


# Environmental Monitoring Report

## for Redevelopment and Enhanced Oil Recovery (EOR) Programme

April 2026 ~ September 2026

# CONTENTS

1. **Executive Summary** ..... 1
2. **Project Description and Production Information** ..... 6
2.1 Mann Field Operation Status ..... 6
2.2 Current Operations Summary ..... 7
2.2.1 Remedial and Work Over Operations within 6 months ..... 7
2.2.2 Mobile Power Generator Register Lists in Mann Field ..... 8
3. **Environmental Management Organization** ..... 10
4. **Highlights on HSE Key Performance Indicators** ..... 11
5. **Environmental Management Plan** ..... 14
5.1 Environmental Management System Framework ..... 14
5.2 Waste Management Plan ..... 15
5.2.1 Monitoring on Waste Management Status ..... 16
5.2.2 Solid Waste Management in MPRL E&P ..... 17
5.2.3 Monitoring Data and Statistics ..... 19
5.3 Emergency Response Plan ..... 22
5.3.1 Emergency Response Plan Implementation and Progress ..... 22
5.4 Spill Response Plan ..... 23
5.4.1 Spill Response Plan Implementation and Progress ..... 24
5.5 Health & Hygiene Management Plan ..... 25
5.5.1 Health & Hygiene Management Plan Implementation and Progress ..... 26
5.6 MEDEVAC Procedures ..... 27
5.6.1 MEDEVAC Procedure Implementation and Progress ..... 28
5.7 Transportation Management Procedures ..... 29
5.7.1 Transportation Management Procedures Implementation and Progress 29
5.8 Contractor Environmental Management Plan(s) ..... 30
5.8.1 Contractor Environmental Management Plan(s) Implementation and Progress ..... 31
6. **Environmental Monitoring Plan** ..... 32
7. **Complying with ECC Commitments and Follow-up Actions** ..... 40
8. **Monitoring Survey & Activities** ..... 82
8.1 Ambient Air Quality Monitoring ..... 82

8.2 Noise Quality Monitoring ..... 88
8.3 Soil Quality Monitoring ..... 90
8.4 Surface Water Quality Monitoring ..... 94
8.5 Groundwater Quality Monitoring ..... 98
8.6 Monitoring on Sludge Management Status ..... 102
8.7 Monitoring on Produced Water Management Status ..... 103
8.8 Monitoring on Discharge of Treated Wastewater and Runoff ..... 104
8.8.1 Base Camp Water Discharge ..... 104
8.8.2 Monitoring of Sewage Treatment System Water Quality ..... 105
8.8.3 Hydro-test Water and Domestic Water ..... 106
8.8.4 Monitoring of Discharge Water from Warehouse (Tubular Section) ..... 107
8.8.5 Monitoring of Discharge Water from Down-Hole Workshop ..... 108
8.8.6 Monitoring of Discharge Water from Mechanical Workshop ..... 110
8.9 Use of Chemicals for EOR ..... 112
8.10 Monitoring of Camp Water Quality (Drinking Water Quality) ..... 113
8.11 Monitoring of Ground Water Quality Near the Injection Well ..... 114
8.12 Monitoring on Gas Venting ..... 117
8.12.1 Monitoring of Hydrogen Sulphide ($H_2S$) ..... 120
**9. Occupational Health and Safety Performance ..... 123**
9.1 HSE Statistics Pyramid ..... 123
9.2 Incident Status ..... 124
9.3 HSE Audits & Inspections ..... 124
9.4 HSE Training and Awareness ..... 128
**10. Corporate Social Responsibility ..... 134**
10.1 Executive Summary ..... 134
10.2 Our Approach & Objectives ..... 137
10.3 Implementation Mechanism ..... 140
10.4 Our Performance in Numbers (Fiscal Year 2026-2027) ..... 141
10.5 Monthly Performance Highlights ..... 142
10.6 Social Performance Updates (April - September 2026) ..... 148
10.6.1 Community Infrastructure Development ..... 148
10.6.2 Community Livelihood Development ..... 162
10.6.3 Educational Partnership Program ..... 168

10.6.4 Community Capacity Building ..... 172
10.6.5 Community Healthcare Program ..... 188
10.6.6 Community-led Waste Management Program ..... 195
10.6.7 Operational Grievance Mechanism ..... 205
10.6.8 Stakeholder Engagement and Information Disclosure ..... 208
10.6.9 Corporate Philanthropy ..... 214
10.6.10 MOGE Employee-Centered CSR Program ..... 215
**11. Conclusion ..... 217**
**12. Annex ..... 218**
Annex – 1 Laboratory Results ..... 219

# LIST OF TABLES

Table 1: List of Acronyms ..... 13

Table 2: Remedial and Work Over Operation Activities ..... 7

Table 3: Mobile Power Generator List ..... 9

Table 4: Environmental Management Organization Roles and Responsibilities ..... 10

Table 5: Monthly Waste Monitoring Record ..... 20

Table 6: Yearly Waste Monitoring Record ..... 21

Table 7: MPRL E&P's Self-Monitoring Plan and Schedule ..... 33

Table 8: Environmental and Social Monitoring Program (Construction and Operation Phase) ..... 35

Table 9: Implementation and Follow-up Actions on ECD's Comments ..... 41

Table 10: Ambient Air Quality Monitoring Stations ..... 83

Table 11: Air Quality Monitoring Parameters ..... 83

Table 12: Summary of Air Quality Monitoring Results ..... 87

Table 13: Noise Monitoring Stations ..... 88

Table 14: Noise Quality Monitoring Results at Z3AQN ..... 89

Table 15: Noise Quality Monitoring Results at Z4AQN ..... 89

Table 16: Baseline soil sampling locations ..... 90

Table 17: Soil Quality Monitoring Results ..... 93

Table 18: Surface Water Quality Monitoring Locations ..... 94

Table 19: Surface Water Quality Monitoring Results ..... 97

Table 20: Groundwater Quality Monitoring Locations ..... 98

Table 21: Result Summary of Groundwater Quality Monitoring ..... 101

Table 22: Bio-filter Outlet Water Quality Monitoring (Sewage Treatment System) ..... 106

Table 23: Discharge Water from Warehouse (Tubular Section) ..... 108

Table 24: Discharge Water from Down-hole Workshop ..... 109

Table 25: Discharge Water from Mechanical Workshop ..... 111

Table 26: Drinking Water Quality Monitoring from MPRL E&P Base Camp (RO Outlet) ..... 114

Table 27: Groundwater Quality Monitoring near Injection Well 132 (Ko Win Maung) ..... 115

Table 28: Groundwater Quality Monitoring near Injection Well 132 (Ma Nyein) ..... 115

Table 29: Selected Gas Venting Wells Locations ..... 117

Table 30: Monitoring Results of the Hydrogen Sulphide ($H_2S$) ..... 120

# LIST OF FIGURES

Figure 1: MPRL E&P Environmental Management System Framework....14
Figure 2: Waste Management Process....15
Figure 3: 3Rs....16
Figure 4: Vegetation at WMC....17
Figure 5: Segregated Recycle Waste at WMC....18
Figure 6: Waste Management Compound....18
Figure 7: Hazardous Waste Stored at WMC....19
Figure 8: Monthly Waste Monitoring Records from April 2026 - September 2026....20
Figure 9: Yearly Waste Monitoring Record (2020 - 2026)....21
Figure 10: Muster Drill at MPRL E&P Base Camp....23
Figure 11: Spill Response Drill Exercise at Mobile Workshop....25
Figure 12: Health and Hygiene Inspection at Base Camp....26
Figure 13: Heat Stress and Heat Stroke Awareness Activities at Mann Field....26
Figure 14: Medical Emergency (Man-Down) Drill Exercise of P-70 at M-484....28
Figure 15: Safe Driving Awareness and Vehicle Inspection....30
Figure 16: RO Drinking Water System Inspection and Maintenance by Service Provider....31
Figure 17: Field Inspection Regarding 12th EMoR by the Regional ECD (Magway)....79
Figure 18: Tree Plantation Sites Map of Mann Field....80
Figure 19: Plantation Layout at GOCS-1 Campus....81
Figure 20: Tree Planting Campaign 2026....81
Figure 21: Awareness Sharing About Possible Super El Nino 2026-2027....81
Figure 22: Timeline of Environmental Monitoring Plan (2026-2027)....82
Figure 23: Locations of Air and Noise Monitoring Stations....85
Figure 24: Air & Noise Quality Monitoring at Z3AQN....86
Figure 25: Air & Noise Quality Monitoring at Z4AQN....86
Figure 26: Location of Soil Quality Monitoring....91

Figure 27: Soil Quality Monitoring at Z3SW1, Z3SW2, Z4SW1, Z4SW2 ..... 92
Figure 28: Location Map of Surface Water Quality Monitoring ..... 95
Figure 29: Surface Water Samples Collection at Z3SW1, Z3SW2, Z4SW1, Z4SW2 ..... 96
Figure 30: Groundwater Quality Monitoring Locations ..... 99
Figure 31: Groundwater Sampling at Z3GW1 and Z4GW2 ..... 100
Figure 32: Sludge Management Compound (SMC) ..... 102
Figure 33: Produced Water Injection into Shut-in Wells ..... 103
Figure 34: Produced Water Injection Process ..... 103
Figure 35: Produced Water Management ..... 104
Figure 36: Regular Maintenance of Bio-filter by Service Provider ..... 105
Figure 37: Warehouse Tubular Section ..... 107
Figure 38: Water Sample Collection at Warehouse Tubo Section ..... 107
Figure 39: Downhole Workshop ..... 108
Figure 40: Water Sample Collection at Mechanical Workshop ..... 110
Figure 41: Water Sample Collection from RO Drinking Water System ..... 113
Figure 42: Water Sample Collection at Ko Win Maung Tube-well ..... 116
Figure 43: Water Sample Collection at Ma Nyein Tube-well ..... 117
Figure 44: Gas Venting Wells and Vented Gas Volume Measurement Record ..... 119
Figure 45: $H_2S$ Monitoring Activities ..... 122
Figure 46: HSE Statistics Pyramid - Status as of 30 September 2026 ..... 123
Figure 47: Permit to Work (PTW) Audit ..... 125
Figure 48: Lifting Gear, Hoisting & Handling Equipment Inspection ..... 126
Figure 49: Spill Kit, Ladder, and Safety Harness Inspection ..... 126
Figure 50: Earthing Resistance Testing ..... 127
Figure 51: Chemical Storage Inspection ..... 127
Figure 52: Facility and Safety Equipment Inspection ..... 128
Figure 53: Inspection Tour of the Technical Manager ..... 129
Figure 54: HSE Outstanding Performer Awarding ..... 130
Figure 55: Best CARE Card Awarding ..... 131

Figure 56: Electrical Safety Training ..... 131
Figure 57: Refresher Training for the M&AS Team ..... 132
Figure 58: Conducting Community Infrastructure Site Assessments and Stakeholder Consultations in Mann Field Communities ..... 150
Figure 59: Completing the Concrete Drainage System Extension at Ma Kyee Chaung Ward ..... 151
Figure 60: Completing the Motorcycle Parking Shelter at Pauk Kone School ..... 152
Figure 61: Completing the Concrete Approach Road and Drainage System at Aye Mya Village ..... 153
Figure 62: Completing the Concrete Culvert at Mann Kyoe Village ..... 154
Figure 63: Completing the Concrete Slab Road near the Let Pan Ta Pin Village Damayone ..... 155
Figure 64: Completing the Clinic Building Renovation at Lay Eain Tan Village ..... 156
Figure 65: Completing the Concrete Road Slab at the Entrance to Let Pan Ta Pin School and Providing Flowering Plants and Pots ..... 157
Figure 66: Completing Water Pipeline Installation Along Main Streets in Mei Bayt Kone Village ..... 158
Figure 67: Conducting Annual Water Quality Testing at Schools in Mann Field Communities ..... 159
Figure 68: Conducting Socio-Economic Surveys in Mann Field Communities ..... 159
Figure 69: Organizing Community Tree Planting Activities in Mann Field Communities ..... 161
Figure 70: Distributing Plastic Mulches to Farmers in Mann Kyoe Village under the Seed Bank Program ..... 164
Figure 71: Monitoring Crop Production, Collecting Data, and Facilitating Seed Returns and Redistribution Under the Seed Bank Program ..... 164
Figure 72: Organizing a Soil Enhancement Knowledge-Sharing Session for Mann Field Communities ..... 165

Figure 73: Organizing a Two-Day Hands-On Agricultural Training for Farmers in Mann Field Communities ..... 166

Figure 74: Monitoring Farmers' Preparations for Tomato Cultivation ..... 167

Figure 75: Monitoring Soil Preparation and Tomato Cultivation Activities ..... 167

Figure 76: Supporting Youths from Mann Field Communities to Attend the Batch-14 Entrance Examination at No. 5 ITC (Magway) ..... 170

Figure 77: Providing Scholarship Support to Youths from Mann Field Communities and MOGE Families ..... 170

Figure 78: Monitoring the Academic Progress of Scholarship Beneficiaries ..... 171

Figure 79: Organizing Basic and Refresher Art Classes for Children in Mann Field Communities ..... 175

Figure 80: Organizing a Flower Button Handmade Class for Women in Mann Field Communities ..... 176

Figure 81: Organizing Basic Computer Skills Training for Youths in Mann Field Communities ..... 177

Figure 82: Organizing the Summer Program Closing Ceremony ..... 179

Figure 83: Celebrating World Environment Day in Mann Field Communities ..... 181

Figure 84: Organizing an Award Ceremony for Winners of the Curious Minds Quiz Program ..... 182

Figure 85: Showcasing Mann Field CSR Initiatives at the School Library Development and Reading Promotion Festival ..... 184

Figure 86: Organizing Storytelling Sessions at Mann Kyoe, Aye Mya, and Nan U Community Centers ..... 185

Figure 87: Organizing World Cleanup Day in Mann Field Communities (Knowledge Sharing on Food Waste and Composting Demonstration) ..... 186

Figure 88: Organizing World Cleanup Day in Mann Field Communities (Expansion of Compost Stations and Installation of Plastic Waste Bins) ..... 187

Figure 89: Delivering Mobile Clinic Services and Conducting Home Visits in Mann Field Communities ..... 189

Figure 90: Statistics of Patients' Visit to Mobile Clinics around Mann Field ..... 190

Figure 91: Organizing Eye Health Programs for Elderly Community Members in Mann Field Communities ..... 191

Figure 92: Facilitating Eye Surgery Procedures for Elderly Community Members ..... 192

Figure 93: Organizing Rabies Health Talks Sessions at Schools and Mobile Clinic Locations in Mann Field Communities ..... 194

Figure 94: Monitoring the Community-Led Waste Management System in Mann Field Communities ..... 197

Figure 95: Tracking Waste Collection Trends in Mann Field Communities ..... 197

Figure 96: Organizing Community Cleanup Campaigns in Mann Field Communities ..... 199

Figure 97: Conducting Small-Group Household Knowledge-Sharing Sessions on Waste Management and Waste Segregation in Mann Field Communities ..... 200

Figure 98: Supporting Trash Hero Minbu Community Cleanup Activities in Mann Field Communities ..... 201

Figure 99: Monitoring Community-Managed Compost Station Pilot Projects in Mann Field Communities ..... 202

Figure 100: Conducting Compost Harvesting and Distribution Activities with Community Members ..... 203

Figure 101: Information Sharing on the Community-Managed Compost Station Pilot Project ..... 204

Figure 102: Key Performance Indicators of OGM in Mann Field ..... 206

Figure 103: Received and Closed Cases, 2014-to-date ..... 206

Figure 104: Addressing Operational Grievance Mechanism (OGM) Cases in Mann Field Communities ..... 207

Figure 105: Organizing the Biannual CSR Progress Review Meeting for FY 2025-2026 with MOGE Officials in Nay Pyi Taw ..... 209

Figure 106: Organizing the Biannual CSR and HSE Progress Update Meeting in Mann Field Communities ..... 210

Figure 107: Providing Social Management Updates to the ECD (Magway) Team ..... 210

Figure 108: Distributing Insight! and Doh Mann Myay Newsletters to Stakeholders 211

Figure 109: Coaching a New Community Volunteer from Let Pa Taw Village in Mann Field Communities ..... 211

Figure 110: Organizing Monthly Community Volunteer Meetings and Capacity-Building Training Sessions ..... 212

Figure 111: Publishing Insight! Newsletter (Issue 47) and Doh Mann Myay Newsletter (Issue 21) ..... 213

Figure 112: Publishing Insight! Newsletter (Issue 48) and Doh Mann Myay Newsletter (Issue 22) ..... 213

Figure 113: Publishing the 9th Communication on Progress (CoP) to the United Nations Global Compact (UNGC) ..... 213

Figure 114: Contribution to the Patthana Recitation Ceremony in Mann Kyoe Village ..... 214

Figure 115: Supporting the School Library Development and Reading Promotion Festival ..... 214

Figure 116: Donating MMK 80,000,000 for Rice and Cooking Oil Assistance Under the MOGE Employee-Centered CSR Program ..... 216

Figure 117: Contributing MMK 10,000,000 for Vocational and Life Skills Training and MMK 5,000,000 for the Purchase of a Marching Drum Set for Eain Yar High School ..... 216

*Table 1: List of Acronyms*

| Acronym | Definition |
|---|---|
| ALARM | Advancing Life and Regenerating Motherland |
| API | American Petroleum Institute |
| Bcf | Billion Cubic Feet |
| BHA | Bottom-Hole Assembly |
| CSR | Corporate Social Responsibility |
| DNA | Deoxyribonucleic Acid |
| DWQS | Drinking Water Quality Standard |
| ECC | Environmental Compliance Certificate |
| ECD | Environmental Conservation Department |
| EIA | Environmental Impact Assessment |
| EMoR | Environmental Monitoring Report |
| EMP | Environmental Management Plan |
| EOR | Enhanced Oil Recovery |
| ERP | Emergency Response Plan |
| GOCS | Gas and Oil Collecting Station |
| HoDs | Head of Departments |
| HSG | Health and Safety Guidance |
| HSE | Health, Safety and Environment |
| ISO | International Organization for Standards |
| KPIs | Key Performance Indicators |
| KCl | Potassium Chloride |
| LPG | Liquefied Petroleum Gas |
| MEDEVAC | Medical Evacuation |
| MFO | Mann Field Office |
| MMbbls | One Million Barrels of Oil |
| MOGE | Myanma Oil and Gas Enterprise |
| MONREC | Ministry Of Natural Resources and Environmental Conservation |
| MYO | MPRL E&P Yangon Office |
| NEQEG | National Environmental Quality (Emission) Guidelines |
| NSWQS | National Surface Water Quality Standard |
| PCC | Performance Compensation Contract |
| PPE | Planning and Production Engineering |
| PSD | Process Shut-Down / Pump Setting Depth |
| PTP | Put to Pump |
| RO | Reverse Osmosis |
| RSBV | Replaced Out Pump, Bumped Valve |
| SMC | Sludge Management Compound |
| WMC | Waste Management Compound |

# 1. Executive Summary

Established in 1996, MPRL E&P operates as a leading upstream energy enterprise in Myanmar, grounded in rigorous technical standards, ethical governance, and environmental stewardship.

This 13th Environmental Monitoring Report documents environmental performance and regulatory compliance for the six-month period from April to September 2026. Working in close coordination with the Regional Environmental Conservation Department (ECD, Magway), MPRL E&P conducted comprehensive monitoring of air, noise, soil, and water quality across the field.

Key sections detail the active implementation of the Environmental Management Plan (EMP) and its eight associated sub-plans, operational waste management performance, and proactive mitigation measures deployed to address ongoing field and security challenges.

## Key highlights within the monitoring periods (April 2026 to September 2026)

### Environmental Performance

From July 21 to 23, 2026, MPRL E&P conducted joint environmental monitoring with the Regional ECD (Magway), verifying ambient air and noise parameters at designated stations Z3AQN and Z4AQN. During this engagement, on July 21, the Deputy Director of the Magway Regional ECD conducted an on-site inspection of Mann Field to review compliance under the 12th EMoR. Following a performance briefing by MPRL E&P operations, HSE, and CSR field management, the ECD delegation inspected the Aye Mya Village community cleanup initiative, evaluated operational safeguards at the Mechanical Workshop and P-100 drilling location, and witnessed field monitoring at station Z3AQN.

In coordination with the Regional ECD, MPRL E&P carried out a joint environmental verification survey from July 21 to 23, 2026, maintaining full alignment with EIA and ECC stipulations. Groundwater data collection was completed across all primary stations, excluding two locations: station Z3GW2, which yielded insufficient sample volume for the first time since 2015 owing to a receding water table, and station Z4GW1, which has been retired from the active monitoring network due to reclassification for disposal operations.

Under the routine self-compliance monitoring program, MPRL E&P evaluated multiple key water streams, including potable water supplies, treated domestic effluent from Base Camp, workshop utility water, warehouse hydro-test discharge, and sentinel groundwater adjacent to the M-132 disposal well.

Complete third-party laboratory certificates and internal monitoring datasets for ambient air, acoustics, soil, and water are compiled in Annex – 1.. Where analytical results deviated from regulatory thresholds, technical justifications and contextual impact assessments are detailed in the respective subsections. Furthermore, while a complete parameter suite was commissioned, certain water quality parameters could not be tested due to local laboratory analytical constraints.

In compliance with recommendations from the Environmental Conservation Department (ECD), surface water monitoring results have been evaluated against the National Surface Water Quality Standards (NSWQS). In direct response to prior regulatory feedback, this report also incorporates a multi-year comparative evaluation assessing current air, acoustic, soil, and water parameters against established 2015 baseline datasets. A compliance tracking matrix documenting specific actions taken to address ECD comments is provided in Article 7.

In response to prevailing regional security and logistical constraints, monitoring operations were pragmatically prioritized around accessible locations within the core operational footprint. Field sampling for ambient air, noise, and soil was therefore centered on monitoring stations Z3AQN and Z4AQN. MPRL E&P remains dedicated to the full approved monitoring scope and will resume sampling at outlying stations as soon as field security conditions permit safe access.

Since 2017, MPRL E&P has marked World Environment Day with an annual tree-planting campaign designed to advance regional greening, strengthen local biodiversity, and support long-term ecological sustainability across Mann Field. Advancing this long-term commitment, on July 30, 2026, the company—in partnership with departmental leadership from the Myanma Oil and Gas Enterprise (MOGE)—successfully planted 59 grafted Sein Ta Lone mango trees on agricultural land adjacent to the Base Camp.

In observance of World Environment Day 2026 under the theme "A Global Call for Climate Action," MPRL E&P's joint CSR and HSE teams conducted a community environmental awareness program at Auk Kyaung Pagoda in Mann Field on June 3, 2026.

In accordance with the annual HSE Training Plan, the HSE Department executed regular monthly training modules to strengthen workforce competency in health, safety, and environmental stewardship. Leveraging both internal subject-matter experts and qualified external instructors, the curriculum addressed key global and operational priorities, including dedicated modules for World Environment Day and the International Day of Clean Air for Blue Skies.

MPRL E&P systematically embeds environmental stewardship—specifically biodiversity conservation, water conservation, and energy efficiency—across its operational safety agenda. Sustainable practices, with particular focus on source waste segregation and responsible resource handling, are integrated into routine employee inductions, toolbox talks, and departmental safety meetings. This structured

engagement cultivates a proactive safety culture and aligns daily field operations with corporate sustainability and compliance benchmarks.

Throughout the reporting period, 100% of produced formation water was reinjected into designated shut-in wells, sustaining Mann Field's benchmark of zero surface discharge maintained continuously since August 24, 2017.

To uphold stakeholder transparency, environmental performance reports and compliance documentation are proactively shared through multiple channels, including public digital platforms, regulatory departments, and local community administrative offices. MPRL E&P remains steadfast in fulfilling all commitments under its Environmental Impact Assessment (EIA) and Environmental Compliance Certificate (ECC). Through disciplined surveillance, scheduled self-monitoring, and proactive mitigation, the project consistently aligns upstream field operations with national regulatory standards and responsible environmental stewardship.

## Social Performance

From April 2026 to September 2026, MPRL E&P's CSR Program continued advancing sustainable community development, environmental stewardship, and stakeholder well-being across Mann Field Communities through integrated social investment initiatives. Key focus areas included Community Infrastructure Development, Community Livelihood Development, the Educational Partnership Program, Community Capacity Building, Community Healthcare, Community-led Waste Management, the Operational Grievance Mechanism (OGM), Stakeholder Engagement and Information Disclosure, Corporate Philanthropy, and the MOGE Employee-Centered CSR Program.

**Community Infrastructure Development:** The Program implemented community-driven and cost-shared infrastructure projects to improve access to essential services and strengthen local resilience. Key achievements included drainage improvements, road construction and upgrades, a school motorcycle parking shelter, a clinic renovation, a village water distribution pipeline, and a community culvert, alongside annual water quality testing at 11 schools. The Program also supported community greening efforts through the planting of 80 trees and 26 flowering plants. These investments improved access to safe water, education, healthcare, transportation, and community facilities while strengthening community ownership and long-term sustainability.

**Community Livelihood Development:** The Program strengthened agricultural productivity and livelihood resilience through the Seed Bank Program and the newly introduced Soil Enhancement Program. A total of 37 farmers participated in seed production, seed redistribution, and crop cultivation activities under the Seed Bank Program, while approximately 250 farmers and community members attended a soil enhancement knowledge-sharing session. In addition, 39 farmers completed hands-on agricultural training covering organic fertilizer production, soil conservation,

climate-smart agriculture, and sustainable farming practices. These interventions strengthened local seed systems, enhanced technical knowledge, improved soil health management, and supported more resilient and sustainable livelihoods.

**Educational Partnership Program:** The Program continued expanding access to higher education and vocational training opportunities for youths from Mann Field Communities and MOGE families. Scholarship support was provided to 23 students studying at technical institutes, vocational schools, and universities. The Program also supported entrance examinations, enrollment processes, academic monitoring, and student welfare assistance.

**Community Capacity Building:** The Program enhanced local knowledge, leadership, and participation through training programs, awareness campaigns, and creative learning initiatives. The Summer Program engaged 77 participants in art, computer, and handicraft training courses. Climate change awareness activities reached 213 participants, while the Curious Minds Quiz Program engaged 38 children and youths. Storytelling and reading-promotion activities reached more than 240 children, and World Cleanup Day activities engaged 456 participants through environmental awareness sessions, composting demonstrations, and community learning activities. These initiatives strengthened local capacities, encouraged lifelong learning, and promoted active community participation.

**Community Healthcare Program:** Through the Mobile Clinic Program, home visits, the Community Eye Health Program, and preventive health education initiatives, the Program continued providing free and accessible healthcare services. By September 2026, the Mobile Clinic Program had cumulatively served 31,833 patients through 1,075 clinic sessions across seven community locations. The Eye Health Program facilitated 85 eye surgeries for elderly community members and provided follow-up care and referrals. In addition, 18 Rabies Health Talk sessions reached 2,226 students, teachers, and community members, increasing awareness of disease prevention and community health practices.

**Community-led Waste Management Program:** The Program continued promoting environmental stewardship through waste management, composting, community clean-up campaigns, and environmental education initiatives. A total of 23 Trash Hero Minbu clean-up activities engaged 598 volunteers and removed approximately 605 kilograms of waste. Under the Trash Hero Cleanup Challenge Program, 192 volunteers completed 10 clean-up sessions, 96 completed 20 sessions, and 50 completed 30 sessions. Large-scale community clean-up campaigns mobilized 1,072 participants and collected approximately 23.14 metric tonnes of waste across Mann Field Communities. Community-managed compost stations remained operational in four villages, while waste segregation awareness sessions and composting demonstrations promoted sustainable waste management practices.

**Operational Grievance Mechanism (OGM):** The OGM continued serving as an accessible, transparent, and effective platform for addressing community concerns

and stakeholder feedback. Five OGM cases were received and successfully resolved, bringing the cumulative total to 198 cases since the mechanism was established in 2014. Timely investigation, communication, and resolution of grievances strengthened stakeholder trust, accountability, and MPRL E&P's social license to operate.

**Stakeholder Engagement and Information Disclosure:** Open, transparent, and continuous stakeholder engagement remained a cornerstone of MPRL E&P's CSR approach. The CSR Team conducted regular consultations, community meetings, project monitoring visits, volunteer coordination sessions, and engagements with government stakeholders. A Biannual CSR and HSE Progress Update Meeting engaged 55 participants, while the regular publication of newsletters, progress reports, grievance mechanism updates, and the 9th Communication on Progress to the United Nations Global Compact reinforced transparency, accountability, and collaborative partnerships.

**Corporate Philanthropy:** MPRL E&P continued supporting cultural, educational, and community development initiatives through targeted philanthropic contributions. Support for religious activities and the School Library Development and Reading Promotion Festival helped strengthen social cohesion, preserve local traditions, encourage learning, and reinforce positive relationships with host communities.

**MOGE Employee-Centered CSR Program:** The Program continued supporting MOGE employees and their families through welfare, education, skills development, and household assistance initiatives. MPRL E&P contributed MMK 80 million for rice and cooking oil assistance, MMK 10 million for vocational and life-skills training, and MMK 5 million to support educational facilities. Scholarship assistance was also provided to the children of MOGE employees. In FY 2026-2027, cumulative expenditure under the Program reached MMK 100.35 million, reflecting the Company's continued commitment to employee well-being and inclusive development.

Through these initiatives, MPRL E&P continued creating meaningful social, economic, and environmental value across Mann Field Communities. By strengthening infrastructure, supporting sustainable livelihoods, expanding educational opportunities, improving healthcare access, promoting environmental stewardship, fostering stakeholder partnerships, and enhancing employee well-being, the Company reaffirmed its commitment to responsible operations and sustainable development for the benefit of all stakeholders.



# Environmental Monitoring Report

## for Redevelopment and Enhanced Oil Recovery (EOR) Programme

April 2026 ~ September 2026



## 2. Project Description and Production Information

The Mann Field, discovered in 1970 by MOGE, currently comprises 674 wells under the Mann PCC, of which 273 were producing as of September 2026, while the remaining wells were shut-in. Cumulative production from the Production Enhancement Project has reached 16.7 MMbbls of oil, including 10.7 MMbbls above the normal decline curve, along with 19.1 Bcf of associated gas as of September 2026. Since 2024, MOGE has drilled an additional exploration well, M-671, under its direct management. As such, this well falls outside the scope of the Mann Field Redevelopment and Enhanced Oil Recovery (EOR) Program according to the MOGE's guide line. Nevertheless, MPRL E&P remains committed to monitoring the relevant parameters in line with the Environmental Monitoring Plan, as stipulated in the ESIA Report.

### 2.1 Mann Field Operation Status

Under the PCC, MPRL E&P is undertaking a re-development operations activity of the Mann Field to improve the environmental performance of the operations.

The operation activity includes:

**Infill well drillings** – due to the current decline of the field, MOGE and MPRL E&P have been drilling infill wells in main Mann Field areas close to currently producing wells and outside of surrounding communities, however no infill well activity during the last six months.

**Drilling Wells** – to drill tens to hundreds of feet from existing wellbore by drilling, M-23 drilled to test 4500' Sand in July 2026.

**Chemical Treatment** –to ensure that oil is maximized from the reservoir by using small amount of chemicals such as paraffin dispersant, paraffin inhibitor, and non-chemical GreenZyme. GreenZyme is a biological liquid enzyme that is not only harmless to any individual's health but also an environmentally friendly product.

**Remedial and workover operations** – maintain oil production by servicing such as swabbing, scraping and bailing of producing wells.

**Improvement of Pumping Unit** – pumping units will be / have been repaired to reduce the likelihood of spills in the surrounding areas.

**Refurbishments of the Gas and Oil Collecting Stations (GOCS),** Flow Pipes and Drain Pits – to ensure the health and safety to surrounding communities and reduce the risk of spills.

**Rehabilitation of Shut-in Wells** – sealing off shut-in wells to avoid contamination of surrounding and restoring surrounding areas to resemble their original state.

**Re-perforations** will be undertaken for better control of the well.

**Development of Produced Water Management System** – produced water will be injected into the shut-in wells.

## 2.2 Current Operations Summary

### 2.2.1 Remedial and Work Over Operations within 6 months

The following table shows the monitoring and tracking of the remedial and work-over operations activities within six months.

*Table 2: Remedial and Work Over Operation Activities*

| No. | Service | Apr-26 | May-26 | Jun-26 | Jul-26 | Aug-26 | Sep-26 | Total |
|---|---|---|---|---|---|---|---|---|
| | | Frequency of Activities | | | | | | |
| 1 | Bailing & Change Tubing | 4 | 6 | 6 | 8 | 4 | 10 | 38 |
| 2 | Bailing Inside Liner | 1 | 1 | | | | | 2 |
| 3 | Bump Valve & Replaced out Pump, Bumped Valve | 3 | 4 | | 2 | 2 | 3 | 14 |
| 4 | Change all Tubing & Sucker Rod | 1 | 2 | 1 | | | | 4 |
| 5 | Change 5-1/2" Casing Swedge & Casing Nipple | | | | | | | 0 |
| 6 | Casing Leakage Repair | | | | | | | 0 |
| 7 | Change Wellhead | 1 | 1 | | | | | 2 |
| 8 | Check Bottom Hole Assembly (BHA) and Change all Tubing | | | 1 | | | | 1 |
| 9 | Check BHA, Bailing and Change Tubing | 1 | 2 | | 1 | | | 4 |
| 10 | Clean out Bottom | 8 | 13 | 11 | 9 | 8 | 4 | 53 |
| 11 | Drill out Bridge Plug (BP) | | | | | | | 0 |
| 12 | Drill to Test | | | 1 | | | | 1 |
| 13 | Fishing | 2 | 1 | 1 | 1 | 2 | 2 | 9 |
| 14 | Injectivity Test | | | | | | | 0 |
| 15 | Lower Down Pump Setting Depth (PSD) & Pump Service | | 1 | 1 | | | | 2 |

| No. | Service | Apr-26 | May-26 | Jun-26 | Jul-26 | Aug-26 | Sep-26 | Total |
|---|---|---|---|---|---|---|---|---|
| | | Frequency of Activities | | | | | | |
| 16 | Prepare for BHP/BHT Survey | | 1 | | | | | 1 |
| 17 | Prepare for Injectivity Test | 1 | 1 | | | | | 2 |
| 18 | Pump Service | 14 | 30 | 40 | 17 | 25 | 15 | 141 |
| 19 | Reopen, Pumping Test & Repumping | | | | 1 | | | 1 |
| 20 | Raise Up PSD and Pump Service | 1 | 2 | | 1 | | 1 | 5 |
| 21 | Recover R-3 Packer | | 1 | | | | | 1 |
| 22 | Recover Sucker Rod & BHA | 2 | 2 | 4 | 3 | | | 11 |
| 23 | Replace Polished Rod Liner & Rotator | | | 1 | | | | 1 |
| 24 | Reset Packer | | | | 1 | | | 1 |
| 25 | Run in Sucker Rod String & Put to Pump (PTP) | | | | | | | 0 |
| 26 | Scrapping, Bailing & Change Tubing | 8 | | 6 | 1 | 3 | 1 | 19 |
| 27 | Swabbing, Bailing & Change Tubing | 1 | 1 | 2 | 2 | | 1 | 7 |
| 28 | Secure the Well | 1 | | | | | | 1 |
| 29 | Zone Isolation | | | | | 1 | | 1 |
| **Total Serviced Wells (Monthly)** | | **49** | **69** | **75** | **47** | **45** | **37** | **322** |

### 2.2.2 Mobile Power Generator Register Lists in Mann Field

The following Plant/ Equipment are being used in Mann Field.

*Table 3: Mobile Power Generator List*

| No | Unit Name | Engine Type | Horse Power | Units |
|---|---|---|---|---|
| 1 | P-100 | CAT-3408 | 365HP | 1 |
| 2 | P-82 | CAT-3306 | 270HP | 1 |
| 3 | P-75 | Cummins N855-P-236 | 235HP | 1 |
| 4 | P-70 | Cummins N855-P-250 | 250HP | 1 |
| 5 | P-69 | Cummins N855-P-250 | 250HP | 1 |
| 6 | P-65 | Detroit 6V71 | 260HP | 1 |
| 7 | Tractors | KaSaLa | 50HP | 3 |
| 8 | 35Tons Tadano Crane | Nissan-RF8 | 340HP | 1 |
| 9 | 416 Backhoe | CAT-4.236 | 85HP | 1 |
| 10 | 950 Forklift | CAT-3304 | 160HP | 1 |
| 11 | 966 Wheel Loader | CAT-3306 | 200HP | 1 |
| 12 | L-39 Forklift | Nissan – PE6 | 275HP | 1 |
| 13 | Grader | CAT-3306 | 200HP | 1 |
| 14 | D8K Dozer | CAT-D342 | 275HP | 1 |
| 15 | GD Mud Pump | CAT-3306 | 350HP | 1 |
| 16 | OPI Mud Pump | Detroit-8V92 | 365HP | 1 |
| 17 | JWS Mud Pump | Detroit-12V71 | 469HP | 1 |
| 18 | 15PS King Power Swivel | CAT-3034(C6.6) | 173HP | 1 |
| 19 | Power Pack | Deutz-F6L912 | 63HP | 2 |
| 20 | Welding Machine | Deutz-F3L912 | 25HP | 2 |
| 21 | Sullair Compressor | CAT-3054 | 85HP | 1 |
| 22 | 55 Tons Kato Crane | MITSUBISHI-8DC9 engine | 320HP | 1 |
| 23 | Ford Ranger (2Q/6064) | Ford (TDCi engine) | 2.2CC (150 HP) | 1 |
| 24 | Wire Line Unit | YAMAHA | 10HP | 1 |
| 25 | Blue Truck | Cummins NTC-350 | 350HP | 1 |
| 26 | White Truck | Cummins NTC-350 | 350HP | 1 |
| 27 | Vehicle | | | 25 |
| 28 | Weed Cutting Machine | Honda | 1.3 HP | 4 |
| 29 | Weed Cutting Machine | VHV | 7.5 HP | 1 |
| 30 | Diesel Engine Water Pump | KEMAGE | 4 HP | 2 |
| 31 | Denyo, Genset: DCA-400SPK-II | Komatsu Eng: SA6D140-A | 480 | 1 |

## 3. Environmental Management Organization

MPRL E&P is dedicated to allocating necessary resources for the execution and management of the EMP, which includes skilled human resources. The organizational structure responsible for environmental management and implementation of the EMP can be found in Table 4.

