day =Rs.66,470

PROGRESS STATUS OF CSC



Year	Target	Approved	Completed	Ongoing	Approved amount	Release	Expenditure
2018-19	3000	1326	1258	68	2386.80	2293.80	2122.20
2019-20	1000	307	270	37	552.60	517.50	432.35
2020-21	1000	308	98	210	646.80	336.00	2.10
Total		1941	1626	315	3586.20	3147.30	2556.65



SOLID WASTE MANAGEMENT(SWM)

SOLID WASTE MANAGEMENT (SWM) AT GP LEVEL

Solid Waste Definition

Discarded Solid material because it has served its purpose or is no longer useful





OBJECTIVES OF SWM

Management of biodegradable waste

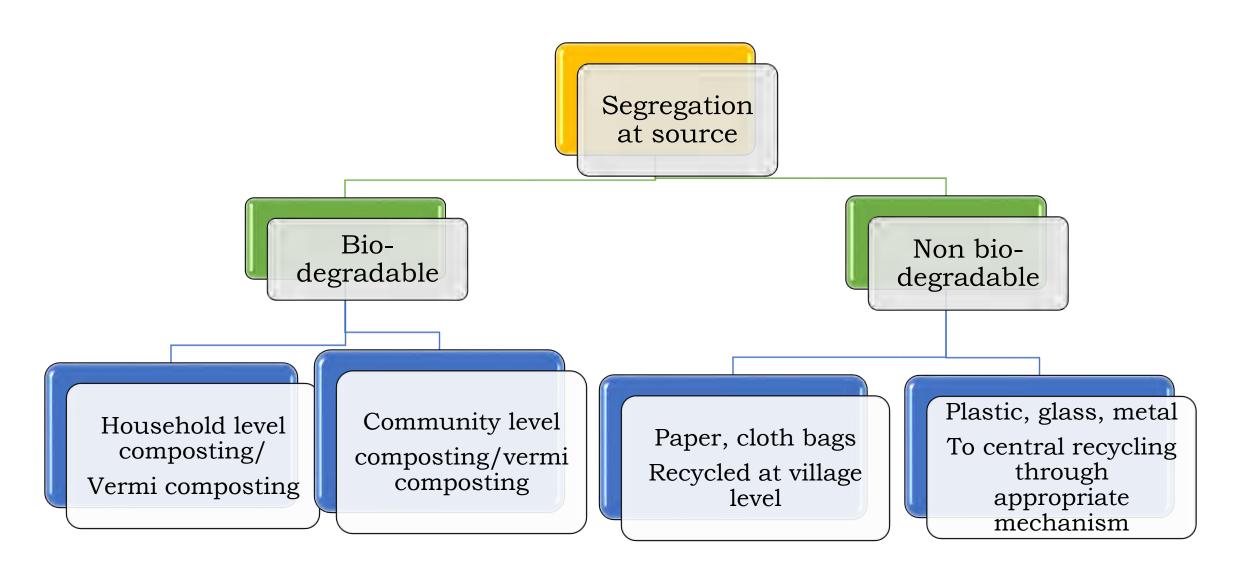


80% of Households and public places



Management of plastic waste

IDEAL SWM SYSTEM



Hierarchy of Waste Management

Most

referred

Least

Reduce

Reuse

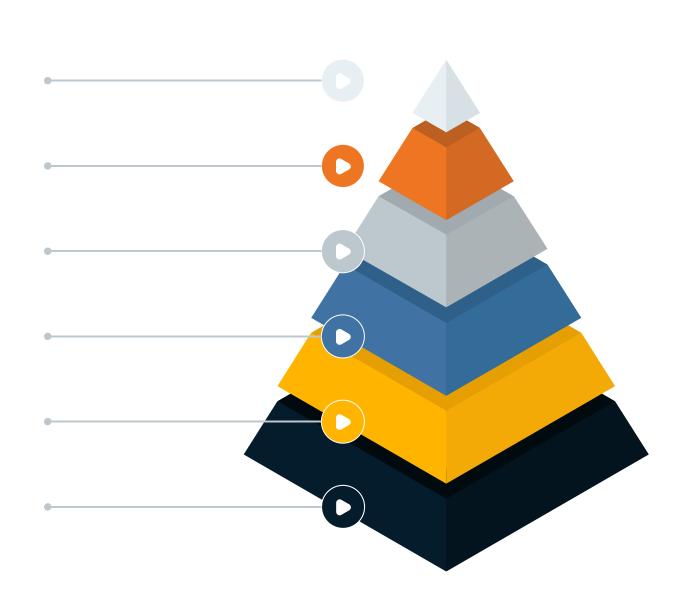
Recycle

Recover

(Digestion, Composting

Landfill Incineration

Controlled Dump



SWM - MANAGEMENT AT DIFFERENT LEVEL

Household

Community / village

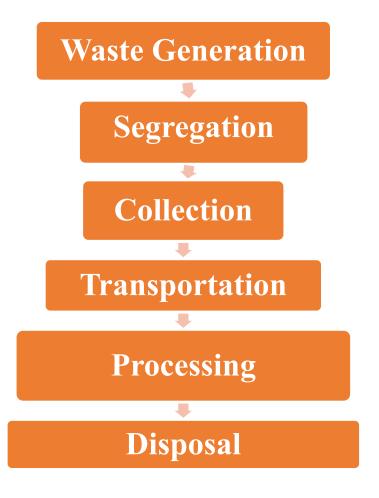
GP

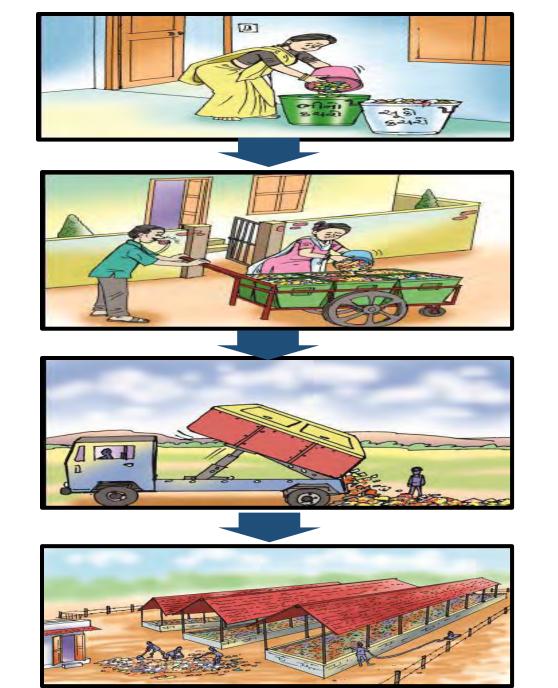
Taluka / District

- Segregation (Wet & Dry)
- Composting, Biogas plant & Cattle feeding
- Wet waste –
 Composting,
 Biogas plant
- Dry waste –
 Segregation,
 storage yard
- Inerts to landfill

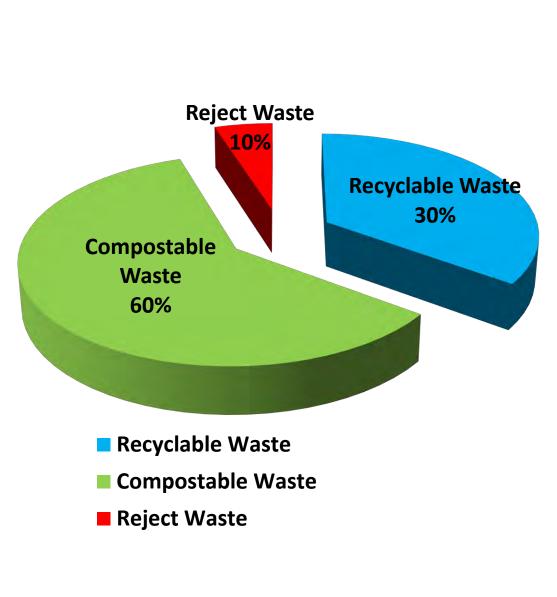
- Wet waste –
 Composting,
 Biogas plant
- Dry waste –
 Resource
 Collection
 Centres,
 segregated
 dry items
 sold to
 authorised
 recyclers.
- Material Recovery facility
- GOBARDHAN

Solid Waste Management





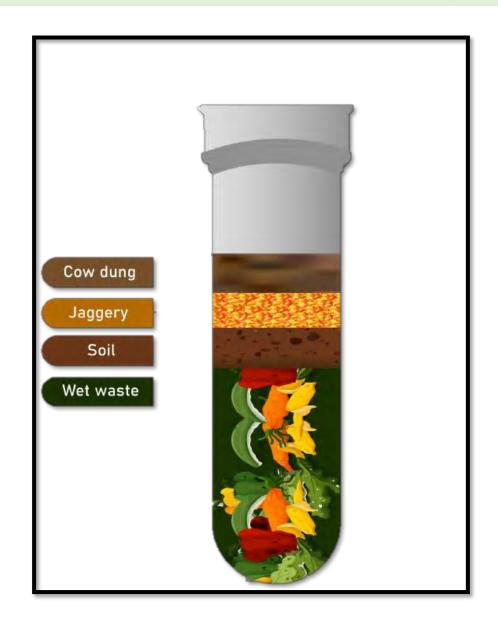
Importance of Segregation of Solid Waste





Pipe Composting

Pot Composting

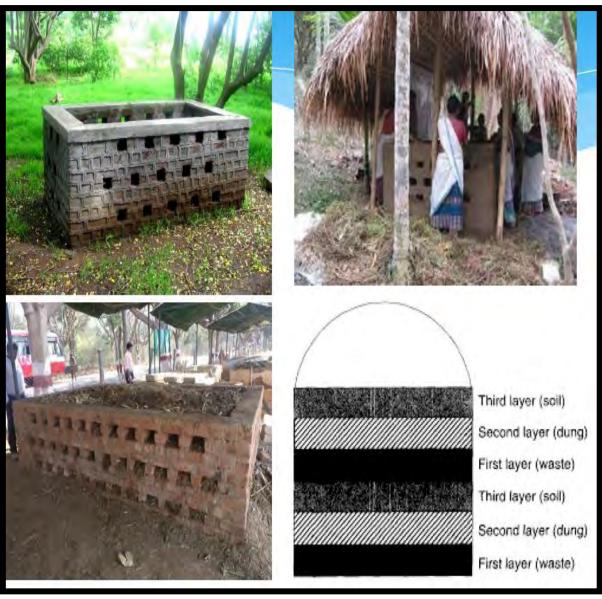




Vermi composting

NADEP Composting





SWM ACTIVITIES AND CONVERGENCE MATRIX

Components	SBM- Phase II	15 th FC	MGNRE GA	Business model/C SR
Segregation bins - households		*		
Segregation bins - Public places		*		
Compost pits, Tri-cycles / other vehicle, Storage for plastic waste	*	*	*	
Setting up of segregation, storage and compost premises			*	
Wages for collection and segregation		*		
Equipments for cleaning the premises and segregation of waste		*		*
O & M for solid waste management		*		

SBM-G PHASE-II FUNDING PATTERN FOR SWM

Village Size	Financial Support
Up to 5000 Population	Solid Waste Management: Up to Rs. 60 Per capita
Above 5000 Population	Solid Waste Management: Up to Rs. 45 Per capita

30% share to be borne by GP from 15th FC Grants, each village can utilize minimum of total Rupees 1 lakh based on their requirements. The remaining 70% share (60:40 Central & State Share) will be provided in SBM (G) Phase II.

SWM - PRESENT STATUS & ACTION PLAN 2020-21

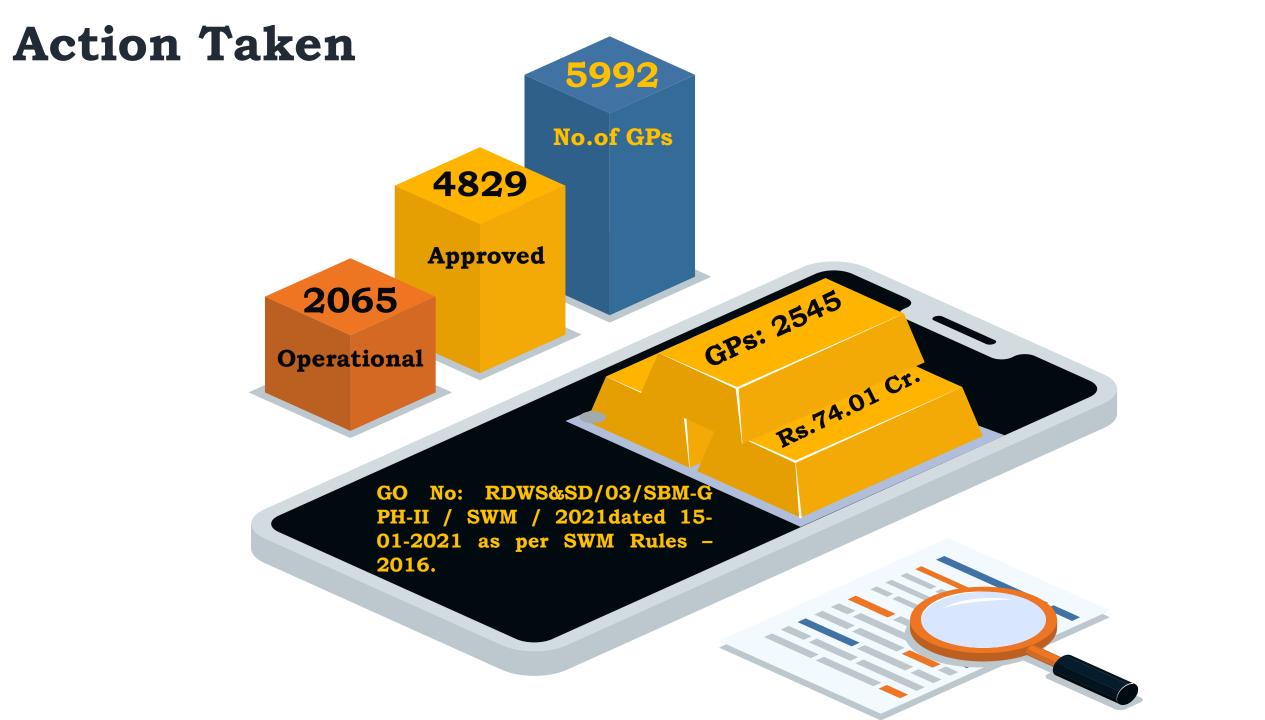
PRESENT STATUS

Rs. In Lakhs

Year	DPR Approved		Funds Released		
Total	4829	36836.95	29291.94	14470.84	2065

ACTION PLAN 2021-22

Year	No of GPs	No of Villages
2021-22	2580	15196



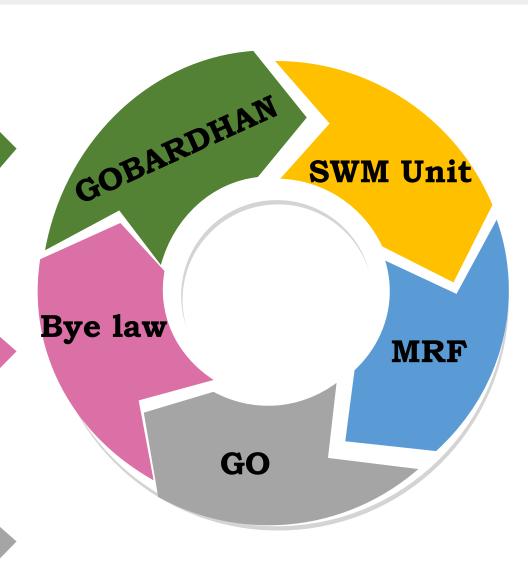
Action Taken

Pilot

- 1. Udupi
- 2. Bangalore (R)
- 3. Uttara Kannada
- 4. Bangalore (U

- Adopted by GPs,
- enforcement mechanism
- Impose penalties

State Rural Sanitation and Waste Management Policy, Strategy & Model Bye laws on SWM and LWM



Land Constraints

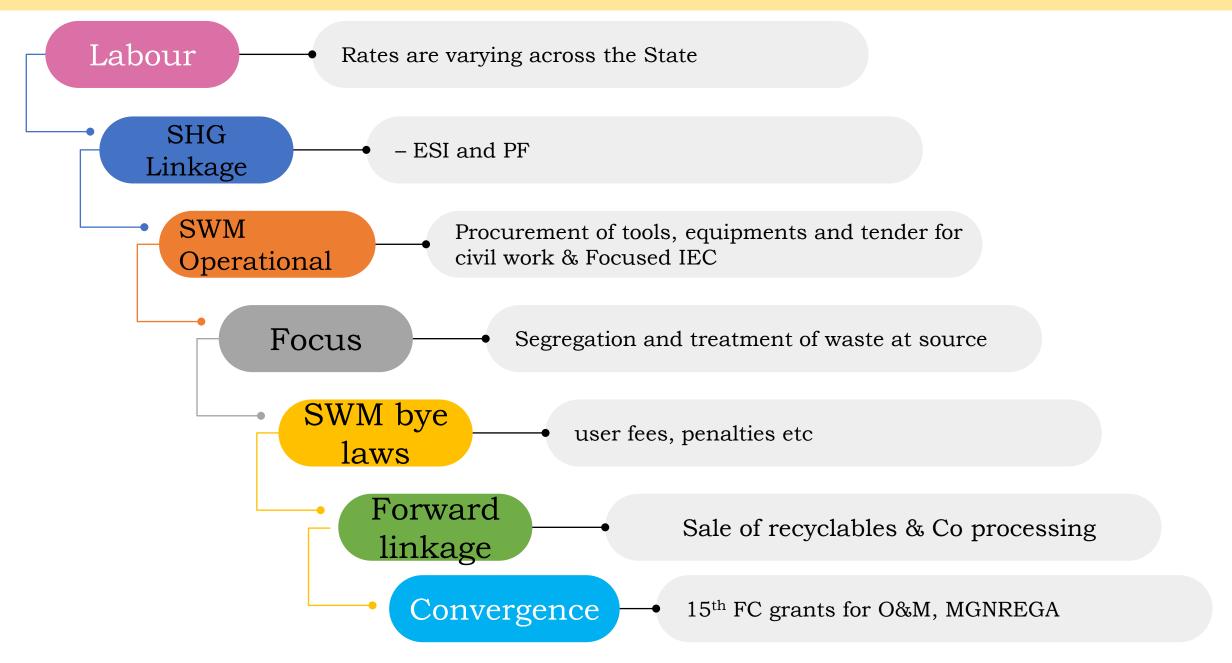
MOU

- 1. Inter GP
- 2. ULB

Pilot

- 1. Udupi
- 2. Dakshina Kannada
- 3. Ballari
- 4. Ramanagara

SWM - CONCERNS/PRIORITY AREAS





MATERIAL RECOVERY FACILITY

WASTE MANAGEMENT PRINCIPLES





Source Segregation & 3R Principle: Waste Minimization and Sustainable use/multi-use of products (Reuse of carry bags, packaging jars, bottles, boxes, wrappings, etc.)



Composting & Biomethanisation: Processing organic waste to recover compost (Windrow, in-vessel & vermi-compost, etc.) and Biogas/CNG



Recycling & Material Recovery:

Processing of non-biodegradable recyclable (combustible & non-combustible) waste to recover commercially valuable material (plastic, paper, metal, glass, etc.)



Waste to Energy:

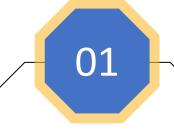
Processing of nonrecyclable & combustible waste to energy (RDF, etc. before final disposal



Landfills

Least Preferred

PROBLEM STATEMENT - DRY WASTE MANAGEMENT



Waste dumping & open burning

Fragmented dry waste management across the state leading to dumping/open burning of waste



02

Lack of waste management infrastructure

Absence of aggregation facilities hence leading to unviable operations. Only selective high value waste streams being recovered currently



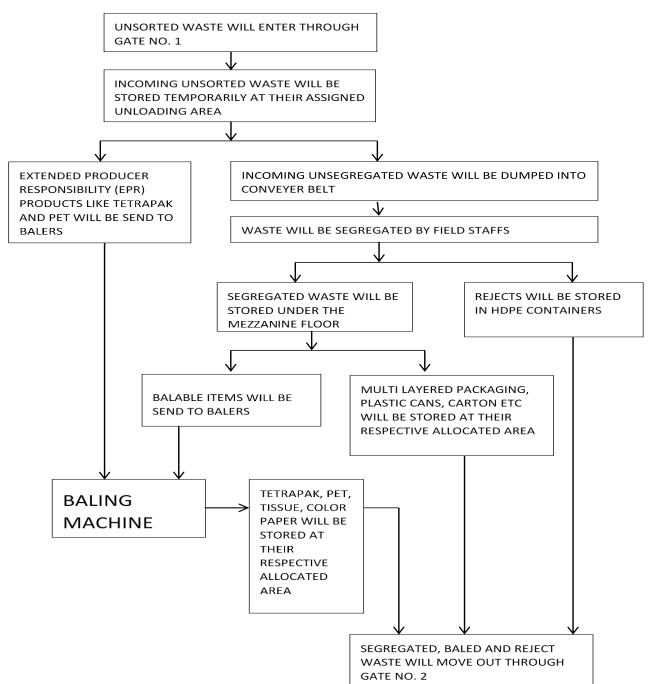
03

Lack of awareness & unskilled workforce

Public awareness of segregation at source and formalisation of waste management industry is critical



MRF Process Flow Diagram



STATUS OF 4 PILOT MRFs



Highlights

- Uniform model with centralised monitoring
- Business model through service fees and EPR
- Sensitisation to ensure segregation at source
- Decentralised infrastructure development
- Mechanisation to ensure efficient operations
- Traceability and data capture

- Formalisation of the supply chain
- Job creation through fully formalised work force
- Maximum resource recovery and diversion from landfill, oceans and preventing open burning
- Circular economy through responsible waste management and consistent supply of quality raw material for the recycling industry
- Collaboration with Government, Industry and inclusive model of the existing waste supply chain

• MRF video.mp4

NETWORK OF DECENTRALISED SOLUTIONS



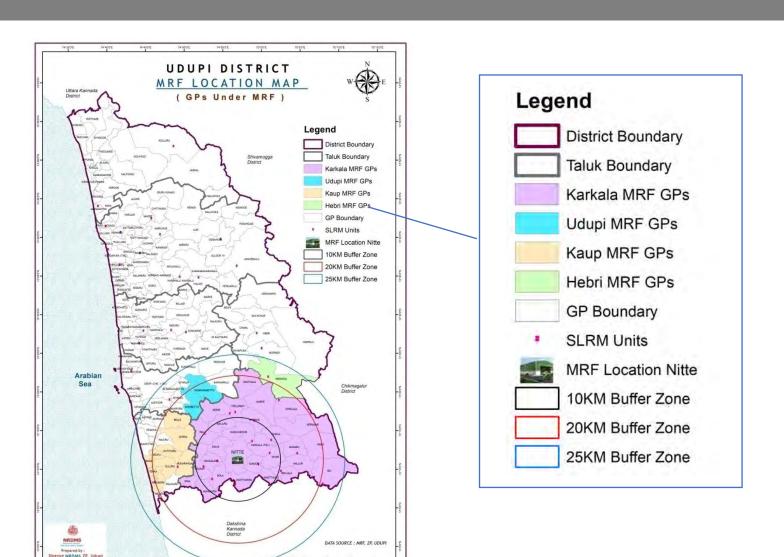


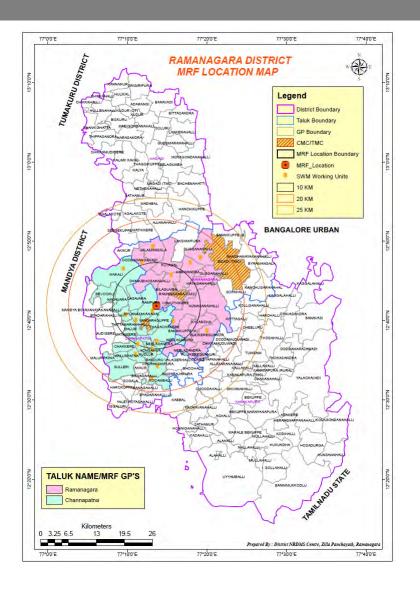
Expansion plan (tentative)

- 1) Pilot projects Four pilot projects at Udupi, Ramnagara, Dakshin Kannada & Ballari
- 2) Awareness and workshops across various stakeholders by SAAHAS
- 3) Phase 1 40 MRFs during the 1st year of project execution
- 4) Phase 2 56 MRFs during the second year of project execution

Total of 100 MRFs within 2-3 years of project execution

CLUSTERING OF THE MRF's - SAMPLE





STATUS OF PILOT MRFs

1. Udupi MRF

- MRF trial run of operations has been commenced
- Saahas Zero waste is engaged in onsite training of staff and operator at the Udupi MRF
- Mangala Resource Management Pvt ltd have been selected as the MRF operator through a tender process
- 20 local staff from Nitte Gram Panchayat have been appointed for working at Udupi MRF
- MRF Truck for sourcing the waste from G.P has been delivered





STATUS OF PILOT MRFs









STATUS OF PILOT MRFs

Ramanagara MRF



Ballari MRF









MENSTRUAL HYGIENE MANAGEMENT (MHM)

MENSTRUAL HYGIENE MANAGEMENT



MENSTRUAL HYGIENE MANAGEMENT FRAMEWORK







Access to knowledge and information















Access to safe menstrual absorbents













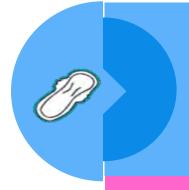


Water, sanitation and hygiene infrastructure



Access to safe disposal of used menstrual absorbents

MENSTRUAL HYGIENE MANAGEMENT UNDER SBM-G



Water, Sanitation and Hygiene Infrastructure.

Adequate water, agents and spaces for washing and bathing with soap.

Access to knowledge and information.

IEC activities to create awareness and provide information to manage menstruation with safety and dignity using safe hygienic materials.





Access to safe disposal of used menstrual adsorbents.
Scientific management of menstrual waste-Incinerators.

WATER, SANITATION AND HYGIENE INFRASTRUCTURE





Adequate numbers of safely located toilets separated (with clear signage) from male facilities.



Safe and private toilets with inside door latch



Clear signs instructing girls and women to dispose of menstrual waste in the trash bin



Night time light source both inside and outside of the toilets



Easily accessible water (ideally inside the cubicle) for girls and women to wash themselves and menstrual materials.



Trash bins (with lids) to dispose of used menstrual materials



Walls, door and roof are made of non-transparent materials with no gaps or spaces.



ACCESS TO KNOWLEDGE AND INFORMATION









ACCESS TO SAFE DISPOSAL OF USED MENSTRUAL ABSORBENTS

- RDWSD has taken initiative for safe disposal of sanitary waste as part of SWM under the SBM objective by facilitating installation of Sanitary Napkin Incinerators in rural areas.
- Pilot projects were carried out in 32 location and the incinerators were periodically reviewed and evaluated.
- Detailed evaluation processed and tests were conducted to shortlist and finalize technical specifications that would be apt for installation.
- RDWSD released funds to the districts for the purchase of sanitary napkin incinerators in all GPs.
- A total of Rs. 12 crores were released to all the districts at the rate of Rs. 20,000/- per GP, out of performance-based incentive scheme funds.
- Additional funds required for the purchase of incinerators at the GP level was met by converging 15th Finance
 Commission grants and other funds.

