

PMS & WQMIS

PROJECT MONITORING SYSTEM & WATER QUALITY MONITORING INFORMATION SYSTEM



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INTRODUCTION

Data igital transformation has become a cornerstone of modern Urban Governance, particularly in the domain of Project monitoring and Water management. In Kerala, a comprehensive initiative has been launched to revolutionize Urban Water Management through digital solutions, covering critical areas such as sewage and septage management, water body rejuvenation, green space development, and water quality monitoring. This transformation initiative represents a strategic shift from traditional manual processes to an integrated digital ecosystem, designed to address the growing complexities of urban water management while ensuring sustainable development. The initiative particularly focuses on implementing advanced digital solutions across all 93 Urban Local Bodies in Kerala, marking a significant step toward smart and efficient urban governance.

OBJECTIVES

To drive digital transformation in Urban Water Management, Sewage and Septage Management, Water Body Rejuvenation, Green Spaces development, Water Circularity, and Water Quality Monitoring under the Blue-Green Initiative.

To re-engineer workflows, this project eliminates inefficiencies, automates processes, and enables **real-time tracking** of project execution and water quality metrics. **Real-time analytics and centralized digital platforms** enhance **transparency**, **accountability**, **and data-driven decision-making**.

To ensure streamlined operations, optimized resource utilization, and a user-centric approach, setting a benchmark for sustainable and efficient urban governance within defined timeframes. Additionally, the system facilitates advanced water quality monitoring, enables early detection of contamination, ensures regulatory compliance, and reduces monitoring costs while promoting ecological balance and safe water standards.

To ensure that the stakeholders and community members can access data through a centralized data-driven system for secure, transparent and reliable data.

SALIENT FEATURES

Centralized Data Management System

- Advanced unified dashboards for multi-dimensional project tracking (timeline, cost, deliverables, milestones)
- Integration capabilities with diverse data sources, surveys, and geospatial systems
- Automated reporting tools with customizable insights

Digital Transformation Infrastructure

- Streamlined data analytics processes with optimized approval workflows
- Monitoring of project progress and water quality metrics
- Centralized digital platform eliminating data silos and enhancing stakeholder collaboration

Advanced Analytics & Decision Support

- Predictive insights enabling data-driven decision-making
- Analysis of water quality parameters
- Integrated geospatial monitoring for physical progress and environmental impact assessment

Stakeholder Engagement & Accessibility

- Role-specific interfaces for regulators, researchers, and public users
- Citizen engagement applications for water quality reporting and data access
- Mobile-optimized dashboards with collaborative tools
- Seamless Data Integration & Efficiency linked to other relevant official Government websites ensures real-time data exchange, reducing redundancy and improving decision-making efficiency.
- The connection to various relevant public portals ensures citizens tracking project progress, access relevant information, fostering trust and accountability.
- Enhanced Service Delivery & Sustainability by Integrating with other official systems enabling better resource allocation, compliance monitoring, water connection requests, water metering data sets, requests for septage vehicles and allocation, complaint registering and troubleshooting, and long-term sustainability planning, ultimately benefiting the broader community.

SALIENT FEATURES

Security Framework

- Authentication and Access Control: Role based access control with strong password policies and session management with secure timeout policies (automatic logout for inactive users), Bute Force protection (Captcha after multiple failed login)
- Data Protection: End-to-end encryption for sensitive project data, Secure backup systems and Cloud hosting
- Infrastructure Security: Secure development, staging, and production environments
- **Compliance and Documentation:** Employee security training programs and Standard Operating Procedure (SOP)

Sustainability Framework

- Environmental monitoring aligned with Sustainable Development Goals (SDGs)
- Paperless processes and green technology integration

Standardization & Process Excellence

- Implemented SOPs and templates for operational consistency
- Digital collaboration tools and shared project repositories
- Streamlined approval processes reducing operational bottlenecks

Quality Management & Monitoring

- Automated project audit trails ensuring transparency and accountability
- Historical data analysis capabilities
- Progress and delays in project implementation for effective intervention
- Alert systems for water quality parameters

ARCHITECTURE OF THE PROJECT

Our comprehensive solutions have revolutionized Government operations through digital transformation.

The Comprehensive solution has two subcomponents:

- 1. Project Management & Monitoring System
- 2. Water Quality Monitoring System.

PROJECT MANAGEMENT & MONITORING SYSTEM

The Project Management & Monitoring sub-system comprises a comprehensive web application integrated with a Power BI dashboard, enabling end-to-end project oversight and real-time decision-making capabilities.

Process Re-engineering Highlights

- Digitized the entire project lifecycle management process, eliminating manual tracking and paper-based workflows
- Implemented automated milestone tracking and alert systems
- Established advanced collaboration capabilities across departments
- Created centralized document management and version control to prevent data loss
 and duplication
- Integrated data analytics for predictive project health assessment

Impact and Improvements

- 1. Efficiency Gains:
 - Reduced project initiation time by 80%
 - Decreased documentation processing time by 80%
 - Automated report generation, saving approximately 20 hours per week
- 2. Cost Benefits:
 - Reduced operational costs through paperless workflows
 - o Resource allocation inefficiencies are minimized

ARCHITECTURE OF THE PROJECT

- Reduced the time for getting details and documents from conventional records
- 3. Quality Enhancement:
 - Improved project delivery accuracy through standardized processes and time frames
 - o Enhanced data accuracy through automated validation
 - Reduced error rates in project reporting by 90%

WATER QUALITY MONITORING SYSTEM

The Water Quality Monitoring subsystem includes a **Mobile application** for field data collection, a **Web application** for central monitoring and control, and a **Power BI dashboard** for analytics, reporting, and alert system for quality violations.

Process Re-engineering Highlights

- Transformed manual data capturing processes into digital workflows
- Implemented GPS-based sample collection tracking
- Introduced automated quality parameter analysis and interpretation
- Established advanced monitoring and alert mechanisms
- Created data-driven decision support system

Impact and Improvements

- 1. Service Delivery:
 - o Digital water quality monitoring across locations
 - Immediate alert generation for quality deviations
 - Reduced response time to quality issues by 70%

ARCHITECTURE OF THE PROJECT

- 2. Data Analysis:
 - Real-time analytics for trend identification
 - Predictive modelling for quality parameters
 - Historical analysis for seasonal variations
 - Automated compliance reporting
- 3. Operational Excellence:
 - o Mobile App based water quality data capturing & Surveillance
 - Improved sample collection efficiency by 80%
 - Enhanced resource utilization through route optimization

DIGITAL TRANSFORMATION ACHIEVEMENTS

Integration and Innovation

The project demonstrates significant technological innovation through:

- Seamless integration of mobile and web technologies
- Real-time analytics and visualization capabilities
- Advanced monitoring and alerting mechanisms
- Cloud-based infrastructure for scalability
- Cross-platform accessibility and responsiveness

Measurable Outcomes

- 1. Enhanced Governance:
 - Improved transparency and accountability
 - o Better compliance with regulatory requirements
 - o Enhanced decision-making capabilities
- 2. Stakeholder Benefits:
 - o Increased citizen satisfaction through improved service delivery
 - Enhanced employee productivity and job satisfaction
 - Better interdepartmental collaboration
- 3. Sustainability:
 - Reduced paper consumption
 - Optimized resource utilization
 - o Lower carbon footprint through reduced travel
 - Improved time management

BENEFICIARIES

- AMRUT Mission
- All 93 Urban Local Bodies in Kerala
- Government Authorities and Departments
- Urban Residents and Communities
- Project Stakeholders and Contractors
- Environmental Academics and Researchers
- Trainees and Students

IMPACTS IN TERMS OF TIME & COST

- Efficient Project Monitoring, Early Bottleneck Identification and Faster Issue resolution: Automated tracking reduced manual reporting, accelerating decisionmaking and execution. It highlighted inefficiencies early, reducing delays and wastage of time. Advanced monitoring enabled early detection of issues and swift rectification of water quality issues and proper remediation
- **Streamlined Approvals:** Digitized workflows minimized bureaucratic delays, ensured faster clearances and seamless communication.
- **Improved Data Accessibility:** Centralized platforms provide instant access to project progress, funding details, and water quality data, eliminating manual data retrieval.
- Optimized and Data-Driven Resource Allocation: Real-time updates and predictive analytics optimized manpower, equipment, materials usage and prevented underutilization or overuse. It enhanced planning, reduced unnecessary expenditures, optimized fund utilization and prevented redundancy.
- **Reduced Downtime & Emergency Procurement:** Proactive issue detection minimized the idle resources and avoided last-minute disruptions.
- **Sustainability gains** through improved water circularity and resource management lower environmental and operational costs.
- Advanced fund tracking and Automated expenditure alerts: Ensures timely disbursement, preventing delays and mismanagement. Prevent overspending and cost overruns.
- **Digitization empowers beneficiaries**, enabling efficient, cost-effective urban development project management in line with AMRUT's mission.

SITUATION BEFORE THE INITIATIVE

- Manual and Fragmented Systems: Reliance on spreadsheets led to data inconsistencies, delays in data collection, and inefficiencies in reporting and decision-making.
- **Delayed Issue Detection**: Ineffective monitoring causes slow responses to project issues, fund mismanagement, and water contamination.
- **Inefficient Fund Disbursement**: Traditional tracking systems lacked transparency & accountability, leading to delays, misallocation, and difficulty in monitoring fund flow.
- **Resource Allocation Bottlenecks**: Absence of automated tracking led to frequent project delays, cost escalations, and inefficient resource use.
- **Poor Coordination**: Disjointed workflows among ULBs, contractors, and government bodies caused duplication of efforts and misaligned priorities.
- Lack of Predictive Insights: Manual processes resulted in excessive labour and material usage, increasing operational inefficiencies.
- Inadequate Water Quality Monitoring: Disorganized data collection and reporting hindered compliance, delayed responses to contamination, and posed public health risks.
- Limited Transparency & Accountability: The absence of a centralized system obstructed efficient decision-making and sustainable development.

SITUATION AFTER THE INITIATIVE

AMRUT Kerala recognized the urgency of a centralized, advanced system to automate project monitoring and water quality management. This initiative aimed to enhance transparency, accountability, improve resource utilization, and ensure better decision-making, aligning with AMRUT's sustainability goals.

- Enhanced Efficiency & Transparency: Automated workflows reduced delays by 85%, streamlining project execution and water quality monitoring. Real-time dashboards improved accessibility, accountability, and trust among stakeholders.
- **Optimized Resource Utilization**: Data-driven insights minimized wastage, improved manpower and material use, and ensured efficient fund allocation. Operational costs have been reduced by 40%.
- **Improved Decision-Making**: Real-time analytics enabled proactive responses to project delays and water quality issues, ensuring faster issue resolution.
- Higher Stakeholder & User Satisfaction: Faster service delivery, transparency, and real-time feedback increased public trust and improved governance. Over 90% of users reported better service quality.
- Regulatory Compliance & Environmental Impact: Continuous monitoring ensured adherence to environmental standards, reduced contamination response times by 50%, and promoted sustainability initiatives.
- **Scalability & Replicability**: The systems support expansion, with PMS adaptable for future projects and WQMS extendable to other regions.

This initiative has positioned AMRUT Kerala as a model for efficient, sustainable, and technology-driven urban governance in India.