*Table 4: Environmental Management Organization Roles and Responsibilities*

| Position | Responsibility |
|---|---|
| **MPRL E&P** | |
| Deputy Chief Executive Officer and Executive Director | Oversee and coordinate all activities on the Project; ultimately responsible for environmental issues. Ensure delivery by the asset of its environmental, and operational targets. Ensure effective communication with all stakeholders. |
| Field Operations Manager | Technical aspects of the Project include contractor supervision during operations. Responsible for the execution of the Emergency Response Plan including the Oil Spill Contingency Plan. The Field Operations Manager has control over strategic project aspects and interaction with subcontractor staff where project activities take place. |
| Construction Manager | Technical aspects of the Project including subcontractor supervision during Project implementation. |
| Assistant HSE Manager / HSE Officer | Ensuring in cooperation with the Environmental Officer, that the Project and subcontractors operate following applicable regulatory environmental requirements and plans.<br>Monitor implementation of environmental protection measures, (on-behalf of Environmental Officer), and assist with technical input into oil spill requirements.<br>The HSE Officer is monitoring the implementation of Health, Safety, and Environmental protection measures, including tracking, inspection, reporting, and assisting with technical input into emergency response procedures and implementation as per the EMP. |
| Community Liaison Officer | Liaise with local communities, farmers and government regulators on the Project's behalf. Implement environmental awareness and education programs with communities. |
| **Contractor** | |
| Project Manager | Responsible for subcontractor technical performance and compliance |
| HSE Manager | Ensure that environmental regulatory requirements are met and that EMP requirements are properly implemented. |

## 4. Highlights on HSE Key Performance Indicators

Environment (HSE) Key Performance Indicators (KPIs) to evaluate occupational health, safety, and environmental performance across Mann Field operations. The KPIs comprise both reactive and proactive indicators and are periodically reviewed to assess performance, identify trends, and determine opportunities for continual improvement.

During the reporting period, HSE performance was monitored against established targets, including incident performance, CARE Card participation, HSE training, Permit to Work (PTW) assurance, planned inspections, emergency preparedness, and environmental compliance activities.

### Performance Against Established KPIs

HSE KPIs are systematically monitored and reviewed throughout the reporting period to evaluate progress against established targets and identify areas requiring further improvement.

HSE KPI implementation remained broadly on track through September 2026, with overall performance progressing in line with the annual plan. Proactive HSE activities continued to be implemented as scheduled, while safety performance remained strong, with no recordable incidents and all reactive HSE indicators maintained within the established targets.

Most HSE KPI line items are currently in progress, with several initiatives already completed and only a limited number yet to commence. Key completed initiatives include management safety work visits, pumping-unit maintenance support, heat-stress awareness activities, the Tree Plantation Campaign, and establishment of the Environmental Action Plan. Good progress was also maintained in HSE training, SOP/JSA reviews, proactive HSE indicators, periodic audits, and environmental monitoring.

### Fiscal Year 2026–2027

As of **30 September 2026**, the Mann Field Production Enhancement Project had accumulated a total of **5,947,932 man-hours without a Lost Time Accident (LTA)**. This builds upon the milestone of **5 million man-hours without an LTA**, achieved on 07 October 2025, reflecting the continued commitment of the field workforce and support of the MOGE Team.

In terms of reactive HSE performance, **no Lost Time Accidents or recordable incidents were recorded during the reporting period**, and the applicable reactive HSE indicators remained within the established KPI targets.

As part of proactive HSE performance, **3,786 CARE Cards** were received during the first half of FY 2026–2027, exceeding the biannual target of **3,600 cards**. CARE Card data were periodically reviewed to identify trends in unsafe actions and conditions,

recurring hazards, and opportunities for improvement. The results were used to support follow-up actions and reinforce proactive hazard identification across Mann Field.

With the continuation of field operations, HSE training and awareness activities remained an important component of workforce competency development. Mandatory HSE training and awareness programs were implemented in accordance with the planned schedule. Further details are provided in **Section 9.4 – HSE Training**.

Permit to Work (PTW) audits were conducted using established checklists to verify compliance with PTW requirements and the effective implementation of required safety controls. **Planned PTW audits were completed in accordance with the established schedule.**

Planned inspections of safety-critical and emergency equipment, including **lifting gear, emergency eyewash stations, and wheeled spill kits**, were also conducted during the reporting period. Identified deficiencies, where applicable, were communicated to the responsible teams for corrective action and follow-up.

To promote workforce participation and strengthen the HSE culture, recognition programs continued to be implemented. These included the **Outstanding HSE Best Performance Award, Contribution Award in HSE Activity, and Best Quality CARE Card Award**. The programs recognize positive HSE performance and encourage active employee participation in hazard identification and continual improvement.

Individual HSE KPIs also continued to be incorporated into the performance monitoring of field personnel to reinforce individual accountability, safe work practices, and participation in HSE activities.

As part of implementation of the Environmental Action Plan, produced water continued to be managed through **reinjection into the designated shut-in well**, supported by monitoring and maintenance of the injection facilities and key operating parameters, including injection pressure, volume, and flow rate. The field team maintained a **100% produced-water reinjection record during the reporting period**.

As part of implementation of the Environmental Action Plan, the **Annual Tree Plantation Campaign** was conducted on 30 July 2026. A total of **80 grafted Sein Ta Lone mango trees**, comprising 59 new trees and 21 replacement trees, were planted on farmland behind the MPRL E&P Base Camp in collaboration with MOGE representatives. The initiative supported environmental conservation, vegetation enhancement, biodiversity, and continued environmental awareness at Mann Field.

Emergency preparedness continued to be strengthened through planned drill exercises. **Man-Down and Stretcher-Handling Drill Exercises** were conducted to evaluate communication, first-aid/medical response, patient handling, and evacuation preparedness. **Fire and spill-response drills** were also conducted to assess emergency-team readiness, personnel response, and the effectiveness of established emergency procedures.

During the six-month reporting period, **one Near Miss case was recorded, with no personal injury or property damage reported**. The case was investigated in accordance with the Company's incident investigation process to identify the causes and contributing factors. Relevant lessons learned were communicated, and corrective and preventive actions were implemented and followed up to reduce the potential for recurrence.

# 5. Environmental Management Plan

The Environmental Management Plan (EMP) aims to enforce compliance with the project's policies and fulfill the mitigation, monitoring, and other commitments outlined in the EIA Report. While the EMP serves as a broad framework document, it is intricately linked to various comprehensive management plans detailed below, each designed to set criteria for meeting specific environmental requirements.

The management plans, which were developed to ensure compliance with specific environmental elements, are described in detail in the EIA report. These plans outline the management and mitigation measures that must be implemented, the responsible parties and timeframe for implementation, and reporting requirements. MPRL E&P is currently implementing and monitoring these plans according to the schedule outlined in the EIA report.

- Waste Management Plan
- Emergency Response Plan (including Fire Risk Management Plan)
- Spill Response Plan
- Health and Hygiene Management Plan
- MEDEVAC Procedures
- Transportation Management Procedures
- Contractor's Environmental Management Plan(s)
- Environmental Monitoring Plan

## 5.1 Environmental Management System Framework

MPRL E&P's approach to environmental management is based on the ISO 14001 framework and incorporates internal policies, national regulations, and best practices from international sources. The company conducts regular environmental analysis and monitoring to ensure that its business activities have minimal negative impacts on the environment and the communities affected by its operations.




*Figure 1: MPRL E&P Environmental Management System Framework*

## 5.2 Waste Management Plan

The Waste Management Plan aims to effectively manage any surplus materials from the construction and operational activities in the Mann Field, ensuring proper handling and disposal of waste.

The waste management plan aims to achieve the following objectives:

- Managing waste in a controlled and environmentally sound manner,
- Complying with all statutory and contractual requirements related to waste management,
- Recovering resources whenever possible and safe for re-use and recycling,
- Recording and tracking all generated waste appropriately.

The waste management plan has been implemented during the operation phases, dividing waste streams into four categories:

1. Hazardous recyclable,
2. Hazardous non-recyclable,
3. Non-hazardous recyclable, and
4. Non-hazardous non-recyclable.

The key steps in the waste management process are:

- Segregating waste into hazardous, general and recyclable categories using suitably labeled bins,
- Transporting bins/drums to approved disposal locations with the waste type clearly labeled on each one,
- Including each waste bin/drum sent on the backload manifest,
- Recording waste transportation in the waste database.

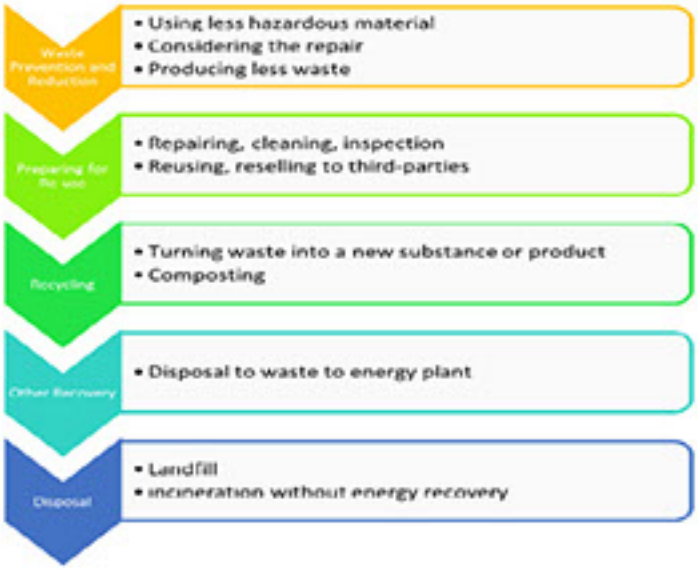



*Figure 2: Waste Management Process*

### 5.2.1 Monitoring on Waste Management Status

During the monitoring period of April 2026 to September 2026, the waste management compound facilities remain unchanged from previous monitoring periods.

#### Existing Solid Waste Management System

The solid waste management framework implemented by MPRL E&P primarily encompasses waste collection, segregation, and recycling, with a limited emphasis on the principles of the 3Rs (Reduce, Reuse, Recycle) that have been introduced.




*Figure 3: 3Rs*

At Mann Field, waste segregation has been implemented, which involves sorting and separating waste based on its characteristics. The waste materials are segregated at the source by providing bins that are marked with universal symbols and labelled in both English and Burmese, and are coloured for storing waste as follows:

- Green – General Wastes,
- Yellow – Recycle Wastes,
- Red – Hazardous Wastes,
- Black – Non-Hazardous Wastes,
- Blue – Paper

Bins were placed in all locations, including GOCSs, offices, warehouses, workshops, construction sites, base camps, and clinics, for waste collection. The waste collection bins will not be allowed to overflow before they are emptied, and damaged waste storage receptacles will be promptly replaced. A sufficient number of bins were placed at each waste collection point for each type of waste, based on the expected variety and quantity of waste from that location.

Waste of any kind will not be stored permanently or for prolonged periods at the Waste Management Compound. The following procedure has been implemented for the temporary storage of all waste:

- The waste is properly stored in the designated area that is separated from storage areas for other materials/substances,
- The facilities are identified for each designated area, such as Recycle Area, Hazardous Area, etc.

### 5.2.2 Solid Waste Management in MPRL E&P

The management of waste is a crucial aspect of business operations, and all waste produced is recorded. MPRL E&P is monitoring and ensuring compliance with the National Environmental Quality (Emission) Guidelines and adhering to industry best practices.

#### Composting

Based on our self-monitoring records spanning six months from April 2026 to September 2026, the composting process has yielded approximately 910 kg of compost.



*Figure 4: Vegetation at WMC*

#### Recycling

At our facility, we collect and sell recyclable materials such as glass, paper, cardboard, plastic bottles, and materials to third-party vendors. To ensure proper recycling, these materials are separated from general waste during the collection process.

General Waste is collected from all areas within the Mann Field Operations and temporarily stored at the Waste Management Compound. Waste collection is carried

out periodically every week using Jumbo big bags to reduce plastic bag usage, which can be reused multiple times. Additionally, the plastic bags used in the waste bins are also reused, except for the organic waste bin.



*Figure 5: Segregated Recycle Waste at WMC*

### General Waste Storage in WMC




*Figure 6: Waste Management Compound*

After being re-sorted, packed and stored in the recycle waste storage area, the recycle materials are disposed of by an authorized third party.

The details of the type and quantity of recycle wastes have been registered using the 'Waste Register' form.

Recycle waste intended for disposal with an approved third-party vendor must be monitored using the "Waste Disposal Contractor Approval Form", which has been approved by the Field Operations Manager and/or the HSE Officer/ Environmental Officer.



*Figure 7: Hazardous Waste Stored at WMC*

From April 2026 to September 2026, a total of 0 kg of hazardous waste is collected from all work-related areas and is properly stored at the Waste Management Compound. The dry sludge/ produced sand is temporarily stored at the Waste Management Compound, while the wet sludge is stored at the Sludge Management Compound.

### 5.2.3 Monitoring Data and Statistics

The Waste Statistics during the monitoring period from April 2026 to September 2026 are as follows:

*Table 5: Monthly Waste Monitoring Record*

| Month | Hazardous Waste (kg.) | Non-hazardous Waste (kg.) | Composting (kg.) |
|---|---|---|---|
| April 2026 | 0 | 1,208 | 160 |
| May 2026 | 0 | 390 | 110 |
| June 2026 | 0 | 330 | 170 |
| July 2026 | 0 | 310 | 150 |
| August 2026 | 0 | 987 | 130 |
| September 2026 | 0 | 315 | 190 |
| **Total** | **0** | **3,540** | **910** |

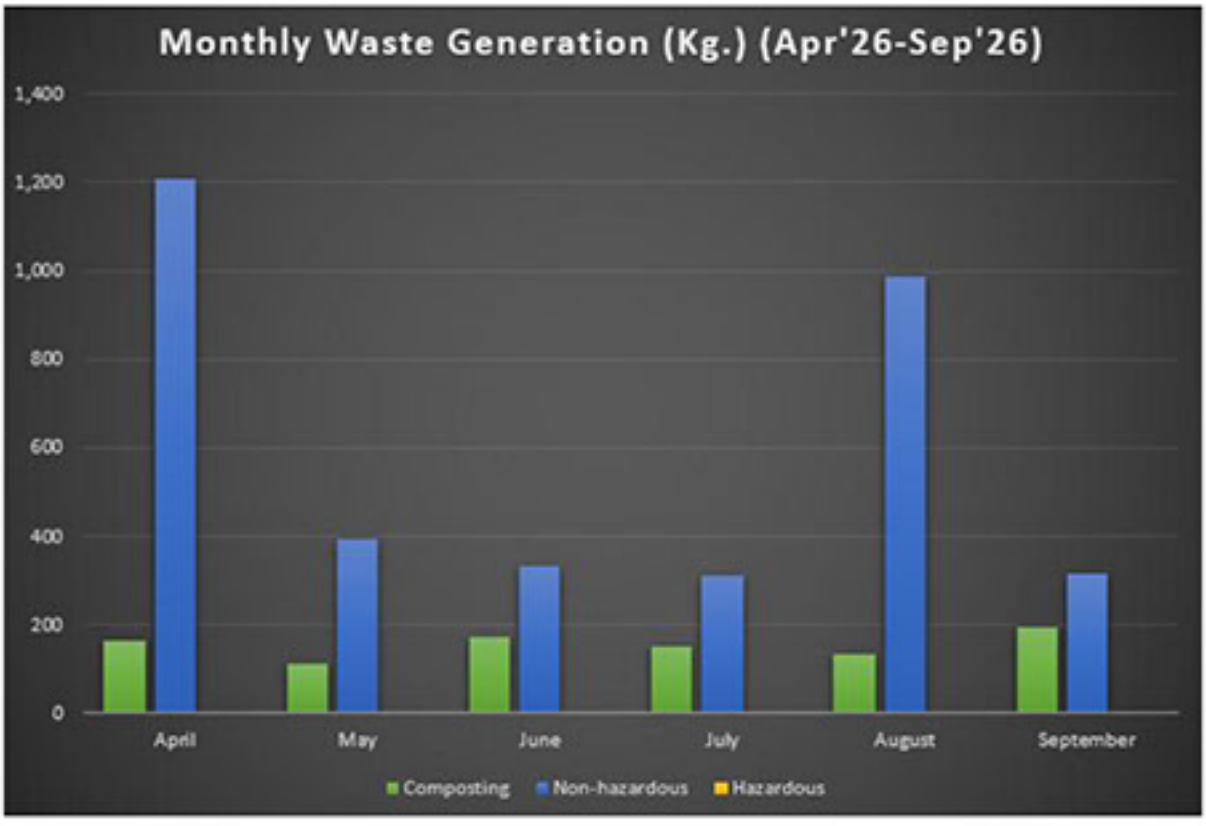



*Figure 8: Monthly Waste Monitoring Records from April 2026 - September 2026*

*Table 6: Yearly Waste Monitoring Record*

| Year | Hazardous Waste (kg.) | Non-hazardous Waste (kg.) | Composting (kg.) |
|---|---|---|---|
| 2020 | 1,470 | 16,267 | 1,204 |
| 2021 | 96 | 5,369 | 1,901 |
| 2022 | 48,113 | 9,000 | 2,880 |
| 2023 | 23,718 | 13,324 | 2,560 |
| 2024 | 32,800 | 18,081 | 2,635 |
| 2025 | 36,005 | 11,151 | 2,855 |
| 2026 (Jan – Sep) | 0 | 4,988 | 1,460 |




*Figure 9: Yearly Waste Monitoring Record (2020 - 2026)*

## 5.3 Emergency Response Plan

MPRL E&P will develop plans and procedures to identify potential environmental accidents, health and safety emergencies, and adverse environmental and social impacts that may arise. These plans will include, but not be limited to, the following measures:

- Notification procedures,
- An emergency response organization with personnel trained to fulfill their roles and responsibilities,
- Adequate and appropriate emergency response equipment readily available to respond to minor incidents,
- Capability to quickly request additional assistance.

MPRL E&P is responsible for managing and responding to emergencies arising from the Project activities in Mann Field. The emergency response plan (ERP) which also covers fire risk management, includes:

- Hierarchy of protection,
- Preparedness and planning for emergencies,
- Employee responsibilities,
- Emergency response procedures,
- Medical emergencies including medevac procedures,
- Natural Disasters (e.g. floods, cyclones, earthquakes) related emergencies,
- Fire and electrical related emergencies, and
- Any other emergency response plan is required by the Republic of the Union of Myanmar Authorities.

### 5.3.1 Emergency Response Plan Implementation and Progress

Emergency response arrangements continued to be maintained and periodically reviewed during the reporting period. MPRL E&P maintains emergency response plans covering potential emergency scenarios associated with Mann Field operations, with defined notification requirements, communication protocols, responsibilities, and response arrangements.

Emergency response plans and procedures are periodically reviewed and updated as required, including following emergency exercises, changes in operational conditions, or lessons learned from actual events. Training, awareness sessions, and practical exercises are conducted to ensure that personnel understand their assigned roles and remain prepared to respond effectively to emergencies.

Planned emergency drills and exercises were conducted during the reporting period to verify personnel preparedness, communication effectiveness, response time, emergency equipment readiness, and understanding of assigned responsibilities.

Post-drill debriefings were conducted to review performance, recognize good practices, identify Opportunities for Improvement (OFIs), and follow up on required actions.

An **unannounced Muster Drill Exercise** was conducted at the Base Camp on **28 July 2026** to assess personnel preparedness, response time, communication, accountability, and the effectiveness of established muster procedures. Personnel responded to the designated muster point, and headcount/accountability checks were completed in accordance with the established emergency arrangements.



*Figure 10: Muster Drill at MPRL E&P Base Camp*

## 5.4 Spill Response Plan

MPRL E&P has established spill prevention and response plans and procedures to prevent, control, and respond to potential spills associated with Mann Field operations and to minimize potential environmental, health, safety, and social impacts.

The spill prevention and response arrangements include, but are not limited to:

- Spill prevention and control hierarchy;
- Engineering and operational controls, including appropriate design, containment, storage, handling, and transportation of hazardous materials;
- Spill response organization, roles, responsibilities, and notification requirements;

- Provision and maintenance of appropriate spill-response equipment and PPE;
- Spill response training and awareness; and
- Periodic spill-response drills and exercises.

Spill prevention and response controls continued to be implemented across Mann Field during the reporting period, including secondary containment, drainage control, availability of spill-response equipment, and routine inspection of spill kits.

### 5.4.1 Spill Response Plan Implementation and Progress

Spill prevention and response measures continued to be maintained at Mann Field facilities and operational areas. These include impermeable surfaces where applicable, segregated drainage arrangements, oil sumps/interceptors, secondary containment, spill kits, and designated facilities for the appropriate handling of waste and contaminated materials.

Routine inspections were conducted to verify the availability, condition, and readiness of spill-response equipment. Spill kits were checked and replenished or replaced as required to maintain emergency preparedness.

Spill-response drills are periodically conducted to assess personnel preparedness, communication, team responsibilities, equipment readiness, containment, clean-up practices, and understanding of established spill-response procedures. Post-drill debriefings are used to identify good practices and Opportunities for Improvement and to support continual improvement of emergency response arrangements.

A **Spill Response Drill Exercise** was conducted at the Workshop during the reporting period to assess personnel preparedness and the effectiveness of established spill-response arrangements. The exercise included emergency notification, personnel coordination, mobilization of spill-response equipment, use of appropriate PPE, containment, and clean-up of the simulated spill. A post-drill debriefing was conducted to review performance and identify Opportunities for Improvement.



*Figure 11: Spill Response Drill Exercise at Mobile Workshop*

## 5.5 Health & Hygiene Management Plan

MPRL E&P has established a **Health and Hygiene Management Plan** to identify, assess, and manage occupational health and hygiene risks that may affect personnel working at Mann Field. Preventive and mitigation measures are implemented and periodically reviewed to maintain appropriate health, hygiene, and welfare standards.

The Health and Hygiene Management Plan includes, but is not limited to:

- Defined responsibilities for implementation and monitoring of health and hygiene requirements;
- Identification, prevention, and management of occupational and communicable health risks, including diseases transmitted by insects and other vectors;
- Pre-assignment medical screening, periodic health examinations, and applicable immunization requirements;
- Prevention and management of heat-related illnesses and other seasonal health risks;
- Preventive measures for snakebite and other health hazards associated with the local working environment;
- Food safety, potable water, accommodation, sanitation, and general hygiene requirements; and
- Health risks associated with travel to and from Mann Field.

### 5.5.1 Health & Hygiene Management Plan Implementation and Progress



*Figure 12: Health and Hygiene Inspection at Base Camp*



*Figure 13: Heat Stress and Heat Stroke Awareness Activities at Mann Field*

Health and hygiene management measures continued to be implemented and monitored throughout the reporting period. MPRL E&P maintains onsite medical support at the Base Camp, and routine health and hygiene inspections are conducted

to verify the effectiveness of established preventive measures and identify areas requiring improvement.

Routine inspections covered **accommodation, kitchen and dining facilities, food storage and handling, washing facilities, potable drinking water, laundry facilities, waste handling, sanitation, and general camp hygiene**. Overall conditions were monitored against established requirements, and identified deficiencies were communicated to the responsible personnel for corrective action and follow-up.

Seasonal and occupational health risks were also addressed through health-awareness activities and preventive measures. Particular attention was given to **heat stress and heat-stroke prevention**, considering the exposure of personnel involved in outdoor field activities during periods of high ambient temperature.

A **Heat Stress/Heat Stroke Awareness Campaign** was conducted at Mann Field to improve workforce understanding of heat-related health risks. The awareness activities covered early recognition of signs and symptoms, hydration, appropriate work-rest practices, preventive measures, and basic first-aid response for suspected heat-related illness.

Preventive health measures also included routine monitoring of potable drinking-water arrangements, maintenance of general camp hygiene, food-safety controls, and awareness of locally relevant health hazards, including snakebite and vector-borne diseases.

Health and hygiene conditions and associated preventive measures are periodically reviewed with support from the onsite medical team. Identified Opportunities for Improvement (OFIs) are followed up with the responsible teams to support continual improvement in workforce health, hygiene, and welfare conditions.

## 5.6 MEDEVAC Procedures

Due to the location of Mann Field and the potential time required to access external medical facilities, MPRL E&P maintains established Medical Evacuation (MEDEVAC) procedures to ensure an appropriate and timely response to medical emergencies.

Personnel assigned to Mann Field are subject to applicable medical fitness requirements and periodic medical examinations to confirm their fitness for assigned duties. Relevant information regarding field conditions and occupational exposures is provided to the medical examiner to support fitness-for-work assessment. Medical information is managed confidentially in accordance with applicable requirements.

MPRL E&P maintains onsite medical support at the Base Camp for initial assessment, first aid, and emergency medical treatment. Where further medical assessment or treatment is required, established MEDEVAC arrangements are available to transfer affected personnel to an appropriate medical facility.

### 5.6.1 MEDEVAC Procedure Implementation and Progress

Medical emergency preparedness continued to be maintained and periodically tested during the reporting period through practical exercises, equipment-readiness checks, and workforce training.

A **Medical Emergency (Man-Down and Stretcher Handling) Drill Exercise** was conducted at **P-70 @ Well M-484 on 20 September 2026**. The exercise simulated a crew member sustaining an ankle injury following a trip and fall and being unable to stand. The drill was conducted to evaluate emergency communication, first-aid response, coordination with the Base Camp medical team, patient handling, and evacuation preparedness.

The exercise demonstrated prompt notification and communication between the Wellsite Supervisor, Field Management, HSE Team, and medical personnel. Appropriate initial care was provided to the simulated injured person, and the established MEDEVAC communication process was followed.

A post-drill debriefing was conducted to review performance and identify Opportunities for Improvement (OFIs). As a follow-up action, the Camp Doctor conducted **practical stretcher-handling refresher training** for relevant personnel to strengthen confidence, coordination, and safe patient-handling techniques.

The readiness and pressure of the **ambulance emergency oxygen cylinder** were also verified as part of the follow-up action and found satisfactory.



*Figure 14: Medical Emergency (Man-Down) Drill Exercise of P-70 at M-484*

## 5.7 Transportation Management Procedures

MPRL E&P maintains Transportation Management Procedures to manage risks associated with the movement of personnel, vehicles, equipment, and materials associated with Mann Field operations. The procedures establish requirements for journey planning, traffic routes, speed control, driver fitness, vehicle loading, inspection and maintenance, and response to transportation-related emergencies.

The Transportation Management Procedures include, but are not limited to:

- Journey Management Plan (JMP) requirements;
- Road-risk assessment and route planning;
- Speed limits and safe-driving requirements;
- Driver fitness, rest periods, and fatigue-management controls;
- Vehicle inspection and preventive-maintenance requirements;
- Safe loading and securing of materials and equipment;
- Driver and passenger accountability during journeys; and
- Response arrangements for overdue vehicles or transportation emergencies.

### 5.7.1 Transportation Management Procedures Implementation and Progress

Transportation activities continued to be managed in accordance with established Company requirements during the reporting period. Transportation services provided by M&AS were subject to applicable MPRL E&P HSE requirements, including vehicle inspections, journey management, road-risk assessment, driver fitness, speed control, fatigue management, and alcohol-testing requirements.

Routine and pre-crew-change vehicle inspections were conducted to verify vehicle condition and the availability of required safety and emergency equipment. Identified deficiencies were communicated to the responsible team for corrective action and follow-up.

Road and access conditions were also monitored during routine field inspections and Hazard Hunts. Where road-safety concerns such as potholes, vegetation encroachment, restricted visibility, or other access hazards were identified, corrective actions were communicated to the responsible personnel.



*Figure 15: Safe Driving Awareness and Vehicle Inspection*

## 5.8 Contractor Environmental Management Plan(s)

Contractors engaged in Mann Field activities are required to conduct their work in accordance with applicable national requirements, MPRL E&P HSE policies and procedures, the Project Environmental Management Plan (EMP), and applicable contractual technical and environmental requirements.

Contractors are required, where applicable, to establish appropriate arrangements covering:

- Implementation of relevant EIA/EMP commitments;
- Occupational health, safety, and environmental controls;
- Waste management and pollution prevention;
- Logistics and transportation;
- Emergency preparedness and response;
- Community relations; and
- Provision of adequate resources and competent personnel to manage HSE risks.

Contractor performance is monitored through routine inspections, operational supervision, HSE reporting, and follow-up of identified deficiencies. Contractors and third-party personnel working within Mann Field are required to comply with applicable MPRL E&P HSE rules, procedures, and site requirements.

### 5.8.1 Contractor Environmental Management Plan(s) Implementation and Progress

Contractors and service providers continued to support activities including manpower services, transportation, catering, security, equipment maintenance, and other operational support during the reporting period.

Routine inspections and monitoring were conducted to verify contractor compliance with applicable HSE and environmental requirements. These activities included vehicle and transportation inspections, workplace observations, waste-management controls, camp-related environmental controls, and inspection/maintenance of the **RO drinking water system**.

Where deficiencies or Opportunities for Improvement were identified, they were communicated to the responsible contractor or service provider for corrective action and subsequent follow-up.



*Figure 16: RO Drinking Water System Inspection and Maintenance by Service Provider*

## 6. Environmental Monitoring Plan

The project conducted monitoring activities to assess compliance with regulatory requirements and to evaluate the effectiveness of operational controls and other measures aimed at mitigating potential impacts.

Physical Environmental Monitoring:

- Ambient Air Quality,
- Noise,
- Groundwater Quality,
- Surface water Quality,
- Soil Quality

In accordance with the EIA commitments, MPRL E&P has been regularly conducting environmental monitoring activities and submitting monitoring reports to the ECD bi-annually. This is the twelfth monitoring report, and it follows the committed monitoring plan from the EIA Report, as stated in Table 8 of the Environmental and Social Monitoring Program (as shown in Table 8.3 of the EIA Report).

Ambient air quality and noise quality monitoring were conducted at Z3AQN and Z4AQN, surface water and groundwater samples were collected at six locations, and soil quality monitoring was carried out at Z3S1, Z3S2, Z4S1 and Z4S2. In addition to this, self-monitoring activities for water analysis were conducted and tested at ALARM lab and ISO Tech lab, and their results were covered in this report.

In addition, self-monitoring activities are involved depending on the management plans and operational control. Based on the activities, the following are stated in Table 7 as MPRL E&P's self-monitoring activities scheduled from Mann Field:

- Vent gas monitoring,
- Drinking water quality monitoring,
- Monitoring of discharged water from sewage treatment system,
- Hydro-test water quality monitoring,
- Monitoring on wastes

*Table 7: MPRL E&P's Self-Monitoring Plan and Schedule*

| No. | Self-Monitoring Activities | Purpose of Monitoring | Locations | Parameters to be monitored | Frequency |
|---|---|---|---|---|---|
| 1. | Vent Gas Monitoring | Regular monitor the amount of vent gas connection line, measuring with Echo meter. | All Vent Gas Wells | Methane, $CH_4$ | Monthly and Bi-Annual |
| 2. | Hydrogen Sulfide ($H_2S$) Monitoring | To fulfill the obligation from the ECC and ensure the safety of operations & personnel living nearby. | All Operating Wells | $H_2S$(mg/$Nm^3$), CO (mg/$m^3$), $O_2$(%), and LEL% | Monthly and Bi-Annual |
| 3 | Drinking-Water Monitoring | Ensuring Safe Drinking Water for the health of personnel | MPRL E&P Base Camp | pH, Turbidity, Apparent Color, Hardness, Arsenic, Chloride, Lead, Total Dissolved Solids, Iron, Electrical Conductivity, Sulphate, Calcium, Magnesium, Nitrate-Nitrogen | Bi-Annual |
| 4. | Discharged of Sewage Treatment System | To mitigate the pollution of soil and ground water, and environment | MPRL E&P Base Camp | pH, Temperature, TSS, $BOD_5$, COD, Total Phosphorous, Oil & Grease, Total Nitrogen, Turbidity, Electrical Conductivity, Total Coliforms | Bi-Annual |
| 5. | Hydro-test Water Quality | to monitor the quality of water | Warehouse | $BOD_5$, COD, Chloride, Heavy Metals (Total), pH, Phenols, Sulfides, Total hydrocarbon content, Total suspended solids | Bi-Annual |

| No. | Self-Monitoring Activities | Purpose of Monitoring | Locations | Parameters to be monitored | Frequency |
|---|---|---|---|---|---|
| 6. | Domestic water | to monitor the quality of water | DownShole Workshop & Mechanical Workshop | $BOD_5$, COD, Ammonia, Arsenic, Cadmium, Chlorine (Total residual), Chromium (hexavalent), Chromium (total), Copper, Cyanide (free), Cyanide (total), Fluoride, Heavy Metals (Total), Iron, Lead, Mercury, Nickel, Oil & Grease, pH, Phenols, selenium, Silver, Sulfides, Temperature increase, Total coliforms, Total phosphorous, Total suspended solids, Zinc | Bi-annual |
| 7. | Ground water (Tube-well) | To monitor the quality of groundwater near wells of chemical treatment for EOR | Ko Win Maung & Ma Nyein (near #132) | pH, DO, Turbidity, Apparent Color, Alkalinity, Hardness, $BOD_5$, COD, total Nitrogen, total Phosphorous, Oil & Grease, TSS, E. coli, Total coliforms, Arsenic, Barium, Boron, Total Chromium, Flouride, Selenium, Uranium, Electrical Conductivity | Bi-annual |
| 8. | Produced Water Monitoring | Zero discharge by injecting 100% to shut-in wells | All Operating Wells | produced volume and disposal volume | Daily |
| 9. | Monitoring on Wastes | Implementing as per Waste Management Procedure | Waste Management Compound and Sludge Management Compound | General, Recyclable, Organic, Hazardous | Weekly |

*Table 8: Environmental and Social Monitoring Program (Construction and Operation Phase)*

| Project Stage | Potential Impact | Parameters to be Monitored | Location | Measurements | Frequency | Responsibility |
|---|---|---|---|---|---|---|
| At least two weeks before the construction activities for baseline data collection.<br><br>Construction and Operation | Air Quality | NOx, $SO_2$, $PM_{2.5}$, $PM_{10}$, CO.<br><br>Check compliance with Myanmar National Environmental Quality (Emission) Guidelines (2015). | Z1AQN, Z2AQN, Z3AQN and Z4AQN, locations indicated on Table 5.1 and Figure 5.10 | Sampling and analysis of ambient air pollutants to be conducted accordingly to the guidelines of Myanmar NEQEG.<br><br>Haz-Scanner EPAS Wireless Environmental Perimeter Air Station to be used for measurement. | Monthly monitoring for the first three months during both the construction and operation phase. After the three-month period, a review should be conducted to determine whether the collected data indicates an impact has occurred beyond what has been predicted within the EIA. Should no higher impacts be observed, monitoring can be reduced to a six-monthly or yearly program. Should higher impacts be observed, monitoring should continue and appropriate actions be taken to alleviate the impacts with an aim to prevent any further impacts from occurring. | MPRL E&P HSE Coordinator |

| Project Stage | Potential Impact | Parameters to be Monitored | Location | Measurements | Frequency | Responsibility |
|---|---|---|---|---|---|---|
| At least two weeks before the construction activities for baseline data collection.<br><br>Construction and Operation | Noise | Check compliance with Myanmar National Environmental Quality (Emission) Guidelines (2015) | Z1AQN, Z2AQN, Z3AQN and Z4AQN, locations indicated on Table 5.1 and Figure 5.10 | 24-hour noise monitoring using the portable sound meter (Lutron, SL-0423SD, unit: dB). Noise level (LAeq) measured and recorded at a ten-minute interval and averaged at an hourly and daily (i.e. 24-hour) interval. | As above | MPRL E&P HSE Coordinator |
| At least two weeks before the construction activities for baseline data collection.<br><br>Construction and Operation | Groundwater Quality | In-situ measurements for transparency, temperature, pH, DO, turbidity, colour, alkalinity and hardness.<br><br>Laboratory analysis of $BOD_5$, COD, Total Nitrogen, Total Phosphorus, Oil and grease, TSS, E. coli, Arsenic, Barium, Boron, Total Chromium, Floride, Selenium, Uranium | Z1GW, Z2GW, Z3GW and Z4GW, locations indicated on Table 5.11and Figure 5.14 | In-situ measurements for transparency, temperature, pH DO, turbidity, colour, alkalinity and hardness.<br><br>Laboratory analysis of $BOD_5$, COD, Total Nitrogen, Total Phosphorus, Oil and grease, TSS, E. coli, Arsenic, Barium, Boron, Total Chromium, Floride, Selenium, Uranium | As above | MPRL E&P HSE Coordinator |

| Project Stage | Potential Impact | Parameters to be Monitored | Location | Measurements | Frequency | Responsibility |
|---|---|---|---|---|---|---|
| At least two weeks before the construction activities for baseline data collection.<br><br>Construction and Operation | Surface Water Quality | In-situ measurements for transparency, temperature, pH DO, turbidity, colour, alkalinity and hardness.<br><br>Laboratory analysis of $BOD_5$, COD, Total Nitrogen, Total Phosphorus, Oil and grease, TSS, E. coli, Arsenic, Barium, Boron, Total Chromium, Fluoride, Selenium, Uranium | Z1SW, Z2SW, Z3SW and Z4SW, locations indicated on Table 5.7 and Figure 5.12 | In-situ measurements for transparency, temperature, pH DO, turbidity, colour, alkalinity and hardness.<br>Laboratory analysis of $BOD_5$, COD, Total Nitrogen, Total Phosphorus, Oil and grease, TSS, E. coli, Arsenic, Barium, Boron, Total Chromium, Fluoride, Selenium, Uranium | As above | MPRL E&P HSE Coordinator |
| At least two weeks before the construction activities for baseline data collection.<br><br>Construction and Operation | Soil Quality | pH; Arsenic (As); Lead (Pb); Cadmium (Cd); Copper (Cu); Zinc (Zn); Manganese (Mn); and Iron (Fe). Comparison with the Dutch Standard 2000. | Z1S, Z2S, Z3S and Z4S, locations indicated on Table 5.13 and Figure 5.16 | Follow sampling procedure, sample preservation and sample analysis recommended in Myanmar NEQEG. Laboratory analysis of pH; Arsenic (As); Lead (Pb); Cadmium (Cd); Copper (Cu); Zinc (Zn); Manganese (Mn); and Iron (Fe). | As above | MPRL E&P HSE Coordinator |

| Project Stage | Potential Impact | Parameters to be Monitored | Location | Measurements | Frequency | Responsibility |
|---|---|---|---|---|---|---|
| Construction and Operation | Discharge of treated wastewater and runoff | Check compliance with Myanmar National Environmental Quality (Emissions) Guidelines for site runoff and wastewater discharges (for $BOD_5$, COD, TSS, oil and grease, pH, total coliform bacteria, total nitrogen, total phosphorus) during construction.<br><br>Check compliance with Myanmar National Environmental Quality (Emissions) Guidelines for Onshore Oil and Gas Development during operation. | Treated wastewater discharge points at discharge points such as worker camps, GOCS, shut in wells. | In-situ measurements for pH, temperature, dissolved oxygen (DO), electrical conductivity (EC), and turbidity. Laboratory analysis of $BOD_5$, COD, Total Suspended Solids, Total Nitrogen, Total Phosphorous, Oil and Grease | As above | MPRL E&P HSE Coordinator |

| Project Stage | Potential Impact | Parameters to be Monitored | Location | Measurements | Frequency | Responsibility |
|---|---|---|---|---|---|---|
| Operation | Vented gas | Check compliance with Myanmar National Environmental Quality (Emissions) Guidelines for Onshore Oil and Gas Development during operation ($H_2S$) | Three vented gas location (randomly selected) | Real-time measurement | Monthly monitoring for the first three months during operation phase. After the three months' period, a review should be conducted to determine whether the collected data indicates an impact has occurred beyond what has been predicted within the EIA. Should no higher impacts be observed, monitoring can be reduced to a six-monthly or yearly programme. Should higher impacts be observed, monitoring should continue and appropriate actions be taken to alleviate the impacts with an aim to prevent any further impacts from occurring | MPRL E&P HSE Coordinator |

## 7. Complying with ECC Commitments and Follow-up Actions

Compliance with the statutory mandates outlined in Articles 5 and 6 of the approved EIA and ECC remains a core operational priority for MPRL E&P. The submission of this 13th bi-annual Environmental Monitoring Report (EMoR) sustains the company's unbroken record of timely, transparent reporting to the Environmental Conservation Department (ECD). These reports provide a verifiable record of our Environmental Management Plan (EMP) execution and internal self-compliance monitoring, even amidst complex operating environments.