EVALUATION CRITERIA

General Specification of Sanitary Napkins Incinerator Machine with Smoke Control Unit					
Туре	Floor mounting/Wall mounting				
Operation mode	Electronically operated, fully automatic				
No of stages	2 stages				
Material of construction	MS cabinet with epoxy anti rust proof painting for superior finish.				
Display	LED Display				
Ash tray	Ash tray should be detachable				
Temperature	Minimum of 800 to 950 ^{oc}				
Temperature indicator	Temperature indicator should be provided.				
Door locks	Door locks to be provided				
Burning chamber	To be thermally insulated				
Smoke control unit	Two carbon control filters and Wet scrubbers to be provided for flue gas treatment				
Burning capacity per hour	40 to 70				
Availability of spare parts	Minimum 5 years from date of supply				
ISI mark	All electrical parts must be ISI marked				
Stand	Stand to be provided if floor mounted				
Thickness of thermal insulation material (mm)	m) Minimum 25 mm				

EVALUATION CRITERIA

- Incinerator should comply with all the norms specified by KSPCB, CPCB and the General Emission Standards mentioned under Standard for incineration section in SWM Rules, 2016.
- The total cost of the incinerator should include machinery cost, transportation and installation cost+
 AMC Component for at least 3 years and proper training for handling
- Sanitary Napkin incinerators shall be made of electrical heaters and shall maintain the temperature between 800°-950° However, for efficiency of combustion two stage temperatures are required.
- The temperature shall be maintained at 200°c for a 6-10 minutes in the first stage after this the temperature to be raised up to 800°c-950°c. So that the moisture in napkins will be removed in the 1st stage and efficient combustion will take place in the 2nd stage in the absence of moisture. An electronic device may be installed to have the two sets of temperature to be maintained with a pre-specified time gap.
- Ash generation should not exceed more that 5% per napkin.
- The periodical monitoring shall be done to check the functioning of the machines and quality of emissions
- (The total cost of the machine should also include transportation and installation cost+ AMC component for at least 3 years and proper training for handling).
- Proper trainings and SOP (Standard operation procedures) are to be given by the manufactures to the
 users on functioning of the incinerators.
- Awareness shall be created with display boards at the incinerators not to dispose of the out packing wrapper which is made with plastic along with the pad.

CURRENT STATUS

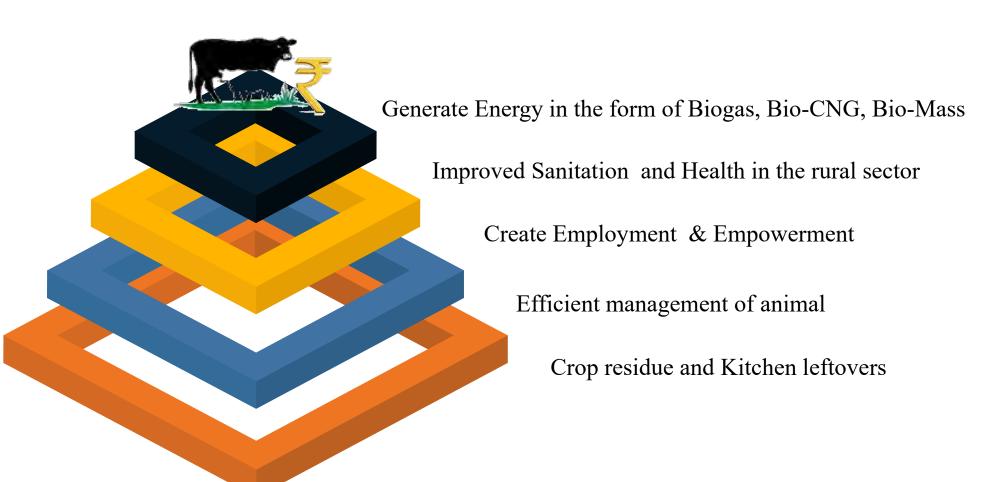


- Currently, stakeholders at the District/GP level are being trained on proper utilization, various technical specifications, and demand parameters of the incinerator.
- Intensive follow up taking place to ensure that incinerators can be installed and used in a timely manner.
- Regular follow up on installed incinerators to validate the usage, efficiency, and performance.
- IEC activities focusing on the personal hygiene of menstruating women, safe practices on MHM, and scientific disposal methods of used sanitary napkin.



GOBARDHAN

OBJECTIVES





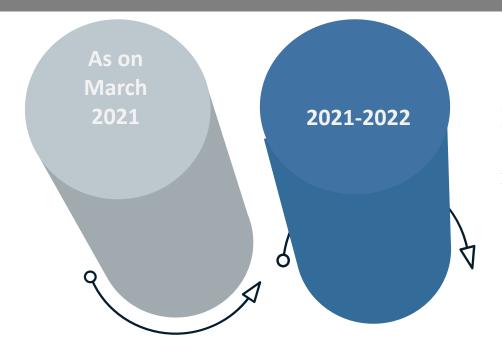
FUNDING PATTERN

No of Units	Fund allocation per district	Beneficiary
Model Project/District	Rs.50.00 lakhs	Community
Minimum 10units/Taluk	NNBOMP(NEW NATIONAL BIOGAS MANURE PROGRAM)under Ministry of New Renewable Energy(MNRE)	Individual /Cluster of Households

STATUS OF GOBARDHAN IMPLEMENTATION IN KARNATAKA

Projects approved: 11 Under Progress: 6

Functional: 5



Projects proposed: 10

Site identified and DPR preparation

is under progress

STATUS OF PROJECTS

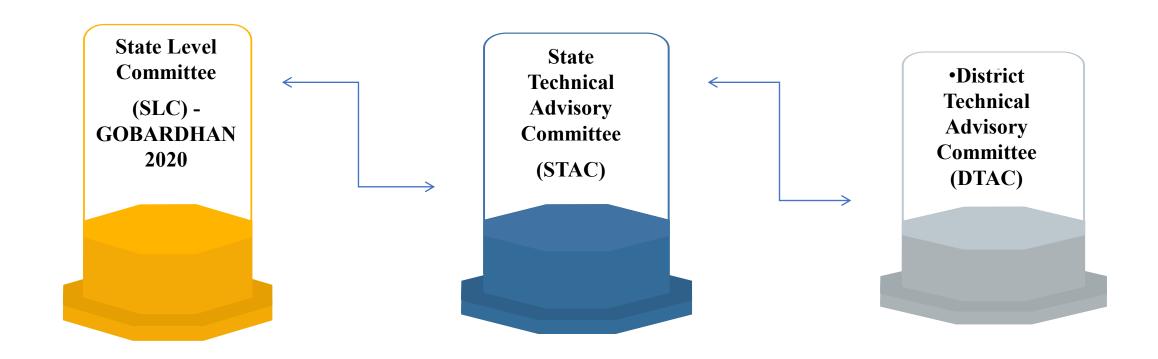
SL No	District	Village	Projects functional/under construction/tendering
1	Udupi	Nitte SWM Unit	
2	Udupi Sri Mookambika temple Kolluru		Tendering
3	Udupi	Sri Durgaparameshwari temple,Mandarthi	
4	Udupi	Vandse SWM Unit	
5	Uttara Kannada Bangaramuki Amuruthadare, Gaushal		Under Construction
6	Uttara Kannada	Sri Kshetra Ulavi	
7	Uttara Kannada	Bhanukuli Mutt,Bedakani	
8	Uttara Kannada Vandiraj Mutt, Sonda		
9	Udupi Varamballi SWM Unit		Functional
10	Bengaluru Rural	Kolipura SWM Unit	
11	Bengaluru Urban	Rajanukunte SWM Unit	

SCALE UP OF IMPLEMENTATION(FY 2021-22)

SL No	District	Gram Panchayat	Site Location identified	Type of Biogas plant	Remarks
1	Chikkamagluru	Heruru	Gaushala		
2	Chikkamagluru	B.Kanaburu	Gaushala		Detailed Project Report preparation is
3	Chikkamagluru	Harnduru	Gaushala		
4	Uttar Kannada	Haladipura	Gaushala		
5	Uttar Kannada	Salkani	Gaushala		
6	Uttar Kannada	Mavalli	Gaushala	KVIC (Floating Drum Type)	
7	Tumkuru	Mydala	Mutt	= - 3333 = 3 F 3 /	under progress
8	Raichuru	Mitti malkapur	Gaushala		
9	Bagalkote	Bennuru	Gaushala		
10	Belgaum	Inchala	Gaushala		

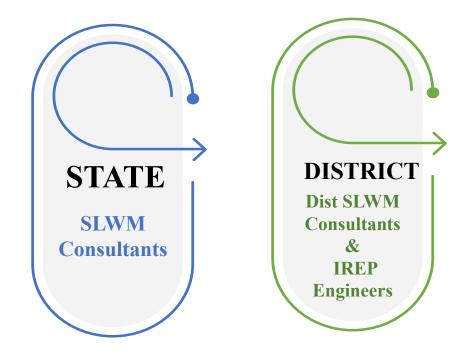
INSTITUTION SET UP & TECHNICAL AGENCY

INSTITUTIONAL ARRANGEMENTS



INSTITUTION SET UP & TECHNICAL AGENCY

- Had a series of discussions with The Energy Resource Institute (TERI) & Karuna Rural Development Society(KRDS) for technical inputs
- The State has prepared Standard DPR template & Circulated to all Districts
- Technical resource pool available at State & District office



GOBARDHAN 2020 (WASTE TO WEALTH)

- State Level Committee(SLC) under the chairmanship of ACS & Development Commissioner GoK is constituted vide GO No–RDW&SD/62/SBM-G/GOBAR-DHAN/2020-21, dated 05.12.2020
- As per First SLC Committee held on 15.12.2020 the following decision were taken
 - •APMC to do feasibility analysis in selected APMC Yards and to implement pilot projects
 - •Endowment department to take up GOBAR-DHAN Projects in 20 GRADE -A temples
 - •KMF to implement at least 4 community based GOBARDHAN Projects across Karnataka

TRAININGS & WORKSHOPS

- Conducted training to all District consultants,
 Panchayat Development Officers related to
 GOBARDHAN Implementation &
 GOBARDHAN 2020
- Conducted training & arranged exposure visit to
 Temple authorities (Endowment department)
 & Panchayat Development Officers of respective Gram Panchayats where in 20 Grade
 A temples are situated to disseminate planning, implementation and technology options related to waste management.







OPERATIONAL BIOGAS PLANTS

District - Bengaluru Rural Bashettihalli Biogas Plant in SWM Unit









District - Uttara Kannada Bhanukuli Mutt Biogas Plant,Bedakani GP













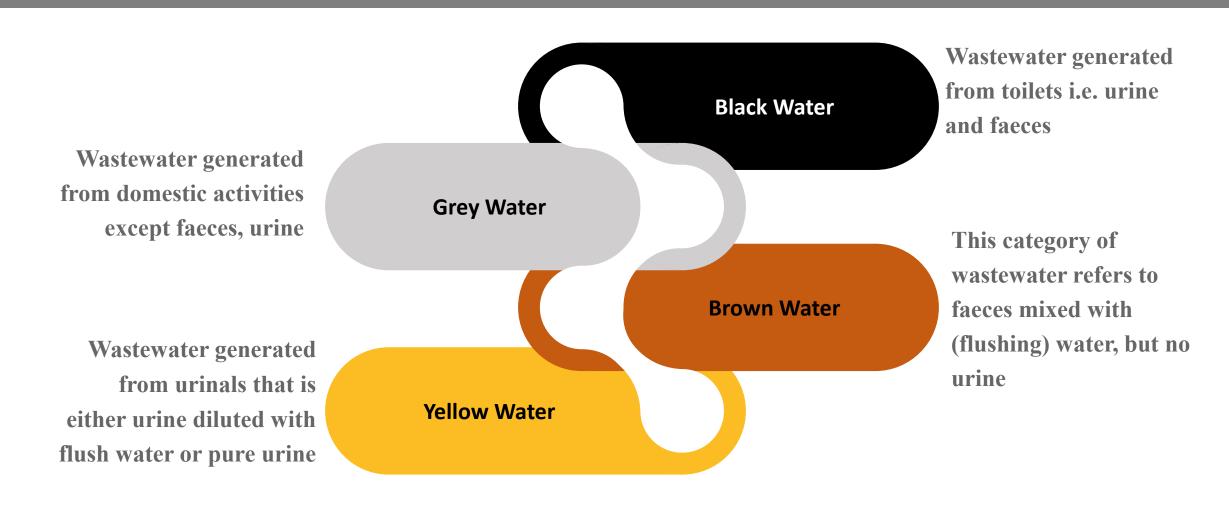




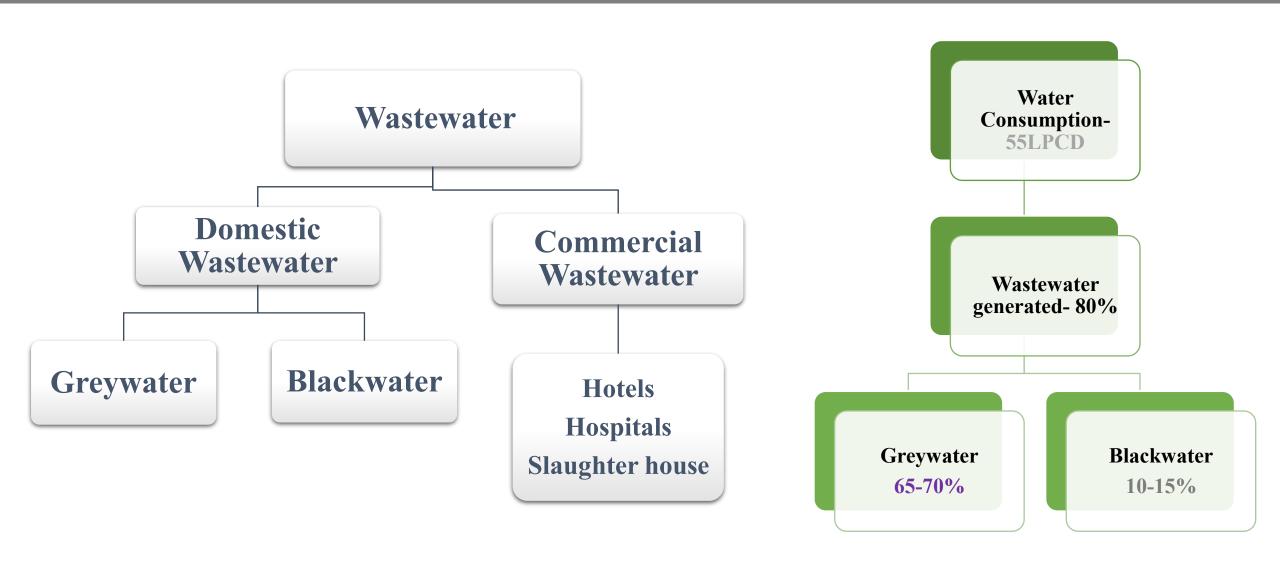


OVERVIEW OF LIQUID WASTE MANAGEMENT

WHAT IS BLACKWATER AND GREYWATER?



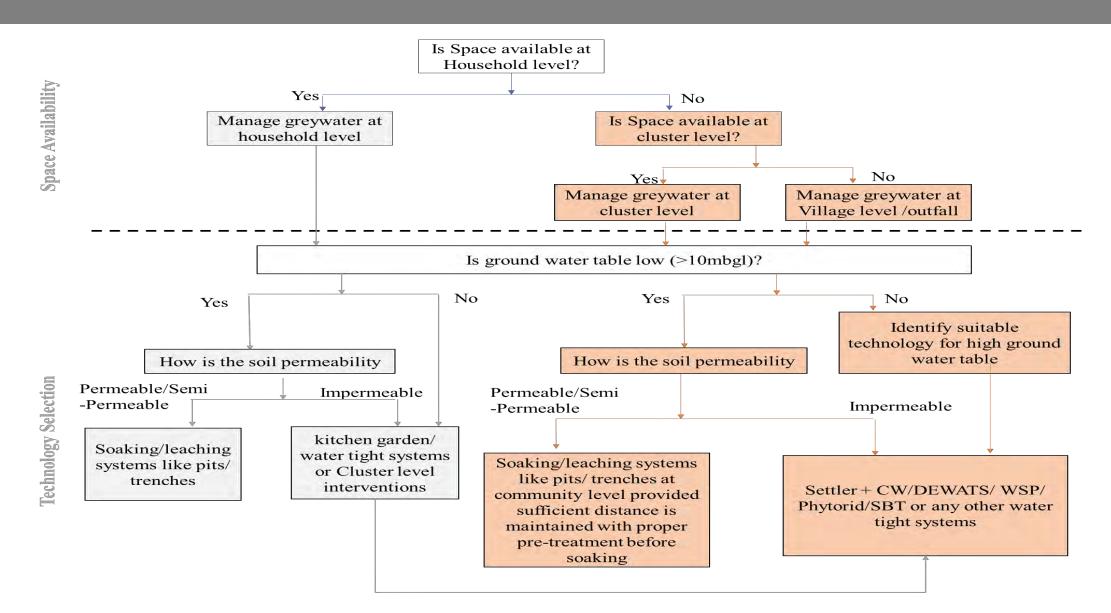
WASTEWATER GENERATION PATTERN



FUNDING PATTERN- AS PER SBM-G PHASE-II GUIDELINES

Description	Village Size	Financial Support		
	Up to 5000 Population	Rs. 280 Per capita		
Crearing to a Maria garage	Above 5000 Population	Rs. 660 Per capita		
Greywater Management	70% share (60:40 Central & State Share) from SBM-G 30% share to be borne by GP from 15 th FC Grants			
Blackwater Management (Faecal Sludge Management - FSM)	Rs.230 per capita			

CATEGORY AGREYWATER MANAGEMENT- APPROACH



I- KITCHEN GARDEN

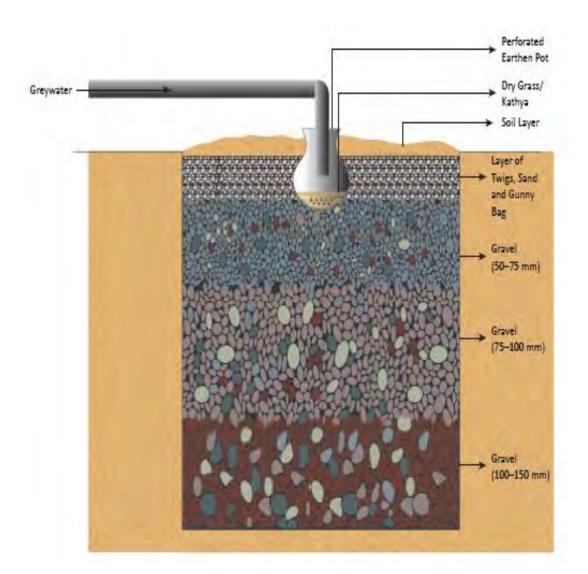






II (A)- SOAK PIT

- Soak pits are best suited for soil with good absorptive properties
- The performance of a soak pit depends on the permeability of the soil
- A rectangular/circular pit of 1 m x 1 m x 1 m can be designed for a 5–7 member household in permeable soil, which functions for a period of 7–8 years. The bottom of the pit must be a minimum of 1 m above the high water table or bedrock
- ➤ Most workable solutions in places where water table is low and soil type promotes soaking
- Needs to be located at a safe distance from water supply source to avoid any contamination



II (B)- LEACH PIT

A leach pit works on the principle of percolation of water similar to that of the soak pit. However, leach pits can deal with higher incoming flows as compared to soak pits.

It is best suited for community level intervention (upto 35 HH)

the bottom and pipe should

protrude 100 mm inside the pit

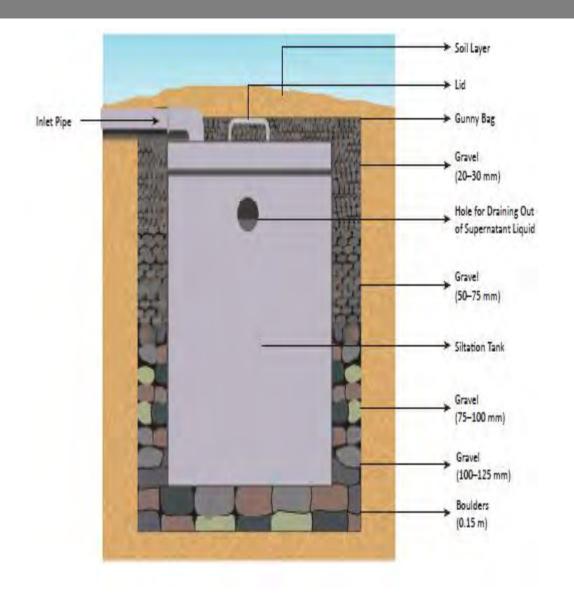


Open jointed

Plaster (1:4)

II (C)- MAGIC PIT

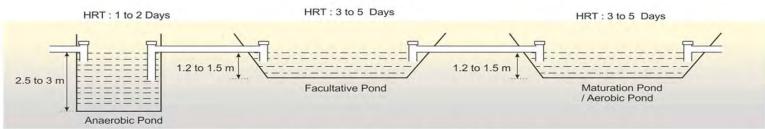
- A magic soak pit is a structure that consists of a cement/plastic tank at the centre surrounded by different grades of boulders and stones. Water is discharged into the tank placed in the centre where suspended particles from greywater settle, allowing cleaner water to flow through different sizes of boulders and stones provided at the periphery, and to percolate into the ground.
- The tank placed in the middle should be able to carry the greywater generated for 2–3 days. An area of 1.2 m x 1.2 m x 1.2 m is dug at a place suitable for a household of 5 people. The bottom of the pit must be a minimum of 1 m above the high water table or bedrock.



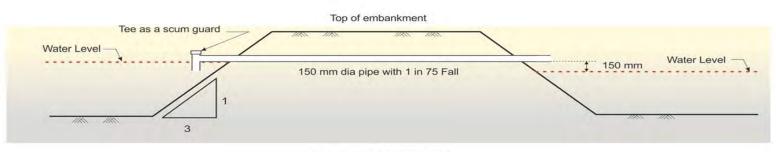
III- WASTE STABILIZATION POND

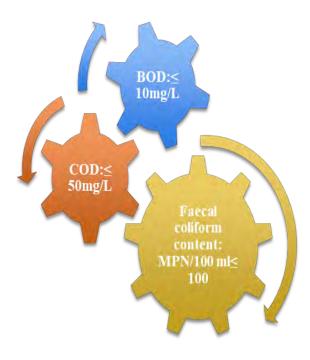
- > This system contains a series of ponds constructed in sequence and combines anaerobic and aerobic treatments
 - Anaerobic ponds: Depth: 2-5 m, retention time: 1-2 days for stabilization and aerobic for pathogen removal
 - Facultative ponds: Depth: 1-2.5 m, retention time: 3-5 days
 - Aerobic : depth: 0.5 -1.5 m, retention time: 3-5 days : Fishes and algae can be grown to reduce phosphorous and nitrogen
- Requires pre-screening and lining of all ponds
- Requires large areas and post treatment of sludge hence suitable for areas where ample space is available.

Grey water stabilization Pond



Design of Grey Water Stabilization Pond (Schematic)

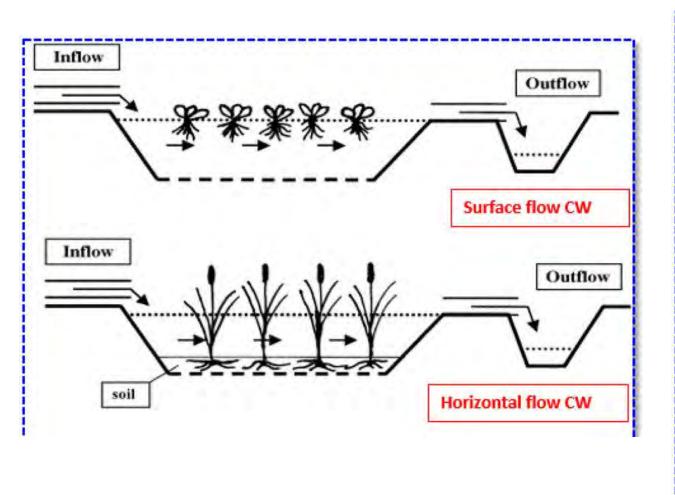


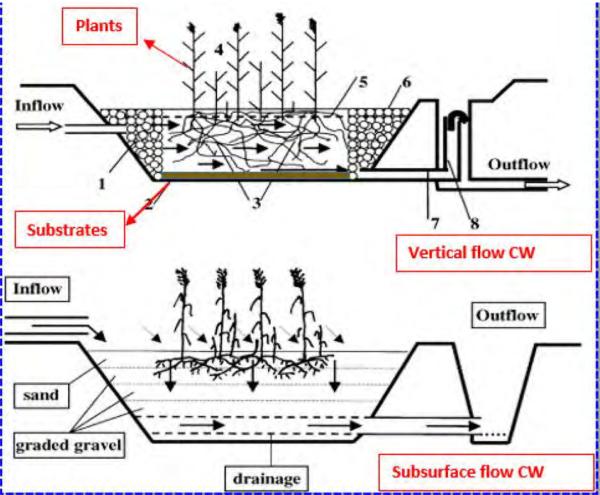


Inter pond connections

IV- CONSTRUCTED WETLANDS

Constructed wetlands are man-made systems in which wastewater treatment is achieved through natural processes involving soil, vegetation, and microbial communities.

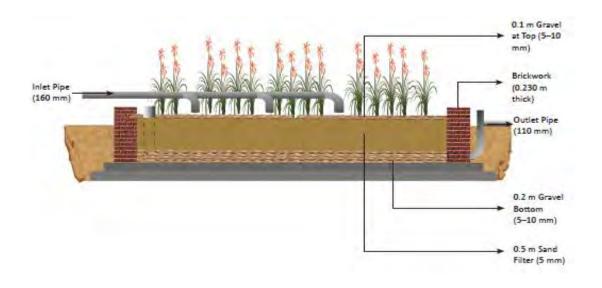




IV- CONSTRUCTED WETLANDS- PLANT SPECIES





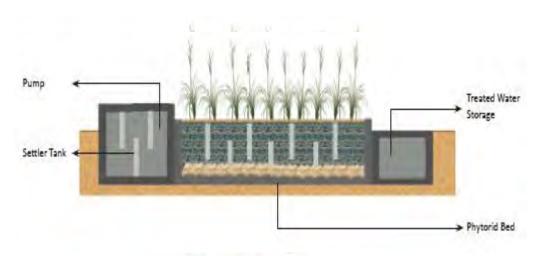


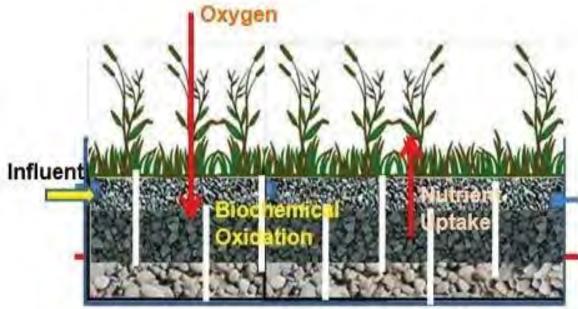




This kind of treatment basically is done to mimic the nature which also tends to treat wastewater with a lighter load of pollution naturally, using plants and sunlight over a few days.

V- PHYTORID





Phytorid is a subsurface mixed flow constructed wetland system (SSFCW) developed and patented by the National Environmental Engineering Research Institute (NEERI), Nagpur.