GOVERNMENT PROCESS RE-ENGINEERING

(i) Percentage of Government Process Re-engineering (GPR) Introduced:

- Project Monitoring under AMRUT: 100% re-engineered
- Water Quality Monitoring & Management: 60% re-engineered
- Financial Management: 100% re-engineered
- Stakeholder Engagement: 90% re-engineered
- Overall Process Re-engineering: 90%

(ii) Process Flow Before GPR:

- Manual data collection and entry in multiple spreadsheets
- Sequential approval processes through physical files involving larger timelines
- Paper-based water quality testing reports
- Manual fund request and inefficient tracking systems
- Offline stakeholder communications
- Physical documentation storage and tedious retrieval process
- Manual resource allocation and inefficient tracking system

(iii) Process Flow After GPR:

- Digital data collection and analysis (100% automated)
- Digital workflow processing (95% automated)
- Advanced water quality monitoring system (95% automated)
- Automated fund management (100% automated)
- Digital stakeholder communication (90% automated)
- Cloud-based document management (100% automated)
- Resource optimization (90% automated)

(iv) Information/Data Flow Before GPR:

- Multiple data entry points with manual consolidation
- Physical file movement between departments
- Paper-based reporting and documentation

GOVERNMENT PROCESS RE-ENGINEERING

- Manual data aggregation for analysis
- Offline communication channels
- Delayed reporting and updates

(v) Information/Data Flow After GPR:

- Centralized digital data repository
- Real-time data synchronization
- Automated report generation
- Integrated data analytics & dashboard
- Digital communication channels between inter and intra departments
- Instant notifications and alerts

(vi) Specific Activities Removed/Deleted:

- 1. Manual Data Entry
 - Physical form filling
 - Data re-entry in multiple spreadsheets
 - Manual data verification
 - Physical file storage
- 2. Approval Process
 - Physical file movement
 - Manual signature collection
 - Document photocopying
 - Physical file tracking
- 3. Reporting
 - Manual report compilation and physical report distribution
 - Data reconciliation
 - Manual progress tracking
 - Paper-based archive maintenance

GOVERNMENT PROCESS RE-ENGINEERING

- 4. Quality Management
 - Paper-based sample logging and test reports
 - Physical result verification and manual compliance checking
- 5. Financial Management
 - Physical fund requests
 - Manual fund tracking
 - Paper-based reconciliation
 - Physical receipt storage
 - Manual audit preparation

vii) Specific Activities added/incorporated:

- Project Management & Monitoring: Implementation of a centralized digital platform with automated data entry, validation, and rea-time tracking of project progress through web applications, Mobile apps and Dashboards.
- **Centralized Dashboards**: Stakeholders can monitor project timelines, budgets, and deliverables, with automated data logging for milestones and status updates.
- Automated Alerts & Approvals: System-generated notifications/ insights for project delays, budget overruns, and approvals, with streamlined digital processes.
- Resource Optimization: Automated scheduling, resource allocation, and predictive models to identify potential risks, delays, and optimal resource distribution.
- Enhanced Collaboration: Digital platforms for interdepartmental coordination, document sharing, and virtual project review meetings.
- Water Quality Monitoring: Advanced tracking through dashboards, GIS integration for spatial analysis, and machine learning models to predict contamination risks.
- Public Engagement & Compliance: The public can access the project details and water quality data through reports and insights, automated compliance reporting, and tracking corrective actions.

CONCLUSION

These advancements ensure improved project oversight, data-driven decision-making, greater transparency and accountability in the Urban Governance system.

The implementation of these systems represents a significant leap forward in digital governance. Through careful process re-engineering and innovative technology integration, we have achieved measurable improvements in efficiency, effectiveness, and service delivery. The systems continue to evolve, incorporating user feedback and emerging technologies to further enhance government services and citizen satisfaction. These initiatives demonstrate our commitment to digital transformation and serve as a model for other government departments seeking to modernize their operations through technology-driven solutions.

AMRUT PMS User Manual



AMRUT Project Monitoring System

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SYSTEM OVERVIEW

The **Project Monitoring System (PMS)** is a robust, user-friendly platform that facilitates effective project monitoring, management, and reporting under the Atal Mission for Rejuvenation and Urban Transformation (AMRUT). The PMS tracks projects, categorizing projects with Administrative Sanction (AS) as "Main Projects" and those with technical sanction as "Packages" under their respective Main Projects. Once the main project is created each milestone is captured individually with customized data from Administrative Sanction to Site Handover and physical progress update/started to completion.



LOGIN TO PMS

The website's URL is <u>https://pms.amrutkerala.org/apanel</u>. The login page appears as soon as the website is accessed. Enter the username and password to log in to the site. After entering your username and password click on the **LOGIN** button. Based on the user's hierarchy the menus will be displayed on the left side of the page.





MY PROJECT

HOW TO CREATE A PROJECT?

- Click **MY PROJECT** from the left side menu. The listing page of projects will appear with customized filters at the top of the page.
- Click on the **NEW MAIN PROJECT** button on the right side of the page.

"A project is added to the system with basic details such as Project title, phase, sector, details of district and executing offices, and location plot on the map. When a project is initially added the status is considered as DPR Pending, when one by one the milestones are updated, the status will be updated accordingly "



Project Manageme	ent - Create Main Project] .					
			-	MoHUA Approved Cos	st			
Create Project				Capex Amount*		O&M Amount*		Total Project Cost
AMRUT Phase*	Select	•						0
Tranche /SWAP/SAAP*	Select Tranche	•		Capex Amount Brea	əkup			
Sector*	Select Sector	•		Central Share		State Share		ULB Share
Project ID-MoHUA*				0/-		0/-		0/-
Project Title*				ULB Share Breakup				
Project Description*				ULB Own Fund*		15th FC grant*		Others Specify
		4		- O&M Amount Brea	ikup			
No of Packages*				State Share*	ULB Share*	KWA Share*	15th FC gr	ant* Others
				0	0	0	0	0
District*	Select District 🗸			L				
ULB*	Select ULB 🗸							
Assembly Constituency*	Select Constituency 🗸 🖌			Location	the location	0		
Loksabha				Submit				
			-					

- The project creation page appears. Fill in the following data for the project and click on the submit button to create a new project in the system.
- As soon as submitted, the page redirects to the project profile. This page is also referred to
 as the project view page. You can navigate to the profile page of the project from the My
 Projects page by simply clicking on the project title listed

Project Profile page:

ject Milestone								
DPR Preparation	Administrative Sanction							
Profile Updation Status								
Main Project data entry progress	Sub Project Data Entry Progress							
		AS Amo	ount [Cr]	Awarded	Amount [Cr]	Exp	enditure [Cr]	
34.8%	55.6%	62	70	54	19C	0	000	
-vages								
o. Package Name			TS Amount	Tendered Amount	Awarded Amount	Expenditure	Progress Percent	tage View
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Total			5950000.00	59500000.00	54871935.00	0.00	40.48%	
oject Physical Progress								
Planned Start Date	Planned Completion Date	Actual Start Date	Actu	al Completion Date	Planned Cost	Actual	Cost P	ercentage
	20/02/2024	19/09/2022			46500000/-	18825	000/-	40.48%

THE MILESTONES OF THE MAIN PROJECT

Milestones in a project represent significant points of progress that mark critical stages in the project's timeline. There are two major milestones in the main projects and those are as follows: -

MILESTONE 1: DPR PREPARATION

• On the top of the project profile page, there is the project milestone section.

oject Management						
roject Profile Project Plan Files/ Docs	Photos Review Risks			E	it Project	
Project Milestone OPR Preparation	Administrative Sanction					
Profile Updation Status						
Main Project data entry progress Sub Project Data Entry Progress		Sub Project Data Entry Progress AS Amount [Cr] Awarded Amount [Cr]		Expenditure [Cr]	Î	
No Data	No Data	-	-	-		
P. J				Add New I	ackage	
Packages						
часкаges No. Package Name		TS Amount	Tendered Amount Awarded Amount	Expenditure Progress Percentage	View ^	
No. Package Name No Packages has been added for this proje	ct.	TS Amount	Tendered Amount Awarded Amount	Expenditure Progress Percentage	View ^ +	
No. Package Name No Packages has been added for this proje Project Physical Progress	ct.	TS Amount	Tendered Amount Awarded Amount	Expenditure Progress Percentage	View ^ v	
No. Package Name No Package hame Project Physical Progress Planned Start Date	ct. Planned Completion Date	TS Amount	Tendered Amount Awarded Amount	Expenditure Progress Percentage Actual Cost Percen	View A	
No. Package Name No Package has been added for this proje Project Physical Progress Planned Start Date -	ct. Planned Completion Date	TS Amount TS Amount Actual Start Date Actu	Tendered Amount Awarded Amount tal Completion Date Planned Cost - 0/-	Expenditure Progress Percentage Actual Cost Percentage 0/- 0%	View A	
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No. Package Name No Package has been added for this project Project Physical Progress Planned Start Date Main Project Details Project Title	Planned Completion Date	TS Amount Actual Start Date Actu	Tendered Amount Awarded Amount tal Completion Date Planned Cost - 0/-	Expenditure Progress Percentage Actual Cost Percen 0/- 0%	View A	

- Click on the **DPR Preparation** cell to update the DPR details. An un-updated DPR Preparation cell will have no fill. Once data is entered, the cell will turn blue, indicating that the data has been updated and the milestone status is updated accordingly.
- In page DPR **Preparation Milestone Data Update**, update the DPR date and relevant document and click on the **SUBMIT** button.

Home > Project > Paktage Summary > Project Milestone Update	
Project Profile Project Plan Files/Docs Photos Review Risks	Edit Project
DPR Preparation Milestone Data Update	
DPR Prepared Date * Upload DPR Doc * Choose file No file chosen	
	Submit Back
	•

- Click the BACK button beside Submit to navigate back to a pervious page.
- To view the added details, simply click on the DPR cell. The view page will appear, displaying the DPR details.

"As soon as the DPR milestone is updated the project status will be changed to DPR Prepared."

DPR REVISION

- To revise the DPR details, simply click on the DPR cell to view the information. In the modal that appears, click on the "DPR Revision" button to update the milestone details.
- Once the revision is done the initially entered data will be considered as the 0th revision and display as history on the view page.

DPR Preparation	DPR Preparation DPR Prepared Date Upload DPR Doc DPR Revision	: 15/07/2017 : Download		Revision 0 Close				
Main Project data entry progress	Sub Project Data Entry Progress	AS Amo 9.5	unt [Cr]	Awarded	Amount [Cr]	Ехр О	enditure [Cr]	
							Add New	Package
kages								
ckages 9. Package Name			TS Amount	Tendered Amount	Awarded Amount	Expenditure	Progress Percentage	View
ckages). Package Name Laying 500mm Di	line from pump house at Thammanam to OHSR a	t Kadavanthara	TS Amount 76500000.00	Tendered Amount 39000000.00	Awarded Amount 42218108.00	Expenditure 0	Progress Percentage 99 %	View
kages . Package Name Laying 500mm Di Total	line from pump house at Thammanam to OHSR a	t Kadavanthara	TS Amount 7650000.00 7650000.00	Tendered Amount 3900000.00 3900000.00	Awarded Amount 42218108.00 42218108.00	Expenditure 0 0.00	Progress Percentage 99 % 99.00%	View
kages . Package Name Laying 500mm D Total	line from pump house at Thammanam to OHSR a	t Kadavanthara	TS Amount 76500000.00 76500000.00	Tendered Amount 3900000.00 3900000.00	Awarded Amount 42218108.00 42218108.00	Expenditure 0 0.00	Progress Percentage 93 % 99.00%	View
kages Package Name Laying 500mm D Total ject Physical Progress Planned Start Date	line from pump house at Thammanam to OHSR a	t Kadavanthara Actual Start Date	TS Amount 7650000.00 7650000.00	Tendered Amount 3900000.00 3900000.00	Awarded Amount 42218108.00 42218108.00 Planned Cost	Expenditure 0 0.00 Actual C	Progress Percentage 99 % 99.00%	View Q

MILESTONE 2: ADMINISTRATIVE SANCTION (AS)

• On the top of the project profile page, there the project milestone section next to the DPR Preparation is **Administrative Sanction** milestone.

NOTE: Only after updating the DPR milestone can the AS milestone be updated. If any mandatory fields are not updated, that milestone will be considered incomplete, and the project's status will remain as the last fully updated milestone's status.

- Click on the AS cell to update the AS details of the project
- The Administrative Sanction Milestone Data Update page appears. Enter the AS date, SHPC number, and AS amount, and attach the AS document along with the Government Order.
- After updating the details click on SUBMIT button
- Click the BACK button beside Submit to navigate back to the project Profile page.
- To view the added details, simply click on the AS cell. The view page will appear, displaying the AS details.

" As soon as the AS milestone is updated the project status will be changed to AS Issued. "

Home ► Project ► Package Su	mmary 🕨 Project Milestone Update	
Project Profile Project Plan	Files/ Docs Photos Review Risks	Edit Project
Administrative Sanc	tion Milestone Data Update	
AS Amount (Rs) *		
AS Date *		
SHPSC Number *		
Upload SHPSC Minutes *	Choose file No file chosen	
Govt Order *	Choose file No file chosen	
		Submit Back

AS REVISION

- To revise the AS details, simply click on the AS cell to view the information. In the modal that appears, click on the "AS Revision" button to update the milestone details.
- Once the revision is done the initially entered data will be considered as the 0th revision and display as history on the view displaying modal

ject Profile Pro	agement	otos Review Risks						E	dit Project
oject Milesto	ne	Administrative Sanction			Revision 0				
9	DPR Preparation	AS Amount (Rs) AS Date	: 13 : 22	8800000.00 /11/2024					
Profile Up	dation Status	SHPSC Number Upload SHPSC Minutes Govt Order	: 9 : Do : Do	wnload wnload					
Main Proj	ect data entry progress	AS Revision	View Correction Log	unt (Cr)	Close	Amount [Cr]	Exp	enditure [Cr]	T
	39.1%	No Data	13.8	88C	0.0	DOC	0	.00C	
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ckages o. oject Physica Planne	Package Name AMRUT 2.0-WSS to T Connections and Rep Total	Trur Municipality-Providing new distribution n placing old aged AC pipe with DI Pipe.	etwork, Household Tap Actual Start Date	TS Amount 0.00 0.00 Actur	Tendered Amount 0.00 al Completion Date	Awarded Amount 0.00 0.00 Planned Cos	Expenditure 0 0.00 t Actual	Add New Progress Percentage 0% % Cost Percent	Package View

IMPORTANCE OF VIEW CORRECTION LOG

- All data corrections made within the update milestone data section will be recorded in a "View Correction Log," which tracks the corrector, correction details, and timestamp.
- To initiate a data correction, users must request edit access. The administrator can then grant "Overwrite" data access, enabling the user to edit the specific milestone data.
- Upon approval, an "EDIT" button will appear on the relevant milestone view. Clicking this button allows the user to make corrections, which will be logged. To access this log, click on "VIEW CORRECTION LOG."