We maintain close coordination with regional and district ECD offices, actively integrating their directives into our environmental management workflows to ensure rapid, coordinated responses to emerging field challenges.

In collaboration with the Regional ECD (Magway), joint environmental monitoring was executed, focusing on ambient air quality and acoustic levels at stations Z3AQN and Z4AQN. These stations were strategically prioritized based on robust operational and technical criteria: instrument security, access to uninterrupted power supplies, and logistical proximity to active operational centers. As regional conditions stabilize, monitoring will be expanded to encompass the two remaining designated stations to restore full network coverage.

In direct alignment with recent ECD recommendations, surface water analytical datasets in this report have been benchmarked against the 2024 National Surface Water Quality Standards (NSWQS). Complementing joint regulatory verification, MPRL E&P sustained an intensive internal self-monitoring regime, evaluating water quality parameters across seven strategic operational locations.

MPRL E&P remains committed to delivering the comprehensive environmental monitoring schedule across all matrices—ambient air, noise, surface water, groundwater, and soil quality. Future monitoring campaigns will be systematically phased and deployed in alignment with field stability and security risk assessments.

*Table 9: Implementation and Follow-up Actions on ECD's Comments*

| | |
|---|---|
| ရက်စွဲ | ၁၂-၆-၂၀၂၀ |
| စာအမှတ် | အရည်အသွေး-၂/ဆစရ (၂၂၆/၂၀၂၀) |
| ဌာန | ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဦးစီးဌာန၊ ညွှန်ကြားရေးမှူးချုပ်ရုံးနေပြည်တော် |
| အကြောင်းအရာ | **MPRL E&P Pte. Ltd မှ မကွေးတိုင်းဒေသကြီး၊ မန်းရေနံမြေတွင် အကောင်အထည်ဖော် ဆောင်ရွက်လျက်ရှိသည့် ကုန်းတွင်း ရေနံမှုန့်မြိုးတိုးတက်ရေးအစီအစဉ် (Redevelopment and Enhanced Oil Recovery – EOR Programme) ၏ ဒုတိယအကြိမ် ပတ်ဝန်းကျင်ဆိုင်ရာ စောင့်ကြည့်စစ်ဆေးမှုအစီရင်ခံစာ တင်ပြလာခြင်းနှင့်ပတ်သက်၍ အကြောင်းကြားခြင်း** |

| စဉ် | အကြောင်းကြားစာပါ လိုက်နာဆောင်ရွက်ရမည့် အချက်များ | လိုက်နာဆောင်ရွက်ထားရှိမှု အခြေအနေ |
|---|---|---|
| (က) | လေထုအရည်အသွေးဆိုင်ရာ Parameter ဖြစ်သည့် $SO_2$ ၏ ရလဒ်အား အမျိုးသား ပတ်ဝန်းကျင်ဆိုင်ရာ အရည်အသွေး (ထုတ် လွှတ်မှု) လမ်းညွှန်ချက်များ (NEQEGs) ၏ သတ်မှတ်ချက်အတွင်းရှိရေး စောင့်ကြပ်ကြည့်ရှု သွားရန်၊ | - သတ်မှတ်ချက်အတွင်းရှိရေး စောင့်ကြပ်ကြည့်ရှုလျက် ရှိပါသည်။<br>- COVID-19 pandemic & Security Concern ကြောင့် စတုတ္ထနှင့် ပဉ္စမအကြိမ် အစီရင်ခံစာတွင် Third party monitoring survey မပြုလုပ်နိုင်ခဲ့ပါ။ ဆဋ္ဌမ အကြိမ် အစီရင်ခံစာ မှစ၍ ထည့်သွင်းတိုင်းတာ စောင့်ကြပ်ကြည့်ရှုလျက် ရှိပါသည်။ |

| စဉ် | အကြောင်းကြားစာပါ လိုက်နာဆောင်ရွက်ရမည့် အချက်များ | လိုက်နာဆောင်ရွက်ထားရှိမှု အခြေအနေ |
|---|---|---|
| (ခ) | ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှု အစီအစဉ်တွင် တိုင်းတာမည်ဟု ဖော်ပြပါရှိသော ရေထု အရည်အသွေး (မြေပေါ်ရေ၊ မြေအောက်ရေ) ဆိုင်ရာ Parameter များကို ပြည့်စုံစွာ တိုင်းတာရန်၊ | - COVID-19 pandemic & Security Concern ကြောင့် စတုတ္ထနှင့် ပဉ္စမအကြိမ် အစီရင်ခံစာတွင် Third party monitoring survey မပြုလုပ် နိုင်ခဲ့ပါ။ တိုင်းတာသည့် အဖွဲ့အစည်း၊ ရရှိနိုင်သည့် စက်ပစ္စည်းအမျိုးအစား နှင့် ခါတ်ခွဲခန်းအခြေအနေ တို့ပေါ်မူတည်၍ ပြည့်စုံစွာ တိုင်းတာနိုင်ရေး ကြိုးစား ဆောင်ရွက်လျက်ရှိပါသည်။<br>- နိုင်ငံအတွင်းရှိ ခါတ်ခွဲခန်း များ၌ စစ်ဆေးနိုင်သည့် Parameter များအား စစ်ဆေး တိုင်းတာလျက် ရှိပါသည်။ |
| (ဂ) | မြေပေါ်ရေအရည်အသွေးကို စောင့်ကြည့် စစ်ဆေးမှု အစီရင်ခံစာတွင် NEQEGs နှင့် နိုင်းယှဉ်ထားပါသဖြင့် အိမ်နီးချင်းနိုင်ငံများ၏ မြေပေါ်ရေအရည်အသွေး သတ်မှတ်စံချိန် စံညွှန်းများနှင့် နိုင်းယှဉ်ဖော်ပြရန်၊ | - ဒုတိယအကြိမ် ပတ်ဝန်းကျင် စောင့်ကြပ်ကြည့်ရှုမှု အစီရင်ခံစာ မှစတင်၍ နိုင်းယှဉ် ဖော်ပြခဲ့ ပါသည်။<br>- COVID-19 pandemic & Security Concern ကြောင့် စတုတ္ထနှင့် ပဉ္စမအကြိမ် အစီရင်ခံစာတွင် Third party monitoring survey မပြုလုပ်နိုင်ခဲ့ပါ။ သတ္တမအကြိမ် မှစ၍ မြေပေါ်ရေ အရည်အသွေး စောင့်ကြည့်တိုင်းတာ စစ်ဆေးမှု ကို အခြေအနေ |

| စဉ် | အကြောင်းကြားစာပါ လိုက်နာဆောင်ရွက်ရမည့် အချက်များ | လိုက်နာဆောင်ရွက်ထားရှိမှု အခြေအနေ |
|---|---|---|
| | | ပေးသည့်နေရာ (၄) ခုသို့ မကွေးတိုင်းဒေသကြီး ပတ်ဝန်းကျင်ထိန်းသိမ်းရေး ဦးစီးဌာန နှင့် ပြန်လည် ပြုလုပ်နိုင်ခဲ့ပါသည်။ |
| (ဃ) | ဆူညံသံ သက်ရောက်မှုကို အမျိုးသား ပတ်ဝန်းကျင်ဆိုင်ရာ အရည်အသွေး (ထုတ်လွှတ် မှု) လမ်းညွှန်ချက်များ၏ သတ်မှတ်ချက် အတွင်းရှိစေရေး ဆောင်ရွက်သွားရန်။ | - အမျိုးသားပတ်ဝန်းကျင်ဆိုင်ရာ အရည် အသွေး (ထုတ် လွှတ်မှု) လမ်းညွှန်ချက် များ၏ သတ်မှတ်ချက် အတွင်း ရှိစေရေး ဆောင်ရွက် ထားရှိပါသည်။<br>- COVID-19 pandemic & Security Concern ကြောင့် စတုတ္ထနှင့် ပဉ္စမအကြိမ် အစီရင်ခံစာတွင် Third party monitoring survey မပြုလုပ်နိုင်ခဲ့ပါ။ သတ္တမအကြိမ် စောင့်ကြည့်စစ်ဆေးမှု အစီရင်ခံစာ မှစ၍ မကွေးတိုင်းဒေသကြီး ပတ်ဝန်းကျင် ထိန်းသိမ်းရေး ဦးစီးဌာနနှင့်အတူ နေရာ (၂) ခုသို့ စောင့်ကြည့်တိုင်းတာ စစ်ဆေးမှု ပြုလုပ်နိုင် ခဲ့ပါသည်။ |

| စဉ် | အကြောင်းကြားစာပါ လိုက်နာဆောင်ရွက်ရမည့် အချက်များ | လိုက်နာဆောင်ရွက်ထားရှိမှု အခြေအနေ |
|---|---|---|
| (၈) | အတည်ပြုပြီး ပတ်ဝန်းကျင်ထိခိုက်မှု ဆန်းစစ်ခြင်း အစီရင်ခံစာတွင် ဖော်ပြပါရှိသည့် ထိခိုက်မှု လျော့ချမည့်နည်းလမ်းများအား လိုက်နာ ဆောင်ရွက်သွားရန်နှင့် စောင့်ကြည့် စစ်ဆေးမှု အစီရင်ခံစာတွင် ထည့်သွင်း ဖော်ပြ သွားရန်။ | - လိုက်နာဆောင်ရွက်လျက်ရှိပါသည်။ စောင့်ကြည့် စစ်ဆေးမှု အစီရင်ခံစာတွင် ထည့်သွင်း ဖော်ပြ ထားပါသည်။ |

| | |
|---|---|
| ရက်စွဲ | ၇-၃-၂၀၂၃ |
| စာအမှတ် | ၅/ ထိန်းချုပ်/ စကရ (၀၁) (၄၂၂/၂၀၂၃) |
| ဌာန | ညွှန်ကြားရေးမှူးရုံး၊ ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဦးစီးဌာန၊ မကွေးတိုင်းဒေသကြီး၊ မကွေးမြို့ |
| အကြောင်းအရာ | **မင်းဘူးခရိုင်၊ မင်းဘူးမြို့နယ်၊ မန်းရေနံမြေအတွင်းရှိ Environmental Impact Assessment (EIA) အတည်ပြုပြီး MPRL E&P Pte. Ltd ၏ ရေနံပြန်လည်ဖွံ့ဖြိုးတိုးတက်ရေးအစီအစဉ် (Redevelopment and Enhanced Oil Recovery – EOR Programme) အတွက် (၂၀၂၀ ခုနှစ် ဧပြီလမှ စက်တင်ဘာလအထိ)၊ (၂၀၂၁ အောက်တိုဘာလမှ ၂၀၂၂ မတ်လအထိ) နှင့် (၂၀၂၂ ဧပြီလမှ စက်တင်ဘာလအထိ) စောင့်ကြပ်ကြည့်ရှုမှုအစီရင်ခံစာ များနှင့် ပတ်သက်၍ အကြောင်းကြားခြင်း** |

| စဉ် | အကြောင်းကြားစာပါ လိုက်နာဆောင်ရွက်ရမည့် အချက်များ | လိုက်နာဆောင်ရွက်ထားရှိမှုအခြေအနေ |
|---|---|---|
| (က) | ကုမ္ပဏီမှ ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဆိုင်ရာ လိုက်နာ ဆောင်ရွက်မှု သက်သေခံလက်မှတ်၏ အပိုဒ် (B1) အရ အတည်ပြုအစီရင်ခံစာ ဇယား (၈.၃) တွင် ဖော်ပြထားသော ကတိကဝတ်များအား အကောင်အထည်ဖော် ဆောင်ရွက်သွားရန်၊ | - သတ်မှတ်ချက်အတွင်းရှိရေး စောင့်ကြပ်ကြည့်ရှုလျက် ရှိပါသည်။ |
| (ခ) | ပတ်ဝန်းကျင်ဆိုင်ရာ အရည်အသွေးများ တိုင်းတာစစ်ဆေးရာတွင် တိုင်းတာစစ်ဆေးမှု ရလဒ်များအပေါ်မူတည်၍ အကျိုးအကြောင်း ခိုင်လုံစွာ ဖော်ပြရန်၊ | - (ဇ) လပတ် ပတ်ဝန်းကျင် စောင့်ကြပ် ကြည့်ရှုမှု အစီရင်ခံစာများတွင် ထည့်သွင်း တင်ပြလျက်ရှိပါသည်။ |
| (ဂ) | ကုမ္ပဏီမှ ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဆိုင်ရာ လိုက်နာ ဆောင်ရွက်မှု သက်သေခံလက်မှတ်၏ အပိုဒ် (C3) အရ စိမ်ကိန်း၏ လုပ်ဆောင်မှုများ၊ Sites (သို့) ဆိုးရွားသော ထိခိုက်မှုများ ပြောင်းလဲမှုရှိပါက ပြန်လည်ပြင်ဆင်ထားသည့် EMP အား စိစစ်နိုင်ရန် နှင့် အတည်ပြုနိုင်ရန် အတွက် ECD သို့တင်ပြသွားရန်၊ | - စိမ်ကိန်း၏ လုပ်ဆောင်မှုများ/ ဆိုးရွားသော ထိခိုက်မှုများ ပြောင်းလဲမှုရှိပါက တင်ပြသွားပါမည်။ |

| စဉ် | အကြောင်းကြားစာပါ လိုက်နာဆောင်ရွက်ရမည့် အချက်များ | လိုက်နာဆောင်ရွက်ထားရှိမှုအခြေအနေ |
|---|---|---|
| (ဃ) | ထပ်မံတင်ပြမည့် စောင့်ကြပ်ကြည့်ရှုမှုအစီရင်ခံစာတွင် အတည်ပြုပြီး EIA အစီရင်ခံစာပါ အပိုဒ် (၈.၃) ပတ်ဝန်းကျင် စောင့်ကြပ်ကြည့်ရှုခြင်း အစီအစဉ်တွင် ဖော်ပြထားသည့်အတိုင်း လေထုအရည်အသွေး၊ ဆူညံသံ၊ မြေအောက်ရေအရည်အသွေး၊ မြေပေါ်ရေအရည်အသွေး နှင့် မြေဆီလွှာအရည်အသွေးတို့အား တိုင်းတာစစ်ဆေးသွားရန်၊ တိုင်းတာစစ်ဆေးမှုရလဒ်များအား Baseline data များနှင့် နှိုင်းယှဉ်ဖော်ပြရန်နှင့် တိုင်းတာစစ်ဆေးမှု ရလဒ်များအား သတ်မှတ်စံချိန်စံညွှန်းအတွင်း ရှိစေရေး စီမံဆောင်ရွက်သွားရန်၊ | - ပတ်ဝန်းကျင် စောင့်ကြပ်ကြည့်ရှုခြင်း အစီအစဉ်တွင် ဖော်ပြထားသည့် အတိုင်း တိုင်းတာစစ်ဆေးလျက် ရှိပါသည်။<br>- တိုင်းတာစစ်ဆေးသည့် အဖွဲ့အစည်း နှင့် တိုင်းတာသည့် စက်ပစ္စည်း၊ ခါတ်ခွဲခန်းမှ တိုင်းတာနိုင်သည့် အခြေအနေ စသည်တို့ပေါ်မူတည်၍ ကျန်ရှိ parameter များကို တိုင်းတာ စစ်ဆေးနိုင်ရေး ဆောင်ရွက်သွားမည် ဖြစ်ပါသည်။ |
| (င) | လေထု၊ ရေထု၊ မြေထု၊ ဆူညံသံ အရည်အသွေးများအား အတည်ပြုပြီး EIA အစီရင်ခံစာတွင် ပါရှိသည့် သတ်မှတ် Parameter များ၊ သတ်မှတ်နေရာများအတိုင်း တိုင်းတာသွားရန် နှင့် လုပ်ကွက်အတွင်း တိုင်းတာသည့်နေရာ၊ location point များနှင့် နမူနာ ကောက်ယူသည့်နေရာများအား Google Map ဖြင့်လည်းကောင်း၊ Layout plan ဖြင့်လည်းကောင်း ထည့်သွင်းဖော်ပြရန်နှင့် တိုင်းတာသည့် ရလဒ်များကို အချိန် ပါသည့် မှတ်တမ်းခါတ်ပုံများနှင့်တကွ ဖော်ပြရန်၊ | - ကိုဗစ်-၁၉ ရောဂါဖြစ်ပွားမှု၊ လုံခြုံရေးအခြေအနေ၊ ခရီးသွားလာ နိုင်မှုအခြေအနေ၊ တိုင်းတာစစ်ဆေးသည့် အဖွဲ့အစည်း နှင့် တိုင်းတာသည့် စက်ပစ္စည်း၊ ခါတ်ခွဲ ခန်းမှ တိုင်းတာနိုင်သည့် အခြေအနေ စသည်တို့ပေါ်မူတည်၍ ပတ်ဝန်းကျင် စောင့်ကြပ် ကြည့်ရှုခြင်း အစီအစဉ်ကို အကောင်အထည်ဖော် ဆောင်ရွက် လျက်ရှိပါသည်။ |

| စဉ် | အကြောင်းကြားစာပါ လိုက်နာဆောင်ရွက်ရမည့် အချက်များ | လိုက်နာဆောင်ရွက်ထားရှိမှုအခြေအနေ |
|---|---|---|
| | | - လက်ရှိ ဒေသတွင်းအခြေအနေအရ တိုင်းတာနိုင်သည့် နေရာ အကန့် အသတ်ရှိသောကြောင့် နေရာအချို့တွင် သွားရောက် တိုင်းတာ စစ်ဆေးနိုင်မှု မရှိသေးပါ။ |
| (စ) | လေထုအရည်အသွေးတိုင်းတာသည့် Data Result များအား Data Analysis ပြုလုပ်ရန်အတွက် အဖျိုးသားပတ်ဝန်းကျင်ဆိုင်ရာ အရည်အသွေး (ထုတ်လွှတ်မှု) လမ်းညွှန်ချက်များပါ သတ်မှတ်ထားသည့် အချိန်ကာလအတိုင်း တိုင်းတာထားသည့် ရလဒ်များအား Excel Form ဖြင့် ပြည့်စုံစွာ ထည့်သွင်းဖော်ပြရန်။ | - (၆) လပတ် ပတ်ဝန်းကျင်စောင့်ကြပ် ကြည့်ရှုမှု အစီရင်ခံစာများတွင် သတ်မှတ်ထားသည့် အချိန်ကာလ အတိုင်း ထည့်သွင်း တင်ပြလျက်ရှိပါသည်။ |
| (ဆ) | ဂေဟစနစ်ထိန်းသိမ်းရေးအနေဖြင့် ပတ်ဝန်းကျင်စီမံလန်း စီပြေရေး အတွက် ထိန်းသိမ်းကာကွယ်ထားသော သဘာဝ ပေါက်ပင်များအား | - ကောင်းမွန်စွာ ရှင်သန်ပိုင်ရေး နှင့် ပျက်စီးဆုံးရှုံးမှုများ မဖြစ်ပေါ်စေရေး ဂရုပြု လိုက်နာ ဆောင်ရွက်လျက် ရှိပါသည်။ |

| စဉ် | အကြောင်းကြားစာပါ လိုက်နာဆောင်ရွက်ရမည့် အချက်များ | လိုက်နာဆောင်ရွက်ထားရှိမှုအခြေအနေ |
|---|---|---|
| | ကောင်းမွန်စွာ ရှင်သန်နိုင်ရေး၊ ပျက်စီးဆုံးရှုံးမှုများ မဖြစ်ပေါ်စေရေး ဂရုပြုဆောင်ရွက်သွားရန်၊ | |
| (ဇ) | လုပ်ငန်းတွင် မီးဘေးအန္တရာယ်ကာကွယ်ရေးအတွက် မီးသတ်ဦးစီးဌာန၏ လမ်းညွှန်ချက်များအတိုင်း အထူးအလေးထားလိုက်နာဆောင်ရွက်ရန်၊ | - မီးသတ်ဦးစီးဌာန၏ လမ်းညွှန်ချက်များအတိုင်း အထူးအလေးထား လိုက်နာ ဆောင်ရွက်လျက် ရှိပါသည်။ |
| (ဈ) | အတည်ပြုပြီး EIA အစီရင်ခံစာအား အများပြည်သူများ သိရှိနိုင်ရေး ကုမ္ပဏီ Website ကဲ့သို့သော အများပြည်သူများ သိရှိနိုင်မည့် နည်းလမ်းများအသုံးပြု၍ လွှင့်တင်ထားရှိရန်၊ | - လိုက်နာ ဆောင်ရွက်လျက် ရှိပါသည်။ |
| (ည) | အတည်ပြုပြီး အစီရင်ခံစာပါ ကတိကဝတ်များနှင့် ECC ပါ လိုက်နာဆောင်ရွက်ရမည့် အချက်များအား အလေးထား လိုက်နာဆောင်ရွက်သွားရန်၊ | - အလေးထား လိုက်နာ ဆောင်ရွက် လျက် ရှိပါသည်။ |
| (ဋ) | ကုမ္ပဏီအနေဖြင့် ဒေသခံပြည်သူတို့၏ ဆန္ဒနှင့် သဘောထားများကို အလေးထား လိုက်နာဆောင်ရွက်ရန်နှင့် စောင့်ကြပ်ကြည့်ရှုမှု လုပ်ငန်းစဉ်များကို ပတ်ဝန်းကျင် ထိန်းသိမ်းရေး ဥပဒေ၊ ပတ်ဝန်းကျင်ထိန်းသိမ်းရေး နည်းဥပဒေများ၊ ပတ်ဝန်းကျင်ထိခိုက်မှု ဆန်းစစ်ခြင်း ဆိုင်ရာ လုပ်ထုံးလုပ်နည်း အမျိုးသား ပတ်ဝန်းကျင်ဆိုင်ရာ | - လိုက်နာ အကောင်အထည်ဖော် ဆောင်ရွက်လျက် ရှိပါသည်။ |

| စဉ် | အကြောင်းကြားစာပါ လိုက်နာဆောင်ရွက်ရမည့် အချက်များ | လိုက်နာဆောင်ရွက်ထားရှိမှုအခြေအနေ |
|---|---|---|
| | အရည်အသွေး (ထုတ်လွှတ်မှု) လမ်းညွှန်ချက်များနှင့်အညီ ဆက်လက်အကောင်အထည်ဖော် ဆောင်ရွက်သွားရန်။ | |
| (၄) | စောင့်ကြပ်ကြည့်ရှုမှုအစီရင်ခံစာအား ပတ်ဝန်းကျင်ထိခိုက်မှု ဆန်းစစ်ခြင်းဆိုင်ရာ လုပ်ထုံးလုပ်နည်း အပိုဒ် (၁၀၉) နှင့်အညီ ရေးဆွဲပြုစု၍ အပိုဒ် (၁၀၈) နှင့်အညီ (ခ) လလျှင် (၁) ကြိမ် ပုံမှန်အစီရင်ခံတင်ပြရန်။ | - (ခ) လ လျှင် တစ်ကြိမ် ပုံမှန် အစီရင်ခံတင်ပြလျက်ရှိပါသည်။ |

| | |
|---|---|
| ရက်စွဲ | ၃-၉-၂၀၂၃ |
| စာအမှတ် | ၅/ ထိန်းချုပ်/ စကရ (၀၁) (၁၈၆၀/၂၀၂၃) |
| ဌာန | ညွှန်ကြားရေးမှူးရုံး၊ ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဦးစီးဌာန၊ မကွေးတိုင်းဒေသကြီး၊ မကွေးမြို့ |
| အကြောင်းအရာ | **မကွေးတိုင်းဒေသကြီး၊ မင်းဘူးမြို့နယ်၊ မန်းရေနံမြေအတွင်းရှိ Environmental Impact Assessment (EIA) အတည်ပြုပြီး MPRL E&P Pte. Ltd ၏ ရေနံပြန်လည်မွှေမြုံးတိုးတက်ရေးအစီအစဉ် (Re-development and Enhanced Oil Recovery – EOR Programme) အတွက် (၂၀၂၂ ခုနှစ်၊ အောက်တိုဘာလ မှ ၂၀၂၃ ခုနှစ်၊ မတ်လအထိ) တင်ပြလာသော (၆) လပတ် စောင့်ကြပ်ကြည့်ရှုမှု အစီရင်ခံစာနှင့်ပတ်သက်၍ အကြောင်းကြားခြင်း** |

| စဉ် | အကြောင်းကြားစာပါ လိုက်နာဆောင်ရွက်ရမည့် အချက်များ | လိုက်နာဆောင်ရွက်ထားရှိမှုအခြေအနေ |
|---|---|---|
| (က) | လေထုအရည်အသွေး တိုင်းတာထားသည့်ရလဒ်များအား အမျိုးသား ပတ်ဝန်းကျင်ဆိုင်ရာ အရည်အသွေး (ထုတ်လွှတ်မှု) လမ်းညွှန်ချက်များ (National Environmental Quality Emission Guideline – NEQEG) ပါ သတ်မှတ် Unit ဖြင့် ဖော်ပြရန်၊ | - လေထုအရည်အသွေး တိုင်းတာထားသည့် ရလဒ်များအား NEQEG ပါ သတ်မှတ် Unit ဖြင့် ဖော်ပြလျက် ရှိပါသည်။ |

| စဉ် | အကြောင်းကြားစာပါ လိုက်နာဆောင်ရွက်ရမည့် အချက်များ | လိုက်နာဆောင်ရွက်ထားရှိမှုအခြေအနေ |
|---|---|---|
| (ခ) | လုပ်ကွက်အတွင်းရှိ မြေအောက်ရေနှင့် တိုင်းတာ ဖော်ပြထားသော မြေပေါ်ရေအား ဝန်ထမ်းများ သောက်သုံးရေအဖြစ် အသုံးပြုပါက World Health Organization (WHO) ၏ Drinking Water Quality Guideline (2011) (သို့မဟုတ်) ကျွန်းမာရေးဝန်ကြီးဌာနမှ ထုတ်ပြန်ထားသော National Drinking Water Quality Standard ဖြင့် နှိုင်းယှဉ်ဖော်ပြရန်၊ | - လိုက်နာဆောင်ရွက်လျက် ရှိပါသည်။ |
| (ဂ) | စွန့်ပစ်ရေ အရည်အသွေးတိုင်းတာမှုတွင် Total Coliform bacteria၊ Biochemical Oxygen Demand (BOD)၊ Total Suspended Solid တန်ဖိုးတို့သည် သတ်မှတ်စံချိန် စံညွှန်းထက် ကျော်လွန်နေသည်ကို တွေ့ရှိရသဖြင့် ကျော်လွန်ရသည့် အကြောင်းရင်းအား ဖော်ပြရန်နှင့် သတ်မှတ်စံချိန်စံညွှန်းအတွင်းရှိစေရေး စီမံဆောင်ရွက် သွားရန်၊ | - သတ်မှတ်စံချိန်စံညွှန်းထက် ကျော်လွန်ရသည့် အကြောင်းရင်းအား ပတ်ဝန်းကျင် စောင့်ကြပ်ကြည့်ရှုမှု အစီရင်ခံစာ ၏ သက်ဆိုင်ရာ ခေါင်းစဉ်အခန်းများတွင် ထည့်သွင်း ရှင်းလင်း တင်ပြ ထားရှိပါသည်။ သတ်မှတ်စံချိန် စံညွှန်းအတွင်း ရှိစေရေး စီမံဆောင်ရွက်လျက် ရှိပါသည်။ |
| (ဃ) | မြေထုအရည်အသွေးတိုင်းတာမှုတွင် အတည်ပြုပြီး EIA အစီရင်ခံစာပါ သတ်မှတ် Parameter များအား ပြည့်စုံစွာ တိုင်းတာဖော်ပြရန်၊ လိုက်နာဆောင်ရွက်မည့် သတ်မှတ် Guideline ဖြင့် နှိုင်းယှဉ်ဖော်ပြရန်နှင့် Guideline အမည်အား ဖော်ပြရန်၊ | - လိုက်နာ ဆောင်ရွက်လျက် ရှိပါသည်။ |

| စဉ် | အကြောင်းကြားစာပါ လိုက်နာဆောင်ရွက်ရမည့် အချက်များ | လိုက်နာဆောင်ရွက်ထားရှိမှုအခြေအနေ |
|---|---|---|
| (ဇ) | ပတ်ဝန်းကျင်အရည်အသွေးများ တိုင်းတာစစ်ဆေးရာတွင် တိုင်းတာစစ်ဆေးမှု ရလဒ်များအပေါ် မူတည်၍ အကျိုး အကြောင်းခိုင်လုံစွာ ဖော်ပြရန်နှင့် ပတ်ဝန်းကျင် အရည်အသွေး တိုင်းတာစစ်ဆေးမှု ရလဒ်များအား ဖော်ပြရာတွင် Unit များ မှန်ကန်စေရေး အလေးထား ဆောင်ရွက်ရန်၊ | - အလေးထားလိုက်နာ ဆောင်ရွက်လျက် ရှိပါသည်။ |
| (စ) | ဂေဟစနစ်ထိန်းသိမ်းရေးအနေဖြင့် ပတ်ဝန်းကျင်စိမ်းလန်း စိုပြည်ရေးအတွက် ထိန်းသိမ်းကာကွယ်ထားသော သဘာဝ ပေါက်ပင်များအား ကောင်းမွန်စွာ ရှင်သန်ဖိုင်ရေး၊ ပျက်စီး ဆုံးရှုံးမှုများ မဖြစ်ပေါ်စေရေး ဂရုပြုဆောင်ရွက် သွားရန်၊ | - ဂေဟစနစ် ထိန်းသိမ်းရေး အနေဖြင့် သဘာဝ ပေါက်ပင်များအပေါ် ကောင်းမွန်စွာ ရှင်သန်ဖိုင်ရေး နှင့် ပျက်စီးဆုံးရှုံးမှု မဖြစ်ပေါ်စေရေး ဂရုပြု ဆောင်ရွက်လျက် ရှိပါသည်။ |
| (ဆ) | လုပ်ငန်းတွင် မီးဘေးအန္တရာယ်ကာကွယ်ရေးအတွက် မီးသတ် ဦးစီးဌာန၏ လမ်းညွှန်ချက်များအတိုင်း အထူးအလေးထား လိုက်နာဆောင်ရွက်ရန်၊ | - မီးသတ် ဦးစီးဌာန၏ လမ်းညွှန်ချက်များအတိုင်း အထူးအလေးထား လိုက်နာ ဆောင်ရွက်လျက် ရှိပါသည်။ |

| စဉ် | အကြောင်းကြားစာပါ လိုက်နာဆောင်ရွက်ရမည့် အချက်များ | လိုက်နာဆောင်ရွက်ထားရှိမှုအခြေအနေ |
|---|---|---|
| (၈) | တင်ပြလာသော စောင့်ကြပ်ကြည့်ရှုမှု အစီရင်ခံစာများနှင့် ပတ်သက်၍ လေထု၊ ရေထု၊ မြေထုအညစ်အသွေးအပါအဝင် ပတ်ဝန်းကျင်အညစ်အသွေး စောင့်ကြည့်တိုင်းတာမှု ရလဒ်များအရ သတ်မှတ်စံချိန်စံညွှန်းများထက် ကျော်လွန်မှု ရှိနေပါက အတည်ပြုပြီး EIA ပါ Mitigation Measure များ ဆောင်ရွက်မည့် လုပ်ငန်းအစီအစဉ်များနှင့် စောင့်ကြပ် ကြည့်ရှုမှု အစီရင်ခံစာတွင် ဖော်ပြပါရှိသော တိုင်းတာစောင့်ကြည့်မည့် လုပ်ငန်းစဉ်များ အတိုင်း ဆက်လက် ဆောင်ရွက်သွားရန်နှင့် ထပ်မံတင်ပြမည့် စောင့်ကြပ် ကြည့်ရှုမှုအစီရင်ခံစာများတွင် ဆောင်ရွက်မည့် အစီအစဉ် များကို ထည့်သွင်းဖော်ပြရန်၊ | - မှတ်သား လိုက်နာ ဆောင်ရွက် လျက်ရှိပါသည်။ |
| (၉) | ကုမ္ပဏီမှ ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဆိုင်ရာ လိုက်နာ ဆောင်ရွက်မှု သက်သေခံလက်မှတ် Environmental Compliance Certificate (ECC) ၏ အပိုဒ် (B1) အရ အတည်ပြုပြီး EIA အစီရင်ခံစာ၏ ဇယား (၈.၃) တွင် ဖော်ပြထားသော ကတိကဝတ်များအား အကောင် အထည်ဖော် ဆောင်ရွက်သွားရန်၊ | - ဖော်ပြထားသော ကတိကဝတ်များအား လိုက်နာ အကောင်အထည်ဖော် ဆောင်ရွက်လျက် ရှိပါသည်။ |

| စဉ် | အကြောင်းကြားစာပါ လိုက်နာဆောင်ရွက်ရမည့် အချက်များ | လိုက်နာဆောင်ရွက်ထားရှိမှုအခြေအနေ |
|---|---|---|
| (ည) | ကုမ္ပဏီမှ ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဆိုင်ရာ လိုက်နာ ဆောင်ရွက်မှု သက်သေခံလက်မှတ် Environmental Compliance Certificate (ECC) ၏ အပိုဒ် (C3) အရ စီမံကိန်း၏လုပ်ဆောင်မှုများ၊ Sites (သို့) ဆိုးရွားသော ထိခိုက်မှုများ ပြောင်းလဲမှုရှိပါက ပြန်လည်ပြင်ဆင်ထားသည့် EMP အား စိစစ်နိုင်ရန်နှင့် အတည်ပြုနိုင်ရန်အတွက် ECD သို့ တင်ပြသွားရန်၊ | - စီမံကိန်း၏ လုပ်ဆောင်မှုများ၊ ဆိုးရွားသော ထိခိုက်မှုများ ပြောင်းလဲမှုရှိပါက တင်ပြသွားမည် ဖြစ်ပါသည်။ |
| (ဋ) | ကုမ္ပဏီအနေဖြင့် စာချုပ်သက်တမ်းပြီးဆုံးပါက MOGE ထံ ပြန်လည် အပ်နှံသည့်အချိန်တွင် EIA Procedure အပိုဒ် (၁၀၂) နှင့် အပိုဒ် (၁၀၆) တို့အား အလေးထား လိုက်နာ ဆောင်ရွက်သွားရန်၊ | - လိုက်နာ ဆောင်ရွက်သွားမည် ဖြစ်ပါသည်။ |
| (ဌ) | ရေနုံပြန်လည်ဖွံ့ဖြိုးတိုးတက်ရေးအစီအစဉ် (Re-development and Enhanced Oil Recovery – EOR Programme) အတွက် ခွင့်ပြုမိန့်တွင် လိုက်နာရမည့် စည်းကမ်းချက်များအတိုင်း အကောင်အထည်ဖော် ဆောင်ရွက် သွားရန်၊ | - ခွင့်ပြုမိန့်ပါ လိုက်နာရမည့် စည်းကမ်းချက်များ အတိုင်း အကောင်အထည်ဖော် လိုက်နာ ဆောင်ရွက်လျက် ရှိပါသည်။ |

| စဉ် | အကြောင်းကြားစာပါ လိုက်နာဆောင်ရွက်ရမည့် အချက်များ | လိုက်နာဆောင်ရွက်ထားရှိမှုအခြေအနေ |
|---|---|---|
| (၃) | EIA Procedure အပိုဒ်(၁၀၆)အရ စီမံကိန်းအဆင့်အားလုံးတွင် ဆိုးကျိုးသက်ရောက်မှုအားလုံးအတွက် စီမံကိန်းနှင့် ဆက်စပ်ဆောင်ရွက်မှုများအား မိမိကိုယ်မိမိ ဘက်စုံ စောင့်ကြပ် ကြည့်ရှုစစ်ဆေးခြင်းကို စဉ်ဆက်မပြတ် လက်တွေ့ဆောင်ရွက်ရမည့်အပြင် သက်ဆိုင်ရာ ဥပဒေများ၊ နည်းဥပဒေများ၊ ပတ်ဝန်းကျင်ထိခိုက်မှုဆန်းစစ်ခြင်းဆိုင်ရာ လုပ်ထုံးလုပ်နည်း နှင့် စံချိန်စံညွှန်းများ၊ ပတ်ဝန်းကျင် ထိန်းသိမ်းရေးဆိုင်ရာ လိုက်နာဆောင်ရွက်မှုသက်သေခံလက်မှတ်ပါ စည်းကမ်းချက်များနှင့် ပတ်ဝန်းကျင် စီမံခန့်ခွဲမှု အစီအစဉ်ပါ အချက်များကို အလေးထား လိုက်နာဆောင်ရွက်သွားရန်၊ | - အလေးထား လိုက်နာ ဆောင်ရွက်လျက် ရှိပါသည်။ |
| (၄) | EIA Procedure အပိုဒ် (၁၀၇) အရ လုပ်ငန်းစီမံကိန်း၏ ပျက်ကွက်မှု တစ်ခုခုကြောင့် အန္တရာယ်ဖြစ်စေနိုင်သော ပတ်ဝန်းကျင်အပေါ် သက်ရောက်မှု ဖြစ်နိုင်သည့်ကိစ္စ (သို့မဟုတ်) သယံဇာတ နှင့် သဘာဝပတ်ဝန်းကျင် ထိန်းသိမ်းရေးဝန်ကြီးဌာနက အမြန်သိရှိရန် လိုအပ်သည့် ကိစ္စကို (၂၄) နာရီအတွင်းလည်းကောင်း၊ အခြားကိစ္စများ အားလုံးတွင် ယင်းဖြစ်စဉ် ဖြစ်ရပ်ကို စတင်သိရှိသည့်အချိန်မှ (၇) ရက်အတွင်းတွင်လည်းကောင်း၊ စီမံကိန်းလုပ်ငန်းပိုင်ရှင်မှ ဝန်ကြီးဌာနသို့ အသိပေးတင်ပြသွားရန်၊ | - သိရှိလိုက်နာ ဆောင်ရွက် သွားပါမည်။ |