- ✓ Varying capacities of 5000 L/day to 8-10 MLD
- Various species of aquatic plants: Phalaris arundinacea, Glyceria Maxima, Typa spp etc

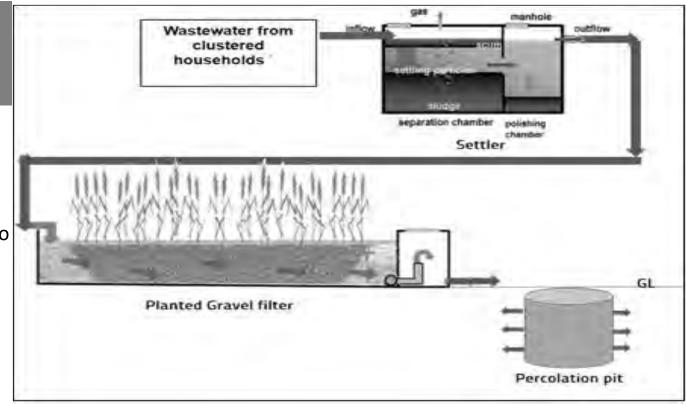


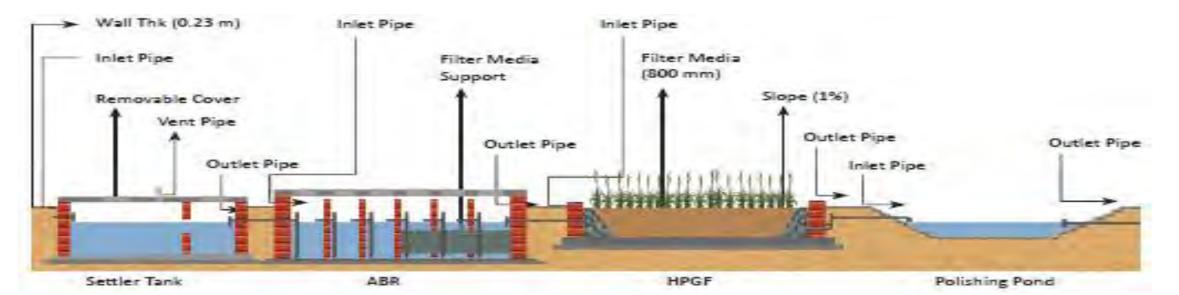
VI- DEWATS

An advanced alternative to soaking systems, where treatment happens before soaking the greywater

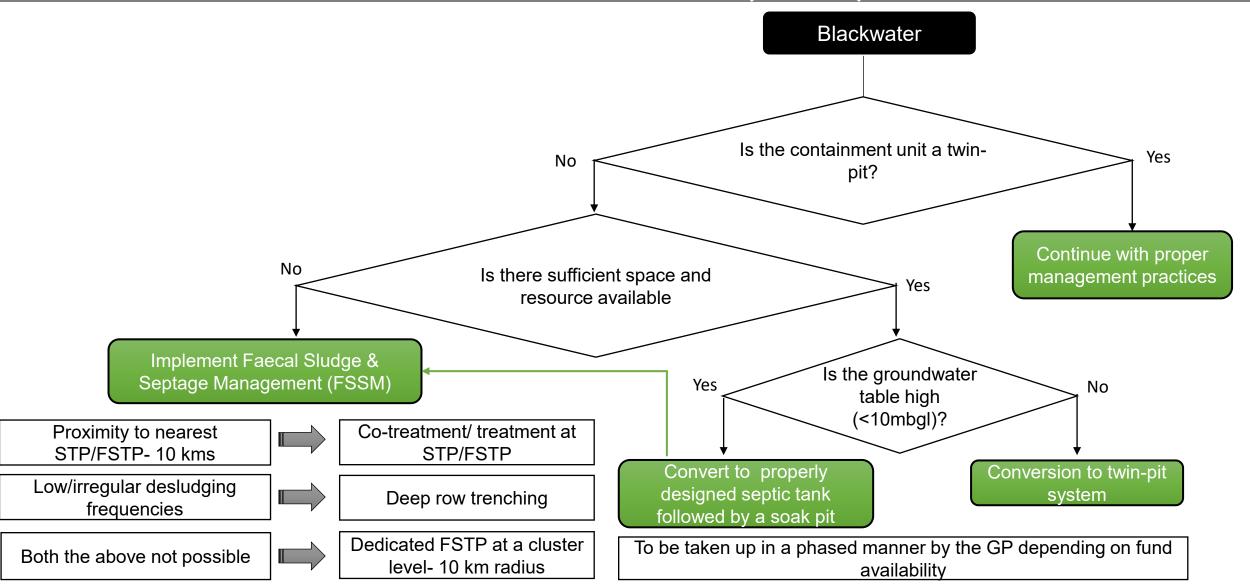
Needs minimum operation and maintenance by the community on a monthly/annual basis. Consists of a settler to allow settlement of both solids and capture of grease.

The second module is a planted gravel filter which provides further treatment and digestion of the greywater before it is discharged into a soak pit





CATEGORY B-BLACKWATER MANAGEMENT (FSM)-APPROACH



I- RETROFITTING

- ➤ Converting single pit latrines to twin pit
- ➤ Correcting defective septic tanks-adding soak pit for discharge, adding the chamber separation wall, sealing the bottom
- Improving twin pits -ensuring functional junction chamber, honeycombing or perforations in pit wall, adequate distance between pits, safe distance from water sources



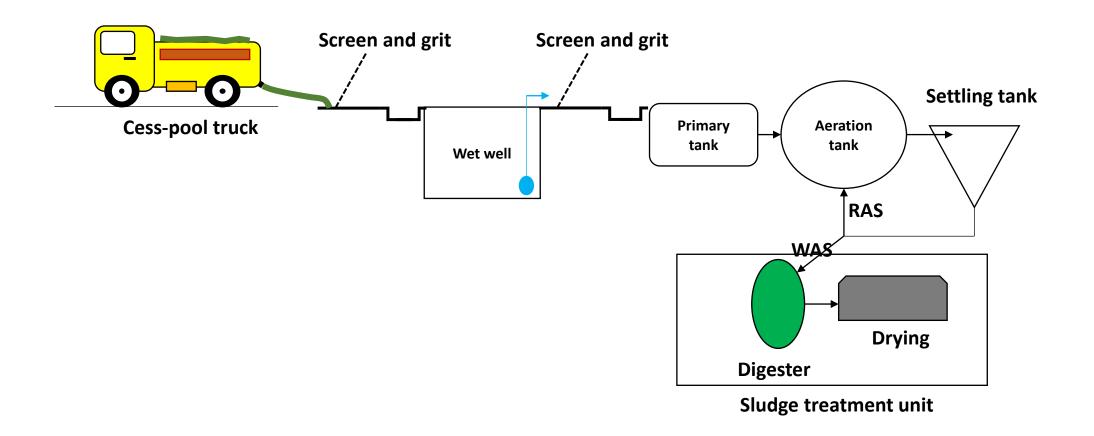
Defective Septic Tank & Soak pit





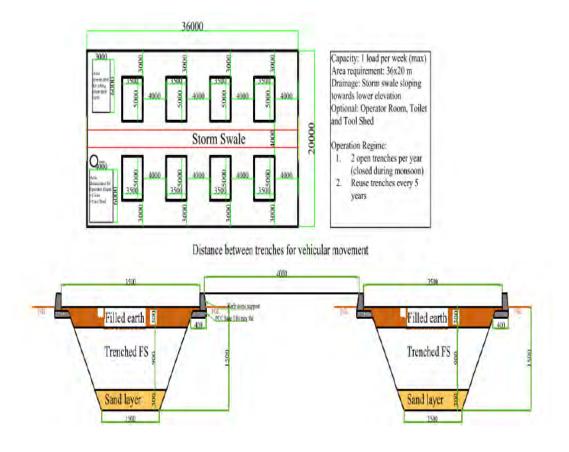
II- CO-TREATMENT

Managing faecal sludge from Gram Panchayat is to utilize existing sewage treatment infrastructure-existing under-utilized STP in the closest town/city within 15 km traveling distance



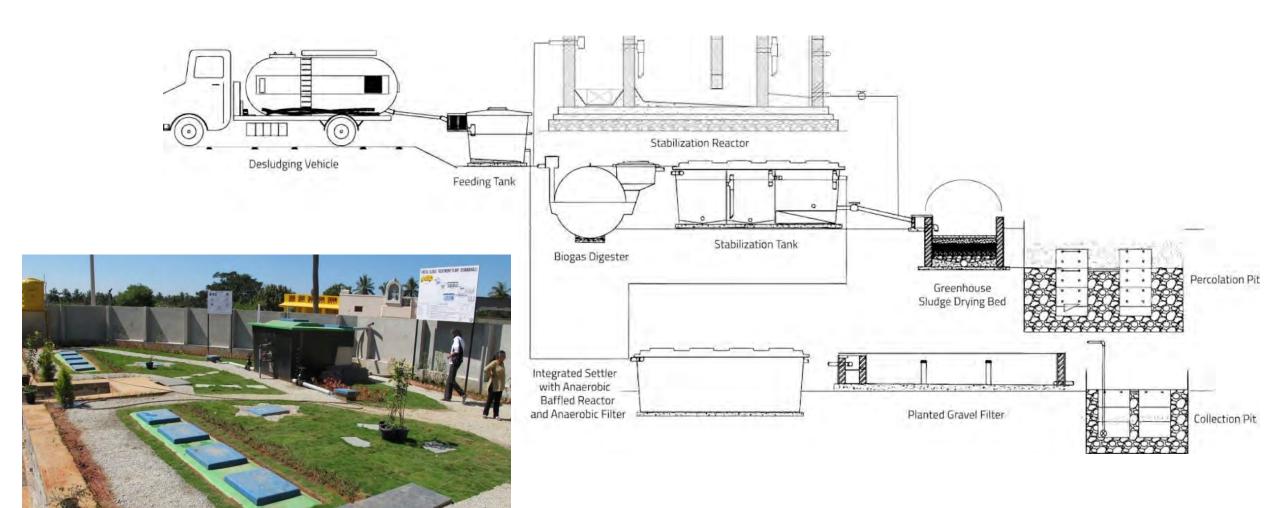
III- TRENCHING

- >Trenching is the simplest method for managing faecal sludge
- ➤ Could be used as an intermittent solution till there is sufficient demand for treatment of faecal sludge at a dedicated treatment facility





IV- FAECAL SLUDGE TREATMENT PLANT



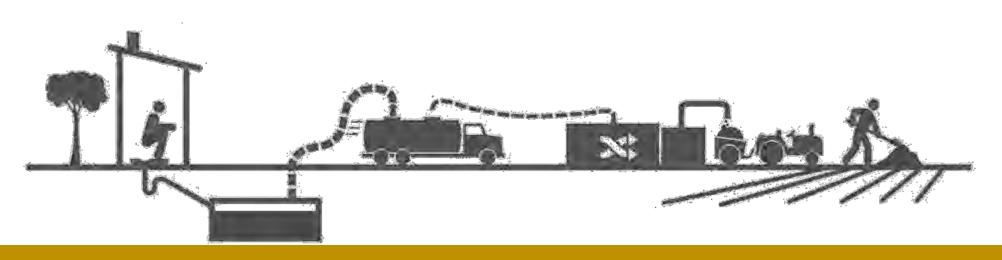
CURRENT STATUS OF LIQUID WASTE MANAGEMENT

1. Faecal Sludge Management (FSM)

- ➤ 16 Pilot FSTP Projects
- ➤ 49 Scale Up FSM Project

2. Greywater Management (GWM)

- > 90 pilot GW projects
- ➤ 6000 village level Scale up GW projects in FY 2021 -2022



FSM UNITS

16 PILOT FSTP PROJECT STATUS

Sl. No	District	GP Name	No Of Associated GPs	No Of Associated Villages	Amount Released (in Lakhs)	Expenditure (in Lakhs)	Progress of Construction	Progress Description	Remarks
1	Udupi	Kukkundoor	9	12	52.96	0	30%	Drying bed under construction	Construction under Progress
2	Udupi	80 Badagubettu	6	12	55.13	0	75%	Drying bed & stabilization reactor completed	Construction under Progress
3	Chikkamagaluru	Amruthapura	11	55	51	0	5%	Site marking is completed	Work will start in this week
4	Bangalore Urban	Rajaanukunte	7	48	44.4	0	10%	Excavation Completed	Construction under Progress
5	Ballari	Malpanagudi	11	16	44.05	0	-	-	Revised tender to be called
6	Ballari	Rupangudi	8	16	27.29	0	40%	Drying beds completed	Construction under Progress
7	Haveri	Tumminakatti	8	35	77.74	0	-	-	Local issues
8	Dakshina Kannada	Golthamajal	24	33	63.48	0	-	Site marking Scheduled on 06.08.2021	Work Order Issued
9	Dakshina Kannada	Ujire	24	37	69.87	0	-	Site marking Scheduled on 06.08.2021	Work Order Issued
10	Kalaburagi	Taj Sultanpur	7	15	34.33	0	10%	Excavation Completed	Construction under Progress
11	Dharwad	Kubihal	10	10	45.98	0	5%	Site marking is completed	Excavation stopped due to rains
14	Dharwad	Koliwad	6	8	0	0	-	-	Land issues- DC order
12	Belagavi	Karoshi	14	32	56.57	0	-	-	Tender Called, Contractor to be finalized
13	Belagavi	Sambra	16	30	73.14	0	-	-	Land issues- Flood Zone
15	Uttar Kannada	Gokarna	38		0	0	-	-	Land issues
16	Yadgir	Doranahalli	14	36	0	0	-	-	Land issues
	Total	<u> </u>	213	395	695.94				

ABSTRACT OF 16 PILOT PROJECTS

Description	No of Pilot	Project Location
Total No. of works started	7	Amruthapura, Kukandur,80 Badagabettu, Rupanagudi, Rajanukunte, Kubihala, Taj Sulthanpur
Marking given but the work to be start	0	
Due for marking	3	Tumminakatte, Ujire, Golthamajalu
Financial bid opened n due for evaluation	1	Koliwada
Retendered	2	Sambra, Karoshi
Due for survey and DPR preparation	1	Malpanagudi
Land problem	2	Gokarna, Doranahalli
Total	16	

STATUS OF 16 PILOT PROJECTS





80-Badagabettu

Kukandooru

Rupangudi



Tajsultanpur



Rajankunte

PROPOSED SCALE UP OF FSMS SIZING AND TECHNOLOGY

Sr. no.	District	Mother Gram Panchayat	Associate Gram Panchayat Number	FSTP Size	Proposed Technology
1	Ramanagara	Doddamaralawadi	9	3KLD	Planted Drying Bed
2	Ramanagara	Kodihalli	12	3KLD	Planted Drying Bed
3	Ramanagara	Kabbalu	09	6KLW	Planted Drying Bed
4	Ramanagara	Byramangala	04	3KLD	Planted Drying Bed
5	Raichur	Kothnal	15	18KLW	Planted Drying Bed
6	Raichur	Nagaddinni	9	12KLW	Planted Drying Bed
7	Chamarajnagara	Kongarahalli	7	9KLW	Planted Drying Bed
8	Chikkamagaluru	Sakarayapattana	15	6KLD	Unplanted Drying Bed
9	Chikkamagaluru	Shivane	12	6KLD	Unplanted Drying Bed
10	Bangalore Rural	Samethahalli	7	12KLW	Planted Drying Bed
11	Bangalore Rural	Shivanapura	12	6KLD	Unplanted Drying Bed
12	Bangalore Rural	Thippuru	10	6KLD	Unplanted Drying Bed
13	Bangalore Rural	Jalie	5	12KLW	Planted Drying Bed

Sr. no.	District	Mother Gram Panchayat	Associate Gram Panchayat Number	FSTP Size	Proposed Technology
14	Chikkaballapur	Hudugur	6	12 KLW	Planted Drying Bed
15	Hassan	Ramanathapura	12	3 KLW	Planted Drying Bed
16	Uttara Kannada	Tergaon	18	9 KLW	Planted Drying Bed
17	Dakshin Kannada	Uppinangdy	10	3 KLD	Planted Drying Bed
18	Haveri	Motabennur	6	6 KLD	Planted Drying Bed
19	Ballari	Sirigeri	15	3 KLW	Planted Drying Bed
20	Kalaburagi	Telkur	18	3 KLD	Planted Drying Bed
21	Kalaburagi	Kuknoor	9	3 KLD	Planted Drying Bed
22	Shivamogga	Rippenpete	6	3KLW	Planted Drying Bed
23	Kolar	Bethamangala	5	9KLD	Unplanted Drying Bed
24	Tumakuru	Naduru	5	3KLD	Planted Drying Bed
25	Raichur	Alabnur	21	12KLW	Planted Drying Bed
26	Belagavi	Sankonatti	13	18KLW	Planted Drying Bed
27	Yadagir	Saidapur	8	10KLW	Planted Drying Bed

Sr. no.	District	Mother Gram Panchayat	Associate Gram Panchayat Number	FSTP Size	Proposed Technology
28	Yadagir	Khanapur SH	9	10KLW	Planted Drying Bed
29	Yadagir	Gogi k	11	3KLW	Planted Drying Bed
30	Shivamogga	Udri	4	NA	Trenching
31	Shivamogga	Hosabale	5	NA	Trenching
32	Shivamogga	Gajanuru	8	NA	Trenching
33	Shivamogga	Talaguppa	8	NA	Trenching
34	Shivamogga	Gudavi	4	NA	Trenching
35	Shivamogga	Guddekoppa	4	NA	Trenching
36	Koppal	Mangaluru		NA	Trenching
37	Mandya	Belagola	7	6KLW	Planted Drying Bed
38	Mandya	Goruvanahalli	5	6KLW	Planted Drying Bed
39	Davangere	Kodaganuru	11	-	Trenching
40	Davangere	Diddigi	9	-	Trenching
41	Gadag	Harati	15	9KLW	Planted Drying Bed

Sr. no.	District	Mother Gram Panchayat	Associate Gram Panchayat Number	FSTP Size	Proposed Technology
42	Bidar	Gahtboral	18	3KLD	Planted Drying Bed
43	Bidar	Sastapur	13	-	Trenching
44	Bangalore urban	Kannamangala	7	3KLD	Un-Planted Drying Bed
45	Belagavi	Khanagaon	10	12KLW	Planted Drying Bed
46	Ballari	Devaragondanahally	7	3KLW	Planted Drying Bed
47	Davangere	Kurki	8	-	Trenching
48	Hassan	Hagare	8	12KLW	Planted Drying Bed
49	Kodagu	Suntikoppa	12	3KLW	Planted drying Bed
	Total		466		

PROPOSED SCALE UP OF FSMS SIZING AND TECHNOLOGY

- ➤115 Clusters were formed for scale up of FSTP across the state, out of which 65 Clusters were found to be feasible and in 49 Clusters faecal load is assessed and suitable technology is finalized
 - ■32 FSM clusters the proposed treatment technology is Planted drying bed
 - ■11 FSM cluster the proposed treatment technology is Trenching
 - ■6 FSM clusters the proposed treatment technology is Un-Planted drying bed



- >Trenching method suggested for 11 clusters can be executed with in a time frame of one month
- ➤ Topography & Geo-technical survey completed for 7 sites. Chamrajnagar-1, Chikkaballapur-1, DK-1, Ramnagar-3, Kodagu-1



GREYWATER MANAGEMENT AT VILLAGE LEVEL

GREYWATER MANAGEMENT

- ➤ A Government Order was issued on 13.11.2020 for releasing 25% (205.35 Cr) of the available funds under SBM-G for implementation of Greywater management (GWM) to all districts
- A joint circular was issued in convergence with MGNREGA to utilize the available funds under SBM-G for material component during implementation of GWM
- > On-boarded CDD Society for technical handholding & capacity building across the State
- ➤ Phase –I, 3 Gram Panchayats were identified in each District for initial implementation
 - Totally 113 Gram Panchayats were identified
 - Data collection forms were received from 90 GPs, out of which suitable technological options were proposed for 15 GPs

GREYWATER MANAGEMENT

- > DPR template for GWM projects prepared and shared with all Districts
- Advanced Module training are scheduled and in progress for engineers and consultants involved in implementation of GWM will be completed by September 2021.
- ➤ 5 day's Training of Trainers (ToT) module was completed for State & district SLWM consultants from 26.08.2021 to 30.08.2021
- ➤ Orientation training regarding GWM for GPPs/PDOs is being scheduled to start from third week of August 2021 and in Chamrajnagar, Belagavi and Kolar district the orientation training is completed.

ADVANCED MODULE TRAINING CALENDAR

Si No	District	Date of Training	Maximum 60 Participants, RWS Engineers, MGNREGA Engineers, SLWM Consultants			
1	Chamrajanagar	15.07.2021 - 17.07.2021	CDD TEAM-1			
Reports submission and feedback collection						
2	Ramnagara	26.07.2021 - 28.07.2021	CDD TEAM-1			
3	Chikkaballapura	29.07.2021 – 31.07.2021	CDD TEAM-1			
4	Mandya	02.08.2021 - 04.08.2021	CDD TEAM-1			
5	Shivamogga	05.08.2021 - 07.08.2021	CDD TEAM-1			
6	Bangalore Urban	09.08.2021 - 11.08.2021	CDD TEAM-1			
7	Bangalore Rural	12.08.2021 - 14.08.2021	CDD TEAM-1			
8	Kolar	16.08.2021 - 18.08.2021	CDD TEAM-1			
9	Tumkur	19.08.2021 - 21.08.2021	CDD TEAM-1			
10	Tumkur	23.08.2021 - 25.08.2021	CDD TEAM-1			
11	Dakshina Kannada	27.08.2021 – 29.08.2021	CDD TEAM-1			
12	Udupi	30.08.2021 - 01.09.2021	CDD TEAM-1			
13	Chitradurga	02.09.2021 - 04.09.2021	CDD TEAM-1			
14	Davangere	06.09.2021 - 08.09.2021	CDD TEAM-1			
15	Haveri	13.09.2021 - 15.09.2021	CDD TEAM-1			
16	Hassan	16.09.2021 - 18.09.2021	CDD TEAM-1			
17	Chikkamagaluru	20.09.2021 - 22.09.2021	CDD TEAM-1			
18	Kodagu	23.09.2021 - 25.09.2021	CDD TEAM-1			
19	Mysore	27.09.2021 – 29.09.2021	CDD TEAM-1			
20	Mysore	30.09.2021 - 02.10.2021	CDD TEAM-1			

Si No	District	Date of Training	Maximum 60 Participants, RWS Engineers, MGNREGA Engineers, SLWM Consultants				
1	Ballari	12.07.2021- 14.07.2021	CDD TEAM-2				
2	Vijaynagara	15.07.2021 - 17.07.2021	CDD TEAM-2				
Reports submission and feedback collection							
3	Gadag	26.07.2021 - 28.07.2021	CDD TEAM-2				
4	Koppal	29.07.2021 - 31.07.2021	CDD TEAM-2				
5	Belgaum	02.08.2021 - 04.08.2021	CDD TEAM-2				
6	Belgaum	05.08.2021 - 07.08.2021	CDD TEAM-2				
7	Bagalkot	09.08.2021 - 11.08.2021	CDD TEAM-2				
8	Bagalkot	12.08.2021 - 14.08.2021	CDD TEAM-2				
9	Vijaypura	16.08.2021 - 18.08.2021	CDD TEAM-2				
10	Vijaypura	19.08.2021 - 21.08.2021	CDD TEAM-2				
11	Kalburgi	23.08.2021 - 25.08.2021	CDD TEAM-2				
12	Kalburgi	26.08.2021 - 28.08.2021	CDD TEAM-2				
13	Bidar	30.08.2021 - 01.09.2021	CDD TEAM-2				
14	Yadgir	02.09.2021 - 04.09.2021	CDD TEAM-2				
15	Raichur	06.09.2021 - 08.09.2021	CDD TEAM-2				
16	Raichur	13.09.2021 - 15.09.2021	CDD TEAM-2				
	Reports submission and feedback collection						
17	Uttarakannada	16.09.2021 -18.09.2021	CDD TEAM-2				
18	Uttarakannada	20.09.2021 - 22.09.2021	CDD TEAM-2				
19	Dharwad	23.09.2021 – 25.09.2021	CDD TEAM-2				

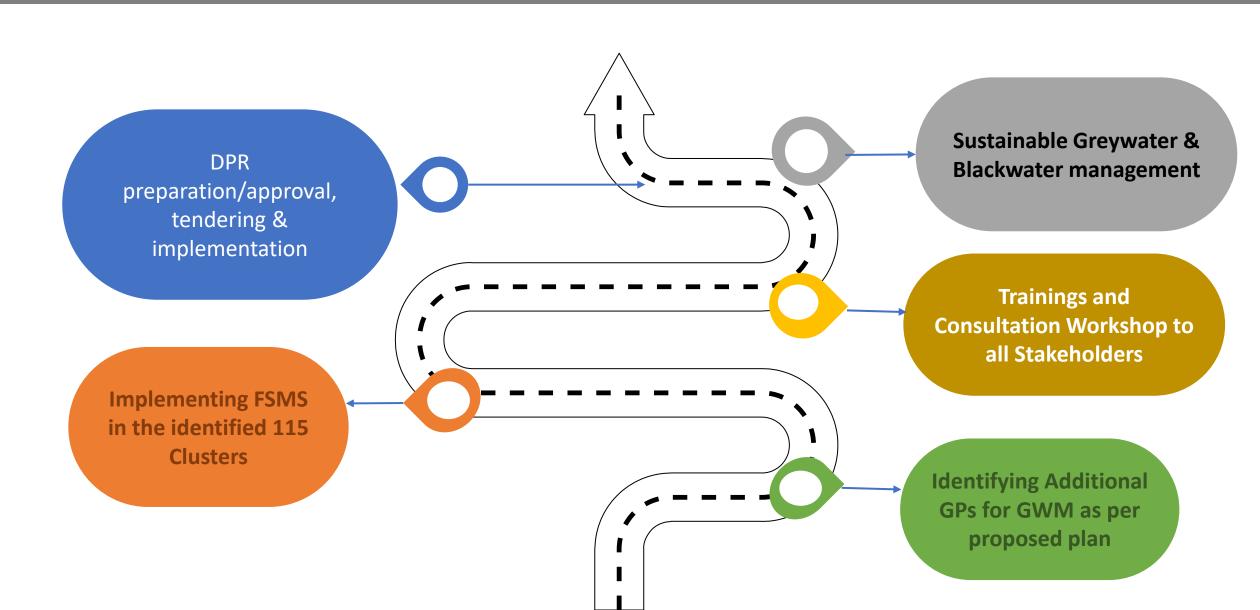
PROPOSED PLAN FOR GREYWATER MANAGEMENT

Si No	District	Total No of Talukas	Total Number of Gram Panchayat	Total Number of Villages	Quarter-1 No of Gram Panchayat Targeted	Quarter-1 No of Villages Targeted	Quarter-2 No of Gram Panchayat Targeted	Quarter-2 No of Villages Targeted	Quarter-3 No of Gram Panchayat Targeted	Quarter-3 No of Villages Targeted
1	Bengaluru Urban	5	87	648	26	194	35	259	26	194
2	Ramanagara	4	127	762	38	229	51	305	38	229
3	Shivamoga	7	269	1485	81	446	108	594	81	446
4	Kolar	6	156	1285	47	386	62	514	47	386
5	Chickmagaluru	8	226	1117	68	335	90	447	68	335
6	Kodagu	3	104	302	31	91	42	121	31	91
7	Dakshina Kannada	7	223	354	67	106	89	142	67	106
8	Udupi	7	155	247	47	74	62	99	47	74
9	Gadag	7	122	316	37	95	49	126	37	95
	Total	54	1469	6516	441	1955	588	2606	441	1955
10	Bengaluru Rural	4	102	955	15	143	20	191	15	143
11	Chikkaballapura	6	157	1327	24	199	31	265	24	199
12	Davangere	6	195	740	29	111	39	148	29	111
13	Hassan	8	267	2451	40	368	53	490	40	368
14	Mandya	7	233	1455	35	218	47	291	35	218
15	Mysuru	8	266	1250	40	188	53	250	40	188
16	Dharwad	7	144	348	22	52	29	70	22	52
17	Haveri	8	223	716	33	107	45	143	33	107
	Total	54	1587	9242	238	1386	317	1848	238	1386
18	Chithradurga	6	189	1369	28	205	38	274	28	205
19	Tumakuru	10	330	2554	50	383	66	511	50	383
20	Chamarajanagar	5	130	507	20	76	26	101	20	76
21	Bagalakote	9	197	658	30	99	39	132	30	99
22	Belagavi	14	506	1295	76	194	101	259	76	194
23	Uttara kannada	12	231	1285	35	193	46	257	35	193
24	Vijayapura	12	212	695	32	104	42	139	32	104
25	Ballari	11	237	613	36	92	47	123	36	92
26	Bidar	8	185	631	28	95	37	126	28	95
27	Kalaburagi	11	262	913	39	137	52	183	39	137
28	Koppala	7	153	591	23	89	31	118	23	89
29	Raichur	7	179	793	27	119	36	159	27	119
30	Yadgir	6	122	467	18	70	24	93	18	70
	Intermediate Total	118	2933	12371	440	1856	587	2474	440	1856
	Total Grand	226	5989	28129	1119	5197	1492	6929	1119	5197

CHALLENGES ENCOUNTERED

- Capacity building of Engineers at ground level
- Capacity building of all the Stakeholders involved before implementation of Grey & Blackwater management
- Land identification, ownership & possession
- Fast tracking payments for initial Topography & soil test
- Monsoon- This is major setback as it will be difficult to quantify Greywater in drains
- Local issues regarding awareness

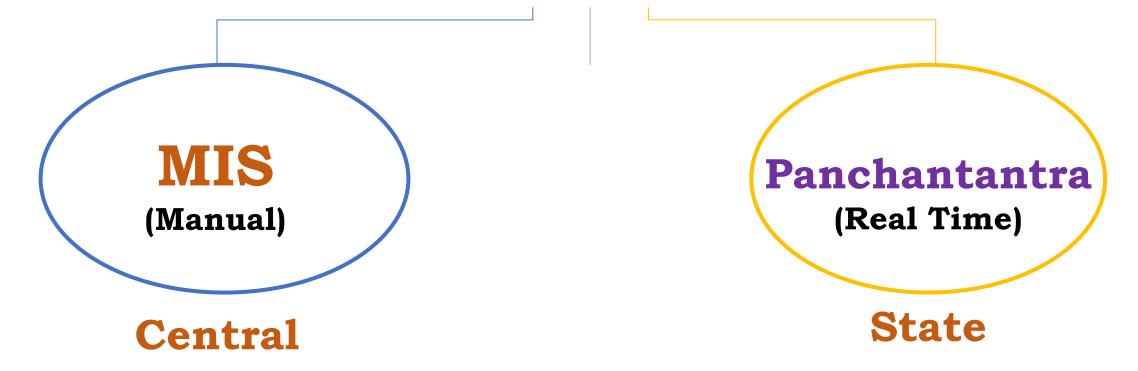
WAY FORWARD





MANAGEMENT INFORMATION SYSTEM (MIS)

Support Application



MONITORING OF DIFERENT COMPONENTS OF SBM-G ON MIS

*Progress of construction of Individual House Hold Latrine(IHHL).