PACKAGE CREATION

HOW ARE PACKAGES CREATED UNDER A MAIN PROJECT?

• Work with Technical Sanction (TS) received under Administrative Sanction (AS) are considered Packages. The package is enrolled in the project profile. Multiple packages with TS can be added by clicking the 'ADD NEW PACKAGE' button one by one.

oject Milestone	reject Milestone								
			_						
🔗 DР	R Preparation	Administrative Sanction							
Profile Updat	on Status				_				
Main Project d	ata entry progress	Sub Project Data Entry Progress	ASAm	ount [Cr]	Awarded	Amount [Cr]	Fxp	enditure [Cr]	
	494	No Dete	12						
		No Data	10.		0.0	000	0		-
								Add New	Package
ackages									View 🔺
ackages No.	Package Name			TS Amount	Tendered Amount	Awarded Amount	Expenditure	Progress Percentage	
'ackages No.	Package Name AMRUT 2.0-WSS to Tiru Connections and Replac	r Municipality-Providing new distribution networl	k, Household Tap	TS Amount 0.00	Tendered Amount	Awarded Amount 0.00	Expenditure 0	0 %	e,
Packages No. 1	Package Name AMRUT 2.0-WSS to Tiru Connections and Replac Total	r Municipality-Providing new distribution networf ing old aged AC pipe with DI Pipe.	k, Household Tap	TS Amount 0.00 0.00	Tendered Amount 0.00	Awarded Amount 0.00 0.00	Expenditure 0 0.00	0 %	e
Packages No. 1 Project Physical Pro	Package Name AMRUT 2.0-WSS to Tiru Connections and Replac Total	r Municipality-Providing new distribution networl ing old aged AC pipe with DI Pipe.	k, Household Tap	TS Amount 0.00 0.00	Tendered Amount 0.00	Awarded Amount 0.00 0.00	Expenditure 0 0.00	0 %	Q
Packages No. 1 Project Physical Pro Planned Sta	Package Name AMRUT 2.0-WSS to Tirru Connections and Replac Total gress t Date	r Municipality-Providing new distribution networl ing old aged AC pipe with DI Pipe. Planned Completion Date	k, Household Tap	TS Amount 0.00 0.00 Actu	Tendered Amount 0.00 al Completion Date	Awarded Amount 0.00 0.00 Planned Cost	Expenditure 0 0.00 Actual	Progress Percentage 0 % % Cost Percent	e, v

NOTE: A Newly created package status will be TS Pending

NOTE: A new package can be added under a main project only if: The complete details of the associated AS milestone have been updated or the main project status is "AS Issued".

- To create a package, enter the basic details. The system will generate a unique package code, appended with a suffix (P1, P2, etc.) based on project seniority and prefixed with the Project MoHU code.
- Click on the 'SUBMIT' button to create the package. Upon successful submission, the package profile page will be displayed, allowing you to update the remaining milestone data."

Create Package	
Package Title*	
Package Code	KL-TIRUR-6614P2
Package Description*	
	4
Location	
Is Land Available?*	Click here to mark the location
	Select
	Submit

Package Profile page /View page

oject Management Manag	ye Access
Home > Package > AMRUT 2.0-WSS to	Trur Municipality-Prox.
Project Profile Files/ Docs Phot	os Review Messages WBS Component (Work Breakdown structure) Progress Updations Bill & Expenditure Risks
No Review messages added yet.	
Packago Milestono	
Technical Sand	tton NIT/ Tendering O Selection Notice Awarding/ Agreement Execution
O Site Handov	er
Package Details	AMRUT 2.0-WSS to Tirur Municipality-Providing new distribution network, Household Tap Connections and Replacing old aged AC pipe with DI Pipe.
Main Project Title	AMRUT 2.0-WSS to Tirur Municipality-Providing new distribution network. Household Tap Connections and Replacing old aged AC nine with DI Pine.
Package Code	KL-TIRUP-661491
Package Code Type	KL-TIRUR-6614P1 Package
Package Code Type AMRUT Phase	KL-TIRUR-6614P1 Package AMRUT II
Package Code Type AMRUT Phase Description	KL-TIRUR-6614P1 Package AMRUT II The proposal is for providing Functional Household tap (FHTC) connection of 2984 nos by providing additional distribution lines of 20 Km from the existing 17 MLD WTP Scheme of Tirur Municipality. And als replacement of old AC/PVC pipes for a length of 7 Km also included in the proposal
Package Code Type AMRUT Phase Description Status	KL-TIRUR-6614P1 Package AMRUT II The proposal is for providing Functional Household tap (FHTC) connection of 2984 nos by providing additional distribution lines of 20 Km from the existing 17 MLD WTP Scheme of Tirur Municipality. And als replacement of old AC/PVC pipes for a length of 7 Km also included in the proposal TS Pending
Package Code Type AMRUT Phase Description Status District	KL-TIRUR-6614P1 Package AMRUT II The proposal is for providing Functional Household tap (FHTC) connection of 2984 nos by providing additional distribution lines of 20 Km from the existing 17 MLD WTP Scheme of Tirur Municipality. And als replacement of old AC/PVC pipes for a length of 7 Km also included in the proposal TS Pending Malappuram
Package Code Type AMRUT Phase Description Status District Is Land Available	KL-TIRUR-6614P1 Package AMRUT II The proposal is for providing Functional Household tap (FHTC) connection of 2984 nos by providing additional distribution lines of 20 Km from the existing 17 MLD WTP Scheme of Tirur Municipality. And als replacement of old AC/PVC pipes for a length of 7 Km also included in the proposal TS Pending Malappuram Yes
Package Code Type AMRUT Phase Description Status District Is Land Available Land Owner	KL-TIRUR-6614P1 Package AMRUT II The proposal is for providing Functional Household tap (FHTC) connection of 2984 nos by providing additional distribution lines of 20 Km from the existing 17 MLD WTP Scheme of Tirur Municipality. And als replacement of old AC/PVC pipes for a length of 7 Km also included in the proposal TS Pending Malappuram Yes PWD
Package Code Type AMRUT Phase Description Status District Is Land Available Land Owner Area (Hectare)	KL-TRUR-6614P1 Package AMRUT II The proposal is for providing Functional Household tap (FHTC) connection of 2984 nos by providing additional distribution lines of 20 Km from the existing 17 MLD WTP Scheme of Tirur Municipality. And als replacement of old AC/PVC pipes for a length of 7 Km also included in the proposal TS Pending Malappuram Yes PWD 10
Package Code Type AMRUT Phase Description Status District Is Land Available Land Owner Area (Hectare) TS Amount (Rs)	KL-TRUR-6614P1 Package AMRUT II The proposal is for providing Functional Household tap (FHTC) connection of 2984 nos by providing additional distribution lines of 20 Km from the existing 17 MLD WTP Scheme of Tirur Municipality. And als replacement of old AC/PVC pipes for a length of 7 Km also included in the proposal TS Pending Malappuram Yes PWD 10 0.00
Package Code Type AMRUT Phase Description Status Is Land Available Land Owner Area (Hectare) TS Amount (Rs)	KL-TIRUR-6614P1 Package AMRUT II The proposal is for providing Functional Household tap (FHTC) connection of 2984 nos by providing additional distribution lines of 20 Km from the existing 17 MLD WTP Scheme of Tirur Municipality. And als replacement of old AC/PVC pipes for a length of 7 Km also included in the proposal TS Pending Malappuram Yes PWD 10 0.00
Package Code Type AMRUT Phase Description Status District Is Land Available Land Owner Area (Hectare) TS Amount (fis) TS Number of Tendering	KL-TRUR-6614P1 Package AMRUT II The proposal is for providing Functional Household tap (FHTC) connection of 2584 nos by providing additional distribution lines of 20 Km from the existing 17 MLD WTP Scheme of Tirur Municipality. And als replacement of old AC/PVC pipes for a length of 7 Km also included in the proposal TS Feending Malappuram Yes PWD 10 0.00

PACKAGE MILESTONE

MILESTONE 3: TECHNICAL SANCTION (TS)

- To initiate Technical Sanction (TS), locate and click on the "Technical Sanction Milestone" within the "Package Milestone" section. This will display the "Technical Sanction Milestone Data Update" page.
- On this page, enter the TS details: **TS Amount:** Split the TS amount into "PAC" and "Miscellaneous/Lumpsum" within the Package Allocation (PAC). The consolidated total of these two sections will be considered the final TS amount.
- Followed by TS numbers date and TS doc.

Note: The entered TS date must be after the corresponding Administrative Sanction (AS) date.

> • Once the data is completed entered click on the **SUBMIT** button.

As soon as the TS milestone is updated on any one of the

roject Profile Fil	es/Decs Photos	Review Messages WBS Component (Nork Devalutions structure) Progress Updations BII & Expenditure Role
No Review messa	iges added yet.	
ackage Milesto	one	
0	Technical Sanction	NT/ Tendering Selection Notice Awarding/ Agreement Execution
0	Site Handover	
Package Detail:	5	
Package Title		AMRUT 2.0 WATER BODY REJUVENATION IN MANANTHAVADY MUNICIPALITY ADIVARAM Pond
Main Project Title		AMRUT 2.0 WATER BODY REJUVENATION IN MANANTHAVADY MUNICIPALITY.ADIVARAM Pond
Package Code		KL-MANANTHAVADI-8761P1
Type		Padkage
AMRUT Phase		AMRUT II
Description		The dels will of the existing poord at Advaram in Diversion 33 of Manethawk Municipality has collapsed and the poord backness will be a shear will avoid back will be a checked with Dory unblack memory with existing and a particular poord at a data wand the poord back multipart of the advard will be a checked with Dory unblack memory and and a back word the poord a stranting varies (we need the made y poorts or population and particular poord at a data wand the poord back multipart of the advard will be advard will be advarded with the contracte interlock brick is proposed. Seating arrangements/flower por stand, simple recreation tools for children may also be included.
		TS issued
Status		
Status District		Wayanad
Status District Is Land Available		Wayanad Yes
Status District Is Land Available Land Owner		Wayanad Yes Auniopality
Status District Is Land Available Land Owner Area (Hectare)		Waysad Yaysa Muncipatry G
Status District Is Land Available Land Owner Area (Hectare) TS Amount (Rs)		Waysinud Yesi Municipality 0.06 2400000.00
Status District Is Land Available Land Owner Area (Hectare) TS Amount (Rs) TS Number		Wagenal Yes Munopatry 0.06 44376/024.2025

multiple packages under a project the project status will be changed to TS-issued.

e > Package > AMRUT 2.0 - WSS to Kottak	kal Municipalit Package Milestone Upd	late Project Milestone Update			
ect Profile Files/ Docs Photos	Review Messages WBS Component (V	Vork Breakdown structure) Prop	gress Updations Bill & Expenditure R	iks	Edit Projec
echnical Sanction Milestone D	ita Update				
stimate					
AC for work					Add How
Catagoni	Amount		GET	Total	Delete
Category name	Amount		GST Amount	0.00	*
·					
liscellaneous/Lumpsum					
Only many	Aug. 2000			7-4-1	Add Item
Category name	Amount		GST Amount	10tal 0.00	Delete
otal Miscellaneous/Lumpsum Amou	Int	0.00			
otal Estimated TS Amount (RS) *		0			
70 Data 8					
Jpload TS Doc *					
		Choose fi	No file chosen		