| စဉ် | အကြောင်းကြားစာပါ လိုက်နာဆောင်ရွက်ရမည့် အချက်များ | လိုက်နာဆောင်ရွက်ထားရှိမှုအခြေအနေ |
|---|---|---|
| (ဏ) | အတည်ပြုပြီး EIA အစီရင်ခံစာပါအတိုင်း လိုက်နာ ဆောင်ရွက်မှုနှင့် ပတ်သက်၍ ဆောင်ရွက်တိုးတက်မှု အခြေအနေအား (၆) လလျှင် (၁) ကြိမ် တင်ပြမည့် စောင့်ကြပ် ကြည့်ရှုမှုအစီရင်ခံစာများတွင် ပြည့်စုံစွာ ထည့်သွင်း ဖော်ပြသွားရန်၊ | - စောင့်ကြပ် ကြည့်ရှုမှု အစီရင်ခံ စာများတွင် ပြည့်စုံစွာ ထည့်သွင်း တင်ပြလျက် ရှိပါသည်။ |
| (တ) | EIA Procedure အပိုဒ် (၁၁၀) အရ စောင့်ကြပ် ကြည့်ရှုမှုအစီရင်ခံစာအား ဝန်ကြီးဌာနသို့ တင်ပြမည့် နေ့ရက်မှ (၁၀) ရက်အတွင်း အများပြည်သူ သိရှိနိုင်ရန် စီမံကိန်း၏ Website သို့မဟုတ် သင့်တော်သော နည်းလမ်းတစ်ရပ်ရပ်အသုံးပြု၍ အသိပေးထုတ်ပြန် ကြေညာရန် နှင့် ထုတ်ဖော်မည့် Website သို့မဟုတ် နေရာတို့ကို ထပ်မံတင်ပြမည့် စောင့်ကြပ်ကြည့်ရှုမှု အစီရင်ခံစာ၌ ထည့်သွင်းဖော်ပြရန်၊ | - တင်ပြပြီးစီးခဲ့သော စောင့်ကြပ် ကြည့်ရှုမှု အစီရင်ခံစာများကို အများပြည်သူ သိရှိနိုင်ရန် ကုမ္ပဏီ Website ၌ အသိပေးထုတ်ပြန် ထားပြီး ဖြစ်ပါသည်။ ထပ်မံတင်ပြမည့် စောင့်ကြပ် ကြည့်ရှုမှု အစီရင်ခံ စာများ၌လည်း ထုတ်ဖော်မည့် Website သို့မဟုတ် နေရာတို့ကို ထည့်သွင်းဖော်ပြ သွားပါမည်။ |

| စဉ် | အကြောင်းကြားစာပါ လိုက်နာဆောင်ရွက်ရမည့် အချက်များ | လိုက်နာဆောင်ရွက်ထားရှိမှုအခြေအနေ |
|---|---|---|
| (ထ) | (၂၀၂၂ ခုနှစ်၊ အောက်တိုဘာလမှ ၂၀၂၃ ခုနှစ်၊ မတ်လအထိ) တင်ပြလာသော စောင့်ကြပ်ကြည့်ရှုမှုအစီရင်ခံစာအား စိစစ် အကြောင်းကြားမည့် အချက်များ အပြင် ယခင် စောင့်ကြပ် ကြည့်ရှုမှုအစီရင်ခံစာများအပေါ် စိစစ် ပြန်ကြားချက်များအား ဆက်လက်လိုက်နာ ဆောင်ရွက်သွားရန်နှင့် ထပ်မံတင်ပြမည့် စောင့်ကြပ် ကြည့်ရှုမှု အစီရင်ခံစာတွင် ဆောင်ရွက်ထားရှိမှုများအား ထည့်သွင်း ဖော်ပြရန်၊ | - စောင့်ကြပ်ကြည့်ရှုမှု အစီရင်ခံစာ များတွင် ပတ်ဝန်းကျင် ထိန်းသိမ်းရေး ဦးစီးဌာန၏ စိစစ် ပြန်ကြားချက်များအား လိုက်နာ ဆောင်ရွက် ထားရှိမှု အခြေအနေများကို ထည့်သွင်း တင်ပြလျက် ရှိပါသည်။ |
| (ဒ) | အတည်ပြုပြီး အစီရင်ခံစာပါ ကတိကဝတ်များနှင့် ECC ပါ လိုက်နာဆောင်ရွက်ရမည့်အချက်များအား အလေးထား လိုက်နာ ဆောင်ရွက်သွားရန်၊ | - အတည်ပြုပြီး အစီရင်ခံစာပါ ကတိကဝတ်များနှင့် ECC ပါ လိုက်နာဆောင်ရွက်ရမည့်အချက်များအား အလေးထား လိုက်နာ ဆောင်ရွက်လျက် ရှိပါသည်။ |
| (ဓ) | ကုမ္ပဏီအနေဖြင့် ဒေသခံပြည်သူတို့၏ ဆန္ဒနှင့် သဘောထားများကို အလေးထားလိုက်နာ ဆောင်ရွက်သွားရန်နှင့် စောင့်ကြပ်ကြည့်ရှုမှု လုပ်ငန်းစဉ် များကို ပတ်ဝန်းကျင်ထိခိုက်မှု ဆန်းစစ်ခြင်းဆိုင်ရာ လုပ်ထုံးလုပ်နည်း အမျိုးသားပတ်ဝန်းကျင်ဆိုင်ရာ အရည်အသွေး | - ဒေသခံပြည်သူတို့၏ ဆန္ဒနှင့် သဘောထားများကို အလေးထား လိုက်နာ ဆောင်ရွက်လျက် ရှိပါသည်။ |

| စဉ် | အကြောင်းကြားစာပါ လိုက်နာဆောင်ရွက်ရမည့် အချက်များ | လိုက်နာဆောင်ရွက်ထားရှိမှုအခြေအနေ |
|---|---|---|
| | (ထုတ်လွှတ်မှု) လမ်းညွှန်ချက်များ နှင့်အညီ ဆက်လက် အကောင်အထည်ဖော် ဆောင်ရွက်သွားရန်၊ | |
| (နှ) | စောင့်ကြပ်ကြည့်ရှုမှုအစီရင်ခံစာအား ပတ်ဝန်းကျင် ထိခိုက်မှုဆန်းစစ်ခြင်း ဆိုင်ရာ လုပ်ထုံးလုပ်နည်း အပိုဒ် (၁၀၉) နှင့်အညီ ရေးဆွဲပြုစု၍ အပိုဒ် (၁၀၈) နှင့်အညီ (ဓ) လက္ခဏာ (၁) ကြိမ် ပုံမှန် အစီရင်ခံတင်ပြရန်၊ | - ပတ်ဝန်းကျင်ထိန်းသိမ်းရေး ဦးစီးဌာန သို့ စောင့်ကြပ် ကြည့်ရှုမှု အစီရင်ခံစာ ကို (ဓ) လက္ခဏာ တစ်ကြိမ် ပုံမှန် အစီရင်ခံ တင်ပြလျက် ရှိပါသည်။ |

| | |
|---|---|
| ရက်စွဲ | ၃၁-၁၀-၂၀၂၄ |
| စာအမှတ် | ၅/ ထိန်းချုပ်/ စကရ (၀၁) (၂၆၉၀/၂၀၂၄) |
| ဌာန | ညွှန်ကြားရေးမှူးရုံး၊ ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဦးစီးဌာန၊ မကွေးတိုင်းဒေသကြီး၊ မကွေးမြို့ |
| အကြောင်းအရာ | **ပတ်ဝန်းကျင်ထိခိုက်မှုဆန်းစစ်ခြင်း (Environmental Impact Assessment - EIA) အတည်ပြုပြီး MPRL E&P Pte. Ltd ၏ ရေနံပြန်လည်ဖွံ့ဖြိုးတိုးတက်ရေးအစီအစဉ် (Re-development and Enhanced Oil Recovery – EOR Programme) အတွက် သတ္တုမအကြိမ် တင်ပြလာသော စောင့်ကြပ်ကြည့်ရှုမှု အစီရင်ခံစာ (၂၀၂၃ ခုနှစ်၊ ဧပြီလ မှ ၂၀၂၃ ခုနှစ်၊ စက်တင်ဘာလအထိ) နှင့်ပတ်သက်၍ အကြောင်းကြားခြင်း** |
| ရည်ညွှန်းချက် | **(၁) သယံဇာတနှင့် သဘာဝပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဝန်ကြီးဌာန၊ မြည်ထောင်စုဝန်ကြီးဌာန၏ ၃-၂-၂၀၁၉ ရက်စွဲပါ စာအမှတ် (သစ်တော) ၃(၂)/၁၆(ယ) (၅၃၆/၂၀၁၉)**<br>**(၂) မကွေးတိုင်းဒေသကြီး ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဦးစီးဌာန၊ ညွှန်ကြားရေးမှူးရုံး၏ ၈-၃-၂၀၂၄ ရက်စွဲပါ စာအမှတ် ၅/ထိန်းချုပ်/စကရ (၀၁) (၅၆၈/၂၀၂၄)**<br>**(၃) ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဦးစီးဌာန၊ ညွှန်ကြားရေးမှူးချုပ်ရုံး၏ ၂-၁၀-၂၀၂၄ ရက်စွဲပါ စာအမှတ်၊ အရည်အသွေး-၂/ဆစရ (၁၃၅၆/၂၀၂၄)** |

| စဉ် | အကြောင်းကြားစာပါ လိုက်နာဆောင်ရွက်ရမည့် အချက်များ | လိုက်နာဆောင်ရွက်ထားရှိမှုအခြေအနေ |
|---|---|---|
| (က) | မြေအောက်ရေ အရည်အသွေး စောင့်ကြည့်တိုင်းတာခြင်းနှင့် ပတ်သက်၍ Biological Oxygen Demand (BOD), Total Dissolved Solids (TDS), Total Coliforms, Total Fecal Coliforms, Manganese (Mn), Sulphate ($SO_4$) စသည့် parameter များနှင့် မြေပေါ်ရေအရည်အသွေး စောင့်ကြည့်တိုင်းတာခြင်းနှင့်ပတ်သက်၍ Z4SW1 နှင့် Z4SW2 တည်နေရာများ၏ Total Suspended Solid (TDS), Biological Oxygen Demand (BOD) စသည့် parameter များ၏ တိုင်းတာရလဒ်များသည် နိုင်းယှဉ်ဖော်ပြထားသည့် စံချိန်စံညွှန်းများထက် ကျော်လွန် နေသောကြောင့် သောက်သုံးရေအဖြစ် အသုံးပြုပါက စနစ်တကျ စီမံဆောင်ရွက်ပြီး အသုံးပြုပါရန်၊ | သောက်သုံးရေအဖြစ် အသုံးပြုပါက စနစ်တကျ သန့်စင်ခြင်း၊ ကျိုချက်ခြင်းများ ပြုလုပ်ရန် ရုပ်ရှာလုထုနှင့် တွေ့ဆုံသည့် အခမ်းအနားများတွင် ထည့်သွင်း အသိပေး ပြောကြားလျက် ရှိပါသည်။ |
| (ခ) | စွန့်ပစ်ရေအရည်အသွေး စောင့်ကြည့်တိုင်းတာမှုနှင့် ပတ်သက်၍ Biological Oxygen Demand (BOD) နှင့် Total Coliform bacteria စသည့် parameter များ၏ တိုင်းတာရလဒ်များသည် နိုင်းယှဉ်ဖော်ပြထားသည့် စံချိန်စံညွှန်းများထက် ကျော်လွန် နေသောကြောင့် အတည်ပြုပြီး EIA အစီရင်ခံစာပါ လျော့ချမည့် အစီအစဉ်များ နှင့်အညီ ဆောင်ရွက်ပြီး ပတ်ဝန်းကျင်စည်းမ်းမှုများ မဖြစ်ပေါ်စေရေး စနစ်တကျ စီမံဆောင်ရွက်ပါရန်၊ | ပတ်ဝန်းကျင်စည်းမ်းမှုများ မဖြစ်ပေါ်စေရေး စနစ်တကျ စီမံဆောင်ရွက် လျက်ရှိပါသည်။ |

| စဉ် | အကြောင်းကြားစာပါ လိုက်နာဆောင်ရွက်ရမည့် အချက်များ | လိုက်နာဆောင်ရွက်ထားရှိမှုအခြေအနေ |
|---|---|---|
| (ဂ) | လုပ်ငန်းဆောင်ရွက်ခြင်းမှ ထွက်ရှိသော စွန့်ပစ်ရေများအား ပြင်ပသို့ တိုက်ရိုက် စွန့်ပစ်ခြင်းမပြုရန်၊ စွန့်ထုတ်မည်ဆိုပါက အမျိုးသား ပတ်ဝန်းကျင်ဆိုင်ရာ အရည်အသွေး (ထုတ်လွှတ်မှု) လမ်းညွှန်ချက်များ (National Environmental Quality Emission Guidelines – NEQEGs) ပါ စွန့်ထုတ်အရည်အဆင့် သတ်မှတ်ချက်များနှင့်အညီ သန့်စင်ပြီးမှ စွန့်ထုတ်ရန်နှင့် စွန့်ပစ်ရေကြောင့် ပတ်ဝန်းကျင်ညစ်ညမ်းမှုများ မဖြစ်ပေါ်စေရေး စနစ်တကျ စီမံဆောင်ရွက်ပါရန်၊ | စွန့်ပစ်ရေများအား ပြင်ပသို့ တိုက်ရိုက် စွန့်ပစ်ခြင်း မပြုလုပ်ပါ။ သန့်စင်ပြီးမှ စွန့်ထုတ်လွှတ်ရှိပြီး စွန့်ပစ်ရေကြောင့် ပတ်ဝန်းကျင်ညစ်ညမ်းမှုများ မဖြစ်ပေါ်စေရေး စနစ်တကျ စီမံဆောင်ရွက်လျက်ရှိပါသည်။ |
| (ဃ) | လုပ်ငန်းတွင် မီးဘေးအန္တရာယ်ကာကွယ်ရေးအတွက် မီးသတ်ဦးစီးဌာန၏ လမ်းညွှန်ချက်များအတိုင်း အထူးအလေးထား လိုက်နာဆောင်ရွက်ရန်၊ | လိုက်နာဆောင်ရွက်လျက် ရှိပါသည်။ |
| (င) | လေထု၊ ရေထု၊ မြေထု အရည်အသွေးအပါအဝင် ပတ်ဝန်းကျင်အရည်အသွေး စောင့်ကြည့်တိုင်းတာမှု ရလဒ်များအရ သတ်မှတ်စံချိန်စံညွှန်းများထက် ကျော်လွန်မှု ရှိနေပါက အတည်ပြုပြီး EIA အစီရင်ခံစာပါ Mitigation Measure များ၊ ဆောင်ရွက်မည့် လုပ်ငန်းအစီအစဉ်များနှင့် စောင့်ကြပ်ကြည့်ရှုမှုအစီရင်ခံစာတွင် ဖော်ပြပါရှိသော တိုင်းတာစောင့်ကြည့်မည့် လုပ်ငန်းစဉ်များအတိုင်း | လိုက်နာဆောင်ရွက်လျက် ရှိပါသည်။ |

| စဉ် | အကြောင်းကြားစာပါ လိုက်နာဆောင်ရွက်ရမည့် အချက်များ | လိုက်နာဆောင်ရွက်ထားရှိမှုအခြေအနေ |
|---|---|---|
| | ဆက်လက် ဆောင်ရွက်သွားပါရန်နှင့် နောက်တစ်ကြိမ်တင်ပြမည့် စောင့်ကြပ်ကြည့်ရှုမှုအစီအရင်ခံစာများတွင် ဆောင်ရွက်မည့် အစီအစဉ်များကို ထည့်သွင်းဖော်ပြပါရန်၊ | |
| (စ) | စိမ်ကိန်းမှထွက်ရှိလာသည့် စွန့်ပစ်ပစ္စည်းများနှင့် ဘေးအန္တရာယ်ရှိ စွန့်ပစ်ပစ္စည်းများကြောင့် ပတ်ဝန်းကျင်ညစ်ညမ်းမှု မရှိစေရေးအတွက် အတည်ပြုပြီး EIA အစီရင်ခံစာပါ ဆောင်ရွက်မည့် အစီအစဉ်များနှင့်အညီ စနစ်တကျ စီမံဆောင်ရွက်သွားပါရန်နှင့် စောင့်ကြပ်ကြည့်ရှုမှု အစီရင်ခံစာတွင် ဆောင်ရွက်ထားရှိမှု အခြေအနေများအား မှတ်တမ်းဓါတ်ပုံများဖြင့် ထည့်သွင်းဖော်ပြပါရန်၊ | စောင့်ကြပ်ကြည့်ရှုမှုအစီရင်ခံစာတွင် ဆောင်ရွက်ထားရှိမှု အခြေအနေများအား မှတ်တမ်းဓါတ်ပုံများဖြင့် ထည့်သွင်းဖော်ပြလျက်ရှိပါသည်။ |
| (ဆ) | လူမှုရေးဆိုင်ရာ တာဝန်သိလုပ်ငန်းများ (Corporate Social Responsibility - CSR) အား အကောင်အထည်ဖော် ဆောင်ရွက်ရန်၊ စီမံကိန်းအနီးဝန်းကျင်ရှိ ဒေသခံပြည်သူများ၊ ဆက်စပ်ပတ်သက်သူများနှင့် စဉ်ဆက်မပြတ် တွေ့ဆုံ ဆွေးနွေးပြီး ၎င်းတို့၏ အကြံပြုချက်နှင့် လိုအပ်ချက်များအား အလေးထား ပေါင်းစပ်ဆောင်ရွက်သွားပါရန်နှင့် ဆောင်ရွက် ထားရှိမှုများအား နောက်တစ်ကြိမ်တင်ပြမည့် စောင့်ကြပ် ကြည့်ရှုမှုအစီရင်ခံစာတွင် မှတ်တမ်း ဓါတ်ပုံများ ပြည့်စုံစွာ ထည့်သွင်းဖော်ပြရန်၊ | ဆောင်ရွက် ထားရှိမှုများအား စောင့်ကြပ်ကြည့်ရှုမှုအစီရင်ခံစာများတွင် မှတ်တမ်းဓါတ်ပုံများ ပြည့်စုံစွာ ဖြင့် ပုံမှန် ထည့်သွင်းဖော်ပြလျက်ရှိပါသည်။ |

| စဉ် | အကြောင်းကြားစာပါ လိုက်နာဆောင်ရွက်ရမည့် အချက်များ | လိုက်နာဆောင်ရွက်ထားရှိမှုအခြေအနေ |
|---|---|---|
| (၈) | စိမ်ကိန်းနှင့်ပတ်သက်သည့် ပိုင်ရှင်ပြောင်းလဲခြင်း၊ အစီရင်ခံစာတွင် ဖော်ပြပါရှိသည့် လုပ်ငန်းထုတ်လုပ်မှု ပမာဏထက် ပိုမိုထုတ်လုပ်ခြင်း၊ လုပ်ငန်းလည်ပတ်မှု ဒီဇိုင်းများ ပြောင်းလဲခြင်း၊ လုပ်ငန်းတည်နေရာ ပြောင်းလဲခြင်း၊ လုပ်ငန်းရုပ်ဆိုင်းခြင်း (သို့) ပိတ်သိမ်းခြင်း ပြုလုပ်မည်ဆိုပါက အဆိုပါလုပ်ငန်းများ ဆောင်ရွက်ခြင်းမပြုမီ ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဦးစီးဌာနသို့ ကြိုတင်၍ တင်ပြပါရန်၊ | လိုက်နာဆောင်ရွက်လျက် ရှိပါသည်။ |
| (၉) | အဆိုပါလုပ်ငန်းများအတွက် အတည်ပြုထားသော EIA အစီရင်ခံစာနှင့် အတည်ပြုအကြောင်းကြားစာပါ ကတိကဝတ်များနှင့် ECC ပါ လိုက်နာဆောင်ရွက်ရန် စည်းကမ်းချက်များအား သတ်မှတ်ကာလအတွင်း အချိန်မီပြီးစီးအောင် အကောင်အထည်ဖော်ဆောင်ရွက်ပါရန်၊ | လိုက်နာဆောင်ရွက်လျက် ရှိပါသည်။ |
| (၁၀) | အဆိုပါလုပ်ငန်းအတွက် သက်ဆိုင်ရာ ဌာနမှ ထုတ်ပေးထားသည့် ခွင့်ပြုမိန့်တွင် လိုက်နာရမည့် စည်းကမ်းများအတိုင်း အကောင်အထည်ဖော် ဆောင်ရွက်ပါရန်၊ | လိုက်နာဆောင်ရွက်လျက် ရှိပါသည်။ |
| (၁၁) | ပတ်ဝန်းကျင်ထိခိုက်မှုဆန်းစစ်ခြင်းဆိုင်ရာ လုပ်ထုံးလုပ်နည်း အပိုဒ် (၁၀၆) အရ စိမ်ကိန်း အဆင့်အားလုံးတွင် ဆိုးကျိုးသက်ရောက်မှုအားလုံးအတွက် စိမ်ကိန်းနှင့် ဆက်စပ်ဆောင်ရွက်မှုများအား | လိုက်နာဆောင်ရွက်လျက် ရှိပါသည်။ |

| စဉ် | အကြောင်းကြားစာပါ လိုက်နာဆောင်ရွက်ရမည့် အချက်များ | လိုက်နာဆောင်ရွက်ထားရှိမှုအခြေအနေ |
|---|---|---|
| | မိမိကိုယ်မိမိ ဘက်စုံ စောင့်ကြပ်ကြည့်ရှု စစ်ဆေးခြင်းကို စဉ်ဆက်မပြတ် လက်တွေ့ဆောင်ရွက်ရမည့်အပြင် သက်ဆိုင်ရာ ဥပဒေများ၊ နည်းဥပဒေများ၊ ပတ်ဝန်းကျင်ထိခိုက်မှုဆန်းစစ်ခြင်းဆိုင်ရာ လုပ်ထုံးလုပ်နည်းနှင့် စံချိန်စံညွှန်းများ၊ ပတ်ဝန်းကျင်ထိန်းသိမ်းရေး ဆိုင်ရာ လိုက်နာဆောင်ရွက်မှု သက်သေခံ လက်မှတ်ပါ စည်းကမ်းချက်များနှင့် ပတ်ဝန်းကျင် စီမံခန့်ခွဲမှုအစီအစဉ်ပါ အချက်များကို အလေးထား လိုက်နာဆောင်ရွက်ပါရန်၊ | |
| (၄) | ပတ်ဝန်းကျင် ထိခိုက်မှုဆန်းစစ်ခြင်းဆိုင်ရာ လုပ်ထုံးလုပ်နည်း အပိုဒ် (၁၀၇) အရ လုပ်ငန်းစီမံကိန်း၏ ပျက်ကွက်မှုတစ်ခုခု ကြောင့် အန္တရာယ်ဖြစ်စေနိုင်သော ပတ်ဝန်းကျင်အပေါ် သက်ရောက်မှု ဖြစ်လာနိုင်သည့်ကိစ္စ (သို့မဟုတ်) သယံဇာတနှင့် သဘာဝ ပတ်ဝန်းကျင်ထိန်းသိမ်းရေး ဝန်ကြီးဌာနက အမြန်သိရှိရန် လိုအပ်သည့်ကိစ္စကို (၂၄) နာရီအတွင်းလည်းကောင်း၊ အခြားကိစ္စများ အားလုံးတွင် ယင်းဖြစ်စဉ်ဖြစ်ရုပ်ကို စတင်သိရှိသည့်အချိန်မှ (၇) ရက်အတွင်း လည်းကောင်း စီမံကိန်းလုပ်ငန်းပိုင်ရှင်မှ ဝန်ကြီးဌာနသို့ အသိပေးတင်ပြသွားပါရန်၊ | သိရှိ လိုက်နာဆောင်ရွက်လျက် ရှိပါသည်။ |

| စဉ် | အကြောင်းကြားစာပါ လိုက်နာဆောင်ရွက်ရမည့် အချက်များ | လိုက်နာဆောင်ရွက်ထားရှိမှုအခြေအနေ |
|---|---|---|
| (ဃ) | ECC ရရှိပြီးသော လုပ်ငန်းစီမံကိန်းများအနေဖြင့် ECC အား သက်တမ်းတိုးဆောင်ရွက်ရာတွင် လွယ်ကူချောမွေ့စွာ ဆောင်ရွက်နိုင်ရေး အတွက် စောင့်ကြပ်ကြည့်ရှုမှု ဆန်းစစ်ခြင်းဆိုင်ရာ လုပ်ထုံးလုပ်နည်း (၁၀၈) နှင့်အညီ (ဆ) လလျှင် (၁) ကြိမ် ရေးဆွဲပြုစု၍ သတ်မှတ်ကာလအတွင်း သတ်မှတ်အရေအတွက် ပြည့်မီအောင် ပုံမှန်အစီရင်ခံစာ တင်ပြပါရန်။ | လုပ်ထုံးလုပ်နည်းနှင့်အညီ သတ်မှတ်အရေအတွက် ပြည့်မီအောင် ပုံမှန် အစီရင်ခံ တင်ပြလျက်ရှိပါသည်။ |

| | |
|---|---|
| ရက်စွဲ | ၃၁-၁၀-၂၀၂၄ |
| စာအမှတ် | ၅/ ထိန်းချုပ်/ စကရ (၀၁) (၂၆၈၉/၂၀၂၄) |
| ဌာန | ညွှန်ကြားရေးမှူးရုံး၊ ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဦးစီးဌာန၊ မကွေးတိုင်းဒေသကြီး မကွေးမြို့ |
| အကြောင်းအရာ | **ပတ်ဝန်းကျင်ထိခိုက်မှုဆန်းစစ်ခြင်း (Environmental Impact Assessment - EIA) အတည်ပြုပြီး MPRL E&P Pte. Ltd ၏ ရေနံပြန်လည်ဖွံ့ဖြိုးတိုးတက်ရေးအစီအစဉ် (Re-development and Enhanced Oil Recovery – EOR Programme) အတွက် အဌမအကြိမ် တင်ပြလာသော စောင့်ကြပ်ကြည့်ရှုမှု အစီရင်ခံစာ (၂၀၂၃ ခုနှစ်၊ အောက်တိုဘာလ မှ ၂၀၂၄ ခုနှစ်၊ မတ်လအထိ) နှင့်ပတ်သက်၍ အကြောင်းကြားခြင်း** |
| ရည်ညွှန်းချက် | **(၁) သယံဇာတနှင့် သဘာဝပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဝန်ကြီးဌာန၊ မြည်ထောင်စုဝန်ကြီးရုံး၏ ၃-၂-၂၀၁၉ ရက်စွဲပါ စာအမှတ် (သစ်တော) ၃(၂)/၁၆(ဃ) (၅၃၆/၂၀၁၉)**<br>**(၂) မကွေးတိုင်းဒေသကြီး ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဦးစီးဌာန၊ ညွှန်ကြားရေးမှူးရုံး၏ ၁၆-၅-၂၀၂၄ ရက်စွဲပါ စာအမှတ် ၅/ထိန်းချုပ်/စကရ (၀၁) (၁၁၂၃/၂၀၂၄)**<br>**(၃) ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဦးစီးဌာန၊ ညွှန်ကြားရေးမှူးချုပ်ရုံး၏ ၃-၁၀-၂၀၂၄ ရက်စွဲပါ စာအမှတ်၊ အရည်အသွေး-၂/ဆစရ (၁၇၉၄/၂၀၂၄)** |

| စဉ် | အကြောင်းကြားစာပါ လိုက်နာဆောင်ရွက်ရမည့် အချက်များ | လိုက်နာဆောင်ရွက်ထားရှိမှုအခြေအနေ |
|---|---|---|
| (က) | မြေအောက်ရေ အရည်အသွေး စောင့်ကြည့်တိုင်းတာခြင်းနှင့် ပတ်သက်၍ Biological Oxygen Demand (BOD), Total Dissolved Solids (TDS), Total Coliforms, Total Fecal Coliforms, Manganese (Mn), Sulphate ($SO_4$) စသည့် parameter များနှင့် မြေပေါ်ရေအရည်အသွေး စောင့်ကြည့်တိုင်းတာခြင်းနှင့်ပတ်သက်၍ Z4SW1 နှင့် Z4SW2 တည်နေရာများ၏ Total Suspended Solid (TDS), Biological Oxygen Demand (BOD) စသည့် parameter များ၏ တိုင်းတာရလဒ်များသည် နိုင်းယှဉ်ဖော်ပြထားသည့် စံချိန်စံညွှန်းများထက် ကျော်လွန် နေသောကြောင့် သောက်သုံးရေအဖြစ် အသုံးပြုပါက စနစ်တကျ စီမံဆောင်ရွက်ပြီး အသုံးပြုပါရန်၊ | သောက်သုံးရေအဖြစ် အသုံးပြုပါက စနစ်တကျ သန့်စင်ခြင်း၊ ကိုချက်ခြင်းများ ပြုလုပ်ရန် ရုပ်ရှာလုထုနှင့် တွေ့ဆုံသည့် အခမ်းအနားများတွင် ထည့်သွင်း အသိပေး ပြောကြားလျက် ရှိပါသည်။ |
| (ခ) | စွန့်ပစ်ရေအရည်အသွေး စောင့်ကြည့်တိုင်းတာမှုနှင့် ပတ်သက်၍ Lead (Pb) နှင့် Total Coliform bacteria စသည့် parameter များ၏ တိုင်းတာရလဒ်များသည် နိုင်းယှဉ်ဖော်ပြထားသည့် စံချိန်စံညွှန်းများထက် ကျော်လွန်နေသောကြောင့် အတည်ပြုပြီး EIA အစီရင်ခံစာပါ လျှော့ချမည့် အစီအစဉ်များ နှင့်အညီ ဆောင်ရွက်ပြီး ပတ်ဝန်းကျင်ညစ်ညမ်းမှုများ မဖြစ်ပေါ်စေရေး စနစ်တကျ စီမံဆောင်ရွက်ပါရန်၊ | ပတ်ဝန်းကျင်ညစ်ညမ်းမှုများ မဖြစ်ပေါ်စေရေး စနစ်တကျ စီမံဆောင်ရွက်လျက်ရှိပါသည်။ |

| စဉ် | အကြောင်းကြားစာပါ လိုက်နာဆောင်ရွက်ရမည့် အချက်များ | လိုက်နာဆောင်ရွက်ထားရှိမှုအခြေအနေ |
|---|---|---|
| (ဂ) | လုပ်ငန်းဆောင်ရွက်ခြင်းမှ ထွက်ရှိသော စွန့်ပစ်ရေများအား ပြင်ပသို့ တိုက်ရိုက် စွန့်ပစ်ခြင်းမပြုရန်၊ စွန့်ထုတ်မည်ဆိုပါက အမျိုးသားပတ်ဝန်းကျင်ဆိုင်ရာ အရည်အသွေး (ထုတ်လွှတ်မှု) လမ်းညွှန်ချက်များ (National Environmental Quality Emission Guidelines – NEQEGs) ပါ စွန့်ထုတ်အရည်အဆင့် သတ်မှတ်ချက်များနှင့်အညီ သန့်စင်ပြီးမှ စွန့်ထုတ်ရန်နှင့် စွန့်ပစ်ရေကြောင့် ပတ်ဝန်းကျင်ညစ်ညမ်းမှုများ မဖြစ်ပေါ်စေရေး စနစ်တကျ စီမံဆောင်ရွက်ပါရန်၊ | စွန့်ပစ်ရေများအား ပြင်ပသို့ တိုက်ရိုက် စွန့်ပစ်ခြင်း မပြုလုပ်ပါ။ သန့်စင်ပြီးမှ စွန့်ထုတ်လျက်ရှိပြီး စွန့်ပစ်ရေကြောင့် ပတ်ဝန်းကျင်ညစ်ညမ်းမှုများ မဖြစ်ပေါ်စေရေး စနစ်တကျ စီမံဆောင်ရွက်လျက် ရှိပါသည်။ |
| (ဃ) | လုပ်ငန်းတွင် မီးဘေးအန္တရာယ်ကာကွယ်ရေးအတွက် မီးသတ်ဦးစီးဌာန၏ လမ်းညွှန်ချက်များအတိုင်း အထူးအလေးထား လိုက်နာဆောင်ရွက်ရန်၊ | လိုက်နာဆောင်ရွက်လျက် ရှိပါသည်။ |
| (င) | လေထု၊ ရေထု၊ မြေထု အရည်အသွေးအပါအဝင် ပတ်ဝန်းကျင်အရည်အသွေး စောင့်ကြည့်တိုင်းတာမှု ရလဒ်များအရ သတ်မှတ်စံချိန်စံညွှန်းများထက် ကျော်လွန်မှု ရှိနေပါက အတည်ပြုပြီး EIA အစီရင်ခံစာပါ Mitigation Measure များ၊ ဆောင်ရွက်မည့် လုပ်ငန်းအစီအစဉ်များနှင့် စောင့်ကြပ်ကြည့်ရှုမှုအစီရင်ခံစာတွင် ဖော်ပြပါရှိသော တိုင်းတာစောင့်ကြည့်မည့် လုပ်ငန်းစဉ်များအတိုင်း ဆက်လက် ဆောင်ရွက်သွားပါရန်နှင့် နောက်တစ်ကြိမ်တင်ပြမည့် | လိုက်နာဆောင်ရွက်လျက် ရှိပါသည်။ |

| စဉ် | အကြောင်းကြားစာပါ လိုက်နာဆောင်ရွက်ရမည့် အချက်များ | လိုက်နာဆောင်ရွက်ထားရှိမှုအခြေအနေ |
|---|---|---|
| | စောင့်ကြပ်ကြည့်ရှုမှုအစီအရင်ခံစာများတွင် ဆောင်ရွက်မည့် အစီအစဉ်များကို ထည့်သွင်းဖော်ပြပါရန်၊ | |
| (စ) | စီမံကိန်းမှတွက်ဆိုလာသည့် စွန့်ပစ်ပစ္စည်းများနှင့် ဘေးအန္တရာယ်ရှိ စွန့်ပစ်ပစ္စည်းများကြောင့် ပတ်ဝန်းကျင်ညစ်ညမ်းမှု မရှိစေရေးအတွက် အတည်ပြုပြီး EIA အစီရင်ခံစာပါ ဆောင်ရွက်မည့် အစီအစဉ်များနှင့်အညီ စနစ်တကျ စီမံဆောင်ရွက်သွားပါရန်နှင့် စောင့်ကြပ်ကြည့်ရှုမှု အစီရင်ခံစာတွင် ဆောင်ရွက်ထားရှိမှု အခြေအနေများအား မှတ်တမ်းဓါတ်ပုံများဖြင့် ထည့်သွင်းဖော်ပြပါရန်၊ | စောင့်ကြပ်ကြည့်ရှုမှုအစီရင်ခံစာတွင် ဆောင်ရွက်ထားရှိမှု အခြေအနေများအား မှတ်တမ်းဓါတ်ပုံများဖြင့် ထည့်သွင်းဖော်ပြလျက် ရှိပါသည်။ |
| (ဆ) | လူမှုရေးဆိုင်ရာ တာဝန်သိလုပ်ငန်းများ (Corporate Social Responsibility - CSR) အား အကောင်အထည်ဖော် ဆောင်ရွက်ရန်၊ စီမံကိန်းအနီးဝန်းကျင်ရှိ ဒေသခံပြည်သူများ၊ ဆက်စပ်ပတ်သက်သူများနှင့် စဉ်ဆက်မပြတ် တွေ့ဆုံ ဆွေးနွေးပြီး ၎င်းတို့၏ အကြံပြုချက်နှင့် လိုအပ်ချက်များအား အလေးထား ပေါင်းစပ်ဆောင်ရွက်သွားပါရန်နှင့် ဆောင်ရွက် ထားရှိမှုများအား နောက်တစ်ကြိမ်တင်ပြမည့် စောင့်ကြပ် ကြည့်ရှုမှုအစီရင်ခံစာတွင် မှတ်တမ်းဓါတ်ပုံများ ပြည့်စုံစွာ ထည့်သွင်းဖော်ပြရန်၊ | ဆောင်ရွက် ထားရှိမှုများအား စောင့်ကြပ် ကြည့်ရှုမှုအစီရင်ခံစာများတွင် မှတ်တမ်းဓါတ်ပုံများ ပြည့်စုံစွာဖြင့် ပုံမှန် ထည့်သွင်းဖော်ပြလျက်ရှိပါသည်။ |

| စဉ် | အကြောင်းကြားစာပါ လိုက်နာဆောင်ရွက်ရမည့် အချက်များ | လိုက်နာဆောင်ရွက်ထားရှိမှုအခြေအနေ |
|---|---|---|
| (၈) | စိမ်ကိန်းနှင့်ပတ်သက်သည့် ပိုင်ရှင်ပြောင်းလဲခြင်း၊ အစီရင်ခံစာတွင် ဖော်ပြပါရှိသည့် လုပ်ငန်းထုတ်လုပ်မှု ပမာဏထက် ပိုမိုထုတ်လုပ်ခြင်း၊ လုပ်ငန်းလည်ပတ်မှု ဒီဇိုင်းများ ပြောင်းလဲခြင်း၊ လုပ်ငန်းတည်နေရာ ပြောင်းလဲခြင်း၊ လုပ်ငန်းရုပ်ဆိုင်းခြင်း (သို့) ပိတ်သိမ်းခြင်း ပြုလုပ်မည်ဆိုပါက အဆိုပါလုပ်ငန်းများ ဆောင်ရွက်ခြင်းမပြုမီ ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဦးစီးဌာနသို့ ကြိုတင်၍ တင်ပြပါရန်၊ | လိုက်နာဆောင်ရွက်လျက် ရှိပါသည်။ |
| (၉) | အဆိုပါလုပ်ငန်းများအတွက် အတည်ပြုထားသော EIA အစီရင်ခံစာနှင့် အတည်ပြုအကြောင်းကြားစာပါ ကတိကဝတ်များနှင့် ECC ပါ လိုက်နာဆောင်ရွက်ရန် စည်းကမ်းချက်များအား သတ်မှတ်ကာလအတွင်း အချိန်မီပြီးစီးအောင် အကောင်အထည်ဖော် ဆောင်ရွက်ပါရန်၊ | လိုက်နာဆောင်ရွက်လျက် ရှိပါသည်။ |
| (၁၀) | အဆိုပါလုပ်ငန်းအတွက် သက်ဆိုင်ရာဌာနမှ ထုတ်ပေးထားသည့် ခွင့်ပြုမိန့်တွင် လိုက်နာရမည့် စည်းကမ်းများအတိုင်း အကောင်အထည်ဖော် ဆောင်ရွက်ပါရန်၊ | လိုက်နာဆောင်ရွက်လျက် ရှိပါသည်။ |
| (၁၁) | ပတ်ဝန်းကျင်ထိခိုက်မှုဆန်းစစ်ခြင်းဆိုင်ရာ လုပ်ထုံးလုပ်နည်း အပိုဒ် (၁၀၆) အရ စိမ်ကိန်း အဆင့်အားလုံးတွင် ဆိုးကျိုးသက်ရောက်မှု အားလုံးအတွက် စိမ်ကိန်းနှင့် ဆက်စပ်ဆောင်ရွက်မှုများအား မိမိကိုယ်မိမိ | လိုက်နာဆောင်ရွက်လျက် ရှိပါသည်။ |