- **▶ PM-12** for entry of New IHHL(Phase-II).
- > PM-14 for entry of physical and financial progress of New IHHL(Phase-II).

❖Progress of Community Sanitary Complexes(CSCs).

- > SBM 2.0 Mobile app- entry of physical progress of CSC
- **C-10-** entry of financial progress of CSC

❖Progress of Solid & Liquid Waste Management.

> SBM 2.0 Mobile app- entry of physical and financial progress of SWM and LWM.

Entry the expenditure of IEC, HRD activities and Administration expenditure.

- ➤ **D-04: modules** of IEC,HRD activities and Administration expenditure.
- ***Updating the existing modules of progress entry** as and when there is a need for improvement as per requests from districts

CONTINUED...

- **❖Analysis and fix the issues** related to SBM(G) components as addressed by GP level about application.
- **Analysis of weekly progress reports**, with qualitative interpretation of trends, bottlenecks, and issues requiring corrective attention.

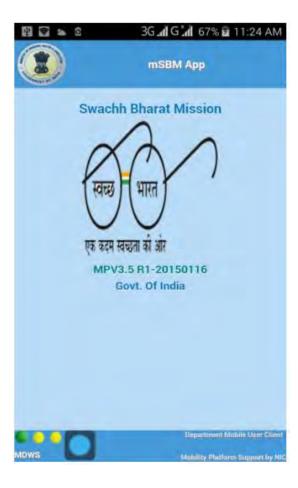
*Analysis and prepare the progress report for review meetings, VC, seminars, workshops of the SBM (G) program.

MIS V/S PANCHATANTRA

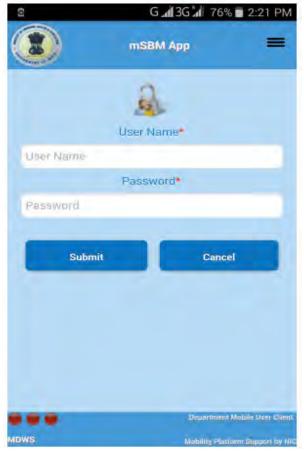
MIS	Panchatantra		
•Developed by Central NIC team	•Developed by State NIC team		
•User Login and dashboard URL: https://sbm.gov.in/SBMphase2/Secure/Login.aspx	 •User Login URL: https://panchatantra.kar.nic.in •To view progress report URL: http://panchatantra.kar.nic.in/stat/ 		
•Different login at different level(Upto Taluk level)	•Different login at different level(Upto GP level)		
•Not real-time updation (Manual entry)	•Real-time updation.(No manual intervention)		
•Entry and approve the progress of different components of SBM(G) in Taluk/District /State level manually.	•Construction progress and payment for IHI in GP level.		
 Geo-tag will be done through mobile app only. Msbm app -> IHHL progress ODF Plus app -> CSC, SWM and LWM progress 	•Option to enter geo co-ordinating manually. •Nirmal Bharat Abhiyan -> IHHL progress		

MSBM MOBILE APP(GEO-TAG)

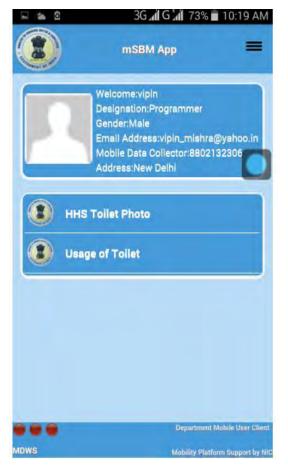
1. Splash screen



2.User login screen



3. Home screen



4.Photo upload

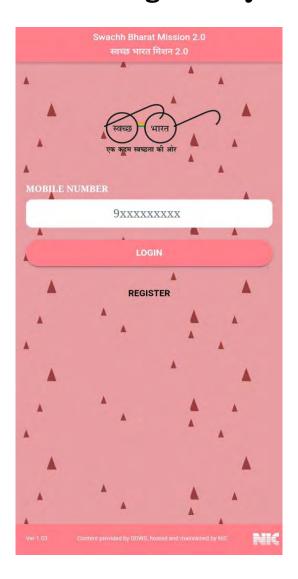


ODF PLUS MOBILE APP (SBM 2.0 APP)

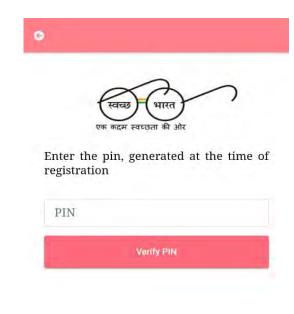
1. Splash screen



2. User login entry



3. OTP entry



4. Home screen





Thank you







ಐ.ಇ.ಸಿ ಮತ್ತು ತರಬೇತಿ ಚಟುವಟಿಕೆಗಳು

ಜಲ ಜೀವನ್ ಮಿಷನ್–ಸ್ವಚ್ಛ ಭಾರತ್ ಮಿಷನ್ (ಗ್ರಾ)







ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ನೈರ್ಮಲ್ಯ ಇಲಾಖೆ ಕರ್ನಾಟಕ ಸರ್ಕಾರ



ನಾವು ಯಾವುದಕ್ಕಾಗಿ ಶ್ರಮಿಸುತ್ತಿದ್ದೇವೆ?



Water and Sanitation Go Hand in Hand



ಅನುದಾನ ಹಂಚಿಕೆ - IEC/HRD

ಯೋಜನೆ	ಅನುದಾನ ಹಂಚಿಕೆ
ಜಲ ಜೀವನ್ ಮಿಷನ್ (ಅನುಷ್ಠಾನ ಬೆಂಬಲ ಚಟುವಟಿಕೆಗಳು)	ಶೇ.5%
ಸ್ವಚ್ಚ ಭಾರತ್ ಮಿಷನ್ (ಗ್ರಾ) ಹಂತ-2 (ಐ.ಇ.ಸಿ/ತರಬೇತಿ ಚಟುವಟಿಕೆಗಳು)	ಶೇ.3%

JJM- ಐ.ಇ.ಸಿ ಚಟುವಟಿಕೆಗಳು

ಅಂತರ್ಜಲ ಮನಶ್ಚೇತನ ಕುರಿತು ವಿಶೇಷ ಆಂದೋಲನ 1,771 ಬೀದಿ ನಾಟಕ

709

ಕಾರ್ಯಾಗಾರ

87

ಜಾಗೃತಿ ಕಾರ್ಯಕ್ರಮಗಳು ಹಾಗೂ ಕಿರುಚಿತ್ರ ಪ್ರದರ್ಶನ 2,847

ಕಿರು ನೀರು/ಜಲ ಮೂಲಗಳ ಮನಶ್ಚೇತನ 11

ಚರ್ಚಾ ಸ್ಪರ್ಧೆ/ ಪ್ರಬಂಧ ಸ್ಪರ್ಧೆ/ ಚಿತ್ರಕಲೆ 3,666 ಶೈಕ್ಷಣಿಕ ಅಧ್ಯಯನ ಪ್ರವಾಸ ಕಾರ್ಯಕ್ರಮ 2

ಸ್ವ-ಸಹಾಯ ಸಂಘ ಹಾಗೂ ಶಾಲಾ ಮಕ್ಕಳ ರ್ಯಾಲಿ/ಜಾಥಾ ಕಾರ್ಯಕ್ರಮ 2,965

ಐ.ಇ.ಸಿ ಕಾರ್ಯಕ್ರಮ

> ಬೀದಿ ನಾಟಕ



> ಕಾರ್ಯಾಗಾರ



ಐ.ಇ.ಸಿ ಕಾರ್ಯಕ್ರಮ

ಸ್ವ-ಸಹಾಯ ಸಂಘ ಹಾಗೂ
 ಶಾಲಾ ಮಕ್ಕಳ ರ್ಯಾಲಿ /
 ಜಾಥಾ ಕಾರ್ಯಕ್ರಮ



> ಚರ್ಚಾ/ ಪ್ರಬಂಧ/ ಚಿತ್ರಕಲೆ ಸ್ಪರ್ಧೆ



ಐ.ಇ.ಸಿ ಕಾರ್ಯಕ್ರಮ

ಜಾಗೃತಿ ಹಾಗೂ ಕಿರುಚಿತ್ರಪ್ರದರ್ಶನ ಕಾರ್ಯಕ್ರಮಗಳು



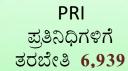
> ಅಂತರ್ಜಲ ಮನಶ್ಚೇತನ ವಿಶೇಷ ಆಂದೋಲನ



JJM-ತರಬೇತಿ ಚಟುವಟಿಕೆಗಳು

ವಿಶೇಷ ಗ್ರಾಮ ಸಭೆಗಳು 2,894

ಗ್ರಾಮ ಮಟ್ಟದ ಅನುಷ್ಠಾನ ಕ್ರಿಯಾ ಯೋಜನೆ ತಯಾರಿ & ಇಂಧೀಕರಣ 18,941



ಕ್ಷೇತ್ರ ಮಟ್ಟದ ಕಾರ್ಯಕ್ರಮ ಅನುಷ್ಠಾನ ಅಧಿಕಾರಿಗಳು/ ಭಾಗೀದಾರರಿಗೆ ತರಬೇತಿ 12,583



ಗ್ರಾಮ ನೀರು ಮತ್ತು ನೈರ್ಮಲ್ಯ ಸಮಿತಿ ಸದಸ್ಯರಿಗೆ ರಚನೆ & ತರಬೇತಿ

23,173 & 17,320

ತರಬೇತಿಗಳು

✓ ಗ್ರಾಮ ಕ್ರಿಯಾ ಯೋಜನೆ



✓ ವಿಶೇಷ ಗ್ರಾಮ ಸಭೆಗಳು



• ಕ್ಷೇತ್ರ ಮಟ್ಟದ ಕಾರ್ಯಕ್ರಮ ಅನುಷ್ಠಾನ ಅಧಿಕಾರಿಗಳು/ ಭಾಗೀದಾರರಿಗೆ ತರಬೇತಿ



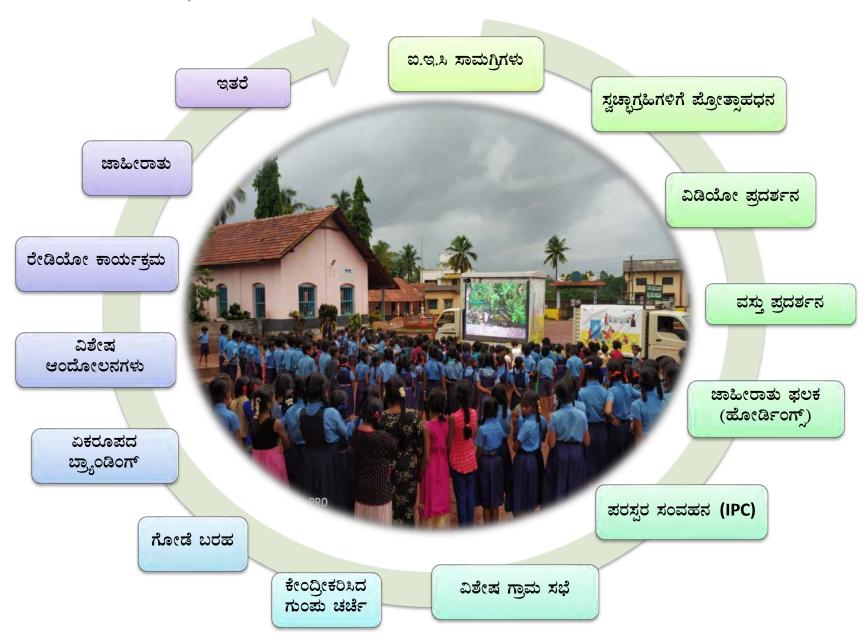
• VWSC ಸದಸ್ಯರಿಗೆ ತರಬೇತಿ



ಕಲ್ಯಾಣಿ ಮನಶ್ಚೇತನ



SBMG-ಐ.ಇ.ಸಿ ಚಟುವಟಿಕೆಗಳು



2020-21 ನೇ ಸಾಲಿನ ಪ್ರಗತಿ ನೋಟ

ಗೋಡೆ ಬರಹ 5,593

ಬೀದಿ ನಾಟಕಗಳು 88

ಮೇಳಗಳ ಆಯೋಜನೆ 06

➤ ಹೋರ್ಡಿಂಗ್ ಗಳು ಮತ್ತು ಬ್ಯಾನರ್ ಗಳು

9,357

ಗುಂಪು ಸಭೆಗಳು5,185

> PRA **1,159**

ವಸ್ತು ಪ್ರದರ್ಶನ 28

🕨 ಹಾಡು ಮತ್ತು ನಾಟಕ

86

> ರೇಡಿಯೇ ಸ್ಪಾಟ್

80

ಆಡಿಯೋ ದೃಶ್ಯ ಪ್ರಚಾರ

7,870

🕨 ಜಾಗೃತಿ ಮತ್ತು ಉದ್ಘಾಟನಾ ಕಾರ್ಯಾಗಾರ

1,026

> IPC

1,26,872

🕨 ಐ.ಇ.ಸಿ ವಸ್ತುಗಳ ವಿತರಣೆ

1,57,267

🕨 ಸ್ವಚ್ಛತಾ ರಥ

74

ಐ.ಇ.೩/ತರಬೇತಿಗಳ ಅನುಷ್ಠಾನ ಪ್ರಮುಖ ಪಾಲುದಾರರು



ಬ್ರ್ಯಾಂಡಿಂಗ್

ತ್ಯಾಜ್ಯ ನಿರ್ವಹಣೆ



ನೀರು ಸರಬರಾಜು









ಜಲೋತ್ಸವ ಬ್ರ್ಯಾಂಡಿಂಗ್





ಗೊಡೆ ಬರಹ

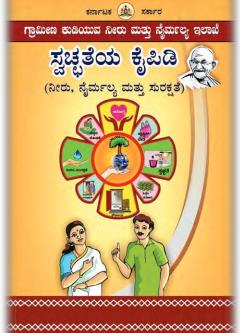




ಮಸ್ತಕಗಳ ಮುದ್ರಣ/ಹಂಚಿಕೆ

- > ನೈರ್ಮಲ್ಯ ನೀತಿ ಕಾರ್ಯತಂತ್ರ, ಮತ್ತು ಉಪವಿಧಿ.
- > JJM ಕಾರ್ಯಕಾರಿ ಮಾರ್ಗಸೂಚಿ
- > JJM ಮಾರ್ಗದರ್ಶಿಕ
- > ಸ್ವಚ್ಛ ಸಂಕೀರ್ಣ ಕಿರುಮಸ್ತಕ
- > ನೈರ್ಮಲ್ಯ ಕೈಪಿಡಿ



















ನಿಮ್ಮ ಗ್ರಾಮದ ನೀರು ಮತ್ತು ನೈರ್ಮಲ್ಯ ಕುರಿತ ಸಮಸ್ಯೆಗಳಿಗೆ ಪರಿಹಾರ ಸಹಾಯವಾಣಿಗೆ ಕರೆ ಮಾಡಿ

94809 85555

ನೀರು

- ಶುದ್ಧ ಕುಡಿಯುವ ನೀರಿನ ಘಟಕದ ಸಮಸ್ಯೆ
- ಅಶುದ್ಧ ನೀರಿನ ಸಮಸ್ಯೆ
- ನೀರು ಸರಬರಾಜು ವ್ಯವಸ್ಥೆ
- ಶಾಲೆ/ಅಂಗನವಾಡಿಗಳಲ್ಲಿ ನಳ ಸಂಪರ್ಕ

ಸ್ವಚ್ಛತೆ

- ಕೊಳಕು ನೀರು ನಿಂತಿರುವುದು/ಚರಂಡಿ ಸಮಸ್ಯೆ
- ಕಸ ನಿರ್ವಹಣೆ ಸಮಸ್ಯೆ
- ಸಾರ್ವಜನಿಕ/ಸಮುದಾಯ ಶೌಚಾಲಯದ ನಿರ್ಮಾಣ-ನಿರ್ವಹಣೆ
- ವೆಯಕಿಕ ಶೌಚಾಲಯದ ನಿರ್ಮಾಣ



ಪರಿಹಾರ ಸ್ಟಿಕ್ಚರ್



ಕ್ಯಾಲೆಂಡರ್-2021

ಜನ ಜಾಗೃತಿಗೆ-ವಿಶೇಷ ಆಂದೋಲನಗಳು

- ✓ ಋತುಚಕ್ಕ ನಿರ್ವಹಣೆ ಆಂದೋಲನ
- ✓ ಸ್ವಚ್ಛ ಗ್ರಾಮ ಸ್ವಚ್ಛ ಪರಿಸರ ಆಂದೋಲನ
- √ ಸಮುದಾಯ ಶೌಚಾಲಯ ಅಭಿಯಾನ
- √ ಸಾಮಾಜಿಕ ಮಾಧ್ಯಮ ವಿಶೇಷ ಆಂದೋಲನ
- ✓ ನೀರು ಮತ್ತು ನೈರ್ಮಲ್ಯ ಆಂದೋಲನ
- ✓ ಗಂದಗಿ ಮುಕ್ತ ಭಾರತ್ ಆಂದೋಲನ
- √ ಸ್ವಚ್ಛೋತ್ಸವ ನಿತ್ಯೋತ್ಸವ ಆಂದೋಲನ
- ✓ 100 ದಿನಗಳ ವಿಶೇಷ ಆಂದೋಲನ
- ✓ ನಮ್ಮ ನಡೆಗೆ ತ್ಯಾಜ್ಯ ಮುಕ್ತ ಕಡೆಗೆ
- ✓ ಸಮುದಾಯ ವಂತಿಕೆ ಸಂಗ್ರಹ ಆಂದೋಲನ







AIR ರೇಡಿಯೋ ಕಾರ್ಯಕ್ರಮಗಳು



ಸಮುದಾಯ ರೇಡಿಯೋ ಕಾರ್ಯಕ್ರಮಗಳು



















ಜಾಗದಲ್ಲ ಕೆರೆ

ಹಾಗೂ ಮರುಪ್ರಸಾರದಲ್ಲ ಸಂಜೆ 5.30 ಲಂದ ನಿರ್ಮಿಸಿ ಮಾದಲಿಯಾದ 6 ಗಂಚೆಯವರೆಗೆ ದಕ್ಷಿಣ ಕನ್ನಡ ಜಲ್ಲೆಯ ಮಾಧವ ಭಟ್ ಹಾಗೂ ನೈರ್ಮಲ್ಯ ಇಲಾಖೆ ಕರ್ನಾಟಕ ಸರ್ಕಾರ ಪ್ರಾಯೋಜಿತ ಸರಣಿ ಕಾರ್ಯಕ್ರಮ







ಡಿಡಿ ಚಂದನ ಕಾರ್ಯಕ್ರಮಗಳು



ನೇರ ಘೋನ್-ಇನ್ ಕಾರ್ಯಕ್ರಮ 4



Time Check
(Mute Caption)
(4 Months)



ಯಶೋಗಾಥೆಗಳ ಪ್ರಸಾರ

ಪ್ರತಿಕಾ ಜಾಹೀರಾತು









ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ನೈರ್ಮಲ್ಯ ಇಲಾಖೆ ಗ್ರಾಮೀಣಾಥವೃದ್ಧಿ ಮತ್ತು ಪಂಡಾಯತ್ ರಾಹ್ ಇಲಾಖೆ



ನನ್ನ ಗ್ರಾಮ 🙀

ಗ್ರಾಮೀಣ ಕರ್ನಾಟಕದ ಜನರ ಸುಸ್ತಿರ ನೈರ್ಮಲ್ಯ ಅಭ್ಯಾಸಗಳನ್ನು ಉತ್ತಮ ಪಡಿಸುವ ನಿಟ್ಟಿನಲ್ಲಿ, ದೇಶದಲ್ಲಿಯೇ ಮೊದಲ ಬಾರಿಗೆ "ಕರ್ನಾಟಕ ರಾಜ್ಯ ಗ್ರಾಮೀಣ ನೈರ್ಮಲ್ಯ ನೀತಿ, ಕಾರ್ಯತಂತ್ರ ಮತ್ತು ಮಾದರಿ ಉಪವಿದಿಗಳು" ಜಾರಿಗೆ ತಂದು ಅನುಷ್ಠಾನಗೊಳಿಸಲಾಗುತ್ತಿದೆ.



"ನರ್ನಾಡ ರಾಜ್ಯ ಗ್ರಹಾಣ ವೈಮೇಗ್ನ ಕಾಂ. ಶಾರ್ಯನಂತ್ರ ಮತ್ತು ಮಾರಂ ಉಪಕಾರಗಮ" ಪ್ರಂಯಮ್ಮ ರೌದ್ ರೋಡ್ ಮಾಡಲು ಡಿಸಿ ರೋಡ್ ಸ್ಟಾಪ್ ಮಾತ wides de districti avectored dissense

www.english.swachhamevajayate.org/documents/













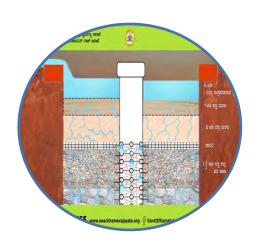
ಶ್ರೀ ಜ. ಎಸ್. ಯಡಿಯೂರಪ್ಪ ಸಣ್ಯಸ್ಥ ಮುಖ್ಯಮಂತ್ರಗಳು, ಕರ್ಣಬಕ ಸರ್ಕಾರ

- 1883 ಗ್ರಾಮ ಪಂಚಾಯಿತಿಗಳಲ್ಲಿ ಘನ ತ್ಯಾಜ್ಯ ನಿರ್ವಹಣಾ ಘಟಕಗಳ ಕಾರ್ಯಾಚರಣೆ 2022 ರ ವೇಳೆಗೆ 6000 ಗ್ರಾಮ ಪಂಚಾಯತಿಗಳಿಗೆ ಘಟಕದ ಗುರಿ
- 4768 **ಗ್ರಾಮ ಪಂಚಾಯಿತಿಗಳಲ್ಲಿ** ದ್ರವ ತ್ಯಾಜ್ಯ ನಿರ್ವಹಣೆ ಮಾಡಲು ಅನುಮೋದನೆ
- 4 ಜಿಲ್ಲೆಗಳಲ್ಲಿ ಮೆಟೀರಿಯಲ್ ರಿಕವರಿ ಫೆಸಿಲಿಟಿ ಕಾಮಗಾರಿ ಅನುಷ್ಠಾನಕ್ಕೆ ಚಾಲನೆ
- **60 ಗೋಬರ್ಧನ್ ಘಟಕಗಳ** ಸ್ಥಾಪನೆಗೆ ಕ್ರಮ
- 17 ಮಲ ತ್ಯಾಜ್ಯ ನಿರ್ವಹಣಾ ಘಟಕಗಳ ನಿರ್ಮಾಣಕ್ಕೆ ಚಾಲನೆ 100 ಘಟಕಗಳ ನಿರ್ಮಾಣದ ಗುರಿ



ಮಾನ್ಯ ಗ್ರಾಮೀಠಾಕವೃದ್ಧಿ ಮನ್ನು ಪಂಶಾಯನ್ ರಾಜ್ ಇರಾಖೆಯ ಸಹವರಾದ **ಹಿ ಜೆ. ಎಸ್. ಕಣ್ಣನಕ್ಕೆಸಿಕರು,** ಸ್ಟಕ್ಷ ವಾಹಿಸಗಳಿಗೆ ಜಾಲಕೆ ಸಾಮತ್ತರುವುದು

ಕಿರುಚಿತ್ರ ನಿರ್ಮಾಣ-ಎಂಪ್ಯಾನಲ್ ಸಂಸ್ಥೆಗಳು



ಮೆ॥ ನೈರುತ್ಯ ಆರ್ಟ್ ಮೀಡಿಯಾ

• 10 ಕಿರುಚಿತ್ರಗಳ ನಿರ್ಮಾಣ



ಮೆ॥ ಸುಧೀ ನೆಟ್ ವರ್ಕ್ಸ್ ಪ್ರೈ. ಲಿಮಿಟೆಡ್

• 9 ಕಿರುಚಿತ್ರಗಳ ನಿರ್ಮಾಣ



ಮೆ॥ ಸ್ಪ್ರೆಡ್ ಡಿಸೈನ್ ಪ್ರೈ.ಲಿ

• 8 ಕಿರುಚಿತ್ರಗಳ ನಿರ್ಮಾಣ

ಸ್ವತಂತ್ರ ಕಿರುಚಿತ್ರ ತಯಾರಕರು.



ಶ್ರೀ ವೀರಪ್ಪ ಮರಳವಾಡಿ 1 ಕಿರುಚಿತ್ರ ನಿರ್ಮಾಣ



ಶ್ರೀ ಕೆ.ಸಿ. ರವಿಕುಮಾರ್ 1 ಕಿರುಚಿತ್ರ ನಿರ್ಮಾಣ



ಶ್ರೀ ಅಭಯ ಸಿಂಹ 1 ಕಿರುಚಿತ್ರ ನಿರ್ಮಾಣ

ಇತರೆ ಐ.ಇ.ಸಿ,

✓ 1500 ಬಸ್ ಬ್ರ್ಯಾಂಡಿಂಗ್

✓ 154 ಬಸ್ ನಿಲ್ದಾಣಗಳಲ್ಲಿ ಶ್ರವ್ಯ ಜಿಂಗಲ್ಸ್ ಗಳ ಪ್ರಚಾರ

✓ ಆಟೋ ಮೂಲಕ ಪ್ರಚಾರ





ಇತರೆ ಐ.ಇ.ಸಿ.

- ಗ್ರಾಮಗಳಲ್ಲಿ ಸ್ವಚ್ಛತೆ
 ಕಾಪಾಡುವ ನಿಟ್ಟಿನಲ್ಲಿ
 ಸ್ವಚ್ಛ ಶುಕ್ರವಾರ-ಸ್ವಚ್ಛ
 ಶನಿವಾರ ದಿನ ಆಚರಣೆ
- ➤ ಈ ದಿನಗಳಂದು ಕಸ ಸಂಗ್ರಹಣೆ, ಗ್ರಾಮದ ಸ್ವಚ್ಛತೆ, ಶ್ರಮದಾನ, ಸಸಿ ನೆಡುವ ಕಾರ್ಯಾಕ್ರಮ ಆಯೋಜನೆ.