TS REVISION

- To revise the TS details, simply click on the TS cell to view the information. In the modal that appears, click on the "**TS Revision**" button to update the milestone details.
- Once the revision is done the initially entered data will be considered as the 0th revision and display as history on the view displaying modal

ome Package AMRUT 2.0 WATER BODY REJ	UVENATION IN MAN						
roject Profile Files/ Docs Photos R	leview Messages	WBS Component (V	/ork Breakdown structure)	Progress Updations Bill &	Expenditure Risks		Edit Project
Io Review messages added yet.	-						
	Techn	ical Sanction				Revision 0	
ackage Milestone	TS E	Estimate					
Vechnical Sanction	PAC	for work					Awarding/ Agreement Execution
	Cat	legory	Amount	GST	Total		
Site Handover	Civi	l Work	2151940.67	387349.32	2539289.99		-
	Mis	cellaneous/Lu	mpsum				
uckaga Datails	Cat	tegory	Amount	G5T	Total		
chage betans	LS A	Amount	60000.00	0.00	60000.00		
ckage Title	AMI Rou	und off	710.01	0.00	710.01		
ain Project Title	AMI						
ckage Code	KL-N Total	Miscellaneous/L	umpsum : 60710	.01			
pe	Paci	Estimated TS Am	ount (Rs) 26000	00			
IRUT Phase	AMI TS N	mber	: 64576	/2024-2025			
scription	The TS Da	ato	: 07/01	/2025			useless. As per this project it is proposed to rebuild the side wall with Dry rubble
	pavi Uploa	ad TS Doc	: Down	load			Seating arrangements, flower pot stand, simple recreation tools for children may
atus	TS in TS P	ovision A	llow Overwrite				
strict	Way		now overwrite			Close	
and Available	Yes						
nd Owner	Municipality						
ea (Hectare)	0.06						
Amount (Rs)	260000.00						
Number	64576/2024-2	2025					
umber of Tendering							
menditure	0						

MILESTONE4: NIT/ TENDERING

- To initiate the NIT/Tendering milestone, locate and click on the "NIT/Tendering Milestone" within the "Package Milestone" section. This will display the "NIT/ Tendering Milestone Data Update" page.
- On this page, enter the Tendering details, such as Tender issue date, No. of tendering

Note: The system is configured to ensure that the NIT issue date is selected after the TS date

The PAC of work and Miscellaneous/Lumpsum data will be carried forward from the TS milestone. The user has the option to edit, delete, or add a new row under these sections respectively.

> • Once the data is completely entered click on the SUBMIT button.

troject Profile Files/ Docs Photos	Review Missages W/B Component (Novk Breakdown structure) Progress Updations Bill & Expenditure Roles
No Review messages added yet.	
Package Milestone	
 Technical Sanct 	on NIT/ Tendering O Selection Notice Awarding / Agreement Execution
O Site Handove	
<u> </u>	
Package Details	
Package Title	Package I - Clear Water Pumping main from Thekkinkadu to 5 LL OHSR at West Fort- Pipeline Work
Main Project Title	AMRUT 2.0 - Construction of SLL capacity OHSR and S LL capacity Sump at Poornkunnam including transmissionmain-Phase HSupply, Laying of 250mmm Di clear water pumping main and supply erection and commissioning of motor pump sets.
Package Code	KL-THRISSUR-147291
Туре	Package
AMRUT Phase	AMRUT II
Description	Poornkunnam Phase II Clear Water Pumping main from Thekkinkadu to 5 LL OHSR at West Fort - Pipeline Work
Status	TS issued
District	Thrissur
Is Land Available	Yes

As soon as the NIT/Tendering milestone is updated on any one of the multiple packages under a project the project status will be changed to NIT-issued or Tendered.

ct Profile Files/ Docs Photos R	eview Messages WBS Component (Work B	reakdown structure) Prog	gress Updations Bill & Expenditure	e Risks	Edit Proje
IIT/ Tendering Milestone Data U	pdate				
IT Issued Date *					
pload Tender Notice *		Choose fil	le No file chosen		
umber of Tendering *					
nder Opening Date *					
ndered PAC for work					
					Add Item
Category	Amount		GST	Total	Delete
Category name	Amount		GST Amount	0.00	*
liscellaneous/Lumpsum					
Category	Amount		GST	Total	Delete
LS Amount	60000.00		0.00	60000.00	×
Round off	710.01		0.00	710.01	*
otal Miscellaneous/Lumpsum Amour	it	60710.01			
al Tendered Amount *		60710.01			

Re-Tendering

- To re-tender the NIT details, simply click on the NIT/Tendering option to view the information. In the modal that appears, click on the "**Re-Tendering**" button to update the milestone details.
- Once the re-tendering is done the initially entered data will be considered as the 0th revision and displayed as history on the view displaying modal

Project Profile Files/ Docs Photos Re-	iew Messages WBS Compo	nent (Work Breakdown stru	cture) Progress Updations Bil	& Expenditure Risks	
No Review messages added yet.	_				
	NIT/ Tendering				
Package Milestone	NIT Issued Dat	e	: 10/01/2025		
	Tender Notice		: Download		
Technical Sanction	Number of Ter	ndering	:1		
	Tender Openir	ng Date	: 24/01/2025		
O Site Handover	Tendered PA	C for work			
	Category	Amount	GST	Total	
Package Details	Project Activiti	es 415253.00	74745.00	489998.00	
Package Title	REJL Miscellaneou	ıs/Lumpsum			
Main Project Title	REJI Category	Amount	GST	Total	
Package Code	KL-K Round off	2.00	0.00	2.00	
Гуре	Pack				
AMRUT Phase	AMI Total Miscellane	ous/Lumpsum	:2		
Description	Prot Amount	mount	400000		
Status	NIT Iotal lendered /	unount			
District	Re-Tendering				Close
Is Land Available	Kollege	-			
Area (Hectare)	26248				
TS Amount (Rs)	490000.00				
TS Number	LSGD/CELSGD/EST_TS/1	14773/2024 5 1 1			
Number of Tendering	1				
Fxpenditure	0				

MILESTONE 5: SELECTION NOTICE

- To initiate the Selection Notice milestone, locate and click on the "Selection Notice Milestone" within the "Package Milestone" section placed beside NIT/Tendering. This will display the "Selection Notice Milestone Data Update" page.
- On this page, en-Edit Project roject Profile Files/ Docs Photos Review Messages WBS Component (Work Breakdown structure) Progress Updations Bill & Expenditure Risks ter the section iew messages added yet notice details, such as selection Package Milestone 0 0 0 0 notice issue date Site H and selection notice document Package Details AMRUT-Kayamkulam Municipa AMRUTH 2.0-UWSS TO KAYAM KL-KAYAMKULAM-7077P1 Package Title Main Project Title Package Code Type AMRUT Phase Description Package AMRUT II OHSRConstruct ion of 15LL OHSR at PH Section office compound inclu ding der ion of the old OHSP Status NIT issued/ Tendered District Alappuzha Is Land Available Yes Land Owner Area (Hectare) TS Amount (Rs) KWA 0.00 86260000.00 rs Numb WRD/KWA-CE(CR)/EST_TS/4939/2022_5_1_1 Dated: 14-05-2024 mber of Te

Manual & Bachana & BERDARMATION OF FTM ITME VIDAMAT FTM ITM & Bachana Milante	- Under a Revised Millertown Hadata	
Project Profile Files/ Docs Photos Review Messages WB5 Component (W	ork Breakdown structure) Progress Updations Bill & Expenditure Risks	Edit Project
Selection Notice Milestone Data Update		
Edit Details		
Selection Notice Issued Date *		
Upload Selection Notice *	Choose file No file chosen	
		Submit Reset Back

• Once the data is completely entered click on the SUBMIT button.

As soon as the Selection Notice milestone is updated on any one of the multiple packages under a project the project status will be changed to LOA-issued.

MILESTONE 6: AWARD & AGREEMENT

- To initiate the Award & Agreement milestone, locate and click on the "Awarding/Agreement Execution Milestone" within the "Package Milestone" section placed beside the selection notice. This will display the "Awarding/ Agreement Execution Milestone Data Update" page.
- The 'Award and Agreement' section awarded contractors, mapping each to their respective work. It includes the agreement date, document, and work award details.

Awarding/ Agreement Execution N	Vilestone Data Update					
Work Awarded Details						
Contractor Name * Agreement Date * Scheduled Date of Completion in Agree Upload Agreement * No of Qualified Bidders Participated *	ment *	Select Contractor	V			
Work Awarded Details		GST			Total	
					0	
Work Awarded Amount * Work Tendered Amount (PAC) Tender Variation Central Allocation Applicable Cost for w	ork	0 85413574.19 -85413574.19 0				
Miscellaneous/Lumpsum						
Category	Amount	GS	T	Total		Delete
Round off	7096.31	0.	00	7096.	31	×
LS provision for part TS	1900000.00	0.	00	1900	00.00	×
Water connection charge	82500.00	0.	00	8250	0.00	×
Charges for Utility shiftin	400000.00	0.	00	4000	00.00	×
Charges for Utility shiftin	200000.00	0.	00	2000	00.00	×
Advertisement/Publicity	8000.00	0.	00	8000.	00	×

- The 'Miscellaneous/Lumpsum' section is carried forward from the TS milestone. You can modify or delete rows as needed.
- The system automatically calculates the total Award and Tender excess, along with the costsharing breakdown for central, state, and ULB.
- Once all fields are completed, click the 'SUBMIT' button.

As soon as the Awarding /Agreement Execution milestone is updated on any one of the multiple packages under a project the project status will be changed to Awarded.

MILESTONE 7: SITE HANDOVER

 To initiate the Site handover milestone, locate and click on the "Site Handover Milestone" within the "Package Milestone" section placed beside Awarding/Agreement Execution. This will display the " Site Handover Milestone Data Update" page. New York
N

On this page, enter
 the Site handover det

the Site handover details, such as the site handover date, and upload the document

• Once all fields are completed, click the 'SUBMIT' button.

ct Profile Files/ Docs Photos Review Messages WBS Cor	mponent (Work Breakdown structure) Progress Updations Bill & Expenditure Risks	Edit Project
ite Handover Milestone Data Update		
: Details		
Jate of Site Handover *		
	Choose file No file chosen	
		Submit Reset Back

As soon as the Site Handover milestone is updated on any one of the multiple packages under a project the project status will be changed to Site Handover.

WORK BREAK-DOWN STRUCTURE -WBS

HOW ARE WBS /COMPONENTS OF A WORK ESTIMATE FOR PROGRESS UPDATES?

In Project Management Software (PMS), work breakdown structures (WBS) are created by decomposing work into its constituent components. Following the completion of six milestones, the next step involves mapping these components to their respective packages. Daughter tasks within each component are then planned with defined start dates, finish dates, and associated costs. Finally, the planned start and finish dates, along with the consolidated costs from the lowest-level daughter tasks, are used to determine the overall planned start and finish dates for the physical progress of that package.

How to add a new component to the package?

- In the package profile, locate and click on the "WBS Components" tab. This tab is typically situated at the top of the page within a collection of tabs, each leading to a different package feature.
- Click the "NEW WBS COMPONENT" button positioned in the top-right corner of the page.
- An "Add/Map Components" modal window will appear. Choose the desired sector & component from the corresponding dropdown menu.

Home + Printer + AND/22.0 HERMANDAN Repert Anna - Reper	AMULT 2.0. PERRITIALIMANA MUNICIPALITY MELCICICIANUAN WARD 13 G AMULT 2.0. PERRITIALIMANA MUNICIPALITY AMULT AMULTANI MUNICIPALITY AMULTANI MELCICICIANUAN AMULTANI MUNICIPALITY AMULTANI MUNICIPALITY AMULTANI MELCICICIANUAN AMULTANI MUNICIPALITY AMULTANI MUNICIPALITY AMULTANI MELCICICIANUAN AMULTANI MUNICIPALITY AMULTANI MUNICIPA	Switchin Notice ENGRAL COVE, WOOK ARRANGED OF POIND - INCLESSARY TO PROVIDE EXAMPLE AND TO PR	Agreement Execution	Clic con the all par	After selectin k "Submit" to mponent and i package. Repeat these necessary com ckage	associate t associate t ts WBS wit steps to a ponents to	or, the th idd o the	
	Home > Package > AMRUT 22-FE Pointst.Pooffie Files/ Docs F WBS (Work Breakd Component AMRUT 2 AMRUT 2 1 Cleaning 1.1 Desilting 2 Strength 2.1 Stone Pa 2.2 Concrete	RNTHALMANNA MUNICIPALITY M_ > Project Component Photos Review Messages WB5 Component (Wo lown structure) nt Name 2.0- PERINTHALMANNA MUNICIPALITY DLAKULAM WARD-33- GENERAL CIVIL W .8 Dredging ening cking . Works	rs rk Brahdown structore) Progress Updat Unit VORK	Start Date 26/02/2024 26/02/2024 02/09/2024 02/09/2024 01/12/2024	Finish Date 10/02/2025 30/08/2024 30/08/2024 10/02/2025 30/11/2024 10/02/2025	Duration 351 days 187 days 187 days 187 days 162 days 90 days 72 days	New WBS Cost 999375 709,068 709,068 290,307 223,457 66,850	Component Progress 0% 0% 0% 0% 0%
Rent + Pacing + AMAGE 20 FEAST Francharden Van / Ban WBS (Work Breakdow MELICIOLA 3 Common N 1 Common N 2 Storegtow 2 Storegtow 2 Storegtow 2 Storegtow	AND	No Image: Control of the control of t	Interfere Cont 152 days 295375 157 days 295375 157 days 295375 157 days 295487 152 days 295487 25 days 65,450	Report Program 0% 0% 0% 0% 0% 0%				

How planned dates and costs are updated?