| စဉ် | အကြောင်းကြားစာပါ လိုက်နာဆောင်ရွက်ရမည့် အချက်များ | လိုက်နာဆောင်ရွက်ထားရှိမှုအခြေအနေ |
|---|---|---|
| | ဘက်စုံ စောင့်ကြပ်ကြည့်ရှု စစ်ဆေးခြင်းကို စဉ်ဆက်မပြတ် လက်တွေ့ဆောင်ရွက်ရမည့်အပြင် သက်ဆိုင်ရာ ဥပဒေများ၊ နည်းဥပဒေများ၊ ပတ်ဝန်းကျင်ထိခိုက်မှုဆန်းစစ်ခြင်းဆိုင်ရာ လုပ်ထုံးလုပ်နည်းနှင့် စံချိန်စံညွှန်းများ၊ ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဆိုင်ရာ လိုက်နာဆောင်ရွက်မှု သက်သေခံ လက်မှတ်ပါ စည်းကမ်းချက်များနှင့် ပတ်ဝန်းကျင် စီမံခန့်ခွဲမှုအစီအစဉ်ပါ အချက်များကို အလေးထား လိုက်နာဆောင်ရွက်ပါရန်၊ | |
| (၄) | ပတ်ဝန်းကျင် ထိခိုက်မှုဆန်းစစ်ခြင်းဆိုင်ရာ လုပ်ထုံးလုပ်နည်း အပိုဒ် (၁၀၇) အရ လုပ်ငန်းစီမံကိန်း၏ ပျက်ကွက်မှုတစ်ခုခု ကြောင့် အန္တရာယ်ဖြစ်စေနိုင်သော ပတ်ဝန်းကျင်အပေါ် သက်ရောက်မှု ဖြစ်လာနိုင်သည့်ကိစ္စ (သို့မဟုတ်) သယံဇာတနှင့် သဘာဝ ပတ်ဝန်းကျင်ထိန်းသိမ်းရေး ဝန်ကြီးဌာနက အမြန်သိရှိရန် လိုအပ်သည့်ကိစ္စကို (၂၄) နာရီအတွင်းလည်းကောင်း၊ အခြားကိစ္စ များအားလုံးတွင် ယင်းဖြစ်စဉ်ဖြစ်ရပ်ကို စတင်သိရှိသည့်အချိန်မှ (၇) ရက်အတွင်း လည်းကောင်း စီမံကိန်းလုပ်ငန်းပိုင်ရှင်မှ ဝန်ကြီးဌာနသို့ အသိပေးတင်ပြသွားပါရန်၊ | သိရှိ လိုက်နာဆောင်ရွက်လျက် ရှိပါသည်။ |

| စဉ် | အကြောင်းကြားစာပါ လိုက်နာဆောင်ရွက်ရမည့် အချက်များ | လိုက်နာဆောင်ရွက်ထားရှိမှုအခြေအနေ |
|---|---|---|
| (ဃ) | ပတ်ဝန်းကျင်ထိခိုက်မှုဆန်းစစ်ခြင်းဆိုင်ရာ လုပ်ထုံးလုပ်နည်း အပိုဒ် (၁၁၀) အရ စောင့်ကြပ်ကြည့်ရှုမှုအစီရင်ခံစာအား ဝန်ကြီးဌာနသို့ တင်ပြသည့်နေ့ရက်မှ (၁၀) ရက်အတွင်း အများပြည်သူသိရှိနိုင်ရန် စီမံကိန်း၏ Website (သို့) သင့်တော်သော နည်းလမ်း တစ်ရပ်ရပ် အသုံးပြု၍ အသိပေးထုတ်ဖော် ကြေငြာပါရန်။ | ပုံမှန် အသိပေး ထုတ်ပြန် ကြေငြာလျက်ရှိပါသည်။ |
| (ဇ) | ECC ရရှိပြီးသော လုပ်ငန်းစီမံကိန်းများအနေဖြင့် ECC အား သက်တမ်းတိုးဆောင်ရွက်ရာတွင် လွယ်ကူချောမွေ့စွာ ဆောင်ရွက်နိုင်ရေး အတွက် စောင့်ကြပ်ကြည့်ရှုမှု ဆန်းစစ်ခြင်းဆိုင်ရာ လုပ်ထုံးလုပ်နည်း (၁၀၈) နှင့်အညီ (ဆ) လလျှင် (၁) ကြိမ် ရေးဆွဲပြုစု၍ သတ်မှတ်ကာလအတွင်း သတ်မှတ်အရေအတွက် ပြည့်မီအောင် ပုံမှန်အစီရင်ခံစာ တင်ပြပါရန်။ | လုပ်ထုံးလုပ်နည်းနှင့်အညီ သတ်မှတ်အရေအတွက် ပြည့်မီအောင် ပုံမှန် အစီရင်ခံ တင်ပြလျက်ရှိပါသည်။ |

| | |
|---|---|
| ရက်စွဲ | ၁၄-၁-၂၀၂၆ |
| စာအမှတ် | ၅/ အရည်အသွေး-၂/ စဆရ (၁၆၄/၂၀၂၆) |
| ဌာန | ညွှန်ကြားရေးမှူးရုံး၊ ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဦးစီးဌာန၊ မကွေးတိုင်းဒေသကြီး မကွေးမြို့ |
| အကြောင်းအရာ | **ပတ်ဝန်းကျင်ထိခိုက်မှုဆန်းစစ်ခြင်း (Environmental Impact Assessment - EIA) အတည်ပြုပြီး MPRL E&P Pte. Ltd ၏ ရေနုံပြန်လည်မွှမ်းမြှုံးတိုးတက်ရေးအစီအစဉ် အတွက် နဝမအကြိမ်မြောက် စောင့်ကြပ်ကြည့်ရှုမှု အစီရင်ခံစာ (၂၀၂၄ ခုနှစ်၊ ဇွန်လ မှ ၂၀၂၄ ခုနှစ်၊ ဒက်တင်ဘာလအထိ) နှင့်ပတ်သက်၍ အကြောင်းကြားခြင်း** |
| ရည်ညွှန်းချက် | (၁) သယံဇာတနှင့် သဘာဝပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဝန်ကြီးဌာန၊ ပြည်ထောင်စုဝန်ကြီးရုံး၏ ၃-၂-၂၀၁၉ ရက်စွဲပါ စာအမှတ် (သစ်တော) ၃(၂)/၁၆(ဃ) (၅၃၆/၂၀၁၉)<br>(၂) မကွေးတိုင်းဒေသကြီး ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဦးစီးဌာန၊ ညွှန်ကြားရေးမှူးရုံး၏ ၂၇-၁၂-၂၀၂၄ ရက်စွဲပါ စာအမှတ် ၅/အရည်အသွေး-၂/စဆရ (၃၁၂၀/၂၀၂၄)<br>(၃) ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဦးစီးဌာန၊ ညွှန်ကြားရေးမှူးချုပ်ရုံး၏ ၃၁-၁၂-၂၀၂၅ ရက်စွဲပါ စာအမှတ်၊ အရည်အသွေး-၂/ဆစရ (၆၁၂/၂၀၂၅) |

| စဉ် | အကြောင်းကြားစာပါ လိုက်နာဆောင်ရွက်ရမည့် အချက်များ | လိုက်နာဆောင်ရွက်ထားရှိမှုအခြေအနေ |
|---|---|---|
| (က) | လေထု၊ ရေထု၊ မြေထု အရည်အသွေးအပါအဝင် ပတ်ဝန်းကျင် အရည်အသွေး စောင့်ကြည့်တိုင်းတာမှုများအား အတည်ပြုပြီး EIA | လိုက်နာဆောင်ရွက်လျက် ရှိပါသည်။ |

| စဉ် | အကြောင်းကြားစာပါ လိုက်နာဆောင်ရွက်ရမည့် အချက်များ | လိုက်နာဆောင်ရွက်ထားရှိမှုအခြေအနေ |
|---|---|---|
| | အစီရင်ခံစာပါ သတ်မှတ် Points၊ Parameters၊ အကြိမ်အရေအတွက်များအတိုင်း တိုင်းတာဆောင်ရွက်ပါရန်၊ | |
| (ခ) | မြေပေါ်အရည်အသွေးအား တိုင်းတာစစ်ဆေးပြီး နိုင်းယှဉ်ဖော်ပြရာတွင် အမျိုးသား မြေပေါ်ရေ အရည်အသွေး စံချိန်စံညွှန်း (National Surface Water Quality Standards - NSWQS) ဖြင့် နိုင်းယှဉ်ဖော်ပြသွားရန်၊ | လိုက်နာဆောင်ရွက်လျက် ရှိပါသည်။ |
| (ဂ) | လေထု၊ ရေထု၊ မြေထု အရည်အသွေးအပါအဝင် ပတ်ဝန်းကျင်အရည်အသွေး စောင့်ကြည့်တိုင်းတာမှု ရလဒ်များအရ သတ်မှတ်စံချိန်စံညွှန်းများထက် ကျော်လွန်မှု ရှိနေပါက အတည်ပြုပြီး EIA အစီရင်ခံစာပါ Mitigation Measure များ၊ ဆောင်ရွက်မည့် လုပ်ငန်းအစီအစဉ်များနှင့် စောင့်ကြပ်ကြည့်ရှုမှုအစီရင်ခံစာတွင် ဖော်ပြပါရှိသော တိုင်းတာစောင့်ကြည့်မည့် လုပ်ငန်းစဉ်များအတိုင်း ဆက်လက် ဆောင်ရွက်သွားပါရန်၊ | လိုက်နာဆောင်ရွက်လျက် ရှိပါသည်။ |
| (ဃ) | စွန့်ပစ်ပစ္စည်းစီမံခန့်ခွဲမှု နှင့် စပ်လျဉ်း၍ အတည်ပြုပြီး EIA အစီရင်ခံစာပါ အစီအစဉ်များအတိုင်း လိုက်နာဆောင်ရွက်ခြင်းဖြင့် စီမံကိန်းမှ ထွက်ရှိလာသည့် စွန့်ပစ်ပစ္စည်းများနှင့် ဘေးအန္တရာယ်ရှိ စွန့်ပစ်ပစ္စည်းများအား ပတ်ဝန်းကျင်ညစ်ညမ်းမှု မရှိစေရေး စနစ်တကျ စီမံဆောင်ရွက်သွားပါရန်၊ | လိုက်နာဆောင်ရွက်လျက် ရှိပါသည်။ |

| စဉ် | အကြောင်းကြားစာပါ လိုက်နာဆောင်ရွက်ရမည့် အချက်များ | လိုက်နာဆောင်ရွက်ထားရှိမှုအခြေအနေ |
|---|---|---|
| (င) | စိမ်ကိန်း အနီးဝန်းကျင်ရှိ ဒေသခံပြည်သူများ၊ ဆက်စပ်ပတ်သက်သူများနှင့် စဉ်ဆက်မပြတ် တွေ့ဆုံဆွေးနွေးပြီး ၎င်းတို့၏ အကြံပြုချက်နှင့် လိုအပ်ချက်များအား ဆက်လက်၍ အလေးထား ပေါင်းစပ် ဆောင်ရွက်သွားပါရန်။ | လိုက်နာဆောင်ရွက်လျက် ရှိပါသည်။ |
| (စ) | ဂေဟစနစ် ထိန်းသိမ်းမှုအနေဖြင့် ဇီဝမျိုးစုံမျိုးကွဲများအား ထိန်းသိမ်းစောင့်ရှောက်မှု၊ သဘာဝပေါက်ပင်များအား ထိန်းသိမ်းစောင့်ရှောက်မှု၊ အစားထိုးသစ်ပင်များအား စိုက်ပျိုးထားရှိမှု အခြေအနေများအား မှတ်တမ်းစါတ်ပုံများ၊ Google Map နှင့် Layout Plan တို့ဖြင့် ပြည့်စုံစွာ ထည့်သွင်းဖော်ပြပါရန်။ | လိုက်နာဆောင်ရွက်လျက် ရှိပါသည်။ |
| (ဆ) | အဆိုပါလုပ်ငန်းအတွက် တင်ပြလာသော စောင့်ကြပ်ကြည့်ရှုမှု အစီရင်ခံစာအပေါ် စိစစ်ပြန်ကြားသည့်အချက်များအပြင် ယခင် စိစစ်အကြောင်းပြန်ကြားခဲ့သည့် အချက်များအပေါ် လိုက်နာဆောင်ရွက်သွားပါရန်။ | လိုက်နာဆောင်ရွက်လျက် ရှိပါသည်။ |
| (ဇ) | စိမ်ကိန်းနှင့်ပတ်သက်သည့် အစီရင်ခံစာတွင် ဖော်ပြပါရှိသည့် ထုတ်လုပ်မှုပမာဏထက် ပိုမိုထုတ်လုပ်ခြင်း၊ လုပ်ငန်းလည်ပတ်မှု ဒိဇိုင်းများ ပြောင်းလဲခြင်း၊ လုပ်ငန်းတည်နေရာ ပြောင်းလဲခြင်း၊ လုပ်ငန်းရုပ်ဆိုင်းခြင်း (သို့) ပိတ်သိမ်းခြင်း ပြုလုပ်မည်ဆိုပါက | လိုက်နာဆောင်ရွက်လျက် ရှိပါသည်။ |

| စဉ် | အကြောင်းကြားစာပါ လိုက်နာဆောင်ရွက်ရမည့် အချက်များ | လိုက်နာဆောင်ရွက်ထားရှိမှုအခြေအနေ |
|---|---|---|
| | အဆိုပါလုပ်ငန်းများ ဆောင်ရွက်ခြင်းမပြုမီ ပတ်ဝန်းကျင်ထိန်းသိမ်းရေး ဦးစီးဌာနသို့ ကြိုတင်၍ တင်ပြပါရန်၊ | |
| (ဈ) | ကုမ္ပဏီမှ လုပ်ငန်းစီမံကိန်း ဆောင်ရွက်နေစဉ်ကာလအတွင်း ထပ်မံပြောင်းလဲမှုရှိပါက ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဆိုင်ရာ လိုက်နာဆောင်ရွက်မှု သက်သေခံလက်မှတ်၏ အပိုဒ် (C3) အရ ပြန်လည်ပြင်ဆင်ထားသည့် EMP အား စိစစ်နိုင်ရန်နှင့် အတည်ပြုနိုင်ရန် အတွက် ပတ်ဝန်းကျင်ထိန်းသိမ်းရေး ဦးစီးဌာနသို့ တင်ပြသွားပါရန်၊ | လိုက်နာဆောင်ရွက်လျက် ရှိပါသည်။ |
| (ည) | အဆိုပါလုပ်ငန်းအတွက် အတည်ပြုထားသော EIA အစီရင်ခံစာနှင့် အတည်ပြုအကြောင်းကြားစာပါ ကတိကဝတ်များနှင့် ECC ပါ လိုက်နာဆောင်ရွက်ရန် စည်းကမ်းချက်များအား ဆက်လက်၍ အလေးထားလိုက်နာ ဆောင်ရွက်သွားပါရန်၊ | လိုက်နာဆောင်ရွက်လျက် ရှိပါသည်။ |
| (ဋ္ဌ) | ပတ်ဝန်းကျင်ထိခိုက်မှုဆန်းစစ်ခြင်းဆိုင်ရာ လုပ်ထုံးလုပ်နည်း အပိုဒ် (၁၀၆) အရ စီမံကိန်း အဆင့်အားလုံးတွင် ဆိုးကျိုးသက်ရောက်မှုအားလုံးအတွက် စီမံကိန်းနှင့် ဆက်စပ်ဆောင်ရွက်မှုများအား မိမိကိုယ်မိမိ ဘက်စုံ စောင့်ကြပ်ကြည့်ရှု စစ်ဆေးခြင်းကို စဉ်ဆက်မပြတ် လက်တွေ့ဆောင်ရွက်ရမည့်အပြင် သက်ဆိုင်ရာ ဥပဒေများ၊ နည်းဥပဒေများ၊ | လိုက်နာဆောင်ရွက်လျက် ရှိပါသည်။ |

| စဉ် | အကြောင်းကြားစာပါ လိုက်နာဆောင်ရွက်ရမည့် အချက်များ | လိုက်နာဆောင်ရွက်ထားရှိမှုအခြေအနေ |
|---|---|---|
| | ပတ်ဝန်းကျင်ထိခိုက်မှုဆန်းစစ်ခြင်းဆိုင်ရာ လုပ်ထုံးလုပ်နည်းနှင့် စံချိန်စံညွှန်းများ။ ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဆိုင်ရာ လိုက်နာဆောင်ရွက်မှု သက်သေခံ လက်မှတ်ပါ စည်းကမ်းချက်များနှင့် ပတ်ဝန်းကျင် စီမံခန့်ခွဲမှုအစီအစဉ်ပါ အချက်များကို အလေးထား လိုက်နာဆောင်ရွက်ပါရန်၊ | |
| (၄) | ပတ်ဝန်းကျင် ထိခိုက်မှုဆန်းစစ်ခြင်းဆိုင်ရာ လုပ်ထုံးလုပ်နည်း အပိုဒ် (၁၀၇) အရ လုပ်ငန်းစီမံကိန်း၏ ပျက်ကွက်မှုတစ်ခုခု ကြောင့် အန္တရာယ်ဖြစ်စေနိုင်သော ပတ်ဝန်းကျင်အပေါ် သက်ရောက်မှုဖြစ်လာနိုင်သည့်ကိစ္စ (သို့မဟုတ်) သယံဇာတနှင့် သဘာဝပတ်ဝန်းကျင်ထိန်းသိမ်းရေး ဝန်ကြီးဌာနက အမြန်သိရှိရန် လိုအပ်သည့်ကိစ္စကို (၂၄) နာရီအတွင်းလည်းကောင်း၊ အခြားကိစ္စများအားလုံးတွင် ယင်းဖြစ်စဉ်ဖြစ်ရုပ်ကို စတင်သိရှိသည့်အချိန်မှ (၇) ရက်အတွင်း လည်းကောင်း စီမံကိန်းလုပ်ငန်းပိုင်ရှင်မှ ဝန်ကြီးဌာနသို့ အသိပေးတင်ပြသွားပါရန်၊ | သိရှိ လိုက်နာဆောင်ရွက်လျက် ရှိပါသည်။ |
| (၅) | ECC ရရှိပြီးသော လုပ်ငန်းစီမံကိန်းများအနေဖြင့် ECC အား သက်တမ်းတိုးဆောင်ရွက်ရာတွင် လွယ်ကူချောမွေ့စွာ ဆောင်ရွက်နိုင်ရေးအတွက် စောင့်ကြပ်ကြည့်ရှုမှု ဆန်းစစ်ခြင်းဆိုင်ရာ | လုပ်ထုံးလုပ်နည်းနှင့်အညီ သတ်မှတ်အရေအတွက် ပြည့်မီအောင် ပုံမှန် အစီရင်ခံ တင်ပြလျက်ရှိပါသည်။ |

| စဉ် | အကြောင်းကြားစာပါ လိုက်နာဆောင်ရွက်ရမည့် အချက်များ | လိုက်နာဆောင်ရွက်ထားရှိမှုအခြေအနေ |
|---|---|---|
| | လုပ်ထုံးလုပ်နည်း (၁၀၈) နှင့်အညီ (၆) လလျှင် (၁) ကြိမ် ရေးဆွဲပြုစု၍ သတ်မှတ်ကာလအတွင်း သတ်မှတ်အရေအတွက် ပြည့်မီအောင် ပံ့မှုနှစ်ရင်ခံစာ တင်ပြပါရန်။ | |



*Figure 17: Field Inspection Regarding 12th EMoR by the Regional ECD (Magway)*

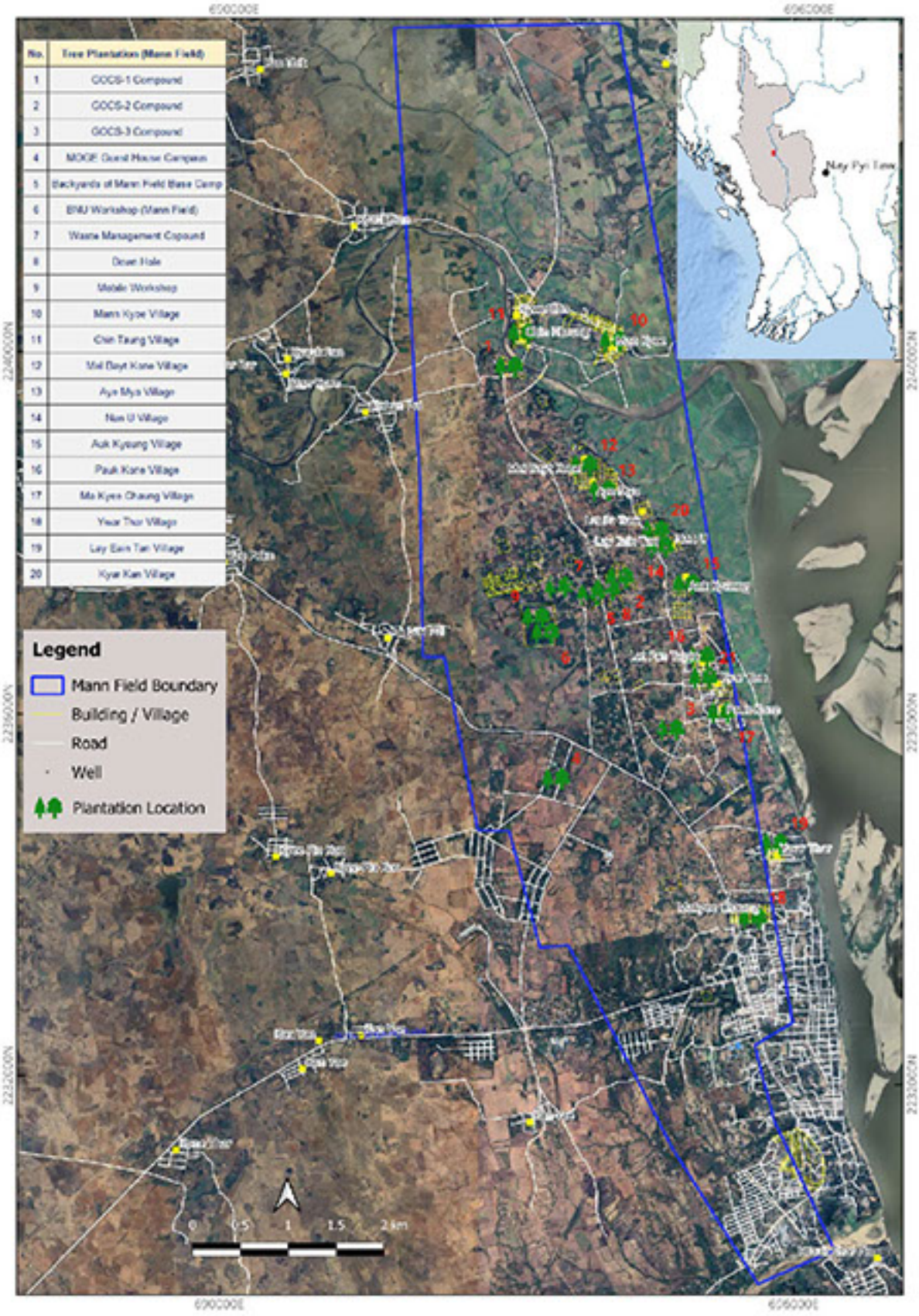



*Figure 18: Tree Plantation Sites Map of Mann Field*




*Figure 19: Plantation Layout at GOCS-1 Campus*



*Figure 20: Tree Planting Campaign 2026*




*Figure 21: Awareness Sharing About Possible Super El Nino 2026-2027*

## 8. Monitoring Survey & Activities

Throughout the monitoring period spanning from April 2026 to September 2026, each article provides an extensive account of the monitoring surveys and activities carried out. The following is a summary of the monitoring activities conducted:

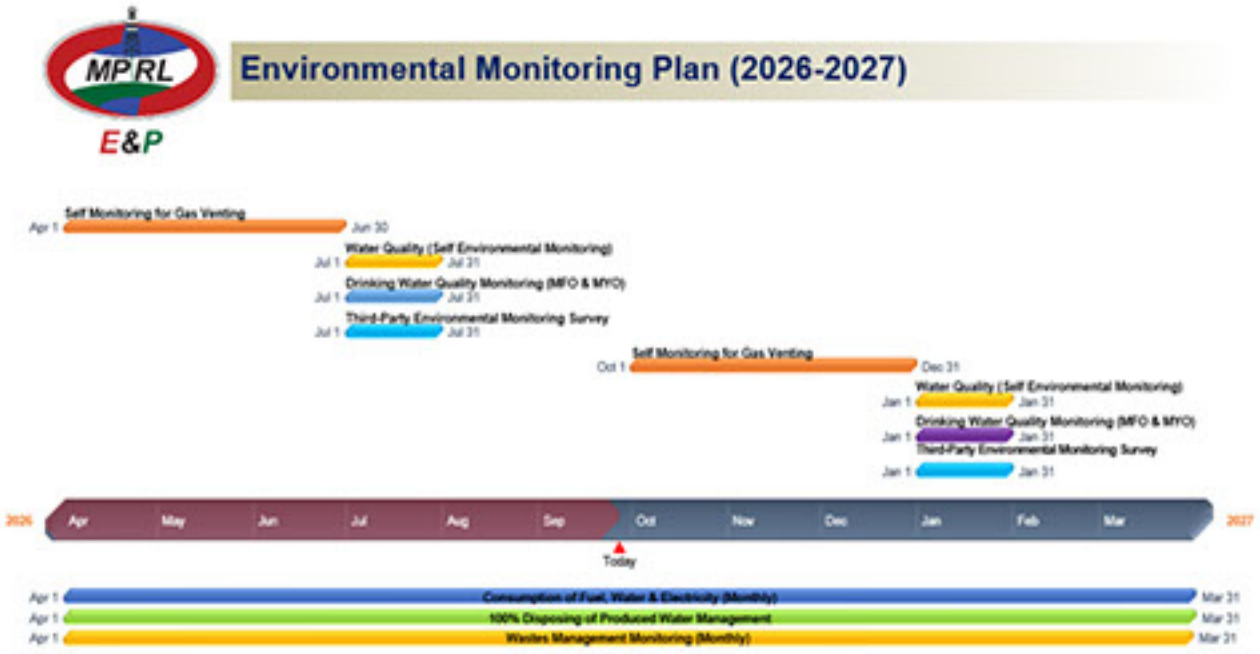



*Figure 22: Timeline of Environmental Monitoring Plan (2026-2027)*

With the regional ECD (Magway) team, we conducted air and noise quality monitoring at Z3AQN and Z4AQN.

Monitoring activities are conducted as much as possible during these situations, and MPRL E&P remains highly committed to monitoring as an obligation and commitment from the ECC and EIA if the situations permit.

### 8.1 Ambient Air Quality Monitoring

Ambient air pollutants were sampled and analyzed in accordance with NEQEG guidelines, using the Haz-Scanner EPAS Wireless Environmental Perimeter Air Station. This portable meter records real-time data, including ambient air quality measurements and climatological data. Table 10 and Table 11 provide the locations and parameters for air and noise quality monitoring.

*Table 10: Ambient Air Quality Monitoring Stations*

| Monitoring Stations | GPS Coordinate | Sampling Date (Baseline) | Sampling Date (Monitoring) |
|---|---|---|---|
| Z1AQN | 20° 19' 39.0" N<br>94° 49' 18.4" E | 8 - 9 May 2015 | - |
| Z2AQN | 20° 15' 40.6" N<br>94° 50' 08.0" E | 7 - 8 May 2015 | - |
| Z3AQN | 20° 13' 21.5" N<br>94° 51' 19.6" E | 6 - 7 May 2015 | 21 - 22 July 2026 |
| Z4AQN | 20° 11' 41.9" N<br>94° 52' 32.4" E | 6 - 7 May 2015 | 22 - 23 July 2026 |

*Table 11: Air Quality Monitoring Parameters*

| Parameters | Unit | Method and Duration |
|---|---|---|
| **Air Quality** | | In situ reading for 24 hours |
| Sulphur Dioxide ($SO_2$) | $\mu g/m^3$ | |
| Carbon Monoxide (CO) | $mg/m^3$ | |
| Nitric Oxide (NO) | $\mu g/m^3$ | |
| Nitrogen dioxides ($NO_2$) | $\mu g/m^3$ | |
| Particulate Matter <2.5 µm ($PM_{2.5}$) | $\mu g/m^3$ | |
| Particulate Matter <10 µm ($PM_{10}$) | $\mu g/m^3$ | |
| Meteorological Data | | |
| Relative Humidity (R.H) | % | |
| Temperature | °C | |
| Wind Speed | kph | |

| Parameters | Unit | Method and Duration |
|---|---|---|
| Wind Direction | - | |

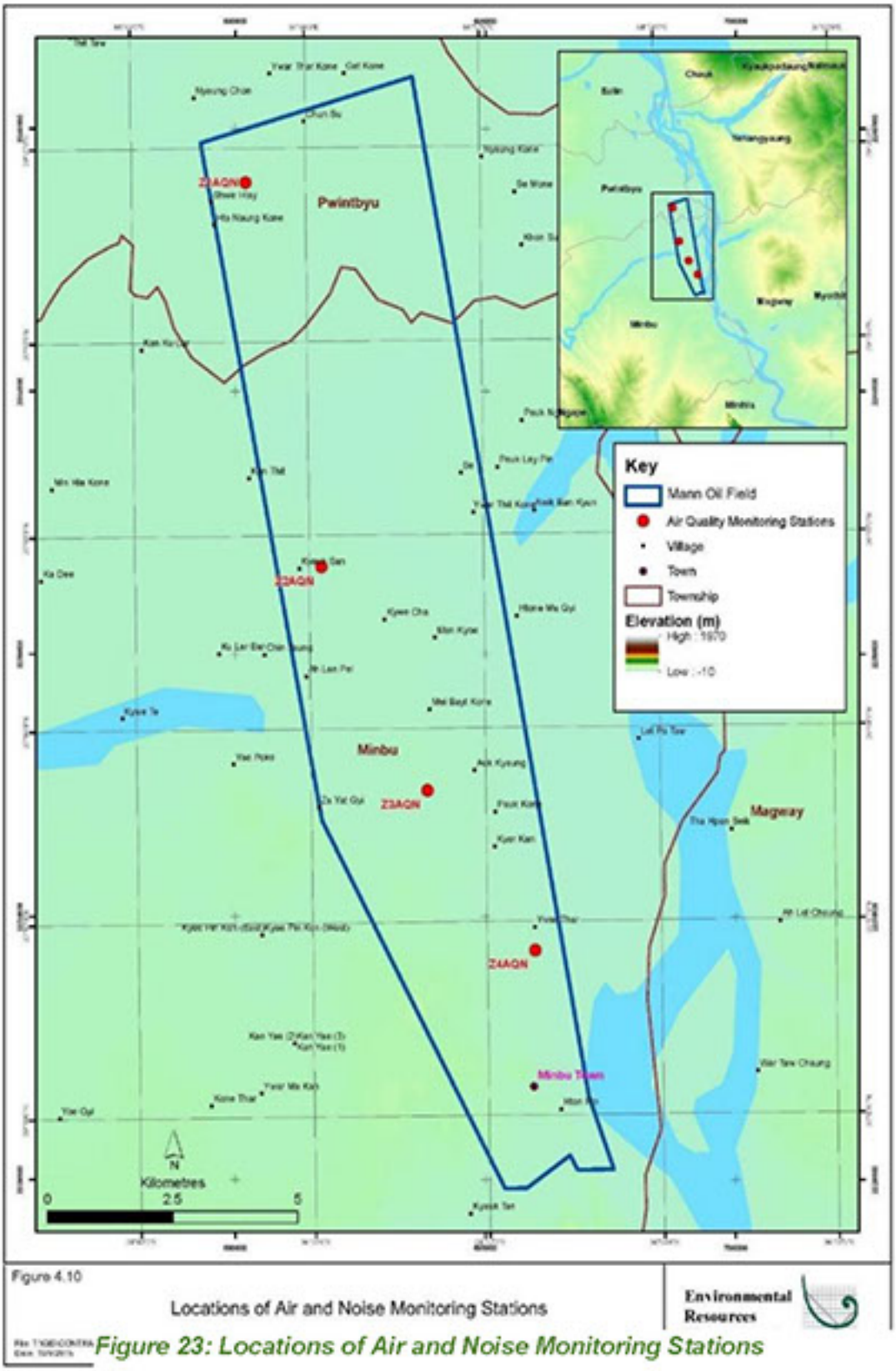



*Figure 23: Locations of Air and Noise Monitoring Stations*



*Figure 24: Air & Noise Quality Monitoring at Z3AQN*



*Figure 25: Air & Noise Quality Monitoring at Z4AQN*

*Table 12: Summary of Air Quality Monitoring Results*

| Parameters | Monitoring Stations (Baseline May 2015) | | | | Monitoring Stations (July 2026) | | | |
|---|---|---|---|---|---|---|---|---|
| | Z1AQN | Z2AQN | Z3AQN | Z4AQN | Z1AQN | Z2AQN | Z3AQN | Z4AQN |
| CO (24 - hr) | 160.38 µg/m³ | 126.02 µg/m³ | 57.28 µg/m³ | 148.93 µg/m³ | - | - | 0.0 mg/m³ | 0.0 mg/m³ |
| $NO_2$ (1 - hr) | 188.18 µg/m³ | 188.18 µg/m³ | 56.45 µg/m³ | 169.36 µg/m³ | - | - | 4.172 µg/m³ | 180.267 µg/m³ |
| NO | 360.49 µg/m³ | 85.92 µg/m³ | <12.27 µg/m³ | 171.84 µg/m³ | - | - | 1.227 µg/m³ | 95.685 µg/m³ |
| $PM_{2.5}$ (24 - hr) | 40 µg/m³ | 30 µg/m³ | 20 µg/m³ | 30 µg/m³ | - | - | - | - |
| $PM_{10}$ (24 - hr) | 50 µg/m³ | 40 µg/m³ | 40 µg/m³ | 40 µg/m³ | - | - | 8.25605 µg/m³ | 54.886 µg/m³ |
| $SO_2$ (10 min) | 52.36 µg/m³ | 78.54 µg/m³ | <26.18 µg/m³ | 26.18 µg/m³ | - | - | 0.0 µg/m³ | 0.0 µg/m³ |
| Hydrogen Sulfide ($H_2S$) | - | - | - | - | - | - | 0.0 mg/Nm³ | 0 mg/Nm³ |
| Ozone ($O_3$) | - | - | - | - | - | - | - | - |
| Temp (°C) | 30.7 | 29 | 31.5 | 27.1 | - | - | - | - |
| Relative Humidity (%) | 61 | 61 | 56 | 55 | - | - | 50.0 | 62.23 |
| Wind Speed (m/s) | 0 | 0.015 | 0.081 | 0.85 | - | - | - | - |
| Wind Direction | - | Southwest | Southeast | Southeast | - | - | - | - |

| Assessment Criteria: National Environmental Emission Guideline Value | | | | | |
|---|---|---|---|---|---|
| | $O_3$ | $NO_2$ | $PM_{2.5}$ | $PM_{10}$ | $SO_2$ |
| 24 - hr | - | - | 25 µg/m³ | 50 µg/m³ | 20 µg/m³ |
| 8 - hr | 100 µg/m³ | - | - | | - |
| 1 - hr | - | 200 µg/m³ | - | | - |
| 10 - min | - | - | - | | 500 µg/m³ |

Due to security concerns, administrative and operational constraints, Mann Field operations are currently limited to daytime shifts with a limited crew. To optimize the monitoring station's accessibility and ensure reliable power supply and security, we selected Z3AQN and Z4AQN as the location for 24-hour Air and Noise Quality monitoring in collaboration with ECD (Magway) staff.

As summarized in Table 12, ambient air quality monitoring results recorded at stations Z3AQN and Z4AQN in July 2026 demonstrate compliance with the National Environmental Quality (Emission) Guidelines (NEQEG) across all tested parameters, with the sole exception of PM10 at station Z4AQN.

Station Z4AQN is situated in close proximity to expanding local residential settlements. The marginal exceedance of the threshold is primarily attributable to cumulative non-operational, localized community activities—notably domestic firewood and biomass combustion, localized open burning of waste, vehicular exhaust from local traffic and motorcycles, and wind-blown fugitive dust from unpaved roads.

The monitoring results are attached and shown in Appendix A.

## 8.2 Noise Quality Monitoring

Table 13 presents the noise monitoring locations and land use. According to the Noise Quality Monitoring conducted by the regional ECD (Magway) at Z3AQN and Z4AQN, the LAeq value (dBA)a for both daytime and nighttime periods was found to be below the NEQEG limit. The comparison between the July 2026 Noise Quality Monitoring results and the 2015 baseline results is shown in Table 14 and Table 15.

*Table 13: Noise Monitoring Stations*

| Monitoring Stations | GPS Coordinate | Description | Land-use |
|---|---|---|---|
| Z1AQN | 20° 19' 39.0" N<br>94° 49' 18.4" E | Located at south western part of Pauk Su village, Pwint Phyu Township | Residential |
| Z2AQN | 20° 15' 40.6" N<br>94° 50' 08.0" E | Located at south eastern part of Kyauk San village, near monestary compound | Residential |
| Z3AQN | 20° 13' 21.5" N<br>94° 51' 19.6" E | In the MPRL E&P office compound, south of staff housing, Minnbu Township | Commercial |
| Z4AQN | 20° 11' 41.9" N<br>94° 52' 32.4" E | Located at eastern part of Minnbu Township, close to the west bank of Ayeyarwady River | Bare ground |

*Table 14: Noise Quality Monitoring Results at Z3AQN*

| Receptor | One-hour LAeq (dBA)[a] | | | |
|---|---|---|---|---|
| | May 2015 | | July 2026 | |
| | Daytime 07:00 - 22:00 (10:00 - 22:00 for public holidays) | Nighttime 22:00 - 07:00 (22:00 - 10:00 for public holidays) | Daytime 07:00 - 22:00 (10:00 - 22:00 for public holidays) | Nighttime 22:00 - 07:00 (22:00 - 10:00 for public holidays) |
| Residential, Institutional, educational | 55 | 45 | 55 | 45 |
| Industrial, commercial | 70 | 70 | 70 | 70 |
| **Average Test Result** | **55** | **50** | **53.25** | **53.05** |

*Table 15: Noise Quality Monitoring Results at Z4AQN*

| Receptor | One-hour LAeq (dBA)[a] | | | |
|---|---|---|---|---|
| | May 2015 | | July 2026 | |
| | Daytime 07:00 - 22:00 (10:00 - 22:00 for public holidays) | Nighttime 22:00 - 07:00 (22:00 - 10:00 for public holidays) | Daytime 07:00 - 22:00 (10:00 - 22:00 for public holidays) | Nighttime 22:00 - 07:00 (22:00 - 10:00 for public holidays) |
| Residential, Institutional, educational | 55 | 45 | 55 | 45 |
| Industrial, commercial | 70 | 70 | 70 | 70 |
| **Average Test Result** | **49** | **56** | **53.35** | **47.5** |

## 8.3 Soil Quality Monitoring

The baseline soil sampling locations are listed in Table 16. Soil quality analytical reports issued by the ALARM Laboratory confirm that all evaluated parameters remain fully compliant with the Dutch Standard (2000) guidelines. Owing to technical and testing capacity limitations at the facility during this cycle, analytical evaluation was restricted to four key parameters. Complete laboratory findings and corresponding baseline comparisons are detailed in Table 17.