ಗ್ರಾಮಗಳಲ್ಲಿ ಸಾಂಕ್ರಾಮಿಕ ರೋಗ ತಡೆಗೆ ಕ್ರಮ

- ➤ ಕೋವಿಡ್-19 ಸಾಂಕ್ರಾಮಿಕ ರೋಗ ತಡೆಯಲು ಗ್ರಾಮ ಪಂಚಾಯಿತಿಗಳಲ್ಲಿ ಟಾಸ್ಕ್ ಪೋರ್ಸ್ ರಚಿಸಿ ಜಾಗೃತಿ ಮೂಡಿಸಲು ಕ್ರಮ.
- > ಮಾಸ್ಕ್, ಸ್ಯಾನಿಟೈಸರ್ ಬಳಕೆ ಮಾಡುವುದು, ಸಾಮಾಜಿಕ ಅಂತರ ಕಾಯ್ದುಕೊಳ್ಳಲು ಅರಿವು
- > ಆಶಾ ಅಂಗನವಾಡಿ ಕಾರ್ಯಕರ್ತೆಯರು, ಆರೋಗ್ಯ ಸಹಾಯಕರ ಮೂಲಕ ಜಾಗೃತಿ
- ≻ ಗೋಡೆ ಬರಹಗಳ ಮೂಲಕ ಜಾಗೃತಿ
- > ಸಾಮಾಜಿಕ ಮಾಧ್ಯಮಗಳ ಮೂಲಕ ಅರಿವು







FHTCs





ವಿಶೇಷ ಗ್ರಾಮ ಸಭೆಗಳ ಆಯೋಜನೆ















ಮಾನವ ಸಂಪನ್ಮೂಲ ಅಭಿವೃದ್ಧಿ ಚಟುವಟಿಕೆಗಳು

42 8/9/2021

District consultant recruitment under SBM-G & JJM

SBM-G

JJM

SI No	Designation	No of Post	Working at Present	Balance to be filled
1	HRD	31	31	0
2	IEC	31	31	0
3	SH	31	28	3
4	SLWM	31	28	3
5	MIS/M&E	31	30	1
Tota		155	148	07

SI No	Design ation	No of Post	Working at Present	Balanc e to be filled
1	DPM	31	29	02
2	MIS	32	30	02
Total		63	59	04

43

Training / Workshops

SI	Training / Workshop	Participants	Online / Classroom	Date
1	Development of technical manual on retrofitting			
2	3-day workshop on development of SBCC/IEC tools and methods for sustaining ODF status including retrofitting and pit conversion	District Consultant s	Classroom	Feb-2020
3	2 nd Batch Training of Trainers (ToT) on "Sujal and Swachha Gaon" for Field Trainers (Master Trainers)	District Consultant s	Classroom	Feb-2020
4	Capacity Building Programme on ODF S & Plus activities for newly recruited consultants	District Consultant s	Classroom	June-2020
5	Training programme on ODF-S, ODF Plus & SLWM	District Consultant s	Classroom	July-2020

8/9/2021

Training / Workshops

SI	Training / Workshop	Participants	Online / Classroom	Date
6	Capacity Building Programme on JJM activities for newly recruited DPMs MIS and ISA team leaders and	DPM, MIS & ISA Team Leaders	Classroom	Dec-2020 & Jan-2021
7	Orientation programme on LWM for State SLWM Consultants	State SLWM Consultants	Classroom	Dec-2020
8	Orientation programme on JJM & SBM G for CEOs/Nodal Officers & EEs	for CEOs/Noda I Officers & EEs	Classroom	Jan-2021
9	Orientation programme on JJM & SBM G for EOs	205 EOs	Classroom	Feb-2021 3 batches
10	Orientation programme on SLWM for State SLWM Consultants	District SLWM Consultants	Classroom	March- 2021

45

Training / Workshops

SI	Training / Workshop	Participants	Online / Classroom	Date
11	Capacity Building Programme on JJM MIS for newly recruited MIS consultants	District Consultant s	Classroom	Jan-2021
12	Capacity Building Programme of implementation of JJM for newly recruited ISA team members	30 Districts ISA Team Members	Classroom	Mar-2021
13	TOT for LWM at State level	66 State and District Level SLWM Consultant s	Classroom	July-2021

8/9/2021









Social Media Activities









Modus Operandi

What We Do?

- Educate rural audience
- Promote department's work and its schemes.

How We Do?

- Monthly 80+ posts on Social Media Channels
- Facebook, YouTube, Twitter,
 Instagram, SlideShare,
 Whatsapp, Telegram, Website
- Creation of video, image, newsletter, blog
- Content based on monthly theme.

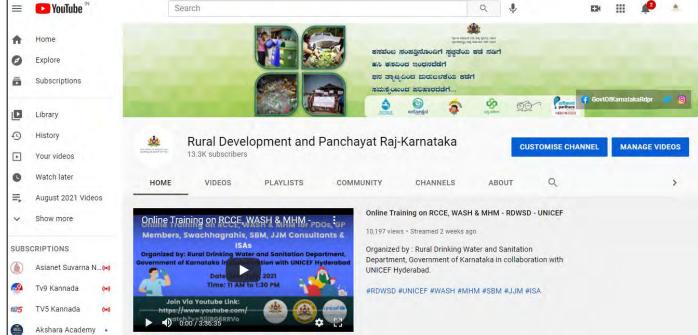
Followers

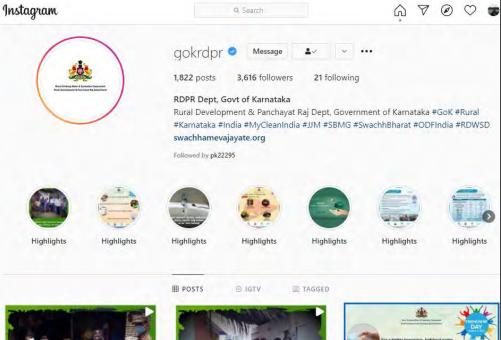
- **86,000**+ Page Likes
- 9,000+ Followers
- **3600**+ Followers
- 13,400+ Subscribers



FACEBOOK

YOUTUBE



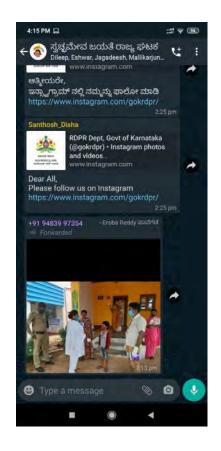


TWITTER

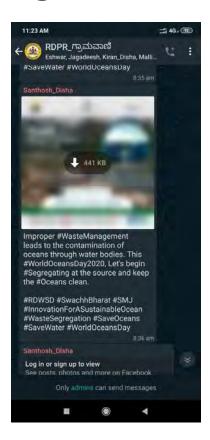
INSTAGRAM



WhatsApp & Telegram Groups









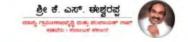
- 31 Broadcast lists and various Whatsapp/Telegram groups have been created
- It comprising of all CEOs, EOs, Nodal Officers, PDOs, State Office Staff, Consultants & WSSO empanelled partners NGOs, Audio-Visual, CRS.

Website of RDWSD

(www.swachhmevajayate.org)







ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ನೈರ್ಮಲ್ಯ ಇಲಾಖೆ





ಕೈ(ತ್ರಗಳು

ಐ.ಎಸ್.ಎ

ವಿಡಿಯೊಗಳು

ಸಂಪನ್ಮೂಲಗಳು

ENGLISH



ಗ್ರಾ.ಕು.ನೀ.ನೈ ಇಲಾಖೆಯಲ್ಲಿ ಸಮಾಲೋಚಕರನ್ನು ನೇಮಿಸಿಕೊಳ್ಳಲು ಅರ್ಜಿ ಕರೆಯಲಾಗಿದೆ. ಹೆಚ್ಚಿನ ಮಾಹಿತಿಗಾಗಿ ಇಲ್ಲಿ ಕ್ಲಿಕ್ ಮಾಡಿ.







Posts









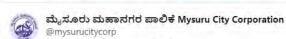


Official Twitter handle of MGNREGS Karnataka.



Following

Official account of the Bengaluru city police. Stay safe, Download our app. Android: tinyurl.com/SurakshaAndroid iOS: tinyurl.com/SurakshaiOS



Follow



Official Twitter of Mysuru City Corporation

Follow

Official Twitter Account Of Transport Department, Government Of Karnataka



Official twitter account of Sadashivanagar Traffic Police Station (080-22942804). Dial Namma-100 in case of emergency. @blrcitytraffic



Following @KarnatakaCTD Follows you

Official Twitter Account of Commercial Taxes Department, Government of Karnataka. We intend to disseminate updates and information on GST through this account.



Follow

Official Twitter account of State Emergency Operation Centre, Revenue Department (Disaster Management), Govt. of Karnataka. Re-tweets ≠ endorsement



Following

Official account for the State Road Safety Authority, Transport Department, Government of Karnataka



ಕಾರ್ಮಿಕ ಇಲಾಖೆಗೆ ಸಂಬಂಧಿಸಿದ ವಿಷಯ ಮತ್ತು ಸಮಸ್ಯೆಗಳಿಗೆ 24x7 ಕಾರ್ಮಿಕ-ಸಹಾಯ. 24x7 Karmika-Sahaya for all issues connected to Labour Department WhatsApp No. - 9333333684



Cluster Facilitation Project Karnataka

@cfpkarnataka

CLUSTER FACILITATION PROJECT (CFP) Karnataka Rural Development and Panchayat Raj MGNREGA Karnataka State



K'taka Health Dept

Follow @DHFWKA Official account for the Department of Health and Family Welfare Services -Govt. of Karnataka

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PIB in Karnataka

@PIBBengaluru

Official Twitter account of Press Information Bureau, Govt of India, Bengaluru, Karnataka.



Dept of Women and Child Development, Karnataka

Following @ministrydwcd Follows you

Official Account of the Ministry of Women and Child Development, Government of Karnataka.



Dept. of Fisheries, Karnataka

@dof_kar Follows you

ಮೀನುಗಾರಿಕೆ ಇಲಾಖೆ, ಕರ್ನಾಟಕ ಸರ್ಕಾರದ ಅದಿಕೃತ ಖಾತೆ. Official Twitter account of the Department of Fisheries, Government of Karnataka, India



Commissioner Panchayat Raj

@CommrPR

Working with the three tiers of the rural local self government



24 hrs Cremation/Burial helpline (Covid) BBMP

@BLRiastrites Follows you

The official 24x7 helpline (8495998495) of the BBMP for all help regarding the final rites for the deceased due to Covid-19. Operated by the Task Force.



Seva Sindhu

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Digital initiative of Government of Karnataka to provide citizens an accessible, cost-effective, accountable and transparent governance | 796 online services





Official account of Swachh Bharat Mission (SBM) Grameen #MyCleanIndia #ODFPlus Subscribe to our YouTube channel: tinyurl.com/sbmgrameen



Jal Jeevan Mission

@jaljeevan_



The official account of the Jal Jeevan Mission, Department of Drinking Water and Sanitation, Ministry of Jal Shakti. #HarGharJal by 2024.



Ministry of Panchayati Raj, Government of India

@mopr goi



Official Twitter Account of Ministry of Panchayati Raj, Government of India पंचायती राज मंत्रालय, भारत सरकार | | panchayat.gov.in |



Ministry of SJ&E

@MSJEGOI

This is official twitter handle of Ministry of Social Justice & Empowerment

TNRTP enhances rural economy by creating sustainable income through rural enterprise promotion, access to finance and creation of employment



Public Health Engineering Department, Haryana



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Official handle of "Tripura Frontier, Border Security Force", India's First Line of Defence. Safeguarding the India-Bangladesh Borders.



Lohiya Swachh Bihar Abhiyan

@LSBA Bihar



Official Twitter handle of Lohiya Swachh Bihar Abhiyan, Rural Development Department, Govt. of Bihar | #SwachhBharatMission(G)Bihar | #SBMGBihar | #SwachhBihar |



Rural Development Department, Gujarat

Tamil Nadu Rural Transformation Project

@rddgujarat Follows you



Department oversees implementation of MGNREGA, Swach Bharat Mission, PMAY, NRLM and other schemes in rural Gujarat.



Department of Water Supply & Sanitation

Follow

@DWSSPunjabIND

Ensuring clean drinking water supply and sanitation in the villages. Shikayat Nivaran Kendra, 24x7 toll free number - 1800-180-2468



suchitwa mission

@MissionSuchitwa Follows you

A waste free Kerala with new healthy citizenship believing in zero waste concept. Reduce, Reuse, Recycle and Recover at least 80% of the waste generated



सहा सचिव नियमितीकरण आन्दोलन म. प्र.

@ALLGRSMP

मेहनत करने वाले व देश की सेवा करने वाले होकर भी प्रताडित व शोषित है ग्राम रोजगार सहायक सचिव



K S Eshwarappa

@ikseshwarappa

Follow

Minister for Rural Development and Panchayat Raj in Government of Karnataka & MLA of Shivamogga assembly constituency from @BJP4Karnataka



ಎಲ್ ಕೆ ಅತೀಕ್ L K Atheeq

@lkatheeq

Principal Secretary Rural Development & Panchayat Raj | Formerly Prl. Secy to CM Karnataka | Sr Adviser, World Bank | Joint Secretary PMO. Tweets Personal.



Kourava B.C.Patil

@bcpatilkourava

Follow

ಕೃಷಿ ಸಚಿವರು | Minister for Agriculture, Govt of Karnataka | Ex-Cop(25years) | Actor | Producer | Member of Legislative Assembly, Hirekerur | ಕಾಯಕವೇ ಕೈಲಾಸ



Major Manivannan

@Captain_Mani72

Servant | Soldier | ಕನ್ನಡಿಗ



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@STSomashekarMLA

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ಸಹಕಾರ ಸಚಿವರು || Minister of Co-Operation, Govt of Karnataka || Mysore District Minister in-charge || Member of Legislative Assembly, Yeshwanthpur (Bangalore)



Jagadish Shettar 🐶

@JagadishShettar

Former Chief minister of Karnataka



M P Renukacharya 🣀

@MPRBJP

ಮಾಜಿ ಮುಖ್ಯಮಂತ್ರಿಗಳ ರಾಜಕೀಯ ಕಾಯ೯ದರ್ಶಿ, ಶಾಸಕರು - ಹೊನ್ನಾಳಿ ವಿಧಾನಸಭಾ ಕ್ಷೇತ್ರ Former Political Secretary to CM, MLA - Honnali Constituency | Office: @MPROffice



B.N. Bache Gowda

@BNBachegowda MP

Follow

Member of Parliament representing BJP from Chikkballapur Lok Sabha Constituency, Karnataka | 5-Term MLA of Hoskote Assembly Constituency.



Sowmya | ಸೌಮ್ಯ 🦁

@Sowmyareddyr

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ಕನ್ನಡತಿ | MLA - Jayanagara |Congress| GS- AIMC | will block trolls | Dont tag civic issues here,send DM or Call-080-26542424/92416 69999 or Meet MLA|RT not endo



Byrathi Basavaraja

@BABasavaraja

MLA K R Pura Assembly Constituency.



INDIA CSR

@INDIACSR

INDIACSR (indiacsr.in) is largest CSR news network in India. led by Rusen Kumar and @apreshm



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Official Account of Sakshama Karnataka Dakshin Pranth, a National organization dedicated for the empowerment of specially abled people/Divyangs...



H.R.S Karnataka

@hrskarnataka

Official twitter handle of Humanitarian Relief Society | Serving to the oppressed | Working across Karnataka



Shahidi wa Maji

@ShahidiWaMaji Follows you

A Tanzanian NGO working with government, communities and the private sector towards sustainable and equitable water resource management for a fair water future.



Climate Resource Centre - Bidar

@crc bidar

Infrastructure for collaborative climate action research



India Water Portal

@indiawater

National knowledge platform for #water & related issues, and repository of news & resources. Share your stories with us. Visit: linktr.ee/indiawater



CDD Society

@CDDSociety

Water and Sanitation | Innovate, Demonstrate and Disseminate Decentralized Sanitation Solutions | #sanitation4all | NGO | WASH | India



HDDF - Hubballi Dharwad Development Forum

@HDDForum Fallows you

A facilitating organization to make the Hubballi-Dharwad Region one of the most dynamic and competitive economic growth center of India.



SBGBT सोच बढलो-गाँव बढलो टीम

@sbgbteam

SBGBT is registered organisation working for development of villages. through Public Awareness and Active Public Participation with Administration.



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@tcfindia

Non-Profit Organization ~ Health and Education Interventions for underserved populations in India: ...initycarefoundationindia.blogspot.com #CSR



SAFERS

@SAFERS H2020

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SELCO Foundation

@SFI COFoundation

End-users' voice with robust, field-proven technological + financial + social models in health, education, livelihoods through #EnergyAccess #EndEnergyPoverty



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Official Account of Department of Information and Public Relations, Government of Karnataka



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@AsianetNewsSN



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ಕನ್ನಡದ ಜನಪ್ರಿಯ ಚಾನೆಲ್- ಕರ್ನಾಟಕ, ದೇಶ, ವಿದೇಶದ ಲೇಟೆಸ್ಟ್ ಸುದ್ದಿಗಳಿಗೆ ಏಕೈಕ ತಾಣ, ಭಾರತದ ನಂ.1 ಪ್ರಾದೇಶಿಕ ಸುದ್ದಿ ಜಾಲ, ಏಷ್ಯಾನೆಟ್ ನ್ಯೂಸ್ನ ಅಂಗ.



ದೂರದರ್ಶನ ಚಂದನ | DD Chandana



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DD Chandana is a Kannada language TV channel owned by Prasar Bharati, an autonomous body under MIB, Gol. Telegram Channel: t.me/DDChandana_Kar...



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Zee Hindustan Kannada

@ZHKannada



ಜೀ ಮೀಡಿಯಾ ಕಾರ್ಪೊರೇಶನ್ ಲಿಮಿಟೆಡ್ ಸುದ್ದಿ ಮೂಲಕ 150 ಮಿಲಿಯನ್ ಗೂ ಅಧಿಕ ಓದುಗರನ್ನು ತಲುಪುವಲ್ಲಿ ಯಶಸ್ವಿಯಾಗಿದೆ.



Vijayavani

@VVani4U



t.me/VIJAYAVANI Official Account of No.1 Kannada Daily VIJAYAVANI, Published by VRL Media Ltd.





Gubbi Labs

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WSAFE Sustainability Services

@WSAFF5



WSAFE a young startup, to position itself as research and result oriented company in the field of Water SAFEty and sustainability solution.



Pratham Books



@prathambooks



Our mission is 'A Book in Every Child's Hand'. More @ bit.ly/2Uld5R9. Read all our storybooks online over at storyweaver.org.in.



ಜನಸ್ನೇಹಿ-ಕರ್ನಾಟಕ/ Janasnehi-Karnataka

@Karnataka DIPR

Follow

For contacting the State Government on any issue 24x7, please tag @Karnataka_DIPR E-mail ID : janasnehikarnataka@gmail.com WhatsApp: +91 9980299802



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PARIHARA

Public Access to Responsive & Innovative Handling (Of Complaints) & Resolution Application



9480985555

ನೀರು ಮತ್ತು ನೈರ್ಮಲ್ಯ

ಕುರಿತಾದ ಸಮಸ್ಯೆಗಳ

ತ್ವರಿತಗತಿಯಲ್ಲಿ

ಇತ್ಯಾರ್ಥಪಡಿಸಲು

"ಪರಿಹಾರ" ಸಹಾಯವಾಣಿ

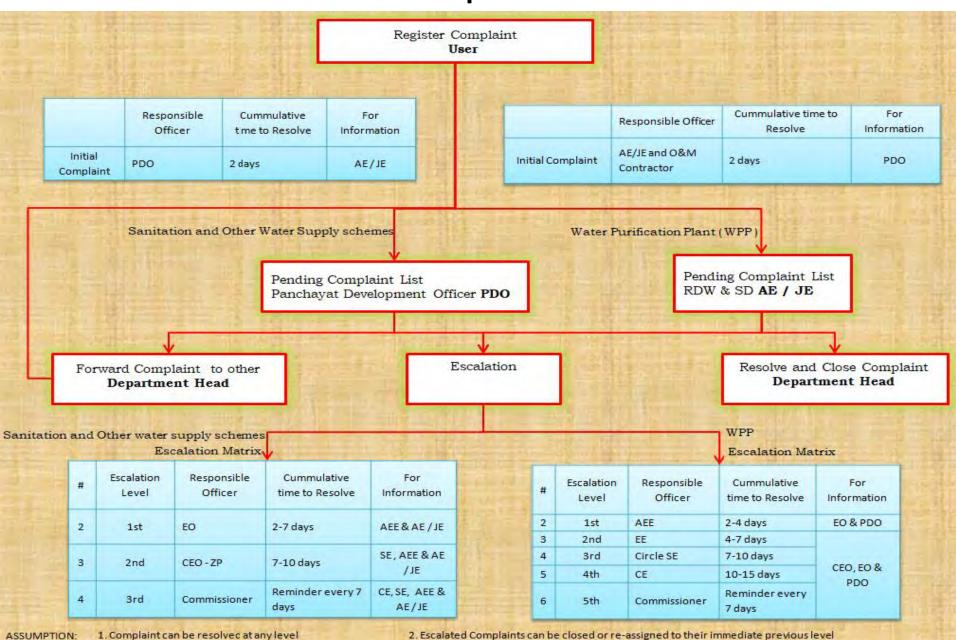
ಸ್ಥಾಪನೆ

Calls Received & Complaints Received from March 2020- July 2021

Offered Calls	Complaints	Queries
44432	12929	31605

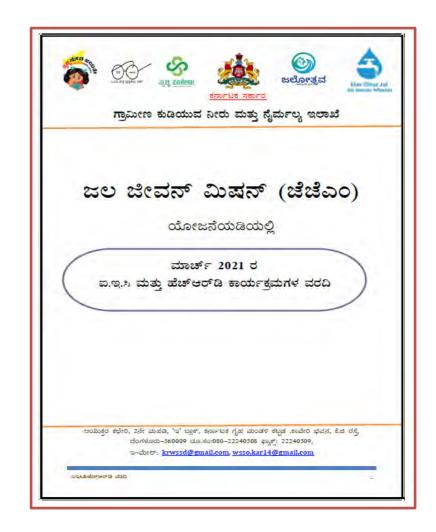
Complaints Received	Resolved	Pending
12929	12357	565

Escalation Chart for the Resolution for the Resolution of the Complaints



ದಾಖಲೀಕರಣ

- ಮಾಹಿತಿ. ಶಿಕ್ಷಣ ಮತ್ತು ಸಂವಹನ ಹಾಗೂ ಮಾನವ ಸಂಪನ್ಮೂಲ ಅಭಿವೃದ್ಧಿ ಚಟುವಟಿಕೆಗಳನ್ನು
- ಈ ಕಾರ್ಯಚಟುವಟಿಕೆಗಳ ವಿವರವನ್ನು ಕ್ರೋಢಿಕರಿಸಿ ಛಾಯಾಚಿತ್ರ ಸಹಿತ ವರದಿ ತಯಾರಿಸುವುದು ಮುಖ್ಯವಾಗಿದೆ.
- ಮಾರ್ಗಸೂಚಿಯಲ್ಲಿರುವ ಐ.ಇ.ಸಿ ಹಾಗೂ ಹೆಚ್.ಆರ್.ಡಿ ಚಟುವಟಿಕೆಗಳನ್ನು ಪ್ರತಿ ಜಿಲ್ಲೆಯಲ್ಲಿ ಹಮ್ಮಿಕೊಂಡ ಮಾಹಿತಿಯನ್ನು ಕ್ರೋಢಿಕರಿಸಿ ವರದಿ ತಯಾರಿಸಿ ದಾಖಲಿಸಬೇಕು.



ಪ್ರಕಟಣೆಗಳು

DownTo Earth ಮ್ಯಾಗಜೀನ್ ಗೆ 15 ದಿನಗಳಿಗೊಮ್ಮೆ ತಿಂಗಳಿಗೆ ಇಲಾಖೆಯ ಚಟುವಟಿಕೆಗಳಿಗೆ ಸಂಬಧಿಸಿದಂತೆ ಆಂಗ್ಲ ಭಾಷೇಯಲ್ಲಿ 2 ಲೇಖನವನ್ನು ಪ್ರಕಟಿಸಲಾಗಿದೆ.