- Each added component will have a main component and sub-components. Planned start and finish dates for each component are always updated at the lowest sub-component level.
- When the mouse hovers over a sub-component, a pencil icon appears for editing. Clicking this icon opens an editing modal.
- Within the modal, enter the sub-component's planned start date, finish date, and cost.
- Update all sub-components to consolidate the overall package dates on the top-most row of the table.

Component Name		Unit	Start Date		Finish Date		Duration		Cost	Progress	
AMRUT 2.0- PERIN MELECHOLAKULAN	ITHALMANNA MUNICIPALITY M WARD-13- GENERAL CIVIL WORK		26/02/2024		10/02/2025		351 days		999375	0%	
Cleaning		Â	26/02/2024		30/08/2024		187 days		709,068	0%	
Desilting & Dredgin	g		26/02/2024		30/08/2024		187 days		709,068	0%	
Strengthening	T		02/09/2024		10/02/2025		162 days		290,307	0%	
Stone Packing			02/09/2024		30/11/2024		90 days		223,457	0%	
X Concrete Works	\bigotimes		01/12/2024	2	10/02/2025	2	72 days	2	66,850	0%	
ectage > A oject Profile File WBS (Work	MRUT 2.5- FERINTHALMANNA MUNICIPALITY M > Pr v/ Decs. Photos Review Messages WBS Co Breakdown structure)	ojett Components omponent (Work Breakdown structi	ure) Progress Updations) Bit & E	cpenditure	Risks					New WBS	Compone
crage () A oper Profile File WBS (Work	MBUT 2.0-PERINTHALMANNA MUNICIPAUTY M > Pro V Docs Photos Review Messages WB5 Co Breakdown structure) Component Name	opert Components amponent (Work Breakdown struct) Erdit WDS Component WBS Component Name*	ure) Progress Updations) Bit & E	cpenditure	Risks	Finish Date		Duratio	n	New WBS Cost	Compone
criage () A	MRUT 20- PERINTHALMANNA MUNICIPALITY M > Pr V Dock Photos Review Messages WBS Co Breakdown structure) Component Name	oject Components omponent (Work Breakdown struct) Edit WBS Component WBS Component Name* Scrut Doke*	uri) Progress Updations Bit & E Concrete Works	openditure	Risks	Finish Date		Duration	n	New WBS Cost	- Compone Progr
Cage A	MRUT 2-0- PERINTHALMANNA MUNICIPALITY M_ > Pro y/ Doos Photos Review Messages WBS Co Breakdown structure) Component Name AMRUT 2.0- PERINTHALMANNA MUN MELECHOLAKULAM WARD-13- GENER	ojest Components Edit WBS Component WBS Component Name* Start Date* Finish Date*	Vure) Progress Updations Bit & E	xpenditure	Rids	Finish Date 10/02/202	2	Duration 351 day	n ys	New WBS Cost 999375	Compone Progr
Case A	MRUT 2.0- PERINTHALMANNA MUNICIPALITY M_ > Pro y/ Docs Photos Review Messages WIBS Co Breakdown structure) Component Name AMRUT 2.0- PERINTHALMANNA MUN MELCHOLAKULAM WARD-13- GENER Cleaning	oject Components Edit WINS Component WES Component Name* Start Date* Finish Date* Cost*	urre) Progress Updations Bill & E Concrete Works	spenditure	Rids	Finish Date 10/02/202 30/08/2024	5	Duration 351 day 187 days	n Y3	New WBS Cost 999375 709,068	Compone Progr 09 0%
Class > A Cject Profile File WBS (Work	MRUT 20- PERINTHALMANNA MUNICIPALITY M > Pre y doc: Photos Review Messages WBS Co Breakdown structure) Component Name AMRUT 2.0- PERINTHALMANNA MUN MELECHOLAKULAM WARD-13- GENER Cleaning Desilting & Dredging	sjert Components omponent (Work Breakdown struct) Edit WBS Component WBS Component Name* Start Date* Finish Date* Cost*	unt) Progress Updations Bit & E	openditure Conf	Rists	Finish Date 10/02/202 30/08/2024 30/08/2024	5	Duration 351 day 187 days 187 days	n YS	New WBS Cost 999375 709,068 709,068	Compone Progr 0% 0%
citage > A reject Profile Re WBS (Work	MRUT 20- PERINTHALMANNA MUNICIPALITY M > Prefore // Deck Photos Review Messaget WBS Co Breakdown structure) Component Name AMRUT 2.0- PERINTHALMANNA MUN MELECHOLAKULAM WARD-13- GENER Cleaning Desitting & Dredging Strengthening	ojet Components edit WBS Component WBS Component Name* Start Date* Finish Date* Cost*	uri) Progress Updations Bit 8. E Concrete Works	openditure Conf	Rinks	Finish Date 10/02/202 30/08/2024 30/08/2024	5	Duration 351 day 187 days 187 days	n Y5	New WBS Cost 999375 709,068 709,068 290,307	Compone Progr 0% 0% 0%
Color Profile File WBS (Work	MRUT 20- PERINTHALMANNA MUNICIPALITY M > Profes y docs Photos Review Message WBS Co Breakdown structure) Component Name AMRUT 2.0- PERINTHALMANNA MUN MELECHOLAKULAM WARD-13- GENER Cleaning Desilting & Dredging Strengthening Stone Packing	sjert Components omponent (Work Breakdown struct WBS Component Name* Start Date* Finish Date* Cost*	uve) Progress Updations Bit 6. E	confi	Refs	Finish Date 10/02/202 30/08/2024 30/08/2024 10/02/2025 30/11/2024	:	Duration 351 day 187 days 187 days 162 days 90 days	n Ys	New Wils Cost 999375 709,068 709,068 290,307 223,457	• Compone Progr 0% 0% 0%

NOTE: It is not compulsory to start WBS components planning only after all milestones are updated. Users can start planning WBS components soon after the package is created but Progress updates to the planned components can be updated only after updating all six milestones.

HOW TO UPDATE THE UNITS' VALUES IN THE MAIN COMPONENT?

- When the mouse hovers over the main components a pencil icon appears for editing. Clicking this icon opens an editing modal.
- Within the modal, enter the units planned to achieve in contrast when the progress update is done the achieved value is entered
- For main components with unit value to updated a caution symbol is displayed to alert the user for updating, once the update symbol changes to a green tick mark view option

NOTE: Without adding planned dates, cost, and unit values it is not possible to add the progress update



PROGRESS UPDATE

HOW IS PHYSICAL PROGRESS UPDATION CARRIED OUT?

After updating the details of Work Breakdown Structure (WBS) components, click on the **'Progress Update**' tab adjacent to 'WBS components' within the package profile. Physical progress or fieldlevel progress for an awarded work is tracked within the respective package. The consolidated progress of all packages is then reflected in the main project summary. The progress update tab displays

The planned WBS components. Updated lowest sub-components are indicated by a plus symbol icon.

Clicking this icon opens a modal window. These modal displays:

• Progress percentage

- Date of update
- Description
- Photo attachment

Select the achieved percentage on the date of update from the dropdown.

ponent	Progress Summary										Revi	sion 0 🗸
	Component Name			Start Date	Finish Date	Duration	Actual Start	Date Actual Finish Date	Cost	Updated Cost	Progress	
	AMRUT 2.0- PERINTHALMANNA MUNICIPALITY MELECHOLAKULAM WARD-13- GENERAL CIVIL WORK			26/02/2024	10/02/2025	351 days		-	999375	0	0%	
	Cleaning	Â	×	26/02/2024	30/08/2024	187 days	-		709,068	0	0%	\sim
.1	Desilting & Dredging			26/02/2024	30/08/2024	187 days	-	-	709,068	0	0%	\odot
	Strengthening		×	02/09/2024	10/02/2025	162 days	-	-	290,307	0	0%	
.1	Stone Packing			02/09/2024	30/11/2024	90 days	-	-	223,457	0	0%	+
.2	Concrete Works			01/12/2024	10/02/2025	72 days	-	-	66,850	0	0%	•
pdates ry, no co	omponent history has been added yet											
▶ Packa t Profile	ge > Providing 7300 FHTC > Status updations	VB5 Componen	nt (Work Break	lown structure)	Progress Updations 1	Bil & Expenditure R	; ists				Ed	lit Project
: ► Packa ct Profile mponer	ge > Providing 7300 PHTC > Status updations Files/Docs Photos Review Messages W nt Progress Summary	VBS Componen	nt (Work Breakc	Iown structure	Progress Updations	Bi & Egenditive	iska X				Ed	it Project
: ► Packa ct Profile mponer	ge > Providing 7300 FHTC > Setus updations Files/ Docs Photos Review Messages W ht Progress Summary Component Name	VBS Componen Updat Perce	nt (Work Break Ite Progress entage*	iown structure)	Progress Updations 1	Bit & Espenditure R	isks X	Date Actual Finish Date	Cost	Updated Cost	Ed Revi Progress	it Project sion 0 ↓
: ► Packa :t Profile nponer	ge » Providing 7500 FHTC » Status updations Files/ Docs Photos Review Massages W tt Progress Summary Component Name Providing 7500 FHTC	VBS Componen Upda Perce Actua Descr	nt (Work Breake ste Progress entage* ial Start Date zription *	iown structure)	Progress Updations 1	Bit & Expenditure	iaks IIII IIIII 202	Date Actual Finish Date	Cost 83612230	Updated Cost 22939553	Ed Revi Progress 27.44%	it Project
≥ > Packa ct Profile mponer	ge > Providing 7300 FHTC > Setus updations Files/ Docs Photos Review Messages W th Progress Summary Component Name Providing 7500 FHTC FHTC (Functional Household Tap Connection)	VIIS Component Updat Perce Actue Desce	nt (Work Break the Progress entage* ial Start Date cription *	iown structure)	Progress Updations 1	Bit & Espenditure R	isks and	Date Actual Finish Date	Cost 83612230 81,926,975	Updated Cost 22939553 22,939,553	Ed Revi Progress 27.44% 28%	it Project
> Packa tt Profile mponer 1 1.1	ge + Providing 7500 PHTC + Setua updations Files/Docs Photos Review Messages W th Progress Summary Component Name Providing 7500 FHTC FHTC (Functional Household Tap Connections New Tap Connections	VBS Component Upda Perce Actua Desci	nt (Work Breakc ate Progress entage* ial Start Date rription *	own structure)	Progress Updations 1 tus percent	Bil & Expenditure R	inka 202 202 202 202 202	Date Actual Finish Date 4	Cost 83612230 81,926,975	Updated Cost 22939553 22,939,553 22,939,553	Ed Revi 27.4% 28% 28%	it Project
Packa ct Profile mponer 1 1.1 1.2	ss > Providing 7200 FHTC > Status updations Files/Docs Photos Review Messages W th Progress Summary Component Name Providing 7500 FHTC FHTC (Functional Household Tap Connection) New Tap Connections Replacing Force of Existing Tap Connection	VIIS Component Updat Perce Actua Desce Photo Enter *Len	nt (Work Break the Progress entage* ial Start Date rription * 20 r the achieve rgth in Meter	iown structure) Select sta (Choose fit s d 0	Progress Updations 1 tus percent		isks x art 202 202 202 202	Date Actual Finish Date 4	Cost 83612230 81,926,975 81,926,975 0	Updated Cost 22939553 22,939,553 22,939,553 0	Ed Revi Progress 27.44% 28% 28% 28% 0%	it Project
Packa ct Profile mponer 1 1.1 1.2 2	ps > Providing 7500 FHTC > Setus updations Files/Decs Photos Review Messages W th Progress Summary Component Name Providing 7500 FHTC FHTC (Functional Household Tap Connection) New Tap Connections Replacing/ Service of Existing Tap Connection ULB Road Restoration	VIIS Component Perce Actue Desci Phote Enter "Leng	nt (Work Break ate Progress entage* al Start Date cription * to r the achieve gth in Meter	ioun structure)	Progress Updations 1 tus percent Ie No file chosen	Bit & Espenditure R	isks	Date Actual Finish Date A - - - - - - - - - - - - -	Cost 83612230 81,926,975 81,926,975 0 1,027,961	Updated Cost 22939553 22,939,553 22,939,553 0	Ed Revi Progress 27,44% 28% 28% 0%	it Project
 Packa at Profile mponer 1 1.1 1.2 2 2.1 	ge > Providing 7500 FHTC > Status updations Files/ Docs Photos Review Messages W At Progress Summary Component Name Providing 7500 FHTC FHTC (Functional Household Tap Connection) New Tap Connections Replacing/ Service of Existing Tap Connection ULB Road Restoration Civil Works	NBS Component Perce Actua Desce Photo	nt (Work Break entage* all Start Date rription * so r the achieve sgth in Meter	Inversion Select state Choose fit Select state Choose fit Select state 20/03/2024 Select state	Progress Updations 1 tus percent lie No file chosen 01/11/2024 01/11/2024	Bit & Expenditure R Bit & Expenditure R Confirt 227 days 227 days	biss art 202 024 024	Date Actual Finish Date 4	Cost 83612230 81,926,975 81,926,975 0 1,027,961 1,027,961	Updated Cost 22939553 22,939,553 22,939,553 0 0	Ed Revi Progress 27.44% 28% 28% 0% 0%	iit Project
Packa x Profile mponer 1 1.1 1.2 2 2.1 3	ss > Providing 7200 FHTC > Status updations Filer/Docs Photos Review Messages V th Progress Summary Component Name Providing 7500 FHTC FHTC (Functional Household Tap Connection) New Tap Connections Replacing/ Service of Existing Tap Connection ULB Road Restoration Civil Works PWD Road Restoration	NBS Comporten Updat Perce Actua Desci Photo Enter *Len	nt (Work Break entage* al Start Date cription * co r the achieve gth in Meter	form structure) Select state Choose fit Choose fit 20/03/2024 20/03/2024 01/03/2024	Progress Updations 1 tus percent ie No file chosen 01/11/2024 01/11/2024 17/11/2024	Bil & Expenditure R Bil & Expenditure R Contint 227 days 227 days 262 days	iska X 202 024 024 024 024 024	Date Actual Finish Date Actual Finish Date	Cost 83612230 81,926,975 81,926,975 0 1,027,961 1,027,961 1,027,961	Updated Cost 22939553 22,939,553 0 0 0 0	Ed Revi Progress 27,44% 28% 28% 28% 0% 0%	it Project