*Table 16: Baseline soil sampling locations*

| Sampling Station | Replicate | Coordinates | Description | Baseline Sampling Date | Sampling Date |
|---|---|---|---|---|---|
| Z1S | 1 | 20° 19' 45.30" N 94° 49' 13.99" E | at west of Pauk Su village, Pwint Phyu Township | 6 - 9 May 2015 | |
| | 2 | 20° 19' 45.38" N 94° 49' 21.05" E | at Pauk Su village, Pwint Phyu Township | 6 - 9 May 2015 | |
| Z2S | 1 | 20° 15' 41.70" N 94° 50' 8.41" E | in the paddy field located at the east of Kyauk San village, Minbu Township | 6 - 9 May 2015 | |
| | 2 | 20° 15' 40.05" N 94° 50' 10.40" E | at east of Kyauk San village, Minbu Township | 6 - 9 May 2015 | |
| Z3S | 1 | 20° 13' 22.04" N 94° 51' 19.59" E | in the compound of MPRL E&P office, Minbu Township | 6 - 9 May 2015 | 22-Jul-26 |
| | 2 | 20° 13' 2.60" N 94° 51' 14.86" E | in the compound of MPRL E&P office, Minbu Township | 6 - 9 May 2015 | 22-Jul-26 |
| Z4S | 1 | 20° 11' 41.31" N 94° 52' 39.20" E | near western bank of Ayeyarwady River, north of Minbu Town | 6 - 9 May 2015 | 22-Jul-26 |
| | 2 | 20° 11' 45.77" N 94° 52' 38.30" E | near western bank of Ayeyarwady River, north of Minbu Town | 6 - 9 May 2015 | 22-Jul-26 |

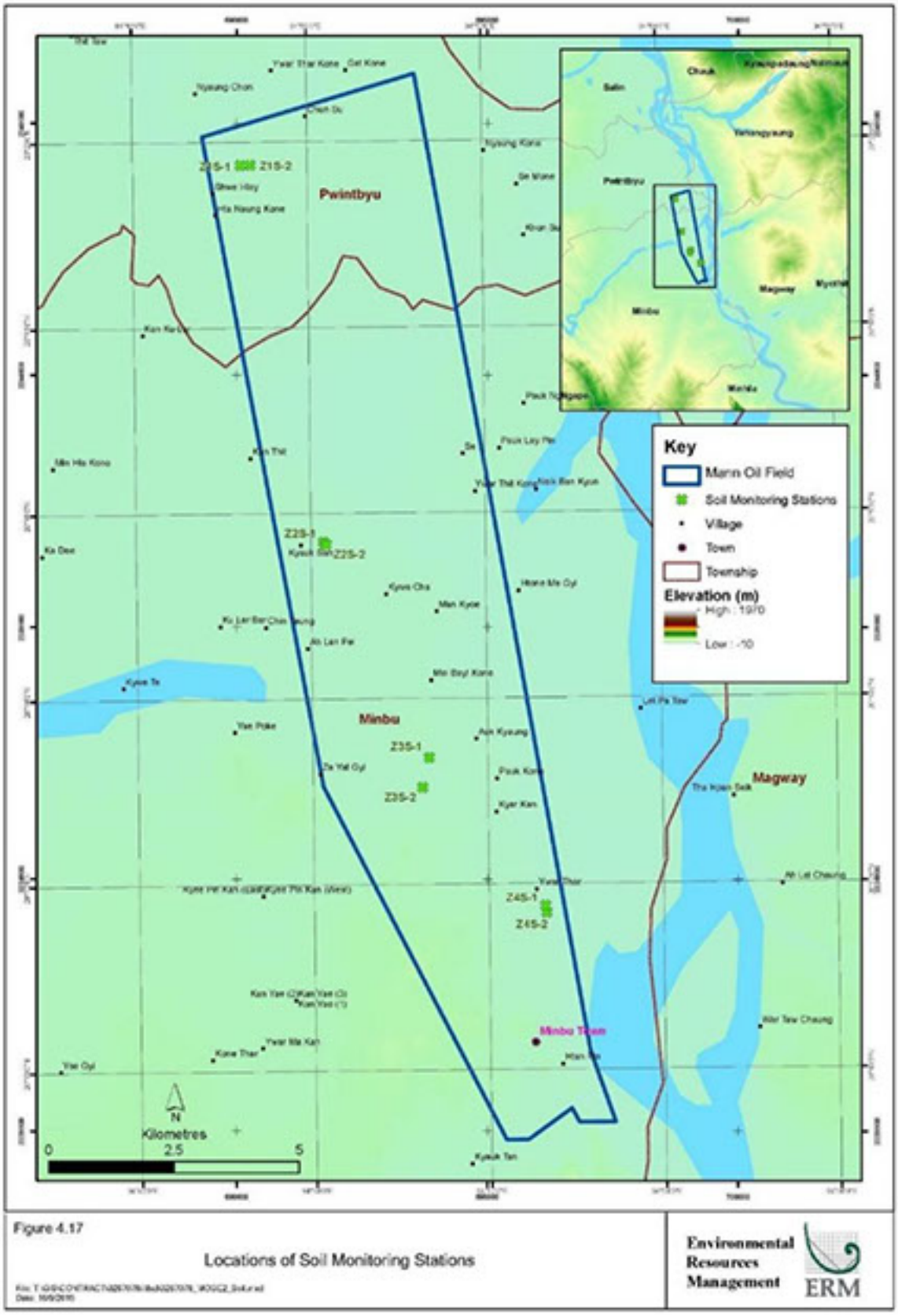



*Figure 26: Location of Soil Quality Monitoring*



*Figure 27: Soil Quality Monitoring at Z3SW1, Z3SW2, Z4SW1, Z4SW2*

*Table 17: Soil Quality Monitoring Results*

| Parameter | Unit | Baseline Data Sampling Station (May 2015) | | | | | | | | Soil Analysis Result (July 2026) | | | | | | | | Dutch Standard 2000 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Z1S1 | Z1S2 | Z2S1 | Z2S2 | Z3S1 | Z3S2 | Z4S1 | Z4S2 | Z1S1 | Z1S2 | Z2S1 | Z2S2 | Z3S1 | Z3S2 | Z4S1 | Z4S2 | |
| pH | - | 6.8 | 6.8 | 6.7 | 6.7 | 6.8 | 6.8 | 6.9 | 6.9 | - | - | - | - | 7.2 | 7.8 | 7.1 | 7.6 | - |
| Arsenic | mg/kg | ND | ND | ND | ND | ND | ND | ND | ND | - | - | - | - | - | - | - | - | 55 |
| Lead | mg/kg | 115 | 120 | 135 | 130 | 120 | 124 | 137 | 135 | - | - | - | - | 6.5 | 6.1 | 6.3 | 5.6 | 530 |
| Cadmium | mg/kg | 0.009 | 0.008 | 0.009 | 0.007 | 0.007 | 0.007 | 0.006 | 0.007 | - | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | 12 |
| Copper | mg/kg | 105 | 99 | 110 | 115 | 90 | 95 | 85 | 88 | - | - | - | - | 2.1 | 1.8 | 2.3 | 1.8 | 800 |
| Zinc | mg/kg | 75 | 80 | 72 | 69 | 65 | 70 | 75 | 78 | - | - | - | - | - | - | - | - | 720 |
| Manganese | mg/kg | 30 | 32 | 38 | 35 | 28 | 25 | 31 | 30 | - | - | - | - | - | - | - | - | 500 |
| Iron | mg/kg | 4850 | 4790 | 4900 | 4930 | 4870 | 4950 | 4700 | 4690 | - | - | - | - | - | - | - | - | - |
| Soil Texture | - | Silty clay | Silty clay | Silty Sand | Silty Sand | Silty Sand | Silty Sand | Sandy silt with minor clay | Sandy silt with minor clay | - | - | - | - | - | - | - | - | - |
| Soil Color | - | Grey | Grey | Yellowish Brown | Yellowish Brown | Yellowish Brown | Yellowish Brown | Yellowish Grey | Yellowish Grey | - | - | - | - | - | - | - | - | - |

## 8.4 Surface Water Quality Monitoring

The surface water quality monitoring within the Project Area was carried out at two locations in July 2026. Details of the sampling locations were presented in Table 18.

*Table 18: Surface Water Quality Monitoring Locations*

| Sampling Locations | Coordinate | Description | Sampling Date (Monitoring) |
|---|---|---|---|
| Z3SW1 | 20° 14' 46.51" N 94° 51' 0.27" E | Mann Chaung, near Kywegya village | 22 July 2026 |
| Z3SW2 | 20° 14' 45.74" N 94° 51' 1.87" E | Mann Chaung, about 50 m downstream of Z3SW1 | 22 July 2026 |
| Z4SW1 | 20° 11' 41.31" N 94° 52' 41.11" E | Near west bank of Ayeyarwady river, Minbu Township | 22 July 2026 |
| Z4SW2 | 20° 11' 38.80" N 94° 52' 42.50" E | Ayeyarwady river, about 90 m downstream of Z4SW1 | 22 July 2026 |

Analytical results for the collected surface water samples demonstrate full compliance with the National Surface Water Quality Standards (NSWQS) across all tested parameters, with the sole exception of Total Suspended Solids (TSS) at monitoring stations Z4SW1 and Z4SW2.

The elevated TSS concentrations recorded during this monitoring period coincide directly with the peak monsoon season (July 2026). In tropical river basins, seasonal high-volume precipitation intensifies surface runoff and upstream soil erosion across regional agricultural lands, logged areas, and non-vegetated riverbanks. The resulting surge in river discharge mobilizes significant bed-load sediment and fine silt, naturally elevating ambient turbidity and suspended solids throughout the wider catchment. These elevated TSS levels are representative of regional baseline hydrologic and watershed conditions during heavy seasonal rains, rather than localized project discharge, particularly as Mann Field maintains a continuous zero-surface-discharge operational regime.

The monitoring results of surface water in July 2026 as shown in Table 19.

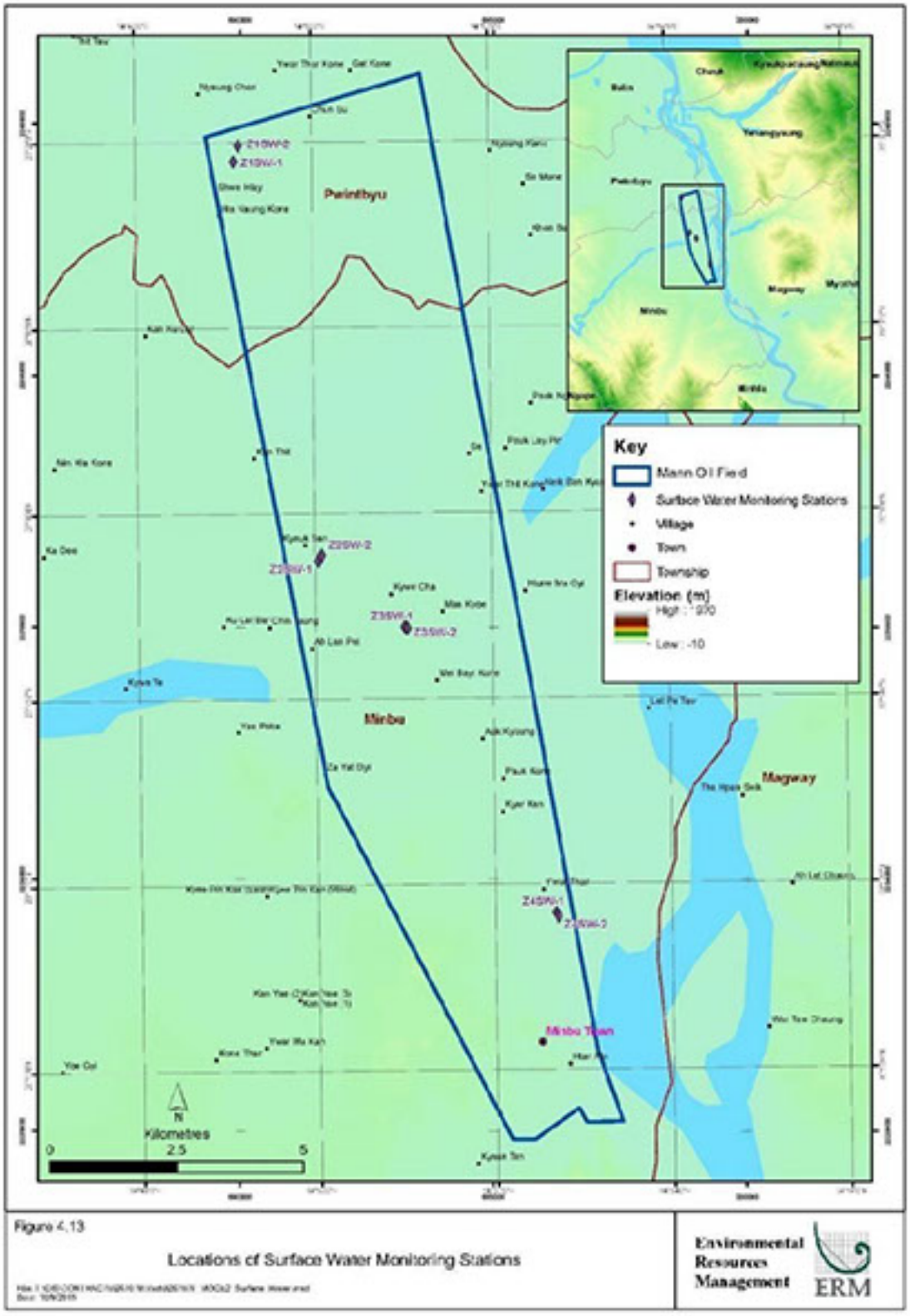



*Figure 28: Location Map of Surface Water Quality Monitoring*



*Figure 29: Surface Water Samples Collection at Z3SW1, Z3SW2, Z4SW1, Z4SW2*

*Table 19: Surface Water Quality Monitoring Results*

| Item/ Sample Name | May 2015 | | | | July 2026 | | | | NEQEG Standard | NSWQS:2024 Table 3 Class V |
|---|---|---|---|---|---|---|---|---|---|---|
| | Z3SW1 | Z3SW2 | Z4SW1 | Z4SW2 | Z3SW1 | Z3SW2 | Z4SW1 | Z4SW2 | | |
| Date/ Time | 6/5/15 (12:08) | 6/5/15 (12:08) | 6/5/15 (12:08) | 6/5/15 (12:08) | 22/7/26 (09:55) | 22/7/26 (09:45) | 22/7/26 (14:45) | 22/7/26 (14:30) | | |
| Weather | Sunny | Sunny | Sunny | Sunny | Sunny | Sunny | Sunny | Sunny | - | |
| Transparency | High | High | Medium | Medium | - | - | - | - | - | |
| Temperature (C) | 37.66 | 37.62 | 31.55 | 31.18 | 25 | 25 | 25 | 25 | - | |
| pH | 8.1 | 8.11 | 7.73 | 7.65 | 7.8 | 8.2 | 7.8 | 7.7 | 6-9 | - |
| DO (mg/l) | 11.33 | 11.52 | 7.12 | 7.15 | 7.44 | 7.1 | 7.2 | 7.1 | - | >2 |
| EC (µs) | 711.8 | 705.7 | 153 | 152.5 | 200 | 200 | 92 | 90 | - | |
| Turbidity (FNU) | 7.1 | 7 | 25 | 43.7 | 124 | 86 | 322 | 470 | - | |
| Colour | 5 | 10 | 45 | 55 | 80 | 60 | 180 | 200 | - | |
| Alkalinity | 238 | 237 | 58 | 58 | 112 | 108 | 54 | 50 | - | |
| Hardness | 144 | 150 | 58 | 50 | 88 | 86 | 44 | 40 | - | |
| BOD5 (mg/l) | 10 | 10 | 14 | 16 | 5.1 | 4.8 | 6.2 | 5.8 | 30 | 30 |
| COD (mg/l) | 32 | 32 | 32 | 32 | 64 | 32 | 64 | 64 | 125 | 100 |
| Total Nitrogen(mg/l) | 3 | 9 | 19 | 18 | 14.6 | 16.4 | 12.5 | 12.6 | 10 | |
| Total Phosphorous (mg/l) | 0.047 | 0.051 | 0.071 | 0.031 | 1.42 | 1.63 | 1.85 | 1.96 | 2.0 | |
| Oil & grease (mg/l) | 5 | 7 | <1 | <1 | 6 | 6 | 7 | 7 | 10 | No noticeably seen |
| TSS (mg/l) | 7 | 13 | 124 | 138 | 148 | 94 | 423 | 630 | 50 | 150 |
| E.Coli (CFU/100ml) | - | - | - | - | 0 | 0 | 0 | 20 | | - |
| Arsenic (mg/l) | - | - | - | - | Nil | Nil | Nil | Nil | | |
| Barium (mg/l) | - | - | - | - | - | - | - | - | | |
| Boron (mg/l) | - | - | - | - | 0.21 | 0.21 | 0.23 | 0.24 | | |
| Total Chromium (mg/l) | - | - | - | - | - | - | - | - | | |
| Fluoride (mg/l) | - | - | - | - | 0.3 | 0.2 | 0.8 | 0.9 | | |
| Selenium (mg/l) | - | - | - | - | - | - | - | - | | |
| Uranium (mg/l) | - | - | - | - | - | - | - | - | | |
| Ammonia-Nitrogen (mg/l) | | | | | 0.31 | 0.32 | 0.28 | 0.34 | | 0.9 |
| Copper (mg/l) | | | | | 0.26 | 0.24 | 0.31 | 0.34 | | - |

## 8.5 Groundwater Quality Monitoring

The groundwater quality monitoring was conducted at three existing residential wells (dug wells and drilled/ tube wells) in the project area. The sampling locations are presented in Table 20.

*Table 20: Groundwater Quality Monitoring Locations*

| Sampling Locations | Coordinate | Description | Sampling Date (Monitoring) |
|---|---|---|---|
| Z3GW1 | 20° 15' 5.35" N<br>94° 50' 54.52" E | Tube well in Kywegya village, Minbu Township | 22 July 2026 |
| Z3GW2 | 20° 15' 6.44" N<br>94° 50' 53.77" E | Tube well in Kywegya village, Minbu Township | - |
| Z4GW1 | 20° 11' 37.92" N<br>94° 52' 29.67" E | Well in Shwe War Gone Ward, Minbu Township | - |
| Z4GW2 | 20° 11' 29.50" N<br>94° 52' 27.85" E | Well in Shwe War Gone Ward, Minbu Township | 22 July 2026 |




*Figure 30: Groundwater Quality Monitoring Locations*



*Figure 31: Groundwater Sampling at Z3GW1 and Z4GW2*

The results of groundwater quality monitoring are summarized in Table 21.

In areas with little rainfall, groundwater levels often drop, causing the well to pull from deeper or more stagnant layers of the aquifer. These layers may contain natural organic deposits, such as ancient peat or buried vegetation. Without regular rain to "recharge" and flush the system, these natural organic carbons become more concentrated in the remaining water, leading to a higher BOD5 reading despite no man-made pollution.

*Table 21: Result Summary of Groundwater Quality Monitoring*

| Item/ Sample Name | May 2015 | | | | July 2026 | | | | WHO Drinking Water Quality Standard (2011) |
|---|---|---|---|---|---|---|---|---|---|
| | Z3GW1 | Z3GW2 | Z4GW1 | Z4GW2 | Z3GW1 | Z3GW2 | Z4GW1 | Z4GW2 | |
| Date/ Time | 6/5/15 (11:04) | 6/5/15 (11:30) | 6/5/15 (14:32) | 6/5/15 (14:58) | 22/7/26 (09:25) | - | - | 22/7/26 (15:10) | - |
| Weather | Sunny | Sunny | Sunny | Sunny | Sunny | - | - | Sunny | - |
| Transparency | High | High | High | High | - | - | - | - | |
| Temperature Water (C) | 36.12 | 37.57 | 31.77 | 31.67 | 25 | - | - | 25 | |
| pH | 6.68 | 6.63 | 6.95 | 7.2 | 8.6 | - | - | 8.2 | 6.5-8.5 |
| DO (mg/l) | 2.9 | 2.29 | 1.44 | 3.41 | 4.8 | - | - | 6.1 | |
| EC (µs) | 1498.3 | 1198.7 | 5060.4 | 7740.8 | 1356 | - | - | 12136 | |
| Turbidity (FNU) | 4.9 | 4.6 | 0.5 | 1 | 14 | - | - | 18 | |
| Colour | 5 | 10 | Nil | Nil | 5 | - | - | 10 | |
| Alkalinity | 354 | 279 | 462 | 624 | 232 | - | - | 1600 | |
| Hardness | 246 | 222 | 539 | 639 | 88 | - | - | 2600 | |
| BOD: (mg/l) | 10 | 14 | 8 | 10 | 3.4 | - | - | 3.6 | 3 |
| COD (mg/l) | 32 | 32 | 32 | 32 | 32 | - | - | 32 | 250 |
| Total Nitrogen (mg/l) | 4 | 73 | 4 | 63 | 8.5 | - | - | 8.4 | |
| Total Phosphorous (mg/l) | 0.239 | 0.168 | 0.251 | 0.042 | 1.65 | - | - | 1.68 | |
| Oil and grease (mg/l) | <1 | <1 | <1 | <1 | 3 | - | - | 4 | 10 |
| TSS (mg/l) | <5 | <5 | 5 | <5 | 18 | - | - | 22 | |
| E.Coli (CFU/100 ml) | - | - | - | - | 0 | - | - | 0 | 0 |
| Arsenic (mg/l) | - | - | - | - | Nil | - | - | Nil | 0.05 |
| Barium (mg/l) | - | - | - | - | - | - | - | - | 0.7 |
| Boron (mg/l) | - | - | - | - | 0.21 | - | - | 0.2 | 2.4 |
| Total Chromium (mg/l) | - | - | - | - | - | - | - | - | 0.05 |
| Fluoride (mg/l) | - | - | - | - | 0.2 | - | - | 0.3 | 1.5 |
| Selenium (mg/l) | - | - | - | - | - | - | - | - | 0.04 |
| Uranium (mg/l) | - | - | - | - | - | - | - | - | 0.03 |

## 8.6 Monitoring on Sludge Management Status

The Mann Field produces around 1,730 BBL of produced water per day, which typically contains a mixture of inorganic compounds (such as dissolved salts, trace metals, suspended particles) and organic compounds (such as dispersed and dissolved hydrocarbons and organic acids). As a result of these compounds, produced water generates sludge. Improper discharge of this sludge can have potential impacts on the receiving environment, including soil, surface water, and groundwater, as well as community health, terrestrial, and aquatic ecological resources.

Dried sludge, weighing approximately 168 tons (estimated weight), is currently being stored temporarily at the Waste Management Compound and at the Sludge Management Compound (extended dried sludge storage shed).



*Figure 32: Sludge Management Compound (SMC)*

Currently, all the collected wet sludge is being stored properly in three concrete pits to ensure compliance with the NEQEG guideline levels for Onshore Oil and Gas Development. Any hazardous waste will be disposed of according to the commitments made in the ECC.

## 8.7 Monitoring on Produced Water Management Status

MPRL E&P to minimize environmental impact to Zero Discharge in produced water management. The team recording milestones on achievements of Zero Discharge on produced water management was implemented on 24 August 2017.

MPRL E&P is undertaking to inject all produced water (100%) into the shut-in wells by using 9 units of injection pumps to meet guideline levels in NEQEG for Onshore Oil and Gas Development.



*Figure 33: Produced Water Injection into Shut-in Wells*

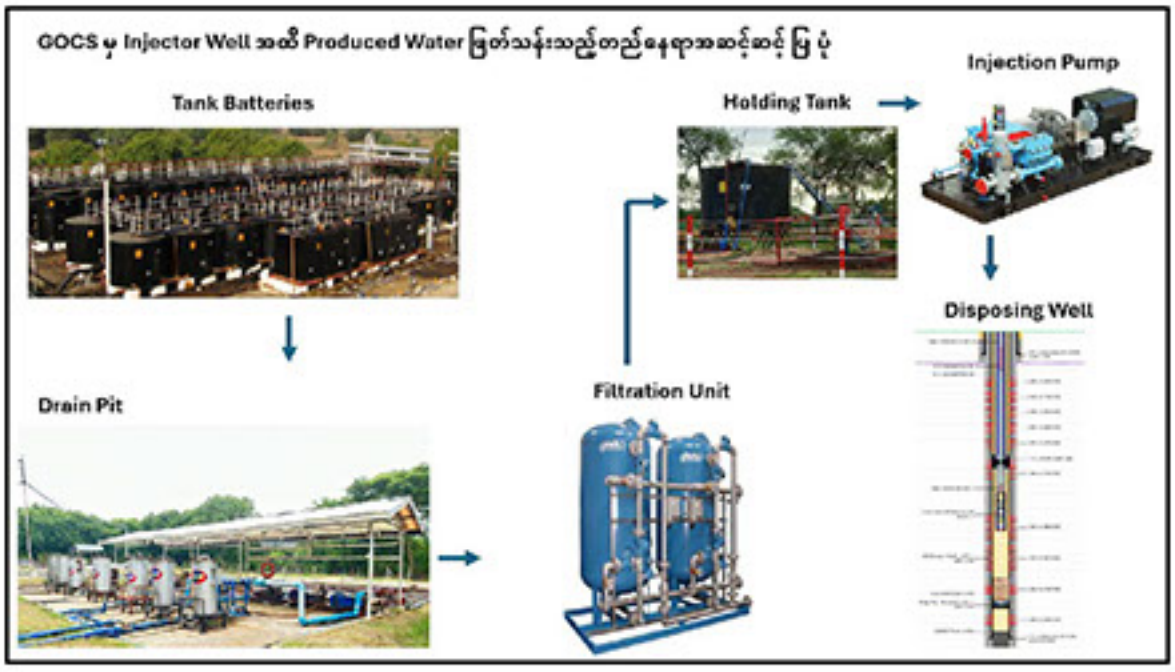



*Figure 34: Produced Water Injection Process*

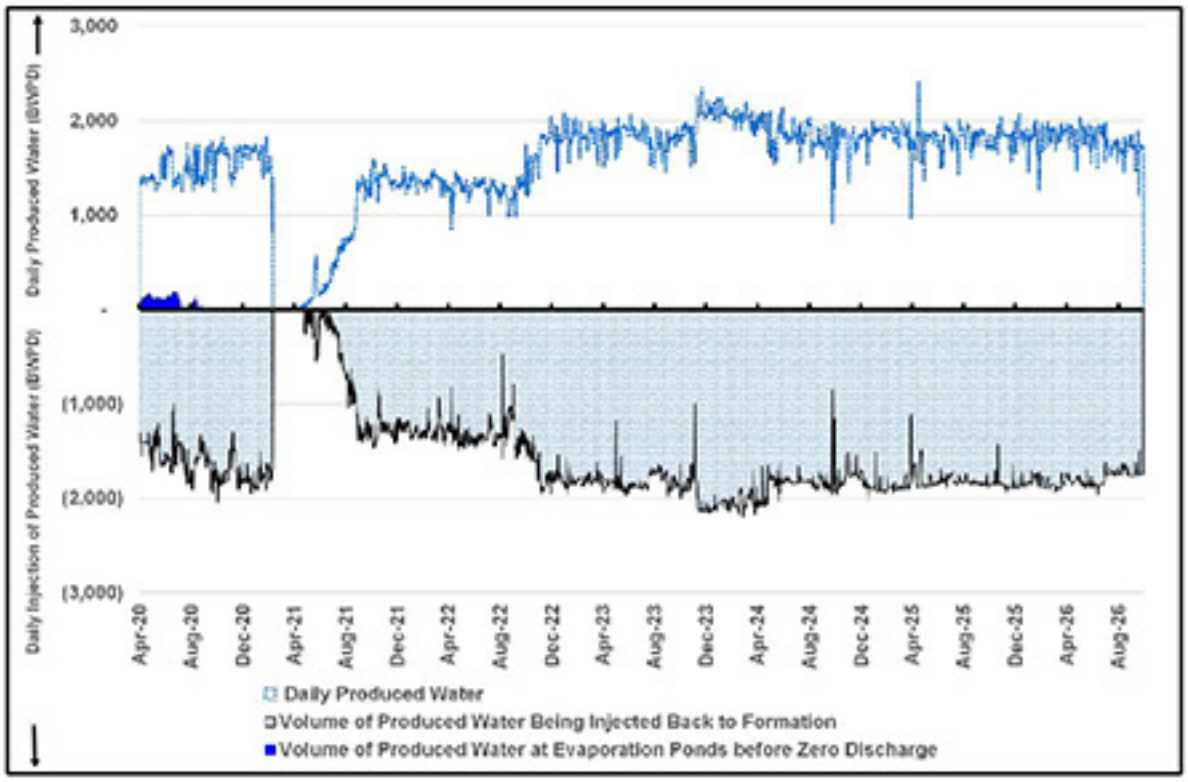



*Figure 35: Produced Water Management*

According to Table 8 in this report, as per Table 8.3 Environmental and Social Monitoring Program of the approved EIA report, it is committed to testing the wastewaters from the discharged points. However, all the produced water from the GOCS is being disposed of back into the formation and thus there is no discharge to the environment. Again, there is no discharge from the hydro test activities and also from shut-in wells.

## 8.8 Monitoring on Discharge of Treated Wastewater and Runoff

MPRL E&P conducted self-monitoring activities to access the quality of discharged water from various sources, including domestic wastewater treated from Bio-filter, hydro test water from warehouse, drinking water quality, domestic wastewater quality from Down-hole and Mechanical Workshop Zero Discharged Tank, and groundwater quality near the injection well. The monitoring was conducted according to the planned schedule.

### 8.8.1 Base Camp Water Discharge

Domestic-type wastewater and sewage are managed in the existing operational phase. Based on the camp water consumption monitoring results, approximately 8,000 liters of sewage and wastewater are generated per day from the base camp within the Mann Field, which can accommodate 60 – 80 workers.

Water consumption is monitored using water flow meters installed at the base camp, mechanical workshop, warehouse, and down-hole workshop. The team is also aware of the water consumption to minimize its volume.

Regular safety meetings and toolbox talks are held to raise awareness about water conservation, energy conservation, and water pollution among all crew members. Additionally, inspections are conducted to ensure that there are no leaks or wastage of water from pipelines and basins during routine camp inspections.





*Figure 36: Regular Maintenance of Bio-filter by Service Provider*

Sanitary and domestic wastewater are managed in accordance with the mitigation plan. The following measures are in place:

- Sanitary wastewater is collected in septic holding tanks in the main camp, which are periodically serviced by a licensed firm. Currently, the wastewater is collected in a concrete pit, with no discharge outside.
- MPRL E&P has installed the wastewater treatment unit to treat sanitary wastewater in accordance with NEQEG guidelines.
- Storm water run-off is directed to a pond to remove silt particles before being discharge via a storm drain.
- Surface runoff from potential sources of contamination is prevented.
- All discharge facilities and sediment control structures are regularly inspected and maintained to ensure proper and efficient operation, particularly during rainstorms. Deposited silt and grit are removed regularly.
- Runoff from areas without potential sources of contamination is minimized by reducing the area of impermeable surfaces and using vegetated swales and retention ponds to reduce the peak discharge rate.
- Oil-water separators and grease traps are constructed and maintained as appropriate at refueling facilities, workshops, parking areas, fuel storage, and containment areas.
- The location of the discharge point for treated sewage effluent into surface water is not confirmed based on the existing project design, but it will be located where there is adequate assimilative capacity of the surface waters.

### 8.8.2 Monitoring of Sewage Treatment System Water Quality

At Base Camp, we treated sewage discharge water using a bio-filter and collected it in a concrete tank. This water is now repurposed for watering the plants and controlling dust by spraying it on the ground.

During the month of July 2026, we collected water samples from the bio-filter treated system and sent them to ALARM and ISO Tech lab for testing and found that the results are under the NEQEG guideline. It is periodically serviced and maintained by the service provider quarterly basis.

The monitoring results are presented in Table 22: Bio-filter outlet water quality monitoring (Sewage Treatment System).

*Table 22: Bio-filter Outlet Water Quality Monitoring (Sewage Treatment System)*

| No | Quality Parameter | Units | Results (Jan'25) | Results (Jul'25) | Results (Jan'26) | Results (Jul'26) | NEQEG (2015) |
|---|---|---|---|---|---|---|---|
| 1 | $BOD_5$ | mg/l | 33 | 35 | 38 | 36 | 50 |
| 2 | COD | mg/l | 128 | 96 | 64 | 64 | 250 |
| 3 | Oil and grease | mg/l | 4 | 6 | 7 | 6 | 10 |
| 4 | pH | S. U | 7.4 | 8.3 | 8.1 | 8.1 | 6-9 |
| 5 | Total Coliform Bacteria | MPN/100ml | 40 | 60 | 40 | 22 | 400 |
| 6 | Total Nitrogen | mg/l | 2.6 | 12.5 | 32.8 | 16.5 | - |
| 7 | Total Phosphorous | mg/l | 0.52 | 1.86 | 4.3 | 1.96 | 2 |
| 8 | Total Suspended Solids (TSS) | mg/l | 49 | 40 | 36 | 38 | 50 |
| 9 | Turbidity | FNU | 60 | 65 | 42 | 32 | - |
| 10 | Electrical Conductivity | µs | 964 | 912 | 998 | 700 | - |
| 11 | Dissolved Oxygen | mg/l | 3 | 2.15 | 5.53 | 5.67 | - |

### 8.8.3 Hydro-test Water and Domestic Water

At the Mann Field warehouse, the team previously conducted hydro tests on tubing in a designated pressure test area. However, the field team has since minimized water usage by implementing a recycling system that uses zero discharge recycled water for these tests.



*Figure 37: Warehouse Tubular Section*

### 8.8.4 Monitoring of Discharge Water from Warehouse (Tubular Section)

The hydro-test water monitoring schedule was carried out during the month of July 2026. The monitoring results revealed that all parameters complied with the NEQEG guidelines except for $BOD_5$ value and Total Suspended Solid value. $BOD_5$ value exceeding may be many reasons such as using of organic additives in hydrotesting, residual contaminants, source of water quality, etc. Total suspended solid value may high due to rust, scale, metal oxides, or sediment from aging pipelines, introducing particulate matter into the wastewater.



*Figure 38: Water Sample Collection at Warehouse Tubo Section*

The monitoring results are presented in Table – 23: Monitoring of Discharge Water from Warehouse (Tubular Section).

*Table 23: Discharge Water from Warehouse (Tubular Section)*

| No | Quality Parameter | Units | Results (Jan 2025) | Results (Jul 2025) | Results (Jan 2026) | Results (Jul 2026) | NEQEG (2015) |
|---|---|---|---|---|---|---|---|
| 1 | $BOD_5$ | mg/l | 36 | 33 | 42 | 41 | 25 |
| 2 | Arsenic | mg/l | 0 | Nil | Nil | Nil | - |
| 3 | Cadmium | mg/l | <0.01 | ND | 0.03 | ND | - |
| 4 | COD | mg/l | 96 | 64 | 64 | 96 | 125 |
| 5 | Chromium (Hexavalent) | mg/l | 0.155 | 0.21 | 0.27 | <0.02 | - |
| 6 | Copper | mg/l | 0 | Nil | Nil | Nil | - |
| 7 | TSS | mg/l | 240 | 78 | 180 | 324 | 35 |
| 8 | Chloride | mg/l | 140 | 34 | 25 | 42 | 600 |
| 9 | Lead | mg/l | <0.1 | ND | 0.1 | ND | - |
| 10 | Mercury | mg/l | 0.001 | 0.001 | - | - | - |
| 11 | Nickel | mg/l | 0.34 | 0.21 | 0.26 | ND | - |
| 12 | pH | S. U | 7.3 | 8.1 | 7.9 | 7.8 | 6-9 |
| 13 | Phenols | mg/l | <0.1 | 0.41 | 0.36 | 0.23 | 0.5 |
| 14 | Silver | mg/l | - | - | - | - | - |
| 15 | Sulfide | mg/l | 0.24 | 0.336 | 0.24 | 0.186 | 1 |
| 16 | Zinc | mg/l | 0 | Nil | Nil | Nil | - |
| 17 | Vanadium | mg/l | - | - | - | - | - |

### 8.8.5 Monitoring of Discharge Water from Down-Hole Workshop

**Down-hole Workshop:** Down-hole tools servicing, cleaning, inspection, pressure testing and the cleaning process with steam are carried out in the Down-hole Workshop. The used water is disposed of at the zero discharge pits to preserve the environment.

In July 2026, we monitored the water samples from a zero-discharge tank of Down-hole workshop, and all of them complied with the NEQEG, except for Total Suspended Solids. The elevated Total Suspended Solids (TSS) in the downhole workshop's reused water may stems from high seasonal silt loads in the creek water supply, and the continuous buildup of rust scale, formation solids, and pipe dope washed from tools in a closed-loop circuit.



*Figure 39: Downhole Workshop*

The water used in the daily operation of the down-hole workshop was collected in a concrete tank via a drain line and reused for recycling, thus avoiding discharge to the environment.

The monitoring results are described in the following Table 24: Discharge Water from Equipment Maintenance Workshop (Down-hole Workshop).