ಸಮುದಾಯ ಶೌಜಾಲಯ ಸ್ವಂತ ಶೌಜಾಲಯ

23 ಕ್ಷಮಗಳೂರು ಜಿಲ್ಲೆ, ಅಜ್ಜಂಮರ ತಾಲ್ಲೂಕಿನ ಅತ್ತಿಮೊಗ್ಗೆಗ್ರಾಮ ಪಂಚಾಯಿತಿ ಪ್ರಾಪ್ತಿಯ ಹಣ್ಣಿಗ್ರಾಮದಲ್ಲಿ 104 ಮನೆಗಳದ್ದು, 514 ಜನಸಂಖ್ಯೆಯನ್ನು ಹೊಂದಿದೆ. ಪ್ರತಿಯೊಂದು ಮನೆಯಲ್ಲೂ ಶೌಚಾಲಯ ಬಳಸುತ್ತಿದ್ದಾರೆ. ಈ ಊರಿನಲ್ಲಿ ಪ್ರಸಿದ್ಧವಾದ ಶ್ರೀ ರಾಮಲಿಂಗೇಶ್ವರ ಸ್ವಾಮಿದೇವಸ್ಥಾನವಿದೆ. ಈ ದೇವಸ್ಥಾನದಲ್ಲಿ ಮದುವೆ ಶುಭಸಮಾರಂಭ, ಜಾತ್ರೆ, ಹರಿಸೇವೆಗಳು, ಗ್ರಾಮಸ್ಥರ ಸಭೆಗಳು, ಸ್ವ ಸಹಾಯ ಸಂಘಗಳ ಸಭೆ, ಸ್ಟ್ರೀ ಶಕ್ತಿ ಸಂಘಗಳ ಸಭೆ ಮುಂತಾದ ಕಾರ್ಯಕ್ರಮಗಳು ನಡೆಯುತ್ತದೆ. ಜನಸಂದಣಿ ಸೇರುವ ಈ ಜಾಗದಲ್ಲಿ ಜಾತಿ, ಹಬ್ಬ ಅಥವಾ ಯಾವುದೇ ಕಾರ್ಯಕ್ರಮಗಳಲ್ಲಿ ಜೇರೆ ಊರುಗಳಿಂದ ಆಗಮಿಸಿದ ಜನರು ಮಲಮೂತ್ರ ವಿಸರ್ಜನೆಗೆ ಬಯಲುಕಡೆಗೆ ಹೊಗುತ್ತಿದ್ದರು, ಮಹಿಳೆಯರಿಗೆ ನೀರು ಇಲ್ಲದೆ ಬಯಲು ಶೌಚಕ್ಕೂ ತೊಂದರೆಯಾಗುತ್ತಿತ್ತು ಹಾಗೂ ಮಹಿಳೆಯರು ಮತ್ತು ಹದಿ ಹರೆಯದ ಹೆಣ್ಣು ಮಕ್ಷಳು ಬಯಲಿಗೆ ಹೊಗಲು ಕಷ್ಟ ಪಡುತ್ತಿದ್ದರು

ಬಯಲಿನಲ್ಲಿಯೆ ಮಲ ಮೂತ್ರ ಎಸರ್ಜನೆ ಮಾಡುತ್ತಿದ್ದರಿಂದ ದೇವಸ್ಥಾನದ ಪರಿಸರ ಹದಗೆಟ್ಟಿತ್ತು. ಇದನ್ನು ಗಮನಿಸಿದ ಆ ಊರಿನ ಗ್ರಾಮಸ್ಥರು ಮತ್ತು ದೇವಸ್ಥಾನದ ಸಮಿತಿ ಸದಸ್ಯರು ಊರಿನ ನೈರ್ಮಲ್ಯ ಹಾಗೂ ಆರೋಗ್ಯ ಕಾಪಾಡಲು ಆಲ್ಲಿಗೆ ಸಮುದಾಯ ಶೌಚಾಲಯದ ಅವಶ್ಯಕತೆಯದೆ ಎಂದು ಗ್ರಾಮಸ್ಥರೆಲ್ಲಿ ಚರ್ಚಿಸಿ ಮನವಿಯನ್ನು ಆ ಊರಿನ ಪಂಚಾಯತಿ ಅಭಿವೃದ್ಧಿ ಅಧಿಕಾರಿ ಶ್ರೀಮತಿ ರೇಖಾರವರು ವಿಷಯದ ಬಗ್ಗೆ ಪರಿಶೀಲಿಸಿ 2019ರಲ್ಲಿ ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ನೈರ್ಮಲ್ನ ಇಲಾಖೆಯಡಿಯಲ್ಲಿ ಸ್ವಚ್ಛ ಭಾರತ ಮಿಷನ್(ಗ್ರಾ) ಯೋಜನೆಗೆ ಈ ವಿಷಯದಕುರಿತುಅರ್ಜಿ ಸಲ್ಲಿಸಿದರು. ಸ್ವಚ್ಛ ಭಾರತ ಮಿಷನ್(ಗ್ರಾ) ಅಡಿಯಲ್ಲಿ ಸಮುದಾಯ ಶೌಚಾಲಯಕ್ಕೆ ಹಣವನ್ನು ಮಂಜೂರು ಮಾಡಲಾಯಿತು ಹಾಗೂ ಸಮುದಾಯ ಶೌಚಾಲಯದ ಉನ್ಯತೀಕರಣಕಾಗಿ ದೇವಸ್ಥಾನದಿಂದರೂ 2.00 ಲಕ್ಷಗಳನ್ನು ನೀಡಲಾಗಿದೆ ಎಂದು ಅಲ್ಲಿನ ಗ್ರಾಮಸ್ಥರಾದ

ಈಗ ಆ ಶೌಚಾಲಯ ಪ್ರಗತಿಯಹಂತದಲ್ಲಿದ್ದು ಆದರ ನಿರ್ವಹಣೆಯ ಜವಾಬ್ಯಾರಿಯನ್ನು ಆ ದೇವಸ್ಥಾನದ ಸಮಿತಿಯ ಸದಸ್ಯರೆವಹಿಸಿಕೊಂಡಿದ್ದಾರೆ. ಆದನ್ನುತಾವೇ ತಮ್ಮ ಮನೆಯರೀತಿ ಸ್ವಚ್ಛವಾಗಿಡಬೇಕೆಂದು ನಿರ್ಧರಿಸಿ ಜನಸಂದೇಕೆ ಸೇರುವಲ್ಲಿ ನಿರ್ಮಾಣವಾದ ಸಮುದಾಯ ಶೌಜಾಲಯವನ್ನು ಬಂದ ಭಕ್ತಾದಿಗಳು

ಹಾಗೂ ಇತರೆ ಜನರಲ್ಲಿ ಮಲ ಮೂತ್ರ ವಿಸರ್ಜನೆಗೆ ಉಪಯೋಗಿಸಲು ಹಣ ಪಡೆದುಕೊಳ್ಳದೆ ಉಚಿತವಾಗಿ ಸೇವೆ

ಕೌಚಾಲಯದಿಂದ ಬಂದಕಪ್ಪು ಮತ್ತು ಬೂದು ನೀರು ಚರಂಡಿಗಳಲ್ಲಿ ಮೋರಿಗಳಲ್ಲಿ ನಿಲ್ಲುವುದನ್ನು ತಡೆಗಟ್ಟಲು ಮಹಾತ್ರಗಾಂಧಿ ಉದ್ಯೋಗ ಖಾತ್ರಿಯೋಜನೆ ಮತ್ತು 15ನೇ ಹಣಕಾಸು ಆಯೋಗದಿಂದ ಇಂಗು (Soak pit) ಗುಂಡಿಯ ವ್ಯವಸ್ಥೆಯನ್ನು ಮಾಡಿಕೊಂಡಿದ್ದಾರೆ. ಹೀಗೆ ಸಮುದಾಯ ಶಿಚಾಲಯವನ್ನು ಸ್ವಂತ ಕೌಚಾಲಯ ಎಂಬ ಛಾವನೆ ಇರುವ ಈ ಊರಿನ ಗ್ರಾಮಸ್ಥರು ಪರಿಸರದ ಸ್ವಚ್ಛತೆ ಹಾಗೂ ಆರೋಗ್ಯದ

ಮೇಲಿನ ಕಾಳಜಿಯಿರುವದರಿಂದ ಇದು ಮಾದರಿ ಗಾಮವಾಗಿದೆ.

Ministry of Jal Shakti, Government of India had launched "100-days Campaign" to provide safe drinking water to anganawadis, schools and ashram schools under the "Jal Jeevan Mission (JJM)" on 2nd October 2020. Under this campaign piped water for drinking, washing hands and water for kitchen and tollets are being provided.

In Karnataka, the campaign is felmed by Rural Drinking Water and Sanitation Department (RDWSD) which is the nodal department for JM implementation, in association with the Department of Women and Child Development and the Department of Primary and Secondary Education.





"WATER IN SCHOOL TAPS - SMILES ON CHILDREN'S FACE" JALOTSAVA 100 Days Campaign Jal Jeevan Mission - A case study of Karnataka

HOW DID WE ACHIEVE IT?

Karnatala has 53,568 schools and 54,795 anganwada.
Many schools did not have deribade water connections.

anganwada wifer have been supported to the connection of the c were prepared and work was executed, provided with Rs. 20,000 and each Angenward was provided with Rs. 15,000 for water supply.

Water storage facilities were also provided. Any additional funding required was doveralled under convergence. What Has Changed?

What Has Changed? Head master of Government Higher Primary School in the Hegunii Gram Panchayat of Brahmavara Takk in Udupi District says "Our school has 60 students and four teachers.

Previously, parents were admitting the children to our School, but nowadays, the children are getting enrolled in private schools. The reason is our school has a tollet but no water. Parents were reluctant to enrol their children in schools campaign where there is a lack of water and anitation facilities. But this 100 days campaign' is providing water to As on 26-05-2021 our school. We are expecting more children enrolment in our school in the coming days".

In Angarwadi of Gowdgere Thanda, Gurumtikal Taluk in Yadger detrict, there are 73 children. Only 31 children were coming to Angarwadi. Remaining children were seven committies as supplimate, remaining children were staying at home contrip to lack of water. Now, Appraisable Teacher shares that "Angaread helper used to trave" for 30 minutes to lotth the water for preparation of food. Now under 100 days campaign", Angaread was provided water water supplies of the properties of children water supplies of the properties of the contribution of

ಕರ್ನಾಟಕ ವಿಕಾಸ ಮ್ಯಾಗಜೀನ್ ನಲ್ಲಿ ಇಲಾಖೆಗೆ ಸಂಬಧಿಸಿದಂತೆ ಚಟುವಟಿಕೆಗಳನ್ನು ಪ್ರಕಟಿಸಲು ನೀಡಲಾಗುತ್ತಿದೆ.

ನೀಡುತ್ತಿರುವುದು ಆ ಊರಿನ ಹೆಮ್ಮೆಯ ವಿಷಯ.

ದಾಖಲೀಕರಣಕಜ್ಜರು ಜೀಣಕುಡಿಯುವ ನೀರು ಮತ್ತು

100 ದಿನದ ಅಬಿಯಾನ

ಶಾಲೆಗೆ ನಳದ ಸಂಪರ್ಕ

ಓದುತ್ತಿದ್ದು ಕುಡಿಯಲು

ಮತ್ತು ಕೈತೊಳೆಯಲು

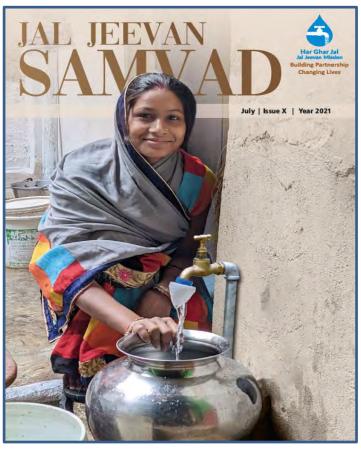
ನೀರು ದೊರೆತಿರುವುದು

ಸರ್ಕಾರಿ ಪಾಥಮಿಕ

32 ಜನ ಮಕ್ಕಳು

ಜಲ ಜೀವನ್ ಸಂವಾದ್ಗೆ ಪ್ರಕರಣ ಅಧ್ಯಯನ ಮತ್ತು ಯಶೋಗಾಥೆಗಳನ್ನು ನೀಡಿ ಪ್ರಕಟಿಸಲಾಗುತ್ತಿದೆ.





✓ ಯೋಜನಾ ವಿಶೇಷ ಸಂಚಿಕೆಯಲ್ಲಿ ಶುದ್ಧ ಕುಡಿಯುವ ನೀರಿನ ಪೂರೈಕೆಯ ಬಗ್ಗೆ ಲೇಖನ ಪ್ರಕಟಿಸಲಾಗಿದೆ.



ಕರ್ನಾಟಕ : ಧ್ರಾಮೀಣ ಜನತೆಗೆ ಕುಡಿಯುವ ನೀರು

ಮಾರ್ಡ-೧೯೯೮ರು ಪರ್ಚ್ವವರ್ಷಗಳು ಸುತ್ತಕ್ಕೆ ನೀರು ದೊರೆಯುವಂತೆ ಮಾಡುವ ಅರುಷ್ಟಾನಗೊಳಿಸಲಾಗುತ್ತಿದೆ. ಸರ್ಕಾರಗಳು/ ಸ್ಥಳೀಯ ಆಡಳಿತಗಳು ಉದ್ದೇಶದೊಂದಿಗೆ ಅನುಷ್ಟಾನಗೊಂಡಿತು. ಕರ್ನಾಟಕ ರಾಜ್ಯ ಚ್ಯಾಂಕರ್ಗಳ ಮೂಲಕ ನೀರನ್ನು ಒದಗಿಸಲು ಹಳ್ಳಿಗಳಲ್ಲಿ ಸ್ಥಳೀಯ ಗ್ರಾಮಣ ಕುಟಾಂಟಗಳಿಗೆ ನಿಗಡಿತ ಚರ್ಚ ಕ್ರಮ ಕೆಗೆದುಕೊಳ್ಳುತ್ತಿತ್ತು ಇದೀಗ ಸಮುದಾಯಿಗಳುವಿಶೇಷವಾಗಿಸುಹಿಳೆಯರ ಗ್ರಾಮಟ್ಟದಲ್ಲಿ ಸುಕಪ್ಪು ಪ್ರಮಾಣದ ಮಧ್ಯ ಜನರ ನೇವನ ಮಕ್ಕ ಸುಧಾರಿಸಲು ಧಾಗದಹಿಸಲುಕೆಗೆ ಸ್ವೋತ್ಸಹ ನೀಡಬೇಕು ಕುಡಿಯುವ ನೀರನ್ನು ಸುಕ್ಕೆಸುವುದಕ್ಕುಗೆ ಕರ್ನಾಟಕ ಸರ್ಕಾರ ಮನೆ ಮನೆಗೆ ಗರಿಗೆ ಹಾಗೂ ಜರ ಸಂಪನ್ನೂಲ ನಿರ್ವಹಣೆ, ಪ್ರಧಾನ ಮಂತ್ರಿಗಳ ಪ್ರಮುಖ ಕುಡಿಯುವ ನೀರಿನ ನರಬರಾಜು ಮಾಡುವ ನಿರ್ವಹಣೆ ಅಧರ ಮರುಬಳಕೆಯ ಬಗ್ಗೆ ಅನ್ನು ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಉದ್ದೇಶದಿಂದ ಜಲ ಜೀವನ್ ಮಿಷನ್ ಕಪುವಹಿಸಿಕೊಳ್ಳುವಂತೆ ಮಾಡಬೇಕು ರುತ್ತು

ನೀರು ಸರಬರಾಯ ಕಾರ್ಯಕ್ರಮ (ಆರ್.ಡಿ.ಡಬ್ಲ್ಯೂ.ಎಸ್) ರೋಗಗಳನ್ನು ತಡೆಯವೇಕಾದ ಸ್ಥಳಗಳಲ್ಲಿ BEHADE'S PRESENT SECO Editional ಕಾರ್ಯಕ್ರಮ ಹಾರಿಯಾಯಿತು ನಂತರ ರಾಷ್ಟ್ರೀಯ ಕುಡಿಯಾದ ನೀರನ ಅಥಯಾಗ ಪಾರಂಭ ಮಾಡಲಾಯಿತು. ಹೀಗೆ ನೀಡಿನಲ್ಲಿ ಹೆಚ್ಚರಾದ ಅರ್ಸರ್ವ ಪ್ರೂಣಿಸ್, ಕಭಣ. ಲದಣಾಂಕ ಹಾಗೂ ನೀಡಿನ ಮುಂಲಗಳ

ಪ್ರಮುಖ ಅಂತ ಹಾಗು ಅಗತ್ಯವಿಯು ಜನ ಮಾಸ ಸ್ಥಳಗಳಿತ ಆಸ್ತಿಯನ್ನಾಗಿ ಮಾಡಲು. ಮೂಲಭೂತ ಅವಶ್ಯಕ್ಷಕ ಸುಧಾರಣಾ ಕಾರ್ಯ ಅರಂಭವಾಯಿತು. ವಾಲುದಾರರು, ಕೈಕ್ಷಣೆಕ ಮತ್ತು ತಾಂತ್ರಿಕೆ ಕಾಡಿಯಾದ ನೀರ ಕಾಡಿಯುವ ನೀರಿನ ಯೋಜನೆಗಳ ಅಸ್ತೆಗಳೊಂದಿಗೆ ಕಾರ್ಯನಿಗ್ನ ಬೆಳಸಲು ಸಂಯಾದ ಸಮಯದಲ್ಲಿ ಬೂರ್ಪರೇಷೆ, ಆನುಷ್ಠಾನ ಮತ್ತು ಪ್ರಮಾಗಳಲ್ಲಿ ಅಭಿಯಾನಗಳನ್ನು ಕೈಗೊಳ್ಳುವ ದೊರೆಯರೆ ಇದ್ದಲ್ಲಿ ಕಾಟುಂಟಗಳ ನಿರ್ವಹಣೆಯಲ್ಲಿ ಗ್ರಾಮ ಪಂಚಾಯತಿಗಳು/ ಮೂಲಕ ಕುಡಿಯಾರ ನೀರಿನ ಸ್ಮಾರಕ ಪತ್ರ ಕ್ಷೇಯ ಸಮಾರಾಯಗಳ ಸ್ಥಳೀಯ ಸಂಶೈಗಳು ಸಮಾರಾಯವನ್ನು ಪಾಧಿಸಲು ತಾರ್ಯ ನಿರ್ವಹಿಸುತ್ತಿದೆ. ಮೇಲೆ ಪತಿಕೂಲ ಪರಣಾಮ ಬೇರುತ್ತದೆ ಹಿಳಗೊಂಡ ಸುಧಾರಣಾ ಕ್ಷನು ಕೈಗೊಂಡು ಅಷ್ಟಯಾ ನೀರನ್ನು ಕ್ಷಾಸ್ತಿಯಾಗುತ್ತಿದೆ. ಮಾರು ನಿರ್ವಹಿಸಲ ಪರಿಗಣವು ಬರುತ್ತವು ಒಳಗುವರಿಸುವ ಸಭಾರತಕ್ಕೆ ಕ್ರಿಗ್ ಸಭಾರತಕ್ಕೆ ಹಾಗುವ ಸಭಾರತಕ್ಕೆ ಸಭ್ಯವನಿಗಳನ್ನು ಮುಡಿಯುವ ನೀಡು ಸಭಾರತಕ್ಕೆ ಸಭ್ಯವನ್ನು ಸಭ್ಯವನಿಗೆ ಸಭ್ಯವನ್ನು ಸಭ್ಯವನ್ನ ಸಭ್ಯವನ್ನು ಸಭ್ ಮನೆಗಳಿಗೆ ನೀರು ಕೊಂಡೊಯ್ಯಲು ಪ್ರತಿ ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಕಾರ್ಯಕ್ರಮ ಸರ್ಕಾರವು ರಾಜ್ಯ ಕ್ರಿಯಾ ಯೋಜನೆಯನ್ನು ದಿನ ಸಾಕಷ್ಟ ಸಮಯ ಮತ್ತು ಶಕ್ತಿ ಪೂರ್ವ ಅನಾಹ್ಯಾನ ಮಾಡಿ ಕುಡಿಯಲು ಯೋಗ್ಯ. ತಯಾರಿಸಿ ಅವರಂತೆ ಎಲ್ಲಾ ಗ್ರಾಮಗಳನ್ನೂ ಮಾಡಲೇಶಾಗುತ್ತದೆ. ಕೆಲವು ಸಂದರ್ಭಗಳಲ್ಲಿ ಸಮರ್ಪಕ, ಅನುಕೂಲಕರ ಹಾಗೂ ಒಳಗೊಂಡಂತೆ

ಎಂಬ ಶೀರ್ಷಿಕೆಯೊಂದಿಗೆ ಮನೆಯಲ್ಲಿಯೇ ನೀರು ಸರಬರಾಜು ಮತ್ತು ಬೂದು ನೀರು ಕಾರ್ಯಕ್ರಮ ಜಲ್ ದೀವನ್ ಮಿಡನ್ ಯೋಜನೆಯನ್ನು ಅನುಷ್ಟಾನಗೊಳಿಸಿದೆ. ಆವರಿಂದ ಅಗತ್ಯವಿರುವ ಕಡೆಗಳಲ್ಲಿ ಗ್ರಾಮೀಣ ಎಸ್) ಇಲಾಖೆ ರಾಜ್ಯದಲ್ಲಿ ಅನುಷ್ಟಾಗ ಮೊದಲಿಗೆ 1934 ರಲ್ಲಿ ರಾಷ್ಟ್ರೀಯ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ನೈರ್ಮಲ್ನ ಮಾಡಲು ಕಾರ್ಯನಿರ್ವಹಿಸುತ್ತಿದೆ. ಇದ ಈ ಸರಬರಾಯ ಕಾರ್ಯಕ್ರಮ (ಆರ್.ಮಿಯಟ್ಟ್ ಎಸ್) ಇನಾನೆಗಳು 2022ರ ವೇಳೆಗೆ ಮಾಡಿನ ಪರಿ ಗ್ರಾಮೀಣ ನೀರಿನ ತೀವ್ರ ಜೊತೆಗೆ, ಗ್ರಾಮ ಪಂಜಾಯತಿಗಳಿಗೆ ಸ್ಥ



ರ್ವವನದ ಅತಿ: ಕೊರತೆ ಹಾಗೂ ಮೂಲಗಳ ಸಂಸ್ಥಿರತ ಕೈ ಕೋಡಿಸುತ್ತಿದೆ ನೀರನ್ನು ಪತಿಯೊಬ್ಬರ

ಕರ್ನಾಟಕ ರಾಜ್ಯದಲ್ಲಿನ ಪ್ರತಿ ನೈರ್ಮಲ್ಲ (ಆರ್.ಡಿ.ಡಬಡ್ಡ, ಸಮಾದಾಯದ ಪತ್ರಿ ಕುಟುಂಬದ ಪ್ರತಿ ಕೊರತೆಯಿಂದ ಪ್ರದೇಶದ ಪ್ರಕ್ರೀ ಸರಕ್ಕಾರ್ಯ ಸರಕ್ಕಾರ್ಯ ಸರಕ್ಕಾರ್ಯ ಸರಕ್ಕಿಗೆ ದಿನಕ್ಕೆ ಸರಕ್ಕಿಗಳು ಸರಕ್ಕಾರ್ಯ ಸರಕ್ಕಾರ್ಯ ಸರಕ್ಕಿಗಳು ಸರ ಸುಸ್ತರ ಅಭಿವೃದ್ಧಿ ಗಾರಿ ಸಾಧನೆಯಂತ ಗ್ರಾಮಣಾ ಭಾಗದ ಪ್ರತಿಯೊಂದು ಮನಗ ಕಾರ್ಯಾತ್ರಕ ನಳ ಸಂದರ್ಶದ ಮೂಲಕ ಕುದ್ದ ಕುಡಿಯುವ ನೀರನ್ನು ಆಗತ್ತವಿರುವವು ಕ್ಷಿಚಿತ್ರಗಳ ಕ್ಷರ್ಥಿತ ಮತ್ತು ವಿಜನಿಸಿಕ್ಕರ ಸರಬರಕಾಬ ಮಾಡುವಾದಕ

್ ಆಮಾಕ್ಷಯ, ಗಾರ್ವೀ ಕುಡಿದ್ದರು ನೀರು ಪತ್ರ ಕೈರ್ಪ್ಯ ಮುಖ್ಯೆ ಕರ್ಮಗಳ ನೀರು ಸಂಘೇಕ | berokagemic co

HORSE PART PORT



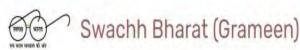
ಜೆ.ಜೆ.ಎಂ ಹಾಗೂ ಎಸ್.ಬಿ.ಎಂ (ಜಿ) ಯೋಜನೆಗಳಿಗೆ ಸಂಬಂದಿಸಿದ ಕಾರ್ಯಚಟುವಟಿಕೆಗಳ ಅಧ್ಯಯನ ಹಾಗೂ ಯಶೋಗಾಥೆಗಳನ್ನು ಸಂಗ್ರಹಿಸಿ ವರದಿ ದಾಖಲೀಕರಣ

ಸ್ವಚ್ಛ ಭಾರತ ಮಿಷನ್ (ಗ್ರಾ) ಯೋಜನೆಗೆ ಸಂಬಂಧಿಸಿದ ಪ್ರಕರಣ ಅಧ್ಯಯನ ಮತ್ತು

ಯಶೋಗಾಥೆಗಳನ್ನು WordPress.com ನಲ್ಲಿ ಪ್ರಕಟ



ಸ್ವಚ್ಛ ಭಾರತ ಮಿಷನ್ (ಗ್ರಾ) ಯೋಜನೆಗಳಿಗೆ ಸಂಬಂಧಿಸಿದಂತೆ ನಡೆಯುವ ತರಬೇತಿಗಳ ವರದಿ ತಯಾರಿಸಿ ದಾಖಲಿಸಲಾಗುತ್ತದೆ.



Towards a Swachh and Swasth Bharat by 2025

Search Results for: karnataka



Community sanitation through GWM in Karnataka's Haveri District

Liquid waste when managed efficiently. prevents the spread of disease while contributing to a cleaner environment. To ensure this, elected _ More





Incinerators in 32 locations of rural Karnataka

To ensure better hygiene and sanitation in rural areas, incinerators that can effectively dispose menstrual waste have been installed as ... More



Educating Rural Karnataka through Social Media

Effective use of social media can bring about behavioural and lifestyle changes. particularly with regard to hygiene and sanitation. However, _ More











Extracts from the Register of Copyrights





- Registration Number
- Name, address and nationality of the applicant
- Nature of the applicant's interest in the copyright of the work
- Class and description of the work
- Title of the work
- 6. Language of the work
- Name, address and nationality of the author and if the author is
- Whether the work is published or unpublished
- Year and country of first publication and name, address and nationality of the publisher
- Years and countries of subsequent publications, if any, and names, addresses and nationalities of the publishers
- Names, addresses and nationalities of the owners of various rights comprising the copyright in the work and the extent of rights held by each, together with particulars of assignments and licences, if
- Names, addresses and nationalities of other persons, if any, authorised to assign or licence of rights comprising the copyright
- 13 If the work is an 'Artistic work', the location of the original work. including name, address and nationality of the person in possession of the work. (In the case of an architectural work, the year of completion of the work should also be shown)
- 14. If the work is an 'Artistic work' which is used or capable of being used in relation to any goods or services, the application should include a certification from the Registrar of Trade Marks in terms of the provision to Sub-Section (i) of Section 45 of the Copyright Act,
- 15. If the work is an 'Artistic work', whether it is registered under the Designs Act 2000 if yes give details.
- If the work is an 'Artistic work', capable of being registered as a design under the Designs Act 2000 whether it has been applied to an article been an industrial process and if yes, the number of times

L-105961/2021

DR. VISHAL R COMMISSIONER, RURAL DRINKING WATER & SANITATION DEPARTMENT GOVERNMENT OF KARNATAKA 2ND FLOOR, E BLOCK, KHB COMPLEX, CAUVERY BHAVAN, KG ROAD, BANGALORE-560009 INDIAN

AUTHOR

LITERARY/ DRAMATIC WORK

KARNATAKA STATE POLICY, STRATEGY ON SANITATION AND WASTE MANAGEMENT AND BYE-LAWS ON SOLID AND LIQUID WASTE MANAGEMENT

DR. VISHAL R COMMISSIONER . RURAL DRINKING WATER & SANITATION DEPARTMENT GOVERNMENT OF KARNATAKA 2ND FLOOR, E BLOCK, KHB COMPLEX, CAUVERY BHAVAN, KG ROAD, BANGALORE-560009 INDIAN

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RURAL DRINKING WATER & SANITATION DEPARTMENT GOVERNMENT OF KARNATAKA , 2ND FLOOR, E BLOCK, KHB COMPLEX, CAUVERY BHAVAN, KG ROAD, BANGALORE-560009

6665/2021-CO/L

Warmer





ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ನೈರ್ಮಲ್ಯ ಇಲಾಖೆ

ಕರ್ನಾಟಕ ರಾಜ್ಯ ಗ್ರಾಮೀಣ ನೈರ್ಮಲ್ಯ ನೀತಿ, ಕಾರ್ಯತಂತ್ರ ಮತ್ತು ಮಾದರಿ ಉಪವಿಧಿಗಳು

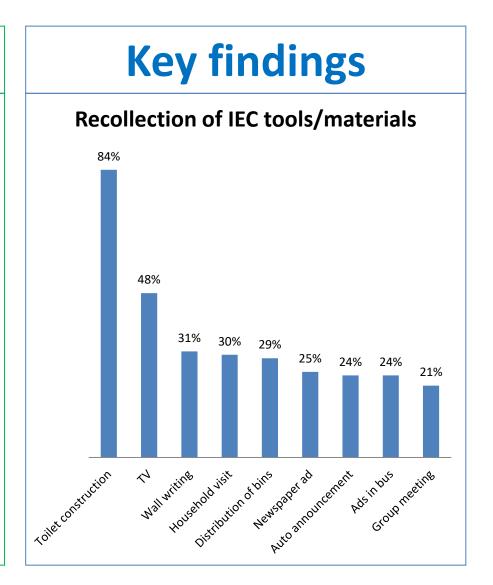


ಕಾಪಿರೈಟ್ ನೊಂದಣಿ

Third Party Evaluation

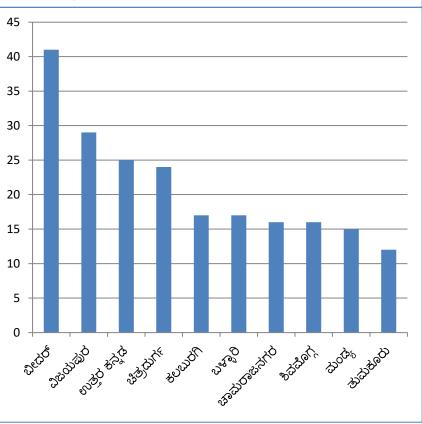
IEC Impact Assessment

- 10 districts
- 20 talukas
- 40 GPs
- 80 villages
- 2000 Households

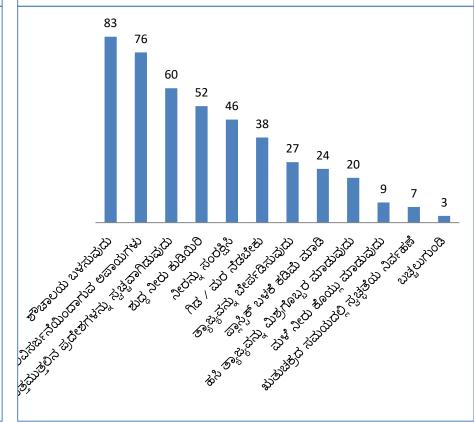


Third Party Evaluation

Districts with Low Recollection of any IEC materials



Type of message recollection in Wall Writing



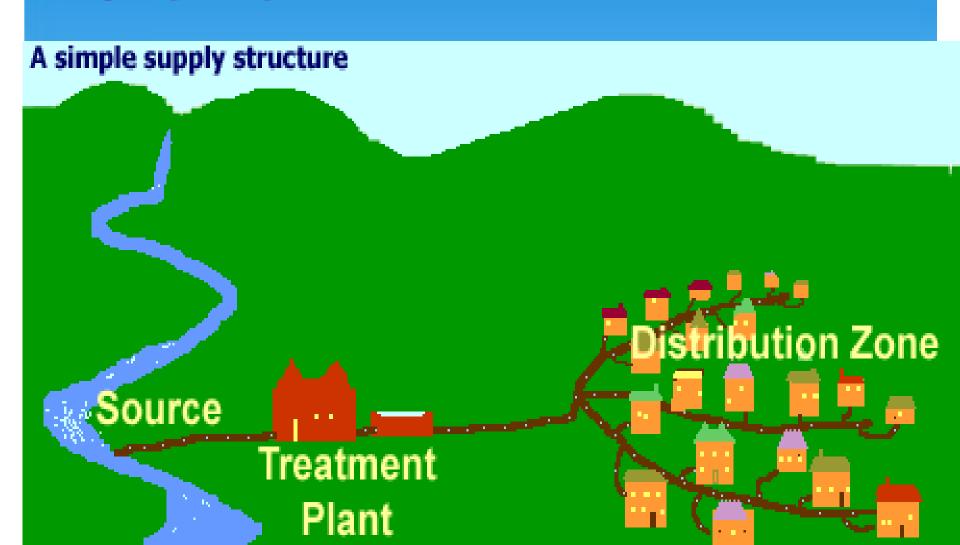


MULTI VILLAGE SCHEME

Mahananda Kalgi

Assistant Executive Engineer Rural Drinking Water and Sanitation Central Office Bangalore

Overview



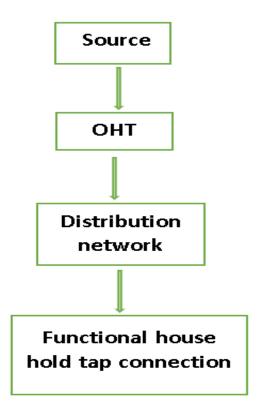
Introduction

Karnataka Rural Drinking Water and Sanitation Department is providing **Potable Water** Supply mainly to the Rural areas by

- Single Village Scheme
- Multi Village Schemes and
- Water Purification Plant.