If the main component has units, enter the achieved value as the updated percentage. If no value is achieved, it can be saved as zero or the same value multiple times.

NOTE: However, once a value is updated, a lower value or percentage cannot be entered on the next day.

- ✓ As soon as a progress update is added the WBS component planned data will be freezer unit revision is carried out.
- When a progress update is carried out in any of the packages under a project the status of the main project will be changed to Started, i.e. the project is under physical progress and ongoing.

 ✓ Only all the progress of packages gets 100% the main is considered to be physically completed

MY UPDATES & WBS COMPONENT REVISION

MY UPDATES

Progress updates are displayed in the "Progress Update" tab, sorted by date below the WBS component table. Users can analyse the updates based on the dates.

t Profile	Files/ Docs Photos Review	Messages WBS Component (Work Breaks	down structure)	Progress Updations	Bill & Expenditure R	isks				E	lit Proje
nponent l	Progress Summary									Rev	ision 0
	Component Name		Start Date	Finish Date	Duration	Actual Start Date	Actual Finish Date	Cost	Updated Cost	Progress	
	Providing 7500 FHTC		01/01/2024	17/11/2024	322 days	02/01/2024	÷	83612230	22939553	27.44%	
1	FHTC (Functional Household Connection)	Tap 🖌 View	01/01/2024	17/11/2024	322 days	02/01/2024		81,926,975	22,939,553	28%	
1.1	New Tap Connections		01/01/2024	17/11/2024	322 days	02/01/2024	-	81,926,975	22,939,553	28%	
1.2	Replacing/ Service of Existin Connection	g Tap	-	-	0 days	-		0	0	0%	
2	ULB Road Restoration	💉 1500 Meters	20/03/2024	01/11/2024	227 days	-	-	1,027,961	0	0%	
2.1	Civil Works		20/03/2024	01/11/2024	227 days		-	1,027,961	0	0%	٠
3	PWD Road Restoration	🖋 40 Meters	01/03/2024	17/11/2024	262 days	-	-	657,294	0	0%	
3.1	Civil Works		01/03/2024	17/11/2024	262 days	-	-	657,294	0	0%	٠
Updates										Preview S	Curve
	Date 0	omponent Name		Cov	erage details Qty A	chieved Percentag	e Percentag	e of Package File	Description		
1	02/09/2024	lew Tap Connections FHTC (Functional Household Tap Cont	nection))	Clik	to view -	24%	23.52%	-	1749 connect	tions provided	
¥ 2	25/09/2024	lew Tap Connections		Clik	to view -	28%	27 44%		connections		

BILL AND EXPENDITURE

In the package profile, locate and click on the **"Bill & Expenditure**" tab. This tab is typically situated at the top of the page within a collection of tabs, each leading to a different package feature. In this module the financial progress of a package is captured

For updating each financial progress click select 'NEW BILL" button to a new bill

oject Profile	Files/ Docs Pt	notos Review Messag	WBS Component (Work	Breakdown structure) Progre	ss Updations Bill & Expenditure	Risks				
ontractor ipient Infra	Pvt Ltd (9745818	888)				-			Char	ge Contractor
lls									Old Bills	Add Bill
il. No.	Bill No	Bill date	Amount (Rs.)	Created by	Created date	Status	Contractor/Dept	Options	Payment	Delete
			Sorry, no bills has been	added yet						

HOW TO CREATE A BILL?

- Click on 'NEW BILL" button, the page for creating new bill appears
- Enter the details required for each bill submission, including the contractor's name, bill type, and submission date.
- The bill categorizes expenses into additions and deductions, allowing for a clear financial summary.
- Users can add category items dynamically to the bill, enhancing flexibility in the billing process.
- It includes fields for inputting individual item amounts, with a total calculated for both additions and deductions.
- A grand total and net amount payable are prominently displayed at the end of the bill for quick reference.

reate Bi	ill be work			Packano 1 - Di	ineline wor	r k					
Il from*				Coloct	ipenine wor	ĸ					
	ha Castanta			Select	D t. I. t. al		•				
ame or u	ine contractor			Sapient Inira PVLLto							
ll type				Select			~				
ll No.*	0.*			Bill No.							
ll Date *	•		Bill Date								
ll Title			Title								
ll Submis	ission Date*			Bill Submissio	on Date						
o. and da	ate of the province hill of	Ala in consele		Previous bill No.				Drawieurs	Lill Date		
	ate of the previous bill of	UNIS WORK		Previous bill	NO.		dated	Previous	bill Date.		
Bill Amo	ount/Additions	UNIS WORK		Previous bill	NO.		dated	Previous	bili Date.		
Bill Amo	ount/Additions	this work		Previous bill	NO.		dated	Previous	bili Date.		Add item
Bill Amo	ount/Additions Category	UNIS WORK	Category N	ame	NO.	Amount	dated	Previous	Tota		Add Item Delete
SI No:	Category Select Category		Category N	ame	4	Amount	dated	Previous	Tota		Add Item Delete
Bill Amo SI No: 1	Category Select Category		Category N	ame		Amount	dated	Total Addi	Total 0.00 itions 0.00		Add Item Delete
SI No:	Category Select Category	~	Category N	ame		Amount	dated	Total Add	Tota 0.00 itions 0.00		Add Item Delete
Bill Amo SI No: 1 Deduction	Category Select Category ions	►	Category N	ame		Amount	dated	Total Add	Tota 0.00 itions 0.00		Add Item Delete
Bill Amo Sl No: 1 Deductio	Category Select Category ions		Category N	ame		4mount	dated	Total Add	Tota 0.00 itions 0.00		Add Item Delete
Bill Amo SI No: 1 Deduction SI No:	Category Category Category	~	Category N	ame		Amount Amount	Gated	Total Addi	Tota 0.00 itions 0.00 Tota		Add Item Delete Add Item
Bill Amo SI No: 1 Deduction SI No: 1	Category Category Select Category Select Category Select Category	~ ~	Category N Category N	ame		Amount Amount		Total Addi	Tota 0.00 itions 0.00 Tota		Add Item Delete X Add Item Delete
Bill Amo SI No: 1 Deduction SI No: 1	Category Category Select Category Select Category Select Category	 <td>Category N</td><td>ame</td><td></td><td>Amount Amount</td><td>oateo</td><td>Total Addi</td><td>Tota 0.00 itions 0.00 Tota ttons 0.00</td><td></td><td>Add Item Delete Add Item Delete</td>	Category N	ame		Amount Amount	oateo	Total Addi	Tota 0.00 itions 0.00 Tota ttons 0.00		Add Item Delete Add Item Delete
Bill Amo SI No: 1 Deduction 1	Category Category Select Category Select Category Select Category	 	Category N Category N	ame		Amount	oateo	Total Addi	Tota 0.00 itions 0.00 Tota		Add Item Delete Add Item Control Contr
SI No: 1 Deduction SI No: 1	Category Category Select Category Select Category Select Category	 	Category N	ame		Amount Amount	Tc	Total Addi otal Deduc	Tota 0.00 itions 0.00 Tota tions 0.00		Add Item Delete Add Item Delete

- Click on the submit button after entering details to save the bill
- Created bill will be listed under the same tab Bill and expenditure with bill no
- To view the bill, click on bill no, which directs to view page of that bill

NOTE: Created bill will be in the status of Payment Pending and only when payment is marked against that bill the amount is considered as expenditure and taken for analysing the financial progress

Roy Verg	tor hese (9447488092)								Change Co	ntractor
Bills									Old Bills Ad	d Bill
SI. No.	Bill No	Bill date	Amount (Rs.)	Created by	Created date	Status	Contractor/Dept	Option	Payment	Delete
1	WRD/KWA-CE(CR)/EB/3976/2022_26_1_1-Part-3	01/06/2024	22666065.00	CMMU EXPERT Jayasree V R-Jayasree	10/01/2025	Payment Pending	Roy Verghese	8	Mark As Paid	×
2	WRD/KWA-CE(CR)/EB/3976/2022_26_1_1-Part-2	07/03/2024	29110850.00	CMMU EXPERT Jayasree V R-Jayasree	10/01/2025	Paid	Roy Verghese	2		×
2				Chaball EVOEDT Income VID Income	22/12/2024	Daid	Bow Vorghoso	_	_	

HOW TO MARK THE PAYMENT AGAINST A BILL?

• In the Bill and Expenditure section corresponding each payment pending bill there is a MARK AS PAID button, click this button

• Page for updating the payment details appears

- Select the payment type as either full payment or part payment
- Update the payment date with transaction details and relevant docs (optional)
- When a bill partially made the status gets updated as such respectively

NOTE: The amount paid is taken as the actual expenditure of the package and in turn consolidated at project level

When both physical and financial progress is achieved the project is considered as complete and status of that project will be updated as completed "

OTHER MISCELLANEOUS FEATURE

RISK MODULE

"

The risk module assists in monitoring and mitigating external risks that may impede project or package progress, enabling timely action to resolve issues. Risks are categorized into 14.