*Table 24: Discharge Water from Down-hole Workshop*

| No | Quality Parameter | Units | Results (Jan 2025) | Results (Jul 2025) | Results (Jan 2026) | Results (Jul 2026) | NEQEG (2015) |
|---|---|---|---|---|---|---|---|
| 1 | $BOD_5$ | mg/l | 24 | 71 | 32 | 38 | 50 |
| 2 | Ammonia | mg/l | 1.86 | 3.16 | 0.24 | 0.36 | 10 |
| 3 | Arsenic | mg/l | 0 | Nil | Nil | Nil | 0.1 |
| 4 | Cadmium | mg/l | ND | 0.03 | 0.01 | ND | 0.1 |
| 5 | COD | mg/l | 64 | 96 | 32 | 64 | 250 |
| 6 | Chlorine (Total Residual) | mg/l | Nil | Nil | 0.5 | Nil | 0.2 |
| 7 | Chromium (Hexavalent) | mg/l | 0.02 | 0.279 | 0.136 | <0.02 | 0.1 |
| 8 | Chromium (Total) | mg/l | - | - | - | - | 0.5 |
| 9 | Copper | mg/l | Nil | Nil | Nil | Nil | 0.5 |
| 10 | Cyanide (Free) | mg/l | 0.054 | 0.022 | 0.068 | 0.17 | 0.1 |
| 11 | Cyanide (Total) | mg/l | - | 0.031 | Nil | 0.049 | 1 |
| 12 | Fluoride | mg/l | 0.8 | 0.8 | 0.5 | 0.6 | 20 |
| 13 | Heavy Metals (Total) | mg/l | - | - | - | - | 10 |
| 14 | Iron | mg/l | 0.35 | 0.239 | 0.193 | 0.978 | 3.5 |
| 15 | Lead | mg/l | ND | ND | ND | ND | 0.1 |
| 16 | Mercury | mg/l | 0.04 | 0.02 | - | - | 0.01 |
| 17 | Nickel | mg/l | ND | 0.24 | ND | 0.31 | 0.5 |
| 18 | Oil and grease | mg/l | 8 | 8 | 7 | 7 | 10 |
| 19 | pH | S. U | 7.4 | 8.3 | 7.9 | 7.6 | 6-9 |
| 20 | Phenols | mg/l | <0.1 | 0.28 | 0.61 | 0.28 | 0.5 |
| 21 | Selenium | mg/l | - | - | - | - | 0.1 |
| 22 | Silver | mg/l | - | - | - | - | 0.5 |
| 23 | Sulfide | mg/l | 0.313 | 0.343 | 0.2 | 0.13 | 1 |
| 24 | Temperature increase | mg/l | 25 | 25 | 25 | 25 | <3 |
| 25 | Total coliform bacteria | MPN/100 ml | 16 | 40 | 16 | 20 | 400 |

| No | Quality Parameter | Units | Results (Jan 2025) | Results (Jul 2025) | Results (Jan 2026) | Results (Jul 2026) | NEQEG (2015) |
|---|---|---|---|---|---|---|---|
| 26 | Total Phosphorous | mg/l | 1.92 | 1.24 | 1.68 | 1.26 | 2 |
| 27 | Total Suspended Solids | mg/l | 147 | 80 | 32 | 62 | 50 |
| 28 | Zinc | mg/l | Nil | Nil | Nil | Nil | 2 |
| 29 | Vanadium | mg/l | - | - | - | - | - |

### 8.8.6 Monitoring of Discharge Water from Mechanical Workshop

**Mechanical Workshop:** pulling units, workover rigs, trucks, bulldozers, backhoes, tractors and pumps are serviced in the workshop, and large amounts of water are used in car washes and general cleaning. Water reclamation systems are employed in the workshop.



*Figure 40: Water Sample Collection at Mechanical Workshop*

Vehicles and machine parts undergo maintenance and repair work at the mechanical workshop, and the water used in the workshop's daily operation is collected in a concrete tank and reused.

Monitoring for the domestic water quality from the equipment maintenance workshop (Mechanical Workshop) of the Zero Discharge Tank was conducted in July 2026 and as per the results, all are under the guideline values.

The tested results of the monitoring are presented in Table 25: Discharge water from Equipment Maintenance Workshop (Mechanical Workshop).

*Table 25: Discharge Water from Mechanical Workshop*

| No | Quality Parameter | Units | Results (Jan 2025) | Results (Jul 2025) | Results (Jan 2026) | Results (Jul 2026) | NEQEG (2015) |
|---|---|---|---|---|---|---|---|
| 1 | $BOD_5$ | mg/l | 32 | 24 | 36 | 32 | 50 |
| 2 | Ammonia | mg/l | 0.54 | 2.4 | 0.24 | 0.21 | 10 |
| 3 | Arsenic | mg/l | Nil | Nil | Nil | Nil | 0.1 |
| 4 | Cadmium | mg/l | ND | 0.04 | 0.02 | 0.02 | 0.1 |
| 5 | COD | mg/l | 64 | 64 | 64 | 64 | 250 |
| 6 | Chlorine (Total Residual) | mg/l | Nil | Nil | 0.5 | Nil | 0.2 |
| 7 | Chromium (Hexavalent) | mg/l | 0.08 | 0.31 | 0.1 | <0.02 | 0.1 |
| 8 | Chromium (Total) | mg/l | - | - | - | - | 0.5 |
| 9 | Copper | mg/l | Nil | Nil | Nil | Nil | 0.5 |
| 10 | Cyanide (Free) | mg/l | 0.039 | 0.025 | 0.066 | 0.15 | 0.1 |
| 11 | Cyanide (Total) | mg/l | - | 0.034 | Nil | 0.051 | 1 |
| 12 | Fluoride | mg/l | 0.4 | 3.3 | 0.8 | 0.8 | 20 |
| 13 | Heavy Metals (Total) | mg/l | - | - | - | - | 10 |
| 14 | Iron | mg/l | 0.32 | 0.258 | 0.194 | 0.928 | 3.5 |
| 15 | Lead | mg/l | ND | ND | ND | ND | 0.1 |
| 16 | Mercury | mg/l | 0.05 | 0.03 | - | - | 0.01 |
| 17 | Nickel | mg/l | 0.31 | 0.31 | 0.21 | 0.2 | 0.5 |
| 18 | Oil and grease | mg/l | 6 | 7 | 8 | 6 | 10 |
| 19 | pH | S. U | 7.6 | 8.4 | 8.5 | 7.9 | 6-9 |
| 20 | Phenols | mg/l | <0.1 | 0.31 | 0.86 | 0.21 | 0.5 |
| 21 | Selenium | mg/l | - | - | - | - | 0.1 |
| 22 | Silver | mg/l | - | - | - | - | 0.5 |
| 23 | Sulfide | mg/l | 0.303 | 0.341 | 0.2 | 0.12 | 1 |
| 24 | Temperature increase | mg/l | 25 | 25 | 25 | 25 | <3 |

| No | Quality Parameter | Units | Results (Jan 2025) | Results (Jul 2025) | Results (Jan 2026) | Results (Jul 2026) | NEQEG (2015) |
|---|---|---|---|---|---|---|---|
| 25 | Total coliform bacteria | MPN/100 ml | 12 | 10 | 30 | 16 | 400 |
| 26 | Total Phosphorous | mg/l | 1.82 | 1.31 | 1.94 | 2.0 | 2 |
| 27 | Total Suspended Solids | mg/l | 60 | 58 | 38 | 42 | 50 |
| 28 | Zinc | mg/l | Nil | Nil | Nil | Nil | 2 |
| 29 | Vanadium | mg/l | - | - | - | - | - |

## 8.9 Use of Chemicals for EOR

During the EOR operation, chemicals will be injected into the wells to alter the property of oil for enhanced recovery in the EIA report. The chemicals that may be used for the Project included alkaline and polymers. The injection of chemicals into the well may cause groundwater contamination and indirectly affecting community health.

In Mann Field, MPRL E&P applied the GreenZyme® to inject to the formation that does not expose nor discharge to the environment. There is no environmental issue since the injection project had been conducted according to the standard operating procedure by protecting not to spill to the environment.

GreenZyme® is a biological liquid enzyme which is a kind of environmentally friendly fluid. It is a protein-based non-living catalyst, which facilitates the completion of biological reactions, to enhance crude oil recovery from most oil wells, both onshore and offshore. EOR GreenZyme® is produced by a proprietary process, which involves impregnating a high protein nutrient soup, with the DNA of selectively cultured microbes. The final product contains enzymes associated with the oil-eating microbe's DNA. Nearly all-living microbes are made inert at the end of the manufacturing process.

## 8.10 Monitoring of Camp Water Quality (Drinking Water Quality)



*Figure 41: Water Sample Collection from RO Drinking Water System*

Access to safe drinking water is crucial for everyone's wellbeing, which is why a Reverse Osmosis (RO) drinking water system has been installed in the base camp. This system ensures that there is sufficient purified water available for staff members to use for drinking water and food preparation. To maintain the quality of water, the team conducts biannually water quality monitoring, and the site doctor and HSE team perform hygiene inspections and audits according to the planned schedule. Regular service and maintenance are also scheduled and implemented to ensure that the RO system continues to function properly.

### Monitoring Results of Drinking Water Quality

In July 2026, the drinking water quality of Mann Field Base Camp was tested at ALARM and ISO Tech labs. The results indicate that all parameters were below the Drinking Water Quality Standard (DWQS) 2019 and confirm that the water is safe to drink. However, taste and odor parameters were not available in the lab.

The results of the purified drinking water quality from RO system are described in Table 26: Drinking Water Quality Monitoring from MPRL E&P Base Camp (RO Outlet).

*Table 26: Drinking Water Quality Monitoring from MPRL E&P Base Camp (RO Outlet)*

| No | Quality Parameter | Units | Results (Jan 2025) | Results (Jul 2025) | Results (Jan 2026) | Results (Jul 2026) | DWQS (2019) |
|---|---|---|---|---|---|---|---|
| 1 | pH | S. U | 7.1 | 6.6 | 6.7 | 7.1 | 6.5-8.5 |
| 2 | Turbidity | NTU | 1 | 5 | Nil | Nil | 5 |
| 3 | Colour | TCU | Nil | 5 | Nil | Nil | 15 |
| 4 | Hardness | mg/l as $CaCO_3$ | 2 | 4 | 2 | 2 | 500 |
| 5 | Arsenic | mg/l | Nil | Nil | Nil | Nil | 0.05 |
| 6 | Chloride | mg/l | 12 | 2 | 2 | 11 | 250 |
| 7 | Lead | mg/l | ND | ND | ND | ND | 0.01 |
| 8 | Total Dissolved Solids (TDS) | mg/l | 16 | 4 | 13 | 19 | 1000 |
| 9 | Iron | mg/l | 0.07 | 0.09 | 0.12 | <0.02 | 1 |
| 10 | Sulphate | mg/l | Nil | Nil | Nil | Nil | 250 |
| 11 | Manganese | mg/l | 0.02 | <0.2 | 0.1 | <0.1 | 0.4 |
| 12 | Nitrate | mg/l | 0.4 | Nil | Nil | Nil | 50 |
| 13 | Total Coliform Count | MPN/100ml | 0 | 0 | ND | ND | 0 |
| 14 | Total Fecal Coliform Count | MPN/100ml | 0 | 0 | ND | ND | 0 |
| 15 | Odor | Acceptable | - | - | - | - | - |

## 8.11 Monitoring of Ground Water Quality Near the Injection Well

MPRL E&P did not perform the chemical flooding or injection processes on the wells, but instead initiated the enhanced oil recovery project by injecting produced water into the shut-in wells using injection pumps to maintain reservoir pressure.

As part of the Environmental monitoring plan, groundwater near the injection well was monitored bi-annually to assess any contamination or impact on the groundwater. There were two tube wells near shut-in well 132, named Ko Win Maung and Ma Nyein wells.

The monitoring was conducted according to our self-monitoring plan, and the samples were tested at ALARM lab and ISO Tech Lab in July 2026. However, taste and odor parameters could not be tested due to the unavailability of labs.

*Table 27: Groundwater Quality Monitoring near Injection Well 132 (Ko Win Maung)*

| No | Quality Parameter | Units | Results (Jan 2025) | Results (Jul 2025) | Results (Jan 2026) | Results (Jul 2026) | DWQS (2019) |
|---|---|---|---|---|---|---|---|
| 1 | pH | S. U | 7.3 | 7.8 | - | 7.8 | 6.5-8.5 |
| 2 | Turbidity | FAU/NTU | 9 | 9 | - | 10 | 5 |
| 3 | Colour | HU | 5 | 5 | - | 5 | 15 |
| 4 | Hardness | mg/l as CaCO3 | 204 | 164 | - | 244 | 500 |
| 5 | TDS | mg/l | 683 | 888 | - | 877 | ≤1000 |
| 6 | Chloride | mg/l | 35 | 55 | - | 70 | 250 |
| 7 | Total Coliforms | MPN/100ml | 5 | 3 | - | 2 | 0 |
| 8 | Total Faecal Coliforms | MPN/100ml | 0 | 0 | - | ND | 0 |
| 9 | Arsenic | mg/l | Nil | Nil | - | Nil | 0.05 |
| 10 | Iron | mg/l | 0.48 | 0.33 | - | <0.02 | 1 |
| 11 | Lead | mg/l | ND | ND | - | ND | 0.01 |
| 12 | Manganese | mg/l | 0.35 | 0.46 | - | <0.1 | 0.4 |
| 13 | Sulfate | mg/l | 102 | 111 | - | 113 | 250 |
| 14 | Nitrate | mg/l | 0.3 | Nil | - | Nil | 50 |
| 15 | Odor | Acceptable | - | - | - | - | - |

*Table 28: Groundwater Quality Monitoring near Injection Well 132 (Ma Nyein)*

| No | Quality Parameter | Units | Results (Jan 2025) | Results (Jul 2025) | Results (Jan 2026) | Results (Jul 2026) | DWQS (2019) |
|---|---|---|---|---|---|---|---|
| 1 | pH | S. U | 7.4 | 8.2 | 8.3 | 8.3 | 6.5-8.5 |
| 2 | Turbidity | FAU/NTU | 12 | 12 | 9 | 12 | 5 |
| 3 | Colour | HU | 5 | 5 | 5 | 5 | 15 |
| 4 | Hardness | mg/l as $CaCO_3$ | 100 | 92 | 72 | 112 | 500 |
| 5 | TDS | mg/l | 562 | 519 | 580 | 609 | ≤1000 |
| 6 | Chloride | mg/l | 50 | 25 | 25 | 30 | 250 |
| 7 | Total Coliforms | MPN/100ml | 6 | 3 | 4 | 3 | 0 |
| 8 | Total Faecal Coliforms | MPN/100ml | 0 | 0 | ND | ND | 0 |
| 9 | Arsenic | mg/l | Nil | Nil | Nil | Nil | 0.05 |
| 10 | Iron | mg/l | 0.52 | 0.37 | 0.264 | <0.02 | 1 |

| No | Quality Parameter | Units | Results (Jan 2025) | Results (Jul 2025) | Results (Jan 2026) | Results (Jul 2026) | DWQS (2019) |
|---|---|---|---|---|---|---|---|
| 11 | Lead | mg/l | ND | ND | ND | ND | 0.01 |
| 12 | Manganese | mg/l | 0.32 | 0.51 | 0.38 | <0.1 | 0.4 |
| 13 | Sulfate | mg/l | 84 | 82 | 66 | 89 | 250 |
| 14 | Nitrate | mg/l | 0.6 | Nil | Nil | Nil | 50 |
| 15 | Odor | Acceptable | - | - | - | - | - |

At the Ko Win Maung and Ma Nyein Wells, all the results were shown to be under the Drinking Water Quality Standard (2019), except for turbidity and total coliforms. The exceeding reasons of turbidity may be the natural factors such as soil erosion and geological conditions, anthropogenic activities, etc. The presence of total coliforms in tube well water analysis can be a sign of contamination, which could stem from various factors. Coliform bacteria are generally not harmful themselves, but their presence indicates that the water may be contaminated by pathogens, making it unsafe for consumption. Those may be contamination from surface water due to proximity to contamination sources, animal contamination, natural occurrence in the environment, etc.



*Figure 42: Water Sample Collection at Ko Win Maung Tube-well*



*Figure 43: Water Sample Collection at Ma Nyein Tube-well*

## 8.12 Monitoring on Gas Venting

In accordance with the gas venting monitoring program, MPRL E&P's technical team utilizes an Echo Meter to monitor and measure gas volume. If the recorded gas volume substantially exceeds the previous measurement, an orifice meter is employed to validate the volume within a 24-hour timeframe. Once the gas volume is confirmed to be sufficient, the team connects to the gas line and channels the collected gas to the existing facility supplying gas lines to the LPG plant. Continuous monitoring indicates a reduction in well counts and vent gas volume. The team has effectively minimized the venting gas volume, achieving successful mitigation.

### Location of the Gas Venting Wells

As per the planned monitoring program, the team randomly selected the six wells and measured by using an orifice meter on the wells as follows;

*Table 29: Selected Gas Venting Wells Locations*

| Well No | Location | Gas Volume | Date |
|---|---|---|---|
| M 142 | N 20°12'38.29"<br>E 94°51'18.43" | 0 - MMCFD | 05 Apr 2026 |
| M 209 | N 20°12'6.06"<br>E 94°51'35.97" | 0 - MMCFD | 10 May 2026 |
| M 321 | N 20°13'21.63"<br>E 94°51'17.53" | 0 - MMCFD | 13 Jun 2026 |
| M 493 | N 20°13'47.01"<br>E 94°50'59.92" | 0 - MMCFD | 15 Jul 2026 |
| M 508 | N 20°12'27.67"<br>E 94°51'30.37" | 0 - MMCFD | 20 Aug 2026 |
| M 513 | N 20°12'20.88"<br>E 94°51'28.98" | 0 - MMCFD | 25 Sep 2026 |

**Gas Volume measurement (Orifice Meter) Well-142**



Date : 05 April 2025, Gas Volume – 0 CFD

**Gas Volume measurement (Orifice Meter) Well-209**

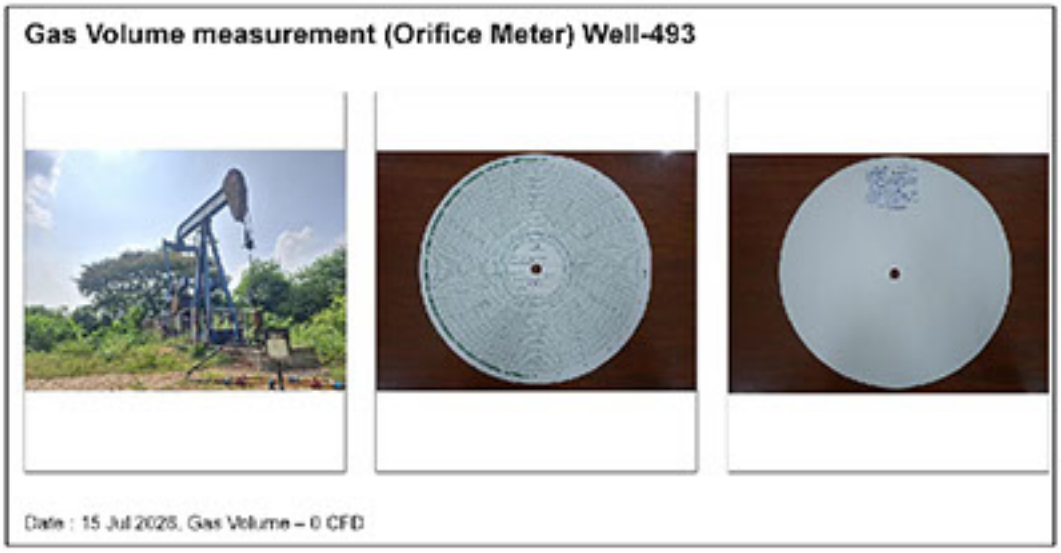


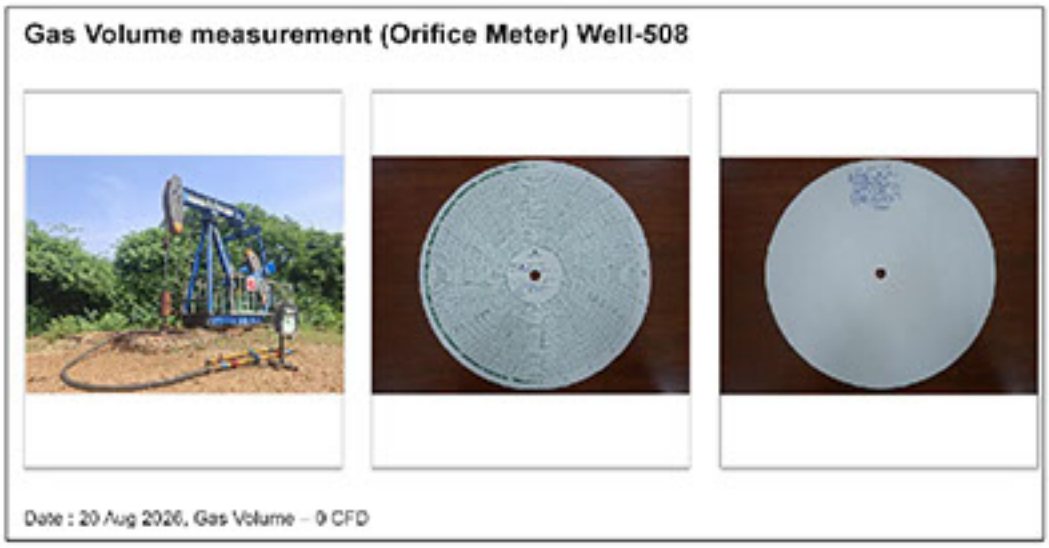
Date : 10 May 2026, Gas Volume – 0 CFD

**Gas Volume measurement (Orifice Meter) Well-321**



Date : 13 Jun 2026, Gas Volume – 0 CFD



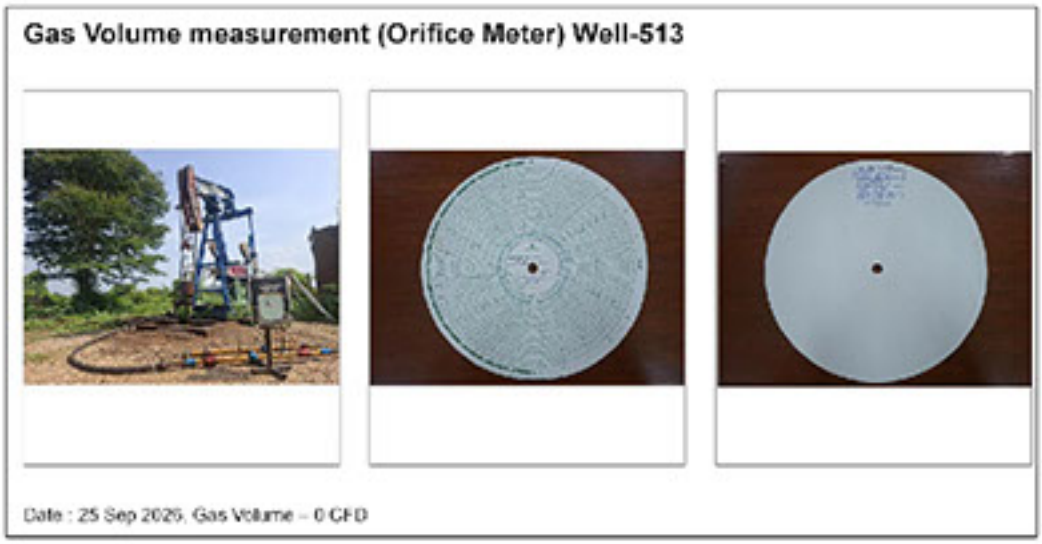




*Figure 44: Gas Venting Wells and Vented Gas Volume Measurement Record*

### 8.12.1 Monitoring of Hydrogen Sulphide ($H_2S$)

Hydrogen Sulphide ($H_2S$) monitoring continued in accordance with the Environmental and Social Monitoring Program and established self-monitoring schedule. Monitoring was conducted at selected potential gas-venting wells to identify potential $H_2S$ exposure and verify that appropriate controls remained effective.

$H_2S$ levels were monitored using a portable multi-gas detector (**VENTIS MX4 Gas Detector**). The instrument is subject to scheduled calibration and functional checks to maintain measurement reliability.

During the reporting period, $H_2S$ monitoring was conducted at **[number] selected wells/locations**. **No $H_2S$ was detected**. Detailed monitoring results are presented in Table 30.

*Table 30: Monitoring Results of the Hydrogen Sulphide ($H_2S$)*

| Sr. No: | Location | Date | Measured Time Duration | $H_2S$ (PPM) | CO (PPM) | $O_2$ % | LEL % |
|---|---|---|---|---|---|---|---|
| 1 | M-349 | 31 August 2026 | 30 sec | 0 | 0 | 20.9 | 0 |
| 2 | M-364 | 31 August 2026 | 30 sec | 0 | 0 | 20.9 | 0 |
| 3 | M-409 | 31 August 2026 | 30 sec | 0 | 0 | 20.9 | 0 |
| 4 | M-268 | 31 August 2026 | 30 sec | 0 | 0 | 20.8 | 0 |
| 5 | M-662 | 01 September 2026 | 30 sec | 0 | 0 | 20.9 | 0 |
| 6 | M-220 | 01 September 2026 | 30 sec | 0 | 0 | 20.9 | 0 |

M- 349 (Near Mal Bae Kone Village)





M-364 (Near Mal Bae Kone Village)







M-409 (Near Mal Bae Kone Village)







M-268 ( Near Nyaung Zin Monastery)



M-662 (Near Mal Bae Kone Village)



M-220 (Near the G-20 Main Road)



*Figure 45: $H_2S$ Monitoring Activities*

# 9. Occupational Health and Safety Performance

## Occupational Health and Safety Management Framework

MPRL E&P maintains an Occupational Health and Safety management framework to protect personnel, prevent work-related injury and ill health, and support safe and environmentally responsible operations.

The Company's occupational health and safety arrangements are implemented with reference to applicable national requirements, Company HSE policies and procedures, and relevant international standards and industry good practices, including **ISO 45001:2018, HSG65, and applicable API requirements**.

Performance is monitored through reactive and proactive HSE indicators, inspections and audits, workforce participation, training and competency activities, incident reporting and investigation, and periodic management review.

## 9.1 HSE Statistics Pyramid

The HSE Statistics Pyramid for the reporting period summarizes reactive and proactive HSE performance, including incidents, near misses, unsafe conditions/actions, CARE Card participation, and other applicable performance indicators.

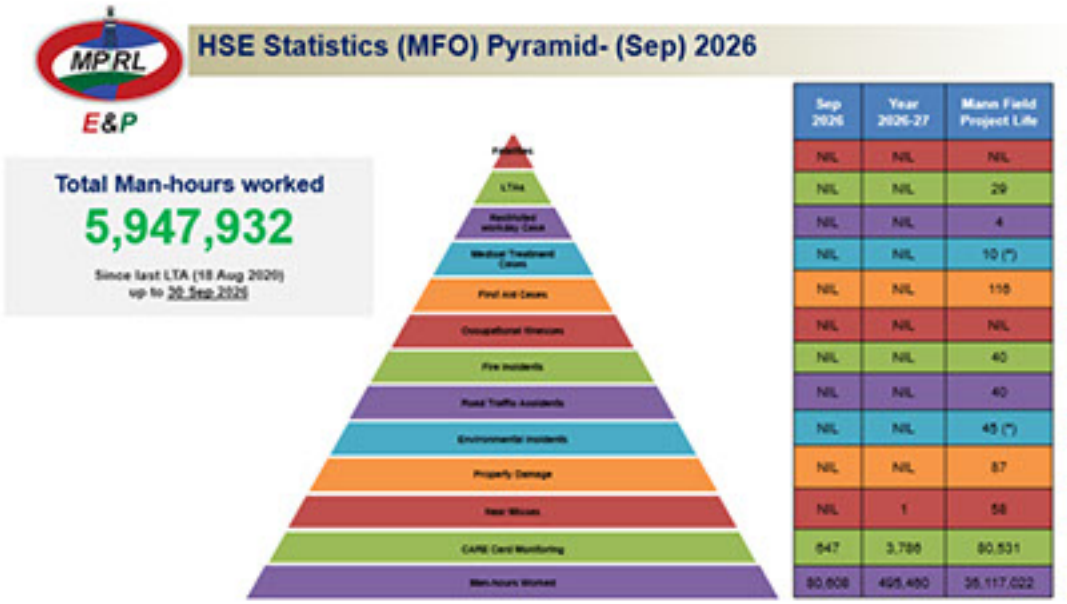



*Figure 46: HSE Statistics Pyramid - Status as of 30 September 2026*

## 9.2 Incident Status

During the reporting period **April–September 2026**, Mann Field operations recorded **one (1) Near Miss case**, with **no personal injury or property damage reported**. No recordable occupational injuries were recorded during the reporting period.

The Near Miss was reported and investigated in accordance with the Company's incident management and investigation requirements. The investigation identified relevant causes and contributing factors, and corrective and preventive actions were established and followed up to reduce the potential for recurrence.

Lessons learned from the event were communicated to relevant personnel to reinforce critical controls, procedural compliance, supervision, communication, and safe work practices.

## 9.3 HSE Audits & Inspections

Routine and targeted HSE audits and inspections continued throughout the reporting period to verify compliance, identify hazards and unsafe conditions, confirm implementation of critical controls, and identify Opportunities for Improvement.

**Permit to Work (PTW) audits** were conducted using established checklists to verify that hazardous activities were appropriately authorized, task-related hazards and controls were identified, and required precautions were implemented at the worksite.

**Weekly Cross-Inspections and bi-weekly Hazard Hunt inspections** were conducted across operational areas, including Pulling Units, GOCS facilities, workshops, warehouse areas, wellsites, and other field locations. These inspections supported proactive hazard identification, peer learning, positive reinforcement, and timely follow-up of identified deficiencies.

**Surprise inspections and behavioral safety observations** were also conducted during routine site visits to verify frontline implementation of HSE requirements and provide immediate coaching and reinforcement to supervisors and crews.

Planned inspections of **lifting gear, hoisting and handling equipment** were conducted to verify equipment condition, certification/status, identification and suitability for continued use. Applicable NDT inspections and colour coding were implemented in accordance with established requirements.

As part of **Working at Height and Slip, Trip & Fall prevention**, ladders, safety harnesses, access arrangements, walkways, and related equipment were inspected to verify their condition and suitability.

**Electrical safety inspections** included checks of electrical equipment, starter boxes, lighting arrangements, electrical cables, grounding/earthing systems, and associated facilities. Periodic earthing-resistance testing was also conducted as planned.

**Chemical-storage inspections** were conducted to verify safe storage arrangements, segregation, container condition, housekeeping, labelling/signage, and availability of applicable safety controls.

**Spill kits and emergency-response equipment** were routinely inspected to verify their availability, condition, accessibility, and readiness. Consumable items were replenished or equipment replaced where required.

**Fire extinguishers, First Aid Kits, emergency eyewash facilities, lifebuoys, emergency-access equipment, safety barriers, and warning signs** were also checked during routine facility inspections. Deficiencies were corrected or communicated for follow-up as appropriate.

Routine facility inspections also covered **tank integrity, walkways, pit barriers, vegetation control, drainage, housekeeping, and access conditions**. Identified deficiencies and OFIs were communicated to responsible personnel, with corrective actions followed up through the established HSE process.

Unannounced alcohol testing continued as part of the Company's fitness-for-work and dry-workplace requirements. During the reporting period, 352 tests were conducted at Mann Field across seven testing rounds, with five positive cases recorded.

Overall, these assurance activities supported early identification of hazards, verification of critical controls, and continual improvement of HSE performance across Mann Field.




*Figure 47: Permit to Work (PTW) Audit*




*Figure 48: Lifting Gear, Hoisting & Handling Equipment Inspection*




*Figure 49: Spill Kit, Ladder, and Safety Harness Inspection*



*Figure 50: Earthing Resistance Testing*



*Figure 51: Chemical Storage Inspection*



*Figure 52: Facility and Safety Equipment Inspection*

## 9.4 HSE Training and Awareness

HSE training, competency development, and workforce awareness continued throughout the reporting period to support safe operations, strengthen understanding of critical controls, and address operational and seasonal HSE risks.

Training and awareness activities were delivered through formal training sessions, refresher training, Toolbox Talks, practical exercises, safety meetings, campaigns, and onsite coaching.

During the reporting period, a total of 1221.5 hours of HSE trainings were completed. Training and awareness activities included, as applicable:

- Permit to Work (PTW) refresher training;
- Safe Lifting and Slinging Practices;
- Electrical Safety and Lockout/Tagout (LOTO) awareness;
- Slip, Trip & Fall Prevention;
- Working at Height safety;
- Heat Stress/Heat Stroke Awareness;
- CARE Card reporting and hazard identification;
- Emergency preparedness and response;
- Spill prevention and response;
- Man-Down/MEDEVAC awareness;
- Practical Stretcher-Handling Training;
- First Aid/medical emergency awareness;

- Defensive Driving and road safety;
- Incident/near-miss lessons learned;
- Safe equipment handling;
- Environmental awareness; and

Practical and task-specific coaching was also provided during field inspections, Hazard Hunts, operational activities, and post-drill debriefings. Supervisors and crews were encouraged to apply Stop Work Authority (SWA), comply with established SOPs/JSAs, avoid shortcuts, and verify critical controls before commencing or continuing work.

Seasonal health awareness was strengthened through the **Heat Stress/Heat Stroke Awareness Campaign**, including hydration, recognition of signs and symptoms, work-rest arrangements, and first-aid response.

Emergency-response competency was reinforced through **muster, spill-response, medical emergency/man-down, and stretcher-handling exercises/training** conducted during the reporting period.



*Figure 53: Inspection Tour of the Technical Manager*






*Figure 54: HSE Outstanding Performer Awarding*



*Figure 55: Best CARE Card Awarding*




*Figure 56: Electrical Safety Training*



*Figure 57: Refresher Training for the M&AS Team*

# SOCIAL PERFORMANCE REPORT

April 2026 – September 2026




## Contributing to Inclusive Growth

while Strengthening Competitive Advantage

# 10. Corporate Social Responsibility

## 10.1 Executive Summary



MPRL E&P is committed to conducting its business responsibly and sustainably, guided by high standards of governance, social responsibility, and environmental stewardship. Through alignment with the United Nations Global Compact (UNGC) and United Nations Sustainable Development Goals (SDGs), the Company integrates sustainability considerations into its operations, decision-making, and stakeholder engagement practices.

During the reporting period (April-September 2026), MPRL E&P continued implementing its Corporate Social Responsibility (CSR) Program across Mann Field

Communities, focusing on infrastructure development, livelihoods, education, healthcare, environmental stewardship, stakeholder engagement, and employee well-being. Through these initiatives, the Company strengthened community resilience, enhanced access to essential services, supported local economic development, and reinforced long-term partnerships with communities, government stakeholders, and employees.

Community Infrastructure Development Program focused on improving access to essential services and strengthening local infrastructure through community-driven and cost-shared initiatives. During the reporting period, projects including drainage improvements, road upgrades, and renovations of educational and community facilities addressed priority community needs, enhanced accessibility, and strengthened community resilience.

Community Livelihood Development Program strengthened agricultural productivity and economic resilience through the Seed Bank Program and the introduction of the Soil Enhancement Program. Farmers received training, technical support, monitoring visits, and access to quality agricultural inputs. Support for tomato, chickpea, sunflower, and other crop cultivation improved farming knowledge and practices, enhanced productivity, promoted sustainable agriculture, and strengthened household income opportunities.

Education Partnership Program expanded access to educational and vocational opportunities through scholarship support for youth from Mann Field Communities and MOGE families. Regular monitoring and engagement supported students' academic progress and course completion, contributing to long-term human capital development.

Community Capacity Building Program enhanced community participation, awareness, and leadership through training programs, knowledge-sharing sessions, educational campaigns, and community engagement initiatives. Activities included soil enhancement training, household waste management and segregation awareness sessions, environmental education, summer training programs, storytelling sessions, reading promotion activities, coaching opportunities, and skills development initiatives. These efforts strengthened local knowledge, encouraged active participation, and empowered community members to contribute to sustainable development.

Community Healthcare Program continued providing free and accessible healthcare services through the Mobile Clinic Program and home visits. Health education initiatives addressed key public health issues, while specialized support included eye health interventions and surgeries for elderly community members, as well as Rabies Awareness Health Talks for schoolchildren and community members. These efforts improved access to healthcare services, increased health awareness, and contributed to better health outcomes.

Environmental Sustainability Program advanced environmental stewardship through the Community-led Waste Management Program and related environmental awareness activities. Key initiatives included community-managed composting projects, household waste management and segregation awareness sessions, community clean-up campaigns, tree-planting activities, and celebrations of World Environment Day and World Cleanup Day. These efforts promoted responsible waste management, increased environmental awareness, and contributed to cleaner and healthier communities.

Stakeholder Engagement and Information Disclosure remained a cornerstone of MPRL E&P's CSR approach. Regular consultations, meetings, and collaborative discussions with community representatives, volunteers, government stakeholders, and MOGE counterparts helped identify priorities, review progress, and strengthen partnerships. Information sharing through newsletters, reports, and other communication channels further promoted transparency, accountability, and constructive stakeholder relationships.

Operational Grievance Mechanism (OGM) continued to function as an effective platform for receiving, addressing, and resolving community concerns. Regular monitoring, communication, and follow-up supported the timely resolution of cases and reinforced trust between MPRL E&P and local stakeholders.

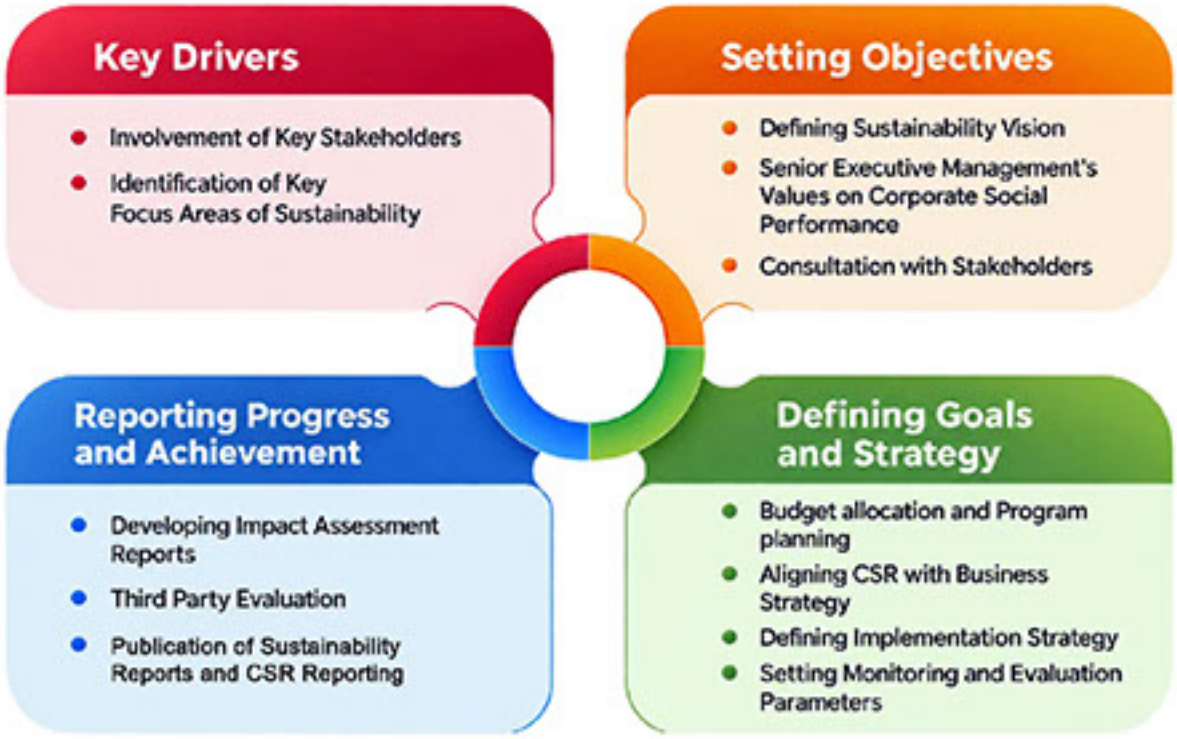
Corporate Philanthropy initiatives complemented the broader CSR Program through contributions to cultural, religious, and community activities, helping strengthen social cohesion and maintain positive community relationships.