Single village Scheme

- •As the Name itself suggests in these Schemes **Potable water** will be supplied for a **single Village** or group of habitations.
- •These Schemes uses **Sustainable Source** like Bore wells, Open wells and surface sources with a minimum operation and maintenance cost.

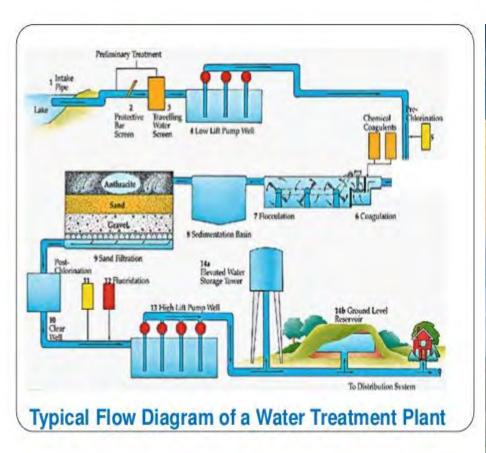


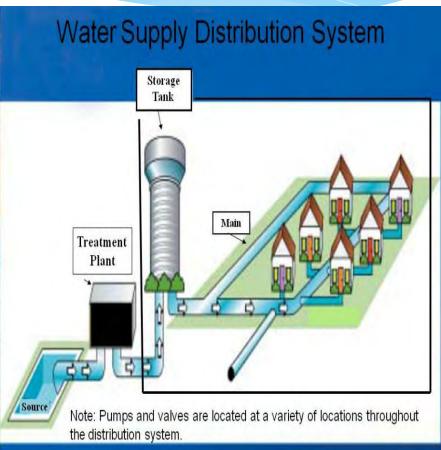
Water Purification Plant

WPP's installed in Karnataka are Reverse Osmosis (RO) based water purification system with capacities ranging from 250 Litre per Hour (LPH) to 1000 LPH drawing "Raw Water" from exclusive bore well or from any existing water supply systems with typically 2000 Litre of Treated Water Tank and dispensed through Coin and/or Card vending machines dispensing 20 Litre at Rs.2-5



Multi Village Scheme





Over view

These Schemes uses Sustainable Water Source and Treated into the designated Water Treatment Plant and then supplies purified Drinking Water to the Villages/Habitations covered under the project.

Since the water is transferred from long distance at a very high cost, it is essential to have least loss of water during transmission. For this purpose it is necessary to have District Metering Area (DMA) with SCADA systems. Bulk water transfer/multiple village schemes have higher per capita & maintenance costs, and require skilled human resources. Hence, the Districts have to judiciously plan these works, preferably as a last option, keeping in view the availability of resources and future O&M expenditure.

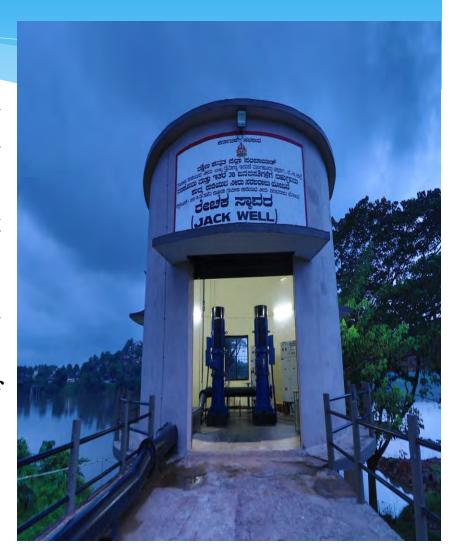
Intake Structure

* Intake well is used to collect water from the source such as River, Lake & Reservoirs and conveying it further to the Water Treatment Plant through jackwell.



Jackwell

- * The structure where the drawn water from intake is delivered and the pumping operation starts
- * Main objectives are to prevent vortex formation
- * To obtain uniform distribution inflow to all operating pumps
- * To maintain sufficient depth of water to avoid air entry during pumping



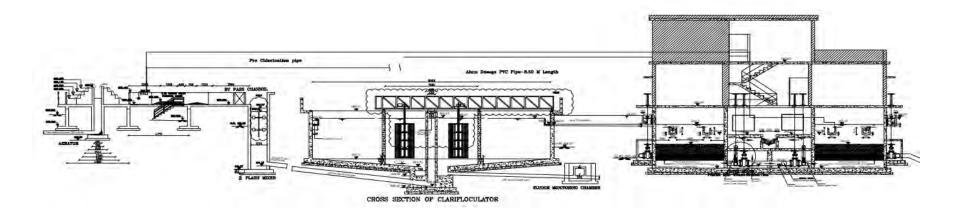
Raw Water Rising Main

Raw water Rising Main or pumping main is used to convey the Water from source to Water Treatment Plant It may be through Gravity or Pumping, depending on the geographical conditions of the site.



Water Treatment Plant

Water treatment is the process that improves the quality of water to make it appropriate for a specific end-use.





Components of WTP

- Aerator : Process in order to remove dissolved gases
- **Flash Mixer**: A flash mixer is a chamber that contains mechanical stirrers, which is designed to assure fast, thorough, mixing of lime and alum for the purpose of creating floc.
- Clariflocculator: Clariflocculator is a combination of flocculation and clarification in a single tank.
- **Filtration** :Filtration is a process that removes particles from suspension in water by slow sand filter or rapid sand filter
- •**Disinfection**: Water disinfection means the removal, deactivation or killing of pathogenic microorganisms. Microorganisms are destroyed or deactivated, resulting in termination of growth and reproduction.

Project No of works No of works under

Completed Projects in

Commissioned

SL

Name of the Divison

Dharwad

Kalaburgi

Gadag

Hassan

Haveri

Kodagu

Kolar

Koppal

Mandya

Mysore Raichur

Ramanagar

Shivamogga

Uttarkannada

Total

Tumkur

Vijaypur

Yadgir

Udupi

NO	Name of the Divison	Prior to Mar 2018- 19	2019-20	completed 2020-21	progress 2020-21	Approval/Tender Stages	2021-22	Grand Total
1	Bagalkot	32	2	1	0	1	5	41
2	Bengaluru (U)	0	0	0	0	1	1	2
3	Belagavi	- 68	2	0	0	1	3	84
4	Chikkodi			0	2	0	8	
5	Bellary	67	0	0	4	3	4	- 83
6	Harappanahalli			0	3	0	2	
7	Bidar	3	0	0	0	3	1	7
8	Chamrajnagar	5	0	0	2	1	1	9
9	Chikkaballapur	2	0	1	0	4	0	7
10	Chikkamangalur	2	1	2	1	0	15	21
11	Chitradurga	2	0	0	4	1	5	12
12	Dakshin Kannada	4	1	2	0	0	7	14
13	Davangere	23	3	2	3	1	5	37

MVS Progress details

Physically

progress

DPR/PSR/ADM

Approval/Tender

Proposed in

Grand Total

Operation and Maintenance of MVS

Why O&M?

- The large investments made to construct utilities intended to provide facilities for water supply are generally becoming **unproductive**, mainly on account of poor Maintenance.
- If this **situation continues** even after few years, these schemes become **defunct**, and a **large amount of money is required to replace and rebuild** the system components apart from interruptions in service occur owing to the breakdown of equipment.
- The water supply boards /departments are not able to ensure that the maintenance staff follows valid practices of O&M.
- Generally the management of Water supply systems in the water authorities is receiving relatively **lower priority.**

Criteria to be considered for the proper Operation and Maintenance of MVS

- Establishment Charges: Key Personals (Pump operators, Valve man, Electrician, Watchman) according to labour dept rates
- <u>Electricity Charges</u>: Pumping machineries (Head work, Treatment plant and others)
- Maintenance of Civil work: 0.25% as per CPHEEO Manual
- Maintenance of Electro Mechanical components: 2.5% as per CPHEEO Manual
- <u>Consumables</u>: Chlorination (Bleaching powder), Alum, transformer oil, etc..
- Transportation, Communication and Accommodation Charges
- Water quality test, report generation and other Stationery etc

Aerial view of MVS Scheme Video





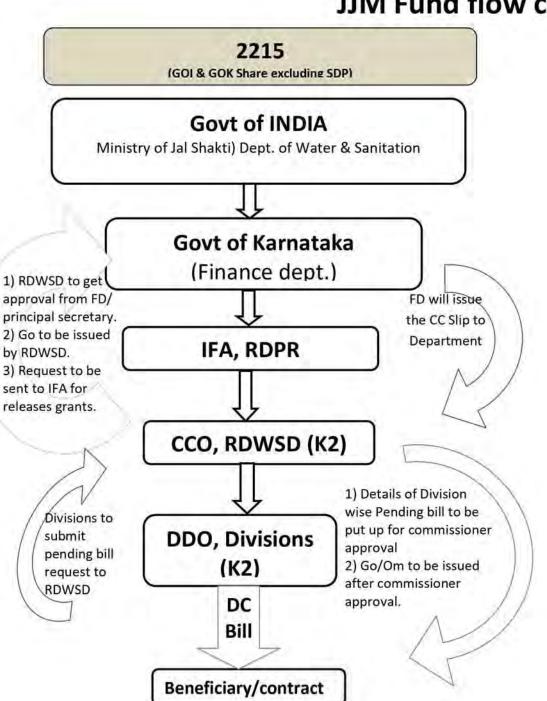


Roles and Responsibility of CAO

- Act as DDO, Internal Auditor and Fund Manager
- To monitor component wise release and expenditure of 2215 and 4215 grants
- Ensuring the opening and proper maintenance of Bank Accounts of RDW&SD
- Ensuring the maintenance of monthly expenditure and summaries of transaction
- Coordination with ZP's, EE's, Bank, FD for timely channelization of fund-flow
- Monitoring expenditure on various schemes of Water and Sanitation against their planned budget
- Preparation of bills to draw funds from treasury and to deposit in main bank account
- To draw the salaries of RDW&SD Staff and Officers through HRMS and performing as nodal officer for HRMS
- Collection and compilation of utilization certificate and submission of UC's to GoI

- Preparation and maintenance of all required document for submitting to C&AG
- Maintain Budgetary Control Register, Cash Book
- Reconcile Receipts and Expenditure with Bank Accounts opened under both the schemes
- The State has effectively implemented PFMS from the month of February 2020 and monitoring of release and expenditure of CSS funds under single nodal account
- ▶ Monitoring of release and expenditure of state funds through K-2
- Timely payment of statutory deductions and filing returns
- Issuing of form-16 and form-16A
- Any other work entrusted by Commissioner

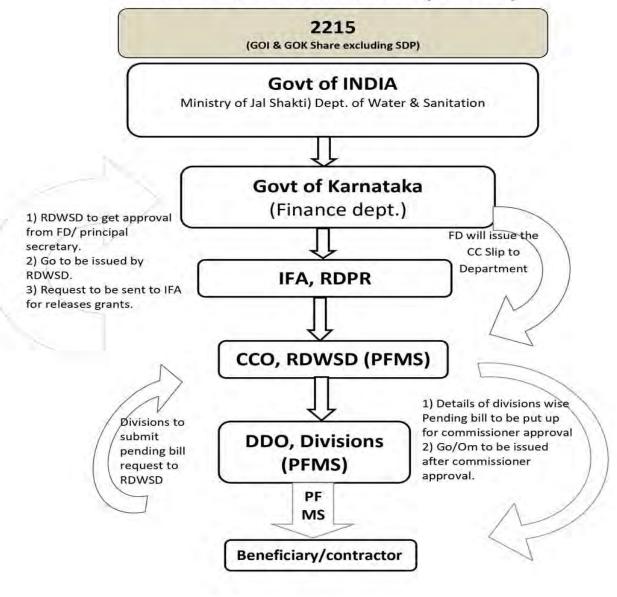
JJM Fund flow chart (Khajane-2)



Govt of Karnataka (Finance dept.) IFA, RDPR CCO, RDWSD (K2) **DDO**, Divisions (K2) DC Bill Beneficiary/contract

4215 Fully GOK including SDP

JJM Fund flow chart (PFMS)



Role of in Accounts in SBM-G scheme

- Swachh Bharat Mission (Gramin) is a Centrally Sponsored scheme and grants released as per 60:40 ratio.
- Based on the demand, the amount is released to the 30 Districts through e-FMS Bank Account to facilitate payment of incentive amount directly to the bank account of IHHL beneficiaries. (DBT mode in Panchantantra software)
- ➤ Based on the demand and with the administrative approval of the Commissioner, the component-wise grants (Centre and State Share) are released to 30 District through Scheme offline Bank Account towards the following: -
 - For construction of Community Sanitary Complexes.
 - For establishment of SWM & LWM units at GPs.
 - For IEC/HRD activities.
 - Gobardhan, FSM & PWM
 - MRF (Material Recovery Facility Centre)
 - For Construction of School & Anganwadi Toilets

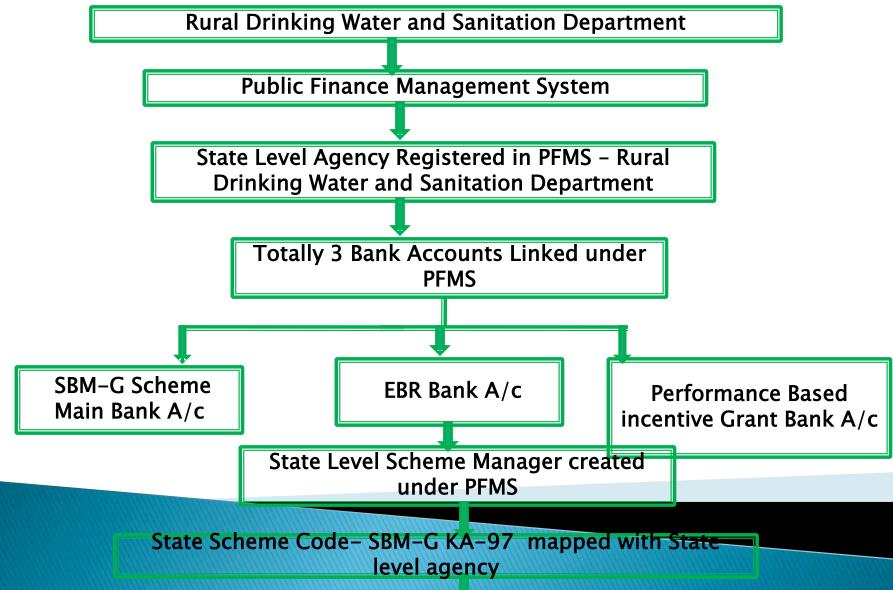
Role of Accounts in SBM-G scheme

- ➤ Maintenance of 4 bank A/c's at the State Level (SBM-G Main, EBR & PBI and UNICEF)
- Maintenance of month-wise cash book (including Flexi Account) and reconciliation in Tally software at State Level
- As per GoI guidelines district audit report and Utilization certificate will be collected and consolidated along with State office audited reports with the approval of the Principal Secretary, RD&PR and the same is submitted to GoI (SBM-G Main, EBR & PBI Grants)
- ➤ IEC & HRD payments are made with admin sanction order and component-wise expenditure statement is maintained at State level and same is being updated in IMIS
- Monitoring monthly professional tax and GST payment and returns
- Quarterly filing of TDS
- Quarterly submission of FACE & SOE form to UNICEF, Hyderbad for reimbursement
- > Submission of Provisional UC as requested by the GoI from time to time
- ➤ Withdrawal and re-allocation of grants as per direction & approval of the commissioner
- ➤ Principal Auditor General of Accounts (AG Audit) scheme audit compliance is being submitted to audit paras

Role of in Accounts in SBM-G scheme

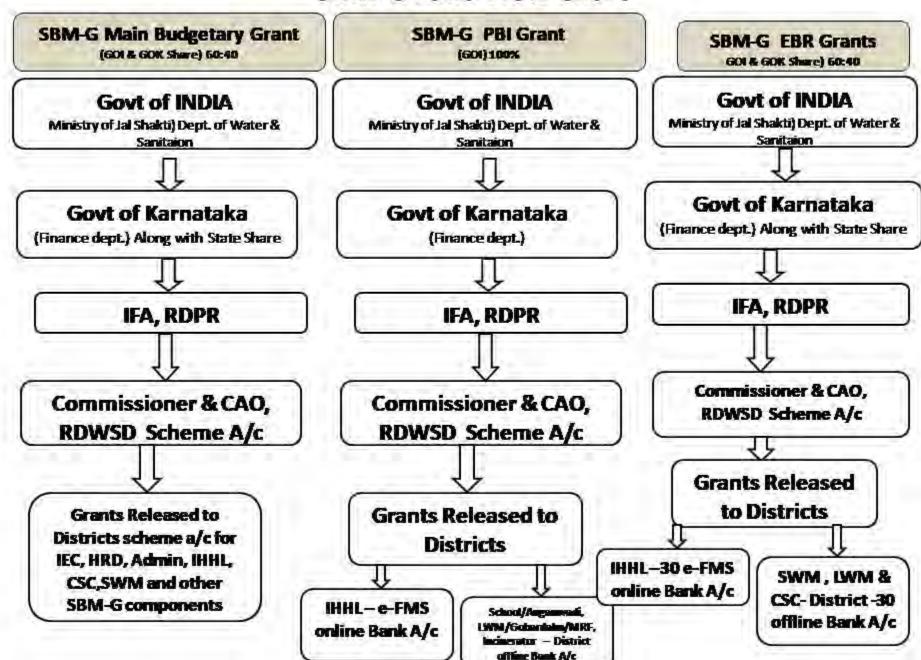
- Public Finance Management System (PFMS) has to be implemented as per new Government of India Single Nodal Account user manual
- ➤ Dedicated PFMS Technical Team has been setup for implementation of PFMS under **SBM-G** (State Office, 31 Districts, 6002 GPs, & 176 TPs) and **JJM** (State Office & 32 Divisions)
- ➤ PFMS circular has been issued to all districts for implementation of PFMS, to exhaust the available unspent grants at ZP/TP/GPs & other implementing agencies and submit the UCs accordingly.

PFMS FLOW CHART



30 District's are registered and Mapped to 3 state Nodal Bank Accounts & 6002 GPs *3 Bank Accounts = 18006, out of these, 17100 GPs (Child Level agency) mapped to SNA Bank Accounts and balance of 902 GPs mapping is under process

SBM-G Fund Flow Chart



DELEGATION OF FINANCIAL POWER

ಸರ್ಕಾರದ ಆದೇಶ ಸಂಖ್ಯೆ: ಎಫ್ಡ್ 03 ಟಿ.ಎಫ್.ಪಿ. 2018 ದಿನಾಂಕ:14.05.2018 ರ ಆದೇಶದ ಅನುಬಂಧದಲ್ಲಿನ ಕ್ರಮ ಸಂಖ್ಯೆ:2 ರಲ್ಲಿ ಸರ್ಕಾರದ ಕಾರ್ಯಕ್ರಮ/ ಯೋಜನೆಗಳ ಅನುಷ್ಟಾನಕ್ಕಾಗಿ ಸೇವೆಗಳ ಸಂಗ್ರಹಣೆಗಾಗಿ ಪ್ರಸ್ತುತ ಇರುವ ಅಧಿಕಾರವನ್ನು ಈ ಕೆಳಕಂಡಂತೆ ಪರಿಷ್ಕರಿಸಲಾಗಿದೆ.

ಕ್ರ ಸಂ.	ಇಲಾಖಾಧಿಕಾರಿಗ ಳು	ಪ್ರಸ್ತುತ ಇರುವ ಅಧಿಕಾರ	ಪರಿಷ್ಕೃತ ಅಧಿಕಾರ
1.	ಇಲಾಖಾ ಮುಖ್ಯಸ್ಥರು	ಆಯವ್ಯದ ಅನುದಾನದ ಲಭ್ಯತೆಗೊಳಪಟ್ಟು ಒಂದು ಬಾರಿಗೆ ರೂ.5.00 ಲಕ್ಷಗಳು	ಆಯವ್ಯದ ಅನುದಾನದ ಲಭ್ಯತೆಗೊಳಪಟ್ಟು ಒಂದು ಬಾರಿಗೆ ರೂ.100.00 ಲಕ್ಷಗಳು
2.	ವಿಭಾಗೀಯ ಮಟ್ಟದ ಅಧಿಕಾರಿ	ಆಯವ್ಯದ ಅನುದಾನದ ಲಭ್ಯತೆಗೊಳಪಟ್ಟು ಒಂದು ಬಾರಿಗೆ ರೂ.2.00 ಲಕ್ಷಗಳು	ಆಯವ್ಯದ ಅನುದಾನದ ಲಭ್ಯತೆಗೊಳಪಟ್ಟು ಒಂದು ಬಾರಿಗೆ ರೂ.50.00 ಲಕ್ಷಗಳು
3.	ಜಿಲ್ಲಾಮಟ್ಟದ ಅಧಿಕಾರಿ	ಆಯವ್ಯದ ಅನುದಾನದ ಲಭ್ಯತೆಗೊಳಪಟ್ಟು ಒಂದು ಬಾರಿಗೆ ರೂ.1.00 ಲಕ್ಷಗಳು	ಆಯವ್ಯದ ಅನುದಾನದ ಲಭ್ಯತೆಗೊಳಪಟ್ಟು ಒಂದು ಬಾರಿಗೆ ರೂ.10.00 ಲಕ್ಷಗಳು

New TDS Rates & Procedure With Effect From 1st July, 2021

- ➤ Income tax department has introduced new provisions with reference to Tax deduction at source
- Sec 206 AB Applicable to Tax Deduction at Source
- Sec 206 CCA Applicable to Tax Collection at Source
- ■These provisions will come into effect with effect from 1st July 2021

- ■Declaration and Confirmation of filing of Income Tax Returns for FY 2018-19 and 2019-20 as per section 206AB(3) in a precribed format.
- ■IT Acknowledgement or screenshot from Tax portal for having filed the tax return. These provisions will come into effect with effect form 1st July 2021.
- In case the deductee has not filed the tax returns and covered under section 206AB, then, twice the rate specified in the relevant Section, at the rate of 5% which ever is higher has to be paid.
- •Format Circulated.

Date:

Dear Sir / Madam,

Ref: Declaration and Confirmation of filing of Income Tax Returns for FY 2018-19 and FY 2019-20 as per section 206AB (3)

I, Mr / Mrs. (Name and Designation of the declarant), ------, do hereby state, submit and confirm as follows:

SI No	Particulars	Description
01	Name of our organization	
02	IT PAN	
03	Email id for communication	
04	Contact No for communication	
05	Our Income tax Jurisdiction is	

6. We have filed the Return of Income for FY 2018-19 and FY 2019-20 as per the details mentioned below:

ParticularsFinancial Year	Financial year 2018-19	Financial Year 2019-20
Date of Filing the Tax Return		
Due date of filing the Tax return		
Acknowledgement Number		
TDS / TCS		

7. I/ We further agree to indemnify, defend and hold good your organization from any liability (including towards tax, interest, and penalty) that may arise, or may be asserted against your organization, on account of the Section 206AB of the Income Tax Act, 1961due to any misrepresentation made by us through this declaration.

Enclosures:

- PAN card copy
- IT Acknowledgement or Screenshot from Tax portal for having filed the tax return

Yours sincerely,

For

Name: Designation:

2014 ರಿಂದ 2018, ಹಾಗೂ 2018–19, 2019–20ನೇ ಸಾಲಿನ ಮಹಾಲೇಖಪಾಲರ ಲೆಕ್ಕಪರಿಶೋಧನೆಯಲ್ಲಿ ಇಲ್ಲಿಯವರೆಗೂ ಶಾಖಾವಾರು ಅನುಪಾಲನಾವರದಿಯನ್ನು ಸಲ್ಲಿಸದಿರುವ ವಿವರ.