To add a risk in any one or more one category in the project & package profile, locate and click on the **"Risk**" tab. This tab is typically situated at the top of the page within a collection of tabs, each leading to a different package feature. In this module the financial progress of a package is captured

The page with 14 risk category and its explanation appears, against each category there is plus symbol under add indicant column

Click on plus system to add a new risk under a selected category

Proje	ect Risks			Help
#	Risk	Explanation	Assigned/Not	Add Incident
1	SMMU Level - AMRUT Organisational Project Risk	SMMU Level - Any situation that delays the project where AMRUT's Internal Permission, Decision, Approval and fund transfer.	No	(\bullet)
2	Permission - Approval/ Permissions Related (from other departments excluding road cutting permission and land related)	Permission - Any situation where Approval/Permission from other departments (PCB/ Fire & Safety/ Railway/ BSNL/ Corporation/ Panchayat/ Funding Agency/ Electrical Inspectorate etc.) causes project delay.	No	+
3	Contract - Contract Related Risks	Contract - Any situation causing a violation of the contractual agreement/ Delay in executing the agreement/ Delay in starting the project / Delay in supplying materials	No	٠
4	Cancellation - Decided to cancel	Cancellation - Decided to cancel the project, hence no progress. Awaiting approval.	No	+
5	Dependancy - Delays due to other Projects	Dependancy - Slow progress/ New proposal for other Projects of AMRUT/ Waiting to complete or start the project from another department/ Other departments cause delays for the current project	No	٠
6	ULB Level - General ULB level delay/ Procedural delay	ULB Level - Any incident at the ULB level that delays the implementation.	No	
7	Land - Land Related Risk	Land - Any situation causing a delay in land availability (including site handing over, permission, Land acquisition, boundary demarcation, dispute)	No	÷
8	Legal - Legal Project Risk	Legal - Court Cases/ situations that generate legal implications	No	+
9	Natural - Natural Calamities Related	Natural - Any situation where Natural Calamities cause delay to the project (flood/ wind/ heavy rain)	No	
10	Protest - Public Protest	Protest - Any objection from the public to implement the work	No	+
11	Road - Road Cutting Related Risk	Road - Any situation causing delay in road cutting (permission from PWD/GP/NHAI/Corporation etc excluding delay due to slow progress or delay in other related projects)	No	÷
12	Social - Social Project Risks	Social - Any situation related to the well-being of the workforce/ stakeholders/COVID-19 Pandemic	No	
13	Technical - Technical Project Risk	Technical - Technical reasons cause a negative effect on project objectives. (seasonally waterlogged site/ geotagging related, technically not feasible)	No	٠
14	Tender - Tender Call Related	Tender - Poor response from tenderers/Lack of bidders/ any situation causing combining/splitting of packages/estimate revision/tendering-related issues	No	+

- Add risk incident page appears, enter the risk with risk details, the date and a detailed description.
- Users must specify the cause and consequences associated with the risk incident.
- The document prompts for the office with which the latest correspondence occurred, ensuring traceability.
- There is an option to attach the latest correspondence or relevant documents

Add Risk Incident - Legal Pro	oject Risk
Date*	
Description*	
Course*	
Cause	
Consequence*	
Office with which latest correspondence done*	
Attach latest correspondence/ Document	Choose file No file chosen
	Submit Cancel

- After entering the risk details click on **SUBMIT** button.
- Added risk will be listed below the same category. To update the risk status, click on the risk status plus button

Projec	t Risks										
#	Risk					Explanation	Assigned/1	Not Add Incident	No of Incidents		
1	AMRUT-0	rganisatio	nal Project Risk			KOR - Any situation where AMRUT approval/staff needs / delays the p	No	÷	0		
2	Approval/ permissio	' Permissio n and land	ns Related (from o I related)	ther departments exclud	ling road cutting	APR - Any situation where Approve Safety/ Railway/ BSNL/ Corporatio Inspectorate etc.) causes project d	No	+	0		
3	Contract F	Related Ris	ks			CRR - Any situation causing a viola supply of materials by the contract	tion of the contractual agreeme tor	ent/ delay in the	Yes	÷	1
	SI No	Code	Package/ Project	Date	Description	Cause	Consequence	Status	Risk Status Vi	ew Delete	
	1	CRR681	TVM194	15 Jan 2025	Contract Related Risks	Contract Related Risks	Contract Related Risks	Pending	+ (× ×	
4	Land Rela	ted Risk				LRR - Any situation causing a delay permission, Land acquisition, bour	No	÷	0		
5	Legal Proj	ect Risk				LPR - Court Cases/ situations that	generate legal implications		No	÷	0
6	Natural Ca	alamities R	elated			NCR - Any situation where Natural heavy rain)	No	÷	0		
7	Risks Fron	n Other Pr	ojects			OPR - Slow progress/ new propose or start the project from another of the current project	No	٠	0		
8	Road Cutt	ing Relate	d Risk			RCR - Any situation causing delay i PWD/GP/NHAI/Corporation etc e other related projects)	in road cutting (permission from excluding delay due to slow prog	n gress or delay in	No	÷	0
9	Social Pro	ject Risks				SPR - Any situation related to well Pandemic/ Public Protest related	being of workforce/ stakeholde	ers/ COVID 19	No	÷	0

PHOTO AND FILE/DOC MODULE

Any addition photos or documents related to a particular project or package can be uploaded into the corresponding profiles. To upload category in the project & package profile, locate and click on

the **"Photo & File/Doc**" tab. This tab is typically situated at the top of the page within a collection of tabs

Upload the files/Photos with a filename into system and its be listed under the particular project or package profiles

Project Profile Project Plan Files/ Docs	Photos Rodew Rolas	ProjectPatile ProjectPlan Red/Doss Phones Review Roas Gdit Project
Documents & Files	Upload new Me	Photos Upload new Photo
Project Files Upload		Project Photo Upload
Document Title		Image Title
Description		Decojilion
Document	/ Crosses Bio Yas Bio chavan *atomion resport: doc.doc.ok.ukuf.tist.okt_prd.jarg.jag.org.dorg Subox Perer	A mage Cooper the the choice.
No files added yet		

MY CONTRACTORS

To enrol the contractors to system. Locate and select **My Contractors** module from left side menu.

The page appears with **NEW CONTRACTOR** button on top right side of the page. Click select this button to add new contractors

mrut Mobile App	My Co	ntractors					New C	ontractor	
ashboard	<i>a</i> n	N	11-1 N-	Harris Monther	et	r.14	64-14-14	D-1-1-	
ly Projects	SI NO.	Name	MOD NO	License Number	Class	Edit	Status	Delete	
y Assigned Projects	1	ABDURAHMAN SADIQ	8089505939	2/2023-24	Class B		•	×	
ly Contractors	2	Ali.p.p	9387474846	34581	Class C		•	×	
verride Log	3	A M ABDULSALAM	9447434676	PWD/CIVIL/5072/2023-2024	Class C	2	•	×	
	4	Antony K.G.	9895123183	BD-2462/2023 Dt- 14/12/2023	Class C	2	•	×	
	5	BASHEER N K	9447526452	PWD/CIVIL/801/2020-21	Class C	2	۲	×	
	6	Biju T R	9349415119	2/2022-23/PHdn/KTR	Class C		٠	×	
	7	CODS Constructions	9496225106	PWD/CIVIL/3080/2023-2024	Class A	2	•	×	
	8	Eldho Aliyas	9846727501	PAN : ACAPE6777G	Class B	2	•	×	
	9	EXCEL CARE	9745060020	32ACPPJ9163L1Z3	Class C	a	-	-	-
	10	GREEN WAY SOLUTIONS	9846373333	0000000000000	Class A Ad	Contractor			
	11	Jebin Johnson	9447724183	PWD/CIVIL/4681/2023-2024	Class C CO	ntractor Name *			
	12	Jubeesh P R	9847011755	1121212	Class C				
	13	K.B.Mukeshkumar	9947426514	DB2-434/B- 11/02/2013	Class C Lic	ense Number			
	14	K K BAKKER	9846437707	1/2003-05	Class B Se	ect Class			
	15	K K Shelly	9447580587	IRR/CIVIL/335/2023-2024	Class A				Se
	16	K M MADHU	9846270598	A3-3023-22/12/2021	Class B Mo	bile No *			
	4.7			Auto (co. m. 1434 4 (5454 4454	01 0 Em	ail ID			
					EII	airib			
					Fu	l Address			
					Ba	nk Account Detail	s		
					Ac	count No			
					ве	nenciary Name			
					Ba	nk Name			
					Bra	inch Name			
					IFS	с			

** ********

DASHBOARD (POWER BI)

Overview

The dashboard overview provides real-time insights into key aspects such as project completion status, budget utilization, bill clearance, risk resolution, and analysis.

Users can apply multiple filters throughout the dashboard, refining the view based on AMRUT phases (1 & 2), tranches, CMMU, district, urban local body, constituency, Lok Sabha, sector, implementation agency, and project status.

The sector-wise project distribution section offers a clear representation of projects and their respective budgets across various sectors.



Time Progress

The Time progress page categorizes projects into on-time and delayed, with an option to toggle between package-level and project-level details.



Financial Progress

The financial progress section highlights budget allocation, utilization, bill clearance status, and outstanding dues. It also displays fund-sharing details among the central, state, and urban local bodies.



Physical Progress

In the physical progress section, milestone-wise completion and delays of each project are presented, along with a comparison to the state average.



Project Report

A comprehensive project report is available, summarizing key details such as status, district, local body, sector, and more.

And Mosters for Rejeccentian and Moster Transformation		AMRUT P	MS	Ove	erview Tim	e F	inancial	Physic	cal	Report	Outcome	Ri
		PROJECT R	EPORT								Toggle for package	detail
Phases				Select Colomns		Click here	DPR Da	te		AS Da	te	
AMRUT II	\sim	Project Code	~ (Multiple selections	\sim	for more date filter	rs ∓↓ 12/1	5/2015 🗐		3/2	6/2016 📼	
Tranche								,				_
All	\sim	S. No.	Project ID	Tit	le	Sect	tor !	Status	AS Amount	Expenditure	Physical Progress	4
СММИ		4	KL- VADAKARA-6336	AMRUT 2.0- Water Supply Muncipality	Scheme To Vadakara	Water Sup	ply Starte	t	₹15.0 Cr	₹0.00	43.00%	
All	\sim	5	KL-ADOOR-7707	AMRUT 2.0-Laying and stree distribution system in Ador	ngthening the existing or Municipality	Water Sup	ply Comp	leted	₹2.4 Cr	₹1.83 Cr	100.00%	
District		6	KL-ADOOR-8963	AMRUT2.0 Rejuvenation of Ward 23	Ayyappan parakulam in	Waterbody Rejuvenati	y Starte on	ł	₹0.4 Cr	₹0.20 Cr	98.00%	
All	~	7	KL-ADOOR-8966	AMRUT2.0-Rejuvenation of 27	Karuvatta pond in ward	Waterbody	y Starte	ł	₹0.4 Cr	₹0.00	12.00%	
All	\sim	8	KL-ADOOR-8969	AMRUT2.0 Rejuvenation of in ward 14	Mulloorkulangara pond	Waterbody	y Comp	leted	₹0.3 Cr	₹0.17 Cr	100.00%	,
Constituency		9	KL-ADOOR-8971	AMRUT2.0-Rejuvenation of	Valiyakulam in ward 10	Waterbody Rejuvenati	y Comp	leted	₹0.1 Cr	₹0.08 Cr	100.00%	
All	\sim	10	KL-ALAPPUZHA-	Rejuvenation of Shadamon	y thodu in Alappuzha	Waterbody	y Comp	leted	₹0.6 Cr	₹0.38 Cr	100.00%	,
Loksabha				nancipality					T1 0 0	#0 C0 C	05.000	
All	\sim											
Sector		Tender Exe	cess Amount	#Projects (TE)	#Packages (TE)	E	xpenditure	Tender E	xcess Amo	unt #Proj	jects (ETE) #Pac	kages
All	\sim	by Project/Pa	ckage	51	69	b	y Project/Packa	ge		2	2	
Impl. Agency										_		
		KL-KANN	IUR-11297		21,374,160.5	5 <mark>0</mark>	KL-THIRUVA	NANTHAPU	JRAM-7647		427,3	41.85
All	~	B KL-THALA	ASSERY-7607		18,131,277.0	02	KL-KOTTARA	KKARA-950)2		152,7	98.00
Project Statu:	•	KL-PAYYC	DLI-7485		15,043,976.9	94	Total				580,1	39.85
All	\sim	KL-TIRUR	ANGADI-6429		13,822,658.7	6						
		KL-KOTTA	AYAM-6552		13,085,081.3	86						
		🖲 KL- VADA	KARA-6336		11,949,504.8	32						
Clear all Filters		Total			222 191 066	Ē						

<u>Outcome</u>

The quantifiable sector-wise outcomes of each project are shown here, providing measurable insights into their impact.