ಶಾಖೆ	ಅವಧಿ	ಕಂಡಿಕೆಗಳು	ಷರಾ
ಮುಖ್ಯ ಇಂಜಿನಿಯರ್ ಶಾಖೆ	2014–18 2018–19, 2019–20	part IIA I, II, III part IIB, XIV, XVII (5 Paras) Part IA, I, II, part IIB, I (3 Paras)	ಭಾಗಶಃ ಉತ್ತರಗಳನ್ನು ನೀಡಿದ್ದು, ಈ ಕುರಿತು ದಿನಾಂಕ 28–7–2021ರಂದು ಮುಖ್ಯ ಇಂಜಿನಿಯರ್ಇವರೊಂದಿಗೆ ನಡೆಸಿದ ಚರ್ಚೆಯಲ್ಲಿ ಸೂಕ್ತ ಉತ್ತರವನ್ನು ಕೊಡಲಾಗುವುದೆಂದು ತಿಳಿಸಿದ್ದಾರೆ.
ನಿರ್ದೇಶಕರು (ISA)	2018–19, 2019–20	part IIB, IXC (1 Para)	ಯಾವುದೇ ವಿವರ ಒದಗಿಸಿಲ್ಲ.
ರಾಜ್ಯ ತಾಂತ್ರಿಕ ಸಂಯೋಜಕರು (WQMSP)	2014–18	part IIA, VII, IX a,b,d (2 Paras)	ಜಿಲ್ಲೆಗಳಿಂದ ಮಾಹಿತಿ ಪಡೆಯುತ್ತಿರುವುದಾಗಿ ತಿಳಿಸಿದ್ದಾರೆ

THANK YOU



AGENDA

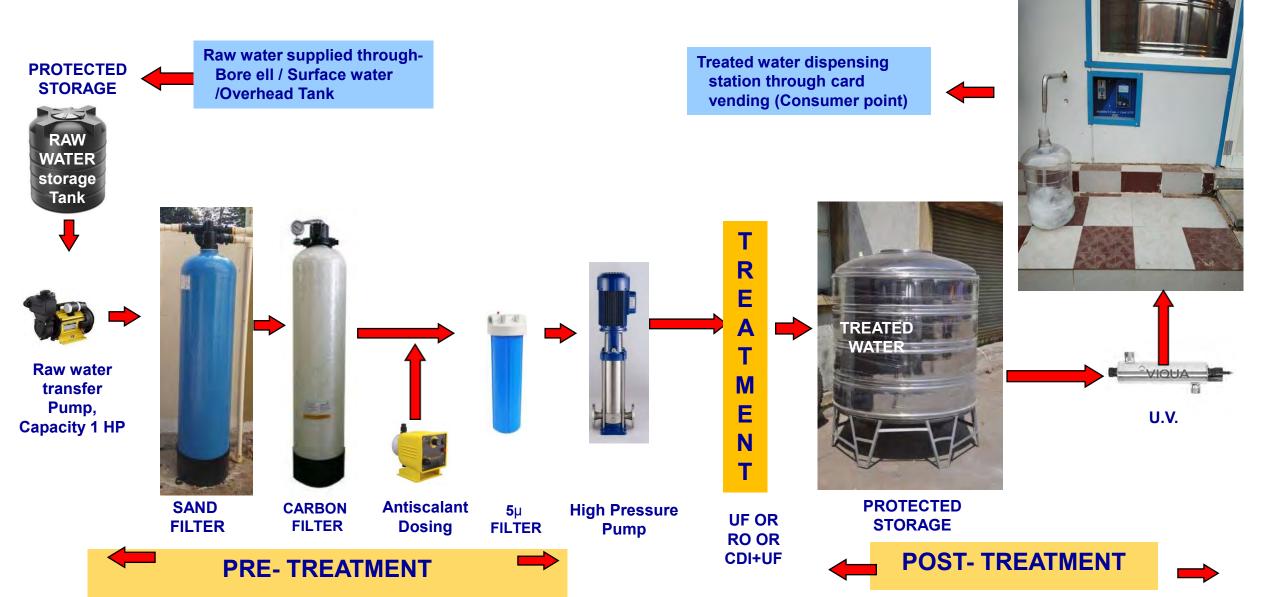


- 1. ALTERNATE TECHNOLOGIES
- 2. TECHNOLOGY SELECTION TOOL
- 3. WPP ASSESSMENT
- 4. WPP MONITORING AND EVALUATION
- 5. REMOTE MONITORING SYSTEM



STANDARD WPP PROCESS



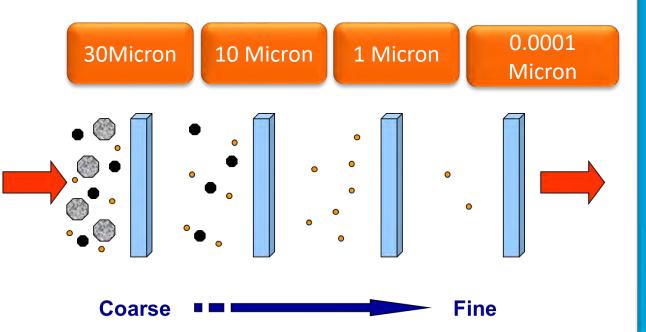




PRE-TREATMENT



A "stepped" filtration approach is usually the most efficient and effective



BENEFITS

- Sequential removal of impurities that will help improve RO performance.
- If the impurities are not removed then fouling by suspended particles & Scaling by inorganic salts will exceeded saturation and leads to
 - Reduction of water flow.
 - Increase in pressure drop.
- Monitoring as per SOP will maximize the life of RO & minimize downtime.
- Proper maintenance required to ensure
 - Quality of water supplied to RO
 - Off odor removal
 - Biological fouling

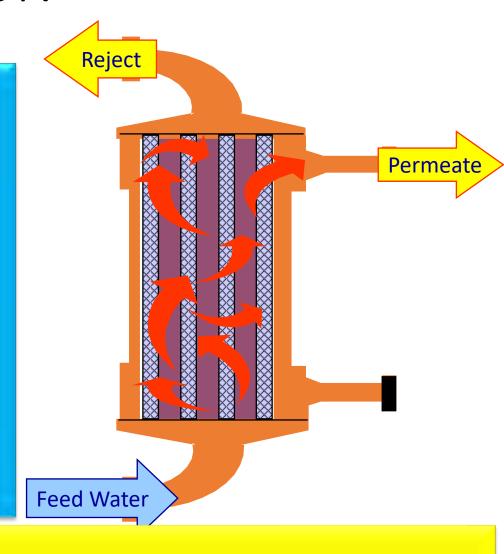


ULTRAFILTRATION



OVERVIEW

- Separation mechanism Primarily "sieving"
- Removal of physical contaminants Color, Turbidity,
 Colloid components and particulate matter
- Removal of microbiological contaminants Bacteria,
 Protozoa



DISADVANTAGE

• Does not remove dissolved salts so it will not reduce parameters such as TDS, alkalinity etc

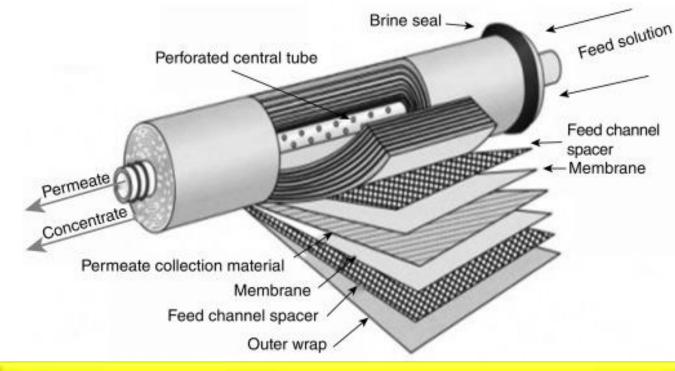


REVERSE OSMOSIS



CHALLENGES

- Membrane Fouling
 - Caused by particulate, colloidal & biologic material that binds to the membrane surface and causes blockage.
- Membrane Scaling
 - Caused by the increase in concentration of salts beyond their saturation level - this factor directly affects recovery levels.
- Membrane Degradation
 - Caused by hydrolysis, microbial attack, or chemical solubilization of the membrane material



DISADVANTAGE

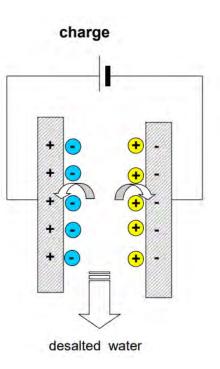
- Approx 40% 50% of the feed water goes to drain.
- Requires high pressure pump approx 10 bar

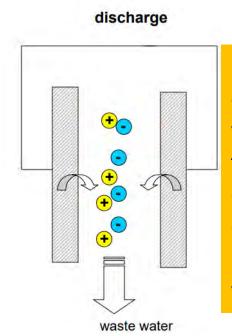


CAPACITIVE DE-IONIZATION



Salty water flows through a pair of electrodes.





Once the ion exchange coating gets saturated with ions, by reversing the polarity of the electrodes the electrodes are regenerated and the water is drained.

The ions gets attracted towards the electrode of opposite polarity and get trapped in the double layer region and water flows through the cell.

ADVANTAGES

- Out put TDS can be controlled.
- Can be operated with solar power.
- The system is completely automatic.

DISADVANTAGES

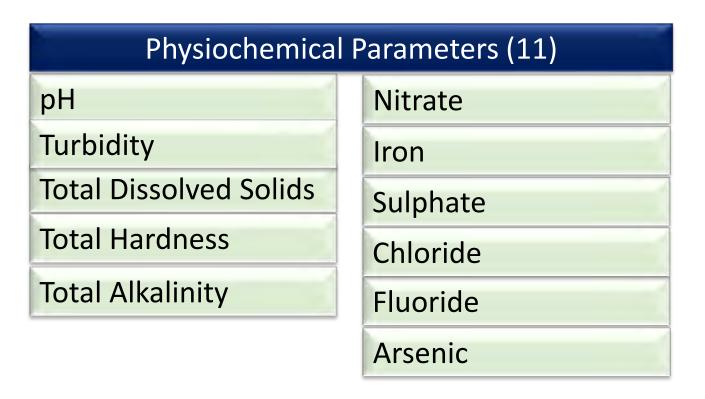
- The technology is new and there are very few players hence it is vendor dependent.
- The waste water generated will have higher TDS value due to the concentration of dissolved salts and cleaning chemicals.



DESIGN BASIS — FOR TOOL



- 13 Raw water quality parameters were used (Physiochemical 11 and Microbiological 2)
- The 3 technologies identified were shortlisted based on ease of operation and cost
- Input of the 13 parameters will provide an output of the appropriate technology.
 Selection is based on the highest score.



Micr	obiological Parameters (2)
	Total Coliform
	E-Coli



ASSIGNED WEIGHTAGES



Typical Wastage During Treatment	Ultra Filtration	Coagualtion	Ozonation	Reverse Osmosis	lon Exchange	Nano Filtration	Electro dialysis
During Treatment	10%	5%	5%	50%	10%	30%	15%
Score	4	5	5	2	4	3	4

Higher score indicates low wastage

Evaluation Parameters	Weightage	Ultra Filtration	Coagualtion	Ozonation	Reverse Osmosis	lon Exchange	Nano Filtration	Electro dialysis
Water Wastage	30%	4	5	5	2	4	3	4
Operational Cost (Opex)	15%	5	4	4	2	2	3	2
Serviceability & Availability of Spares	15%	5	.5	4	4	3	3	2
Capital Cost (Capex)	10%	5	4	4	3	3	2	1
Ease of Adoption	10%	4	2	5	5	3	4	2
Consumables - Ease of Availability	10%	5	5	3	5	4	5	3
Reliability - Consistency of Quality	10%	5	4	3	5	2	5.	3.
Total Score	100%	4.60	4.35	4.20	3.30	3.15	3.40	2.70



TECHNOLOGY SELECTION TOOL

Permissibl Enter



S.No.	Key Water Quality Parameters	Unit	e Limits (BIS 10500:2012	Feed Vater Quality	Feed ♥ater > Limit
Α				Off Limit	
Physical	/ Organoleptic Parameters				
1	pH Value - All technologies will perform Between 6.5 to 8.5. Additional dosing system has to be provided if out of limit		6.5 - 8.5	7.5	O
2	Turbidity	NTU	1	2	0
3	Total Dissolved Solids	mg/L	500	400	0
Microbio	ological				
4	E. Coli	per 100 ml	0	0	0
5	Total Coliforms	per 100 ml	0	0	0
General I	Parameters				
6	Chloride	mg/L	250	25	0
7	Fluoride	mg/L	1	0.5	0
8	Iron	mg/L	0.3	0.3	0
9	Nitrate	mg/L	45	2	0
10	Sulphate	mg/L	200	22	0
11	Total Alkalinity to Methyl Orange	mg/L	200	75	0
12	Total Hardness	mg/L	200	90	0
Toxic Sul	bstances				
13	Total Arsenic (as As)	mg/L	0.01	0	0
			13	13	0

WEIGHTED AVERAGE SCORE (MAX - 5)					
Recommended Technology (Ranked in order of preferance)	Total Score				
Ultra Filtration	4.6				
Reverse Osmosis	3.3				
CDI with Ultra Filteration	3.3				





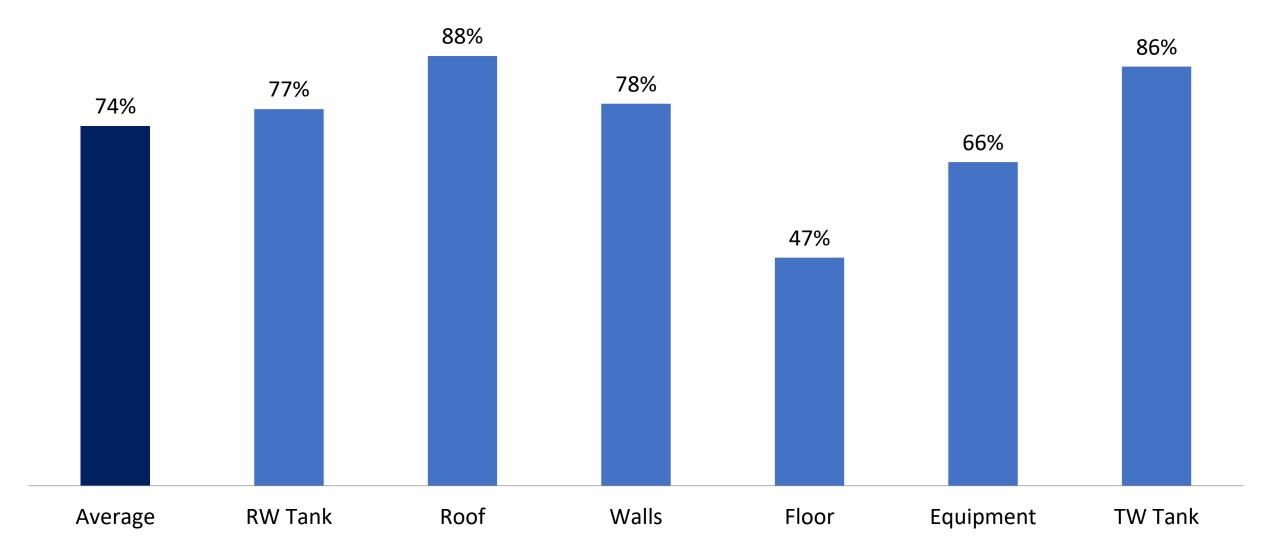


- **1. Hygiene and cleanliness** Floor, Wall ,Roof , Equipment's ,Raw water and Treated water storage tank .
- 2. Quality Raw and Treated water testing as per frequency.
- **3. Operation** Monitoring of operational parameters, Working status of Antiscalent dosing pump and UV.
- **4. Preventive Maintenance** check motor current value, cartridge replacement.
- **5. Breakdown maintenance** Replacement of pumps or change of membrane.
- **6.** Sales data Daily sales of treated water.
- 7. **Documentation** Document of Operational parameters, Quality, Sales volume, Preventive and breakdown maintenance and hygienic status.



INTERNAL HYGIENE

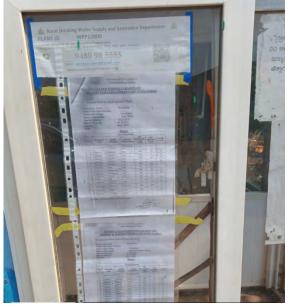






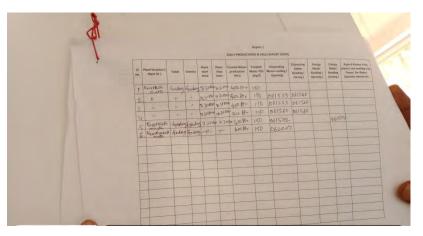
DOCUMENTATION





1	Aquas	Safi Puri	fication	Systen	ns Pvt Ltd.,
		Daily Pla	nt Opera	ation Da	ita
	Auto	matic Pla	int (Auto	matic S	tart/Stop)
Date	Product TDS (PPM)	Product Flow (LPH)		Pressure (PSI)	Report Reason if the pla not working (No power water, Operator absent
3020 3 3020 3 3020 3 3020 3 3020 3	31 30 20 30 30 30 31 30 29 29 31 30 29	600 600 500 500 500 500 500 500 500 500	1800 1400 1400 1400 1400 1400 1400 1400	100 100 100 100 100 100 100 100 100 100	



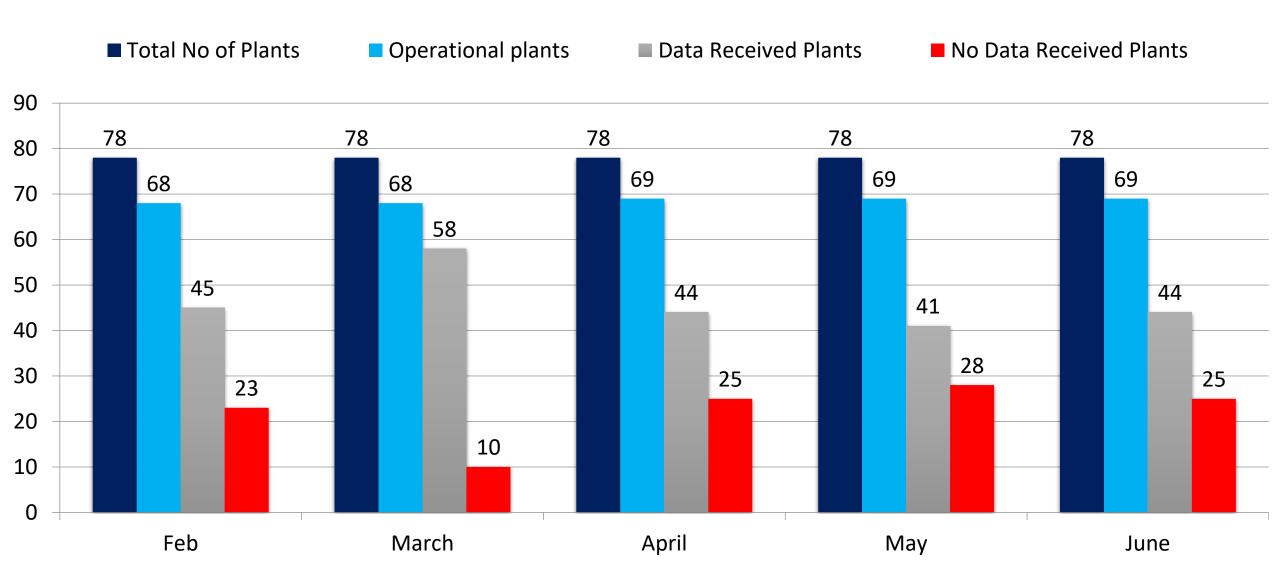


CUSTON	MER DETAILS A FORESK	COMPLAIN	
CUSTO	A BOSEST		IT DETAILS AND LOGGED BY :
		97	
	£ 16091376 5		535 254619, water Man
	0302120	1 m mu	ಕೆಕ್ಕಿಪ್ರಕಾರೆ.
	ಚಿತ್ರಗಳುತ್ತ	352 014	a Siegero
		500	Total Salar Sa
9	Hygenic = Inside	500 1000 PH RO+UF PLANT CHEC	
SL NO	PARAMETER	STATUS / CONDITION / UNIT	REMARK
1	RAW WATER SOURCE	Borewel Pepeline	aso PPM TDS
2 IN	NPUT VOLTAGE / ELECTRICITY	240 Voltage/6	and Electricity
3	RAW WATER TANK	2000 LAT HOPE	Tank.
4	RAW WATER PUMP	DE HO I FON	hake 3-7 AMOX
5	PRESSURE SAND FILTER	Dual Madia Filt	430 pm 5:30 pm
6	ACTIVATED CARBON FILTER		-
7	MICRON FILTERS	20" Slim Jumbo	F? Hers
8	HIGH PRESSURE PUMP	CRT 2/11 1.24	1.0 HP
9 R	TO / UF MEMBRANE & HOUSINGS	4040 200 NO	
10	ROTO METERS	Good Condition	, ,
11	PRESSURE GAUGES	Good Condition	
12	PANEL BOARD	Single Pase Pr	risiative
13	DOSING PUMP, CHEMICAL	working cond	ition,
14	LPS / HPS	work / work.	In Olal
15	SSTANK	1000 Ltr. Stain	LUIS STEET.
16	FLOATY	working	0.21
17	DISPENSING PUMP	0.5 Hp pump	No. de constant de la
18	SV / FLOW SENSOR	working Cone	4 1 10 10 10 10 10 10 10 10 10 10 10 10 1
19	COIN / CARD SYSTEM	Both Condition	
20			
20	OTHERS / LEAKAGES IF ANY		The second secon



WPP OPERATIONAL STATUS







SCHEDULED COMPLIANCE



	Visits Score March							
No of Villages	No of Visits	Performan ce Score	Remarks					
18	1 Time	31%	Unacceptable		Immunication			
16	2 Time	28%	Needs Improvement	59%	Improvement Required			
16	3 Time	28%	Below target					
7	4 Time	12%	Target	41%	Good work			
1	> 4 Visits	2%	Above target					

Visits Score April							
No of Villages	No of Visits	Performance Score	Remarks				
18	1 Visit	41%	Unacceptable	57%	Improvement Required		
7	2 Visits	16%	Needs Improvement				
12	3 Visits	27%	Below target	43%	Good work		
4	4 Visits	9%	Target				
3	> 4 Visits	7%	Above target				

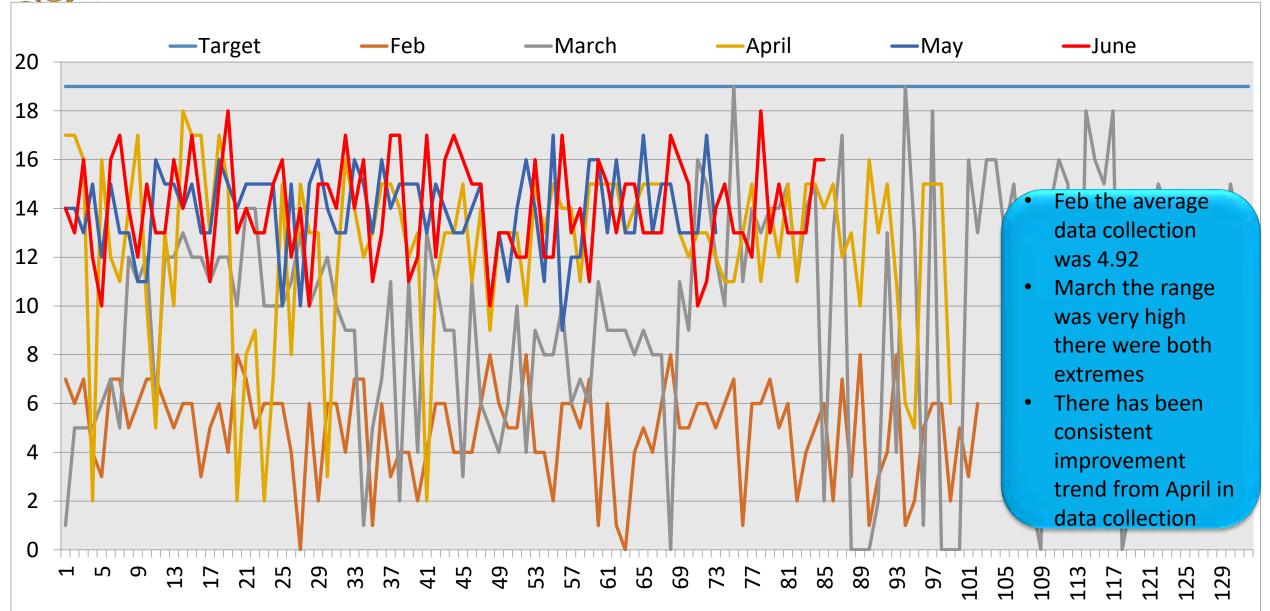
<u>Visits Score May</u>							
No of Villages	No of Visits	Performance Score	Remarks				
17	1 Visit	41%	Unacceptable		Imanavoraont		
			Needs	80%	Improvement Required		
16	2 Visits	39%	Improvement		Required		
8	3 Visits	20%	Below target				
0	4 Visits	0%	Target	20%	Good work		
0	>4 Visits	0%	Above target				

<u>Visits Score June</u>							
No of Villages	No of Visits	Performance Score	Remarks				
18	1 Visit	41%	Unacceptable		les man composet		
			Needs	82%	Improvement Required		
18	2 Visits	41%	Improvement		Required		
4	3 Visits	9%	Below target				
2	4 Visits	5%	Target	18%	Good work		
2	> 4 Visits	5%	Above target				



DOCUMENTATION BY WPPS



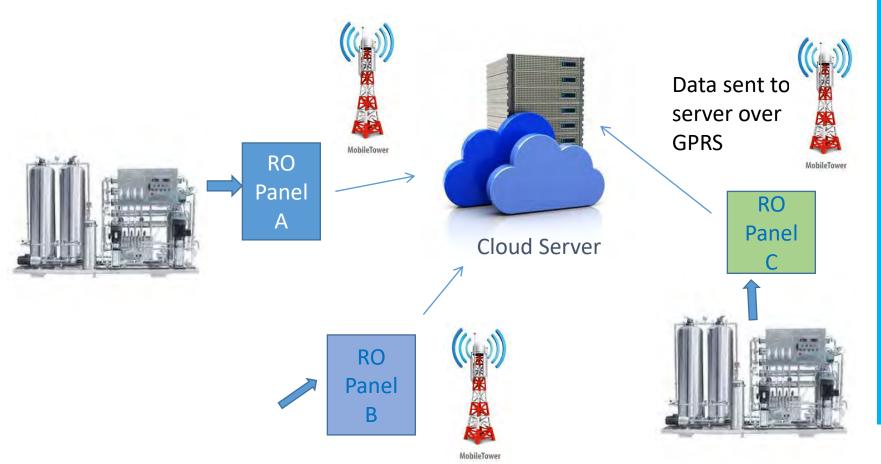






Remote Monitoring System

Operation Schematic GPRS



Water Production/ dispensing Report

- Liters Dispensed per hour / day
- Plant running status
- TDS of the Water dispensed



RMS - DASHBOARD



Search:

In Status

Since

1 day

5 days

54 mins

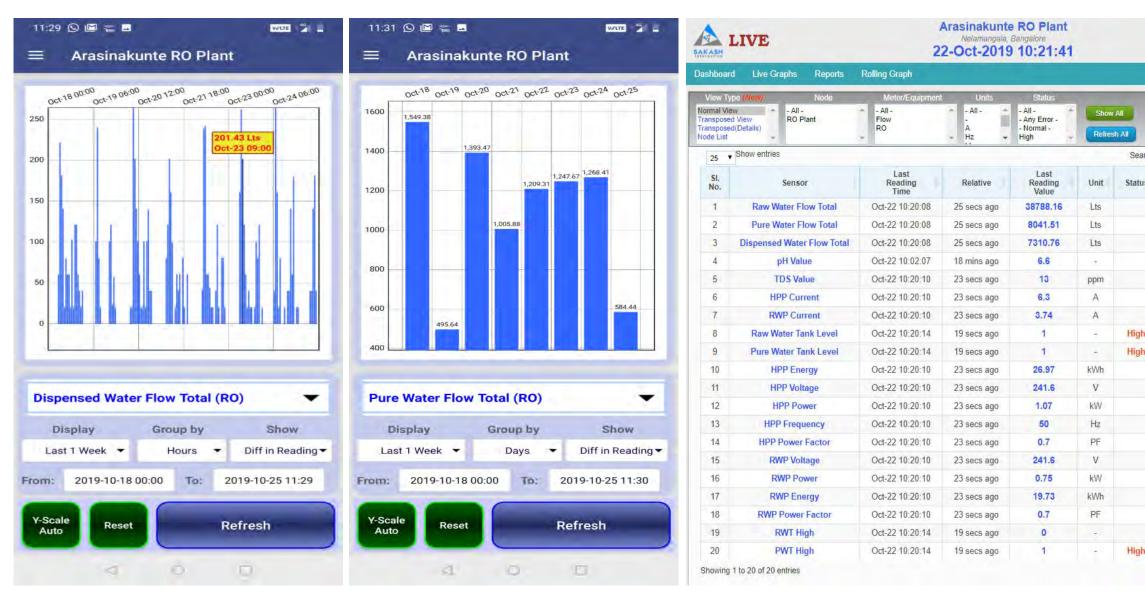
Previous

Trend

Graph

×

×







Thank You