AMRU'	T PMS	Overview Time Financia	al Physical Report Outcome Risk
PROJECT OUTCOME			
Water Su	Micro Water Supply	Urban Transport Stormwater Dra Waterbody Rejuvenation	Green Spaces & Parks Sewerage/Septage management
Road Restoration		Water Treatment	Storage
PWD Road Restoration ULB Road Restoration	145.37 km 123.34 km	Water Treatment- Micro Water Supply Water Treatment Plant (WTP) 160.00 MLD	GLSR (Ground Level Service Reservoir) 0.50 LL OHSR (Over Head Service Reservoir) 142.00 LL
Monitoring & Control	Impl. Type Active New Total	Proposed Achieved Components 100 100 1 100 100 1 100 100 1	Water Supply Network
Bulk Meter	1 No(s)		Distribution Network 1440.76 km Clear Water Pumping Main 15.61 km Raw Water Pumping Main 2.34 km
Water Connection		Intake Structures (Well, Check Dam,Pump House, etc.)	Blocks/ Rooms/ Offices
FHTC (Functional Household Tap Connection)	64834 No(s)	Intake Well 2 No(s)	

<u>Risk/ issues</u>

The risk analysis section displays total risks, pending issues, resolved cases, and actions taken. For immediate attention, a month-wise count of each project is also available.

Atal Messon for Rejevenal	ation	AMRUT	PMS	Overvi	ew	Time	Financial	Physical	Report	t Outcome	Risk
Phases	5	RISK PRO	GRESS					-			
AMRUT II	\sim	All	Cancellation	Contract Dependancy	Land	Legal	Natural	Projec	t All		\sim
Tranche	e					\equiv					
All	\sim	Permission	Protest	Road SMMU Level	Social	Technical	Tender	Risk Statu	IS All		\sim
CMMU	J										-
		Total Disks	Dista Densila a	Project ID	Pending To	tal		Risks by N	lonth		
All	\sim	lotal Risks	Risks Pending	KL-PAYYANNUR-9731	1	1					
District	t	1.1		Natural	1	1		risks			
All	\sim	Action taken	Resolved					er of			
ULB				Total	1	1		fu mp			
All	×							2		1	
Constitue	-							11st 2023	2023 2024 2	02ª 202ª 202ª 202ª 202ª 202ª	er 2024 2022 2024
constitue		0	0 1					Auge Septemic,	anue Februe	AP N. JU. Juptemic Septemic	ecemb
All	\sim	0								Month	
Loksabh	ha										
All	\sim	Risk ID	Project ID	Package Code		Office	Of	ficer in charge	Risk Status	Date of Submission	
Sector	r	660 KL-N	MAVELIKKARA-7819	KL-MAVELIKKARA-7819P1	PWD			F	Pending	16-04-2024	PWD road cutting
		668 KL-K	KOOTHATTUKULAM-6117	KL-KOOTHATTUKULAM-6117P1	NHAI			F	Pending	14-09-2023	Delay in pipe layi
All	\sim	670 KL-T	THRIPPUNITHURA-7138	KL-THRIPPUNITHURA-7138P1	NHAI			F	Pending	26-09-2023	NHAI Denay Perr
Impl. Age	ency	671 KL-N	MUKKAM-7433	KL-MUKKAM-7433P1	KWA			1	Pending	24-12-2022	complete the Pip
		673 KL-T	THRISSUR-15864	KL-THRISSUR-15864P1				F	Pending	08-07-2024	Heavy rain and ri
All	\sim	674 KL-0	CHALAKUDY-6131	KL-CHALAKUDY-6131P1				F	Pending	03-06-2024	Heavy rainfall
Project Sta	atus	675 KL-S	SHORANUR-6396	KL-SHORANUR-6396P1					rending	03-06-2024	Heavy rainfall
	*	676 KL-S	SHURANUR-6396	KL-SHORANUR-6396P1	KWA/PWD			1	rending	05-02-2024	Procedural delay
All	\sim	677 KL-I	RINJALAKUDA-7697	KL-IRINJALAKUDA-7697P1	10050 0010				olved	08-07-2024	Heavy rainfall
		6/8 KL-I	KINJALAKUDA-7697	KL-IKINJALAKUDA-769/P1	KSEB/KWA			-	olved	01-04-2024	KSEB post shifting
		679 KL-I	RINJALAKUDA-7695	KL-IKINJALAKUDA-7695P1					olved	23-08-2023	Delay from contr
		680 KL-I	RINJALAKUDA-7695	KL-IRINJALAKUDA-7695P1				F	rending	01-06-2024	Heavy rainfall
Clear all Filt	ters	681 KL-I	RINJALAKUDA-7696	KL-IRINJALAKUDA-7696P1				F	Pending	01-06-2024	Heavy rainfall
				10 100 CT C 105 D 1							

User Manual WQNIS

Water Quality Monitoring Information System



Table of Contents



Introduction

WQMIS is an advanced solution for real-time water quality monitoring, de-centralized data collection, validation, and centralised reporting.



The system comprises three modules: A Field Application, a Web Platform and a Dashboard.



Mobile Application

empowers grassroots participation by enabling real-time, accurate data collection.



Water Sample Collection:

Women SHG Members can securely login with user-specific credentials, ensuring data security and accountability.



The app streamlines data capture with auto-generated sample IDs, date and time of water sample collection, Area, Water Source type, GPS location tracking and location photos guaranteeing precise sample identification. Integrated photo and GPS features provide contextual evidence, enhancing transparency and detailed analysis.

← Sample Collection	← Sample Collection
Sample ID TES-ZOM-4	
09-02-2025 17:35:57	
Test (
Test	
Ward	76.9657,8.4696 Image: Control of the second se
Area Name	D Photo
Sample Point Description	
Source Type	
Location	
	Submit

On submitting the Sample collection data, it will be synced to the server.



Water Quality Testing:

After submitting the water sample collection information, the water sample must be tested with a field test kit (FTK) or by the Water quality testing laboratory. The testing date and time will be captured automatically. The testing method and field test kit name or lab name must be entered. The results from the lab can be uploaded to the system also.

Testing Date		BOD	
09-02-2025 17:37:32	()	Calcium	
		5	
Testing Method	0		
RUT Mitra Parameters		COD	
Alkalinity	0	DO	
Ammonia	0	Magnesium	
Chloride	0		
Colour	0	Phosphate	
E.Coli	()	Sulphate	
		Biological Parameters	
Fluoride	0	100	
Hardness	6	Remarks (Max Length 100) not safe	

Users can save incomplete surveys as drafts and submit finalized reports for review, ensuring seamless data management. Water quality parameters are arranged in the order of physical, chemical and biological. For easy access to Amrut Mitras, some parameters are arranged under the Amrut Mitra category.

After entering the tested value, the user is taping the submit button. The data will be synced to the server instantly.



Every data point feed into a centralized system, and it is visible to authorities in real-time in a Web Application by enabling authorities to track trends, identify risks, and make informed decisions.

Automated real-time validation instantly flags unsafe samples, allowing for quick intervention on the Mobile app, Web application and Dashboard.

← Survey Details :	← Survey Det	ails :	← Survey Det	ails
Area Name : TVM			pH Value	9
Source Type : Open Well	TES	ST DETAILS	CHEMICA	L PARAMETERS
Sample Point	Testing Date	. 09-02-2025 17:37:32	Parameter	Detected Value
Description	lesting bate	. 07-02-2023 17:37:32	Ammonia	1
	Testing Method	: TEST KIT	Alkalinity	2
Location			Hardness	100
	Test Kit Name	: NICE	Chloride	3
Na	Remarks	: not safe	Residual Chlorine	2
		and the second	Sulphate	
	PHYSICA	L PARAMETERS	Nitrate	2
Pappanamcode			Phosphate	
	Parameter	Detected Value	DO	
Sathya Nagar	TDS	600	BOD	
	Turbidity	100	COD	
	Temperature	25	Calcium	5
a la contra cont	Colour	AGREEABLE	Magnesium	6
	laste	DISAGREEABLE	Fluoride	1
noto	Udour	AGREEABLE	Iron	0.4
	pH value 9		BIOLOGICAL PARAMETERS	
A REAL PROPERTY AND A REAL PROPERTY.	CHEMICA	AL PARAMETERS		
	Parameter	Detected Value	Parameter	Detected Value
A STREET AND A STREET AND A STREET AND A	Ammonia	1	Coliform	100
	Alkalinity	2	E Coli	DETECTED
	Hardness	100	2.001	DETECTED
SALEN AND AND AND AND AND AND AND AND AND AN	Chloride	3	Within the acceptable	limit.
and the second second	Residual Chlorine	2	Between acceptable a	nd maximum permissible limit.
	Sulphate		Beyond the maximum	permissible limit.
	Nitrate	2		
Download	Do	ownload	Do	wnload

The test results can be downloaded as PDF files instantly and shared to the public through various online media.



Web Application

It is a powerful governance tool designed to streamline water quality monitoring and decision-making. Administrators can securely log in to access a real-time dashboard that provides live updates on survey data, project status, and high-risk areas.

At a glance, admins can access live updates on total surveys, completed and draft entries, and districtwise classifications of safe, unsafe, and moderately safe water samples.

] Dashboard	Total Survey 14	Safe Vs Unsafe Vs Moderate	Total Completed	
Мар				
Fund Management	Safe Vs Unsafe Vs Moderat	e	Seasonal Status	
	Sale Count	Unsafe Count 🥚 Moderate Count	0%	
			O Premonsoon	
	2 0 Trefusion Kozhikov	Se Test Emskolam	Postmonsaon	
Admin Module	Survey Status		Safe & UnSafe	
PowerBl				
- Logout				

The Admin Module offers secure authentication and authorization management, ensuring controlled access for different stakeholders. Admins can also manage fund allocation, ensuring optimal resource distribution for water quality initiatives.

ite administration			
AUTHENTICATION AND AUTHORIZATION			Recent actions
Groups	+ Add	🖋 Change	
Users	+ Add	🥒 Change	My actions
			+ sumitha
FUND MANAGEMENT			User
Completed Survey Amount Master	+ Add	/ Change	+ salini User
Funds	+ Add	Change	+ Ward Master Data Upload
Other Expense	+ Add	🖋 Change	Total Coliform (mg/l)
Remuneration		View	Total Coliform (mg/l) Parameter Master
UTIL			Dissolved oxygen (DO) (mg/l) Parameter Master
Master Data Upload	+ Add	/ Change	Dissolved oxygen (DO) (mg/l) Parameter Master
WATERQUAL TY APP			Dissolved oxygen (DO) (mg/l) Parameter Master
Coliform Parameters	+ Add	🤌 Change	Dissolved oxygen (DO) (mg/l) Barameter Macter
Colour Parameters	+ Add	/ Change	Bio-Chemical Oxygen Demand
District	+ Add	Change	(BOD) (mg/l)

The Parameter Master ensures water quality standards are met by validating sample results against predefined limits.

	WQMIS				
	Home > waterquality app > Parameter Master				
1	Start typing to filter		Solort Daramatar Master to change		
	AUTHENTICATION AND AUTHORIZATION		Select Parameter Master to change		
	Groups + Add		PARAMETER MASTER		
	Users	+ Add	Phosphate		
			Temperature (°C)		
	FUND MANAGEMENT		E. coli (mg/l)		
	Completed Survey Amount + Master	+ Add	Total Coliform (mg/l)		
		_	Chemical Oxygen Demand (COD) (mg/l)		
	Funds	+ Add	Bio-Chemical Oxygen Demand (BOD) (mg/l)		
	Other Expense	+ Add	Dissolved oxygen (DO) (mg/l)		
ĸ	Remuneration		Sulphate (mg/l)		
			Nitrate (mg/l)		
	UTIL		Magnesium (mg/l)		
	Master Data Upload	+ Add	Iron (mg/l)		
		_	Hardness (mg/l)		
	WATERQUALITY APP		Residual Chlorine (mg/l)		
	Coliform Parameters	+ Add	Fluoride (mg/l)		
	Colour Parameters	+ Add	Chloride (mg/l)		

Power BI Dashboard

For deeper insights, the Power BI dashboard provides real-time visualizations of water quality trends, project progress, and high-risk areas, empowering data-driven decisions.



A key feature is the ability to apply filters for precise data extraction, based on district, urban local bodies, wards, season, parameters, source category and type.

Users can analyze water safety across different districts and Urban Local Bodies making it easy to identify areas that need immediate attention, with powerful filtering options to refine data.

The dashboard presents safety distribution across various water sources like wells, reservoirs, and municipal supplies.





A detailed analysis of physical, chemical, and biological parameters.

Detailed analysis of Source category: Groundwater, Surface Water, and Treated Water.



Water Source type under each Source category.



For a quick overview, the interactive map visualizes Kerala's water safety trends.



The expenditure analysis ensures transparency in testing costs at the district, ULB, and ward levels—supporting better budget planning and resource allocation.



Conclusion

This data-driven approach enhances communication and decision-making, restoring public trust in water safety management. With real-time insights, safer water for everyone can be ensured.