MOGE Employee-Centered CSR Program continued supporting employees and their families through initiatives focused on education, healthcare, welfare assistance, skills development, and basic needs support. These interventions enhanced well-being, strengthened access to opportunities, and reinforced MPRL E&P's commitment to inclusive and responsible development.

Overall, MPRL E&P's CSR Program delivered meaningful social, economic, environmental, and community benefits throughout the reporting period. Through sustained investments in infrastructure, livelihoods, education, healthcare, environmental stewardship, stakeholder engagement, and employee well-being, the company continued strengthening community resilience, building local capacity, and creating long-term positive impacts across the Mann Field Communities.

## 10.2. Our Approach & Objectives

We recognize that our business interacts with a range of material sustainability issues, and the effective governance of our potential and actual impacts is essential to operating sustainably. Building on strong foundations, we aspire to create social value that is purposeful, proactive, mutually beneficial, and respectful. We commit to a number of sustainability frameworks, standards, and initiatives, and disclose data both as required by law and according to the requirements of those frameworks, standards, and initiatives.




Our social investment strategy prioritizes the areas where we believe our investments will have the biggest potential to multiply our impact and achieve sustainable results for the 14 communities living near our operations in Mann Field. Our social investment themes have been:

- Community infrastructure
- Education, sanitation and basic health
- Livelihood development and economic empowerment
- Capacity building and partnerships
- Critical human needs and disaster response




We continue to apply a community-led approach to our community initiatives in Mann Field to promote inclusive and participatory decision-making, transparent and accountable village development, and strengthened grassroots governance capacity.

At the department level, we are working to achieve the following goals which are ultimately tied to a set of Corporate Goals with regard to our Mann Field asset:

- Maintain a social license to operate among all key project stakeholders, including communities and regional government authorities.
- Meet all legal requirements in compliance with the Myanmar EIA Procedures in Mann Field.
- Proactively build on our brand as a leading Myanmar national led upstream energy company to ensure both the government and general public are informed about the value we create as a business.

MPRL E&P's sustainability strategy is aligned with the United Nations Sustainable Development Goals. We believe we can make the greatest contribution to:

- SDG 8: Decent Work and Economic Growth
- SDG 12: Responsible Consumption and Production
- SDG 13: Climate Action
- SDG 14: Life Below Water
- SDG 16: Peace, Justice and Strong Institutions
- SDG 17: Partnerships for the Goals



### 10.3. Implementation Mechanism

The CSR & Communications Department implements social investment initiatives through a strategic blend of direct intervention and multi-stakeholder engagement. This involves close collaboration with Mann Field communities, government stakeholders, community-based organizations, and private-sector partners.

The annual CSR Work Program is evidence-based and derived from comprehensive multi-stakeholder needs assessments. For Fiscal Year 2026-2027, an initial budget of USD 268,205 was allocated. As of August 2026, total program expenditure stood at USD 107,786.70, reflecting the Company's continued commitment to addressing community priorities and emerging needs.

Each intervention is governed by a structured framework defining objectives, implementation approaches, and Key Performance Indicators (KPIs). Pilot projects are prioritized to encourage local ownership and long-term sustainability, while technical knowledge transfer complements material support to strengthen community self-reliance.

**Expense Summary of Key Initiatives in Mann Field (as of August 2026)**

| Item No. | Activity | Budget (USD) | Expenditures (USD) |
|---|---|---|---|
| Mann Field Project - Corporate Social Responsibility | | 268,205.00 | 107,786.70 |
| 1 | Community Development | 175,358.00 | 34,453.62 |
| 2 | Partnership in Technical and Vocational Education | 12,297.00 | 3,966.74 |
| 3 | Community Capacity Building | 23,861.00 | 6,827.08 |
| 4 | Public Consultation & Disclosure | 13,859.00 | 2,277.67 |
| 5 | Media Monitoring & Engagement | 12,603.00 | 4,527.20 |
| 6 | UN Global Compact Annual Contribution | 1,250.00 | 00.00 |
| 7 | AVPN Annual Contribution | 1,200.00 | 750.00 |
| 8 | MOGE Employee-Centered CSR Initiatives | 27,777.00 | 16,727.75 |
| 9 | Non-Budget | 0.00 | 38,256.64 |

## 10.4. Our Performance in Numbers (Fiscal Year 2026-2027)



## 10.5. Monthly Performance Highlights

This section presents key operational and social performance highlights for the first half of the Fiscal Year 2026-2027, reflecting our ongoing commitment to responsible investment and transparent engagement across Mann Field Communities.

### Key Highlights for the Month of April

- Conducted crop production monitoring, data collection, and technical support for farmers cultivating chickpea, sunflower, and tomato under the Seed Bank Program.
- Facilitated seed loan collection and coordinated the seed transfer process among Seed Bank Committees in Mann Field Communities.
- Provided scholarship support to 12 youths from Mann Field Communities.
- Accompanied youths from Mann Field Communities to attend the Batch-14 entrance examination at No.5 ITC (Magway).
- Launched Basic Computer Skills Training and monitored the progress of two Basic Art Classes, one Refresher Art Class, and a Flower Button Handmade Class under the Summer Program.
- Delivered free healthcare services to patients under the Mobile Clinic Program.
- Conducted meetings with community elders and family members to obtain consent prior to eye surgery procedures.
- Monitored regular waste collection services and supported community cleanup activities led by the Trash Hero Minbu Chapter across Mann Field Communities.
- Carried out routine maintenance of community-managed compost station pilot projects in Mann Kyoe, Nan U, and Pauk Kone Villages, and expanded the initiative to Aye Mya Village.
- Distributed Insight! and Doh Mann Myay newsletters to stakeholders in Mann Field, Minbu, and Magway.
- Engaged with a representative from Doe Kyay Latt Co., Ltd. to discuss soil preparation activities for upcoming agricultural initiatives in Mann Field Communities.
- Contributed MMK 500,000 to the Thingyan Water Festival organized by the Magway Regional Government and Minbu District General Administration Department, MMK 750,000 for the Pahtan Donation to the Mann Field Dhamayone, and MMK 500,000 toward MOGE staff welfare activities.
- Maintained and regularly updated MPRL E&P's website as a key communication platform.

## Key Highlights for the Month of May

- Conducted community infrastructure discussions and site assessments with Village Administrators and Village Development Committees in Aye Mya, Pauk Kone, Ma Kyee Chaung, Mann Kyoe, and Let Pan Ta Pin Villages.
- Organized a Soil Enhancement Knowledge-Sharing Session in collaboration with Doe Kyay Latt Co., Ltd attended by approximately 250 farmers and community members.
- Facilitated scholarship agreement signing and institutional enrollment for nine students from Mann Field Communities at Batch-14 of No.5 ITC (Magway).
- Continued providing scholarship support to a total of 21 youths from Mann Field Communities studying at technical institutes and universities.
- Concluded the Summer Program with a closing ceremony attended by approximately 130 participants, featuring an exhibition of trainees' artwork and handmade products, as well as certificate and award presentations.
- Delivered free healthcare services to patients through mobile clinic sessions across seven community locations.
- Facilitated 82 eye surgeries for elderly community members and coordinated transportation and post-operative follow-up care.
- Monitored regular waste collection services and supported five Trash Hero Minbu cleanup activities.
- Continued monitoring and maintenance of community-managed compost stations in Mann Kyoe, Nan U, Pauk Kone, and Aye Mya Villages.
- Received and resolved one OGM case, bringing the cumulative total to 194 cases.
- Organized the Second Biannual CSR Progress Review Meeting for FY 2025-2026 with MOGE officials in Nay Pyi Taw and conducted the Biannual CSR and HSE Progress Update Meeting in Mann Field Communities.
- Maintained and regularly updated MPRL E&P's website as a key communication platform.

## Key Highlights for the Month of June

- Completed the extension of the concrete drainage system at Ma Kyee Chaung Ward and the construction of a motorcycle parking shelter at Pauk Kone School.
- Organized a two-day training on Basic Agriculture, Organic Fertilizer Production, Soil Conservation, and Climate-Smart Agriculture.
- Provided scholarship support to 23 youths from Mann Field Communities.
- Celebrated World Environment Day with Mann Field Communities by organizing a climate change knowledge-sharing session attended by 213 participants.
- Organized the award ceremony for the Curious Minds quiz program to promote reading habits among children and youths in Mann Field Communities.
- Participated in the Mann Oil Field exhibition booth at the School Library Development and Reading Promotion Festival and contributed MMK 2,000,000 to the Information and Public Relations Department (Minbu District) to sponsor refreshments for students.
- Contributed a monetary donation to support the Patthana Recitation Ceremony in Mann Kyoe Village.
- Provided MMK 40,000,000 to the MOGE General Manager (Mann Field) for rice and cooking oil assistance under the MOGE Employee-Centered CSR Program.
- Facilitated eye surgeries for three community elders and provided post-operative follow-up care under the Eye Health Program.
- Delivered free healthcare services to patients through clinic sessions under the Mobile Clinic Program.
- Addressed one OGM case from Mei Bayt Kone Village.
- Monitored regular waste collection services and supported cleanup activities led by the Trash Hero Minbu Chapter across Mann Field Communities.
- Conducted regular monitoring and maintenance of community-managed compost station pilot projects in Mann Field.
- Published Insight! Newsletter (Issue 47) and Doh Mann Myay Newsletter (Issue 21) on the company's digital platforms.
- Submitted the 9th Communication on Progress (CoP) to the United Nations Global Compact (UNGC) and published it across all corporate communication channels.
- Continued monitoring and updating the MPRL E&P website as a key corporate communication platform.

## Key Highlights for the Month of July

- Completed the construction of a concrete approach road and drainage system at Aye Mya Village.
- Completed a concrete slab road near the Let Pan Ta Pin Village Damayone.
- Completed the construction of a concrete culvert at Mann Kyoe Village.
- Organized community tree-planting initiatives, successfully planting 80 trees and flowering plants.
- Initiated a large-scale community cleanup campaign, collecting 10.38 metric tons of plastic waste.
- Provided monthly scholarships to 23 youths from Mann Field Communities and MOGE families, and sponsored graduation ceremony attendance for two Government Technical High School (Magway) students.
- Hosted an interactive storytelling session for 146 children in Mann Kyoe Village.
- Facilitated the ECD-Magway team's visit to the community cleanup site in Aye Mya Village.
- Delivered free healthcare services to patients through mobile clinic sessions, including one home visit.
- Launched the Rabies Health Talk Series at mobile clinics and schools.
- Addressed and closed an OGM case from Auk Kyaung Village.
- Monitored routine waste collection services and supported cleanup activities led by the Trash Hero Minbu Chapter.
- Maintained and monitored community-managed compost station pilot projects across the Mann Field.
- Distributed the Doh Mann Myay and Insight! newsletters, alongside the 1st Quarterly CSR Progress Report, to local stakeholders.
- Continued updating the MPRL E&P corporate website to ensure transparent and timely communication.

## Key Highlights for the Month of August

- Completed the renovation of the clinic building at Lay Eain Tan Village.
- Completed the construction of a concrete road slab at the entrance of Let Pan Ta Pin School.
- Supported Let Pan Ta Pin School with 26 flowering plants and pots.
- Completed a large-scale community cleanup campaign across Mann Field Communities, engaging 694 participants and collecting 12.76 metric tons of plastic waste in August.
- Conducted tomato cultivation monitoring, soil preparation, and other agricultural support through the Seed Bank Program, including monitoring coordination with Doe Kyay Latt Co., Ltd. regarding the distribution of agricultural lime and gypsum to farmers.
- Provided monthly scholarships to 23 youths from Mann Field Communities and MOGE families.
- Hosted a storytelling session, "The Benefits of Reading," at Aye Mya Community Center.
- Delivered free healthcare services to 632 patients across 20 clinic sessions through the Mobile Clinic Program, including one home visit.
- Completed the Rabies Health Talks Series at mobile clinic locations and schools, engaging a total of 1,695 participants, including patients, students, and teachers, in August.
- Monitored routine waste collection services and supported cleanup activities led by the Trash Hero Minbu Chapter.
- Continued waste management and segregation awareness sessions with small groups of households across Mann Field Communities.
- Maintained and monitored community-managed compost station pilot projects across Mann Field.
- Addressed and closed an OGM case from Mei Bayt Kone Village.
- Provided MMK 5,000,000 to the MOGE Director (Mann Field) to support the purchase of a marching drum set for Eain Yar School, MMK 10,000,000 to support vocational and life skills training for MOGE employees and their families, and MMK 2,200,000 as a Sabbath Day meal donation to Mann Damayone (MOGE) for guests and worshipers.
- Continued updating the MPRL E&P corporate website to ensure transparent and timely communication.

## Key Highlights for the Month of September

- Completed the installation of a water distribution pipeline along the village's main streets in Mei Bayt Kone Village.
- Conducted annual water quality tests for 11 schools in Mann Field Communities before and after treatment by filtration units.
- Monitored routine cleaning of water filtration units and assessed the operational condition of handwashing stations across schools in Mann Field Communities.
- Organized a World Cleanup Day celebration with 456 community members, including an awareness session on food waste, a composting demonstration, the expansion of compost stations, and the installation of bamboo-woven plastic waste bins within Mann Field Communities.
- Held small-group household knowledge-sharing sessions on waste management and waste segregation.
- Conducted a socio-economic survey in Mann Field Communities.
- Conducted farmer cultivation activities and provided ongoing support as needed.
- Provided monthly scholarships to 23 youths from Mann Field Communities and MOGE families.
- Hosted a storytelling session, "The Secret Map of the Little Red Ant," at Nan U Community Center.
- Delivered free healthcare services to patients through mobile clinic sessions under the Mobile Clinic Program.
- Addressed one OGM case from Mei Bayt Kone Village.
- Monitored regular waste collection services and supported cleanup activities led by the Trash Hero Minbu Chapter across Mann Field Communities.
- Conducted regular maintenance of community-managed compost station pilot projects in Mann Kyoe, Nan U, Pauk Kone, and Aye Mya Villages.
- Contributed MMK 40,000,000 to support rice and cooking oil distribution for MOGE employees for the second time this fiscal year.
- Published Insight! Newsletter (Issue 48), Doh Mann Myay Newsletter (Issue 22), and the Community Grievance Mechanism Reports for the first biannual of Fiscal Year 2026–2027 in both English and Myanmar languages.
- Maintained and regularly updated the MPRL E&P website as a key communication platform.

## 10.6. Social Performance Updates (April - September 2026)

### 10.6.1 Community Infrastructure Development

MPRL E&P remains committed to strengthening community infrastructure across Mann Field by ensuring that facilities are appropriately located, responsive to current needs, and adaptable to evolving community priorities. The company emphasizes community participation to build local capacity in planning, design, implementation, and maintenance, while maximizing the use of locally available resources. Through this participatory approach, the company works closely with Village Administrators, Village Development Committees, and local residents to identify infrastructure priorities, ensuring that projects address genuine local needs and promote community ownership and long-term sustainability.

Between April 2026 and September 2026, the CSR Program implemented a wide range of infrastructure initiatives across Mann Field communities, focusing on water access, sanitation, education facilities, and community spaces.

**Strategic Progress Highlights**

**April 2026**

- Monitored the water filtration units and handwashing stations across schools in the Mann Field Communities, and monitored the community's cleaning of solar panels supported by MPRL E&P's CSR Program in the Mann Field Communities.

**May 2026**

- Conducted discussions and site assessments with Village Administrators and Village Development Committees from Aye Mya, Pauk Kone, Ma Kyee Chaung, Mann Kyoe, and Let Pan Ta Pin villages to identify priority infrastructure needs for the upcoming fiscal year.

**June 2026**

- **15 June:** Completed the extension of the existing 700-foot concrete drainage system at Sar Thin Kyaung Street, Ma Kyee Chaung Ward by constructing an additional 200-foot-long concrete drainage section (200 ft × 1.5 ft × 3 ft). MPRL E&P contributed MMK 3,977,100, and the community contributed MMK 438,000.
- **22 June:** Completed the construction of a motorcycle parking shelter (20 ft × 10 ft × 9 ft) at the Basic Education Middle School in Pauk Kone Village. MPRL E&P contributed MMK 3,624,600, and the community contributed MMK 393,400.

**July 2026**

- **09 July:** Completed a concrete approach road (100 ft x 11 ft) and drainage system (200 ft x 1 ft x 1 ft) at Aye Mya village. MPRL E&P contributed MMK 6,913,100, and the community contributed MMK 1,247,000.
- **13 July:** Completed a concrete slab road (50 ft x 18 ft) near the Let Pan Ta Pin Village Damayone. MPRL E&P contributed MMK 5,314,600, and the community contributed MMK 565,000.
- **14 July:** Partnered with local communities for a tree-planting initiative. Together with residents, 80 trees, bamboo, and flowering plants were planted and fenced at Pauk Kone and Ywar Thar villages, as well as at schools in Pauk Kone and Let Pan Ta Pin.
- **22 July:** Completed a concrete culvert (46 ft x 15 ft) at Mann Kyoe village. MPRL E&P contributed MMK 7,666,600, and the community contributed MMK 1,890,000.

**August 2026**

- **18 August:** Completed the renovation of the clinic building at Lay Eain Tan Village, including the installation of a ceiling (20 ft x 12 ft), a sunshade (30 ft x 10 ft), wall painting for the interior and exterior of the building, ceiling fans, and lighting installations. MPRL E&P contributed MMK 7,141,750, and the community contributed MMK 711,800.
- **26 August:** Completed the construction of a concrete road slab at the entrance of Let Pan Ta Pin School (L 170 ft x W 10 ft x D 6 inches). MPRL E&P contributed MMK 3,984,600, and the community contributed MMK 400,000.

**September 2026**

- **19 September:** Conducted the annual water quality test for (11) schools in Mann Field communities.
- **30 September:** Completed the installation of a water distribution pipeline (3,842 ft) along the main streets of Mei Bayt Kone Village.

Through these community-driven and cost-shared infrastructure initiatives, the Program improved access to safe water, sanitation, education, healthcare, and community facilities across Mann Field Communities. The projects strengthened community participation and ownership while enhancing accessibility, safety, and resilience, contributing to improved quality of life and more sustainable community development.



*Figure 58: Conducting Community Infrastructure Site Assessments and Stakeholder Consultations in Mann Field Communities*

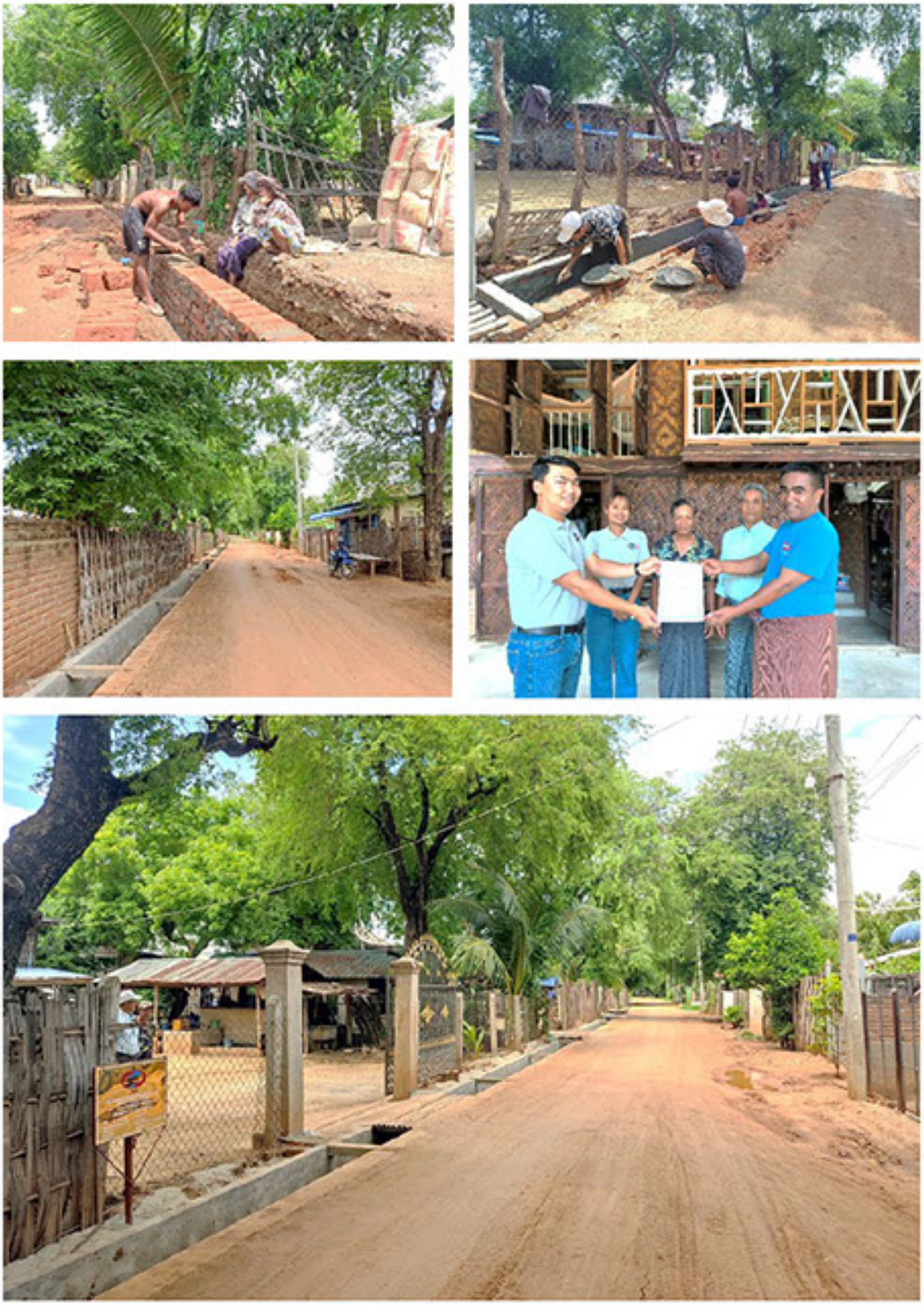


*Figure 59: Completing the Concrete Drainage System Extension at Ma Kyee Chaung Ward*



*Figure 60: Completing the Motorcycle Parking Shelter at Pauk Kone School*



*Figure 61: Completing the Concrete Approach Road and Drainage System at Aye Mya Village*



*Figure 62: Completing the Concrete Culvert at Mann Kyoe Village*



*Figure 63: Completing the Concrete Slab Road near the Let Pan Ta Pin Village Damayone*



*Figure 64: Completing the Clinic Building Renovation at Lay Eain Tan Village*



*Figure 65: Completing the Concrete Road Slab at the Entrance to Let Pan Ta Pin School and Providing Flowering Plants and Pots*



*Figure 66: Completing Water Pipeline Installation Along Main Streets in Mei Bayt Kone Village*



*Figure 67: Conducting Annual Water Quality Testing at Schools in Mann Field Communities*



*Figure 68: Conducting Socio-Economic Surveys in Mann Field Communities*











*Figure 69: Organizing Community Tree Planting Activities in Mann Field Communities*

### 10.6.2 Community Livelihood Development

MPRL E&P's CSR Program continued promoting sustainable livelihoods through targeted interventions in agriculture development. The Program focused on enhancing agricultural productivity, strengthening household food security, improving farmers' access to resources and technical knowledge, and building resilience through sustainable and climate-smart farming practices. Through the Seed Bank Program and the introduction of the Soil Enhancement Program, MPRL E&P continued supporting farmers to improve productivity, reduce production costs, enhance soil health, and strengthen long-term livelihood sustainability.

Between April 2026 and September 2026, the CSR Team conducted continuous monitoring, technical support, and coordination activities across Mann Field communities.

**Strategic Progress Highlights**

- **Supporting Farmers through the Seed Bank Program**

  The CSR Team supported 37 farmers through the Seed Bank Program and facilitated crop production monitoring, harvesting assessments, seed return verification, seed loan collection, and seed redistribution activities. Close coordination with Seed Bank Committees strengthened community ownership and ensured effective program implementation.

- **Strengthening Agricultural Input Management**

  To support seasonal cultivation activities, the Program facilitated the procurement and distribution of agricultural inputs, including plastic mulches and quality seeds through the Seed Bank Committee, helping farmers improve crop establishment and productivity.

- **Introducing the Soil Enhancement Program**

  In May 2026, MPRL E&P launched the Soil Enhancement Program through a knowledge-sharing session attended by approximately 250 farmers and community members. The session promoted sustainable farming methods, soil fertility improvement, and the use of bio-agricultural inputs while introducing the program's objectives and year-long implementation plan.

- **Expanding Technical Training and Capacity Building**

  In June 2026, a two-day hands-on Soil Enhancement Training was conducted for 39 farmers. The training covered basic agriculture, organic fertilizer production, soil conservation, climate-smart agriculture, pest and disease management, soil nutrient assessment, fertilizer application, seed selection and

storage, and post-harvest management. Participants also gained practical experience in soil testing, organic fertilizer production, and sustainable farming techniques.

- **Enhancing Climate-Smart and Sustainable Agriculture Practices**

  The Program promoted climate-smart agriculture by improving farmers' understanding of soil health management, organic fertilizer use, soil conservation, and sustainable crop production practices. These efforts aimed to strengthen agricultural resilience and support long-term productivity.

- **Continuous Monitoring and Technical Assistance**

  Throughout the reporting period, the CSR Team conducted regular monitoring visits and provided technical support for soil preparation, crop cultivation, and seasonal farming activities. Special attention was given to tomato cultivation, with monitoring of planting activities and early-stage crop development to optimize yields.

- **Strengthening Partnerships for Agricultural Development**

  The CSR Team continued collaborating with Doe Kyay Latt Co., Ltd. to support agricultural capacity development and monitored the distribution of agricultural lime and gypsum to farmers, helping improve soil quality and productivity.

- **Improving Knowledge Sharing and Community-Based Approaches**

  Through training programs, field monitoring, and close collaboration with farmers and Seed Bank Committees, the Program strengthened knowledge sharing, encouraged farmer participation, enhanced local decision-making, and reinforced the long-term sustainability of community-based agricultural initiatives.

By strengthening farmers' access to quality inputs, technical knowledge, and climate-smart agricultural practices, the Program enhanced agricultural productivity, improved soil health, supported household income generation, and contributed to more resilient and sustainable livelihoods across Mann Field Communities.



*Figure 70: Distributing Plastic Mulches to Farmers in Mann Kyoe Village under the Seed Bank Program*



*Figure 71: Monitoring Crop Production, Collecting Data, and Facilitating Seed Returns and Redistribution Under the Seed Bank Program*



*Figure 72: Organizing a Soil Enhancement Knowledge-Sharing Session for Mann Field Communities*



*Figure 73: Organizing a Two-Day Hands-On Agricultural Training for Farmers in Mann Field Communities*



*Figure 74: Monitoring Farmers' Preparations for Tomato Cultivation*



*Figure 75: Monitoring Soil Preparation and Tomato Cultivation Activities*

### 10.6.3 Educational Partnership Program

MPRL E&P's CSR Program continues to invest in human capital development by expanding access to higher education and vocational training opportunities for youth from Mann Field Communities and MOGE families. Through scholarship support, academic monitoring, and student engagement, the Program helps young people pursue educational and career pathways that enhance their employability, strengthen technical competencies, and contribute to long-term community development. The Program also provides support for enrollment, training participation, and student welfare to help ensure successful learning outcomes.

During the reporting period, the CSR Program supported 23 youths across multiple institutions, including No. 5 Industrial Training Centre (ITC - Magway), State Agriculture and Livestock Institute (SALI - Pwint Phyu), University of Medicine (Magway), Yezin Agricultural University, Myanmar Mercantile Marine College, and the University of Forestry and Environmental Science (Yezin). The CSR Team continued facilitating student enrollment, scholarship administration, academic monitoring, and welfare support throughout the reporting period.

**Strategic Progress Highlights**

- **Expanding Access to Higher Education and Vocational Training**

  In April 2026, the Program supported 12 students pursuing higher education and vocational studies. Following the successful intake of Batch-14 trainees at No. 5 ITC (Magway), scholarship support expanded to 21 students in May and further increased to 23 students in June with the inclusion of two students at the University of Forestry and Environmental Science (Yezin).

- **Supporting Vocational Training Enrollment and Career Development**

  The CSR Team facilitated entrance examinations, enrollment processes, scholarship agreements, and logistical arrangements for applicants to No. 5 ITC (Magway). Ten students from Mann Field Communities successfully passed the Batch-14 entrance examination, with scholarship support provided through both the Community CSR Program and the MOGE Employee-Centered CSR Program.

- **Continuous Academic Monitoring and Student Engagement**

  Throughout the reporting period, the CSR Team maintained regular communication with scholarship recipients and conducted monitoring visits to educational institutions to assess students' academic progress, welfare, and training performance. These efforts helped ensure continued engagement and successful participation in their respective programs. By the end of September 2026, students from the State Agriculture and Livestock Institute (SALI - Pwint

Phyu) and Yezin Agricultural University successfully completed their academic year examinations.

- **Strengthening Student Welfare Support**

  Additional support was provided based on student needs assessments. This included providing a laptop to students at the University of Forestry and Environmental Science (Yezin) to support their academic work and increasing meal allowances for the Yezin Agricultural University student. Regular follow-up visits helped identify and address students' educational and welfare needs.

- **Supporting Student Achievement and Progression**

  The Program provided financial assistance for two scholarship recipients from Mann Field Communities to attend their graduation ceremony after completing studies at Government Technical High School (Magway). The graduates subsequently pursued further education opportunities, reflecting the Program's contribution to continued learning and career advancement.

- **Strengthening Human Capital Development**

  Through scholarship assistance, vocational training support, and continuous mentoring, the Program enabled young people to pursue higher education and technical skills development in agriculture, health sciences, industrial trades, maritime technology, and environmental sciences, helping prepare a skilled future workforce for local and national development.

Through scholarship assistance, academic monitoring, and student welfare support, the Program expanded access to higher education and vocational training opportunities, strengthened human capital development, and helped prepare skilled young people for future employment and leadership roles.




*Figure 76: Supporting Youths from Mann Field Communities to Attend the Batch-14 Entrance Examination at No. 5 ITC (Magway)*




*Figure 77: Providing Scholarship Support to Youths from Mann Field Communities and MOGE Families*




*Figure 78: Monitoring the Academic Progress of Scholarship Beneficiaries*

### 10.6.4 Community Capacity Building

Community capacity building is a key component of MPRL E&P's CSR Program, aimed at strengthening local knowledge, skills, leadership, and community participation. Through training programs, awareness activities, educational initiatives, and creative learning opportunities, the Program empowers children, youth, women, and community members to develop practical skills, foster lifelong learning, and contribute to sustainable community development. These efforts promote self-reliance, social cohesion, environmental awareness, and community resilience across the Mann Field Communities.

Between April and September 2026, the CSR Team implemented a range of capacity building, educational, and awareness initiatives designed to enhance creativity, technical skills, environmental stewardship, and community engagement.

**Strategic Progress Highlights**

- **April 2026 – Summer Program Implementation**

  The CSR Team implemented several training activities under the Summer Program, creating opportunities for children, youth, and women to participate in educational, artistic, and vocational learning activities. A total of 77 trainees participated in:

  - Two Basic Art Classes
  - One Refresher Art Class
  - One Flower Button Handmade Class
  - One Basic Computer Skills Training Program

  The art classes were conducted in Mei Byat Kone, Mann Kyoe, and Kyar Kan villages, engaging 49 children in creative learning activities. The Flower Button Handmade Class, held at Nan U Community Center, provided practical livelihood skills to 15 women trainees. In partnership with MCC (Minbu), a Basic Computer Skills Training Program was conducted at Aye Mya Community Center for 13 youths, enhancing their digital literacy and employability skills.

- **May 2026 – Summer Program Completion**

  The Summer Program concluded with a Closing Ceremony held on 16 May 2026 at Auk Kyaung Pagoda, attended by approximately 130 participants, including trainees, trainers, parents, Community Volunteers, Village Development Committee members, and CSR Team members.

  The event featured exhibitions showcasing artworks and handmade products created during the training programs. Certificates of completion and

outstanding achievement awards were presented to participants, recognizing their efforts and encouraging continued learning and personal development.

- **June 2026 – Environmental Awareness and Reading Promotion**

  In collaboration with the HSE Team, the CSR Team celebrated World Environment Day 2026 through a climate change knowledge-sharing session held at Auk Kyaung Monastery. The event engaged 213 participants from Mann Field Communities and increased awareness of climate change, environmental responsibility, waste management, and sustainability practices. Interactive discussions, quizzes, and a Commitment Tree activity encouraged participants to adopt environmentally responsible behaviors.

  During the month, the CSR Team also concluded the Curious Minds Quiz Program, a reading-promotion initiative designed to encourage continuous learning among children and youth. The program attracted 38 participants, with five winners recognized during an award ceremony held on 13 June 2026.

  Additionally, the CSR Team participated in the School Library Development and Reading Promotion Festival organized by the Information and Public Relations Department, Minbu District. Through the Mann Oil Field exhibition booth, the team showcased CSR initiatives and educational materials while supporting the promotion of reading and learning among students.

- **July 2026 – Launch of the Creative Learning Program**

  To promote lifelong learning and personal development among children and youth, the CSR Team launched the Creative Learning Program. As part of the initiative, a storytelling session entitled *"The Saviors of the Magic Forest"* was conducted at Mann Kyoe Community Center on 16 July 2026.

  The event attracted 154 children and provided an engaging platform for participants to strengthen communication skills, creativity, imagination, teamwork, empathy, and resilience through interactive storytelling and learning activities.

- **August and September 2026 – Continued Creative Learning Activities**

  Under the Creative Learning Program, the CSR Team conducted storytelling sessions titled *"The Benefits of Reading"* at Aye Mya Community Center, in August, engaging 45 children to encourage reading habits and lifelong learning among children. Participants were divided into groups to read selected books and discuss the lessons and values learned from the stories.

  In September, a storytelling session titled "*The Secret Map of the Little Red Ant*" was conducted at Nan U Community Center, engaging 59 children. The activity

continued promoting literacy, critical thinking, and an appreciation for reading while creating enjoyable learning opportunities for local children.

The CSR Team celebrated World Cleanup Day 2026 by conducting an awareness session on food waste at Mann Kyoe Monastery. The event engaged 456 participants from Mann Field communities, including schoolchildren, parents, and teachers. A composting demonstration at Mann Kyoe School, the expansion of compost stations in Mann Kyoe Village, and the installation of bamboo-woven plastic waste bins across 13 Mann Field communities were also carried out, aiming to reduce and manage food waste while raising public awareness of its environmental impacts.

The Program strengthened knowledge, practical skills, environmental awareness, and community participation among children, youth, women, and community members, contributing to greater self-reliance, lifelong learning, and community resilience.











*Figure 79: Organizing Basic and Refresher Art Classes for Children in Mann Field Communities*



*Figure 80: Organizing a Flower Button Handmade Class for Women in Mann Field Communities*



*Figure 81: Organizing Basic Computer Skills Training for Youths in Mann Field Communities*













*Figure 82: Organizing the Summer Program Closing Ceremony*













*Figure 83: Celebrating World Environment Day in Mann Field Communities*




*Figure 84: Organizing an Award Ceremony for Winners of the Curious Minds Quiz Program*














*Figure 85: Showcasing Mann Field CSR Initiatives at the School Library Development and Reading Promotion Festival*



*Figure 86: Organizing Storytelling Sessions at Mann Kyoe, Aye Mya, and Nan U Community Centers*



*Figure 87: Organizing World Cleanup Day in Mann Field Communities (Knowledge Sharing on Food Waste and Composting Demonstration)*



*Figure 88: Organizing World Cleanup Day in Mann Field Communities (Expansion of Compost Stations and Installation of Plastic Waste Bins)*

### 10.6.5 Community Healthcare Program

MPRL E&P's Mobile Clinic Program has been a core component of the CSR initiatives in Mann Field since October 2018, providing free healthcare services and health education to underserved populations, including the elderly, women, and children. The Program is staffed by MPRL E&P's Camp Doctors, CSR Field Staff, and Community Volunteers, and aims to increase access to reliable medical care while promoting healthy practices within local communities.

Between April and September 2026, the Mobile Clinic Program continued operating across seven rotating locations in Mann Field, delivering free healthcare services and community-based health education.

**Strategic Progress Highlights**

- **Mobile Clinics Operation and Home Visits**

  The program continued to deliver free healthcare services across seven rotating community locations, reaching a cumulative total of 31,833 patients through 1,075 clinic sessions by September 2026. Services included routine consultations, treatment, follow-up care, and health education for community members, particularly elderly people, women, and children. The team also conducted home visits and follow-up care for vulnerable patients and elderly residents.

- **Community Eye Health Program**

  The CSR Program implemented the third phase of the Community Eye Health Program. Preliminary eye tests were completed for 117 patients, including schoolchildren and elders aged 60 and above, in March, with immediate care provided as needed, such as eyeglasses, supplements, and laser treatments. From April onward, the program carried out surgical interventions by consulting with community elders and family members to identify eligible patients and obtain informed consent before procedures. It also coordinated patient registration, transportation between Mann Field and Minbu Hospital, and post-operative follow-up examinations. A total of 85 eye surgeries, including cataract, glaucoma, and corneal scraping procedures, were successfully facilitated for elderly community members. The program improved access to specialized eye care services and supported patient recovery through continued monitoring and follow-up care.

- **Health Education and Awareness**

  The Rabies Health Talk Series was implemented at schools and mobile clinic locations, led by MPRL E&P's Camp Doctor. A total of 18 awareness sessions were conducted, reaching 2,226 participants, including students, teachers, and

community members. The sessions promoted awareness of rabies causes, symptoms, prevention measures, emergency responses to animal bites and scratches, and the importance of timely medical treatment. Key health messages were reinforced through interactive discussions, question-and-answer sessions, and educational incentives for participating students.

By providing free healthcare services, specialized eye care support, and preventive health education, the Program improved access to healthcare, increased health awareness, and contributed to better health outcomes for vulnerable community members.



*Figure 89: Delivering Mobile Clinic Services and Conducting Home Visits in Mann Field Communities*

## Number of Patients (21 February 2022 - 24 September 2026)

| Village | Session | Male | Female | Total Number of Patients |
|---|---|---|---|---|
| Kyar Kan | 216 | 1,557 | 5,090 | 6,647 |
| Kywe Cha | 217 | 1,819 | 4,945 | 6,764 |
| Lay Eain Tan | 220 | 1,575 | 4,899 | 6,474 |
| Let Pan Ta Pin | 197 | 1,161 | 4,122 | 5,283 |
| Aye Mya | 100 | 738 | 2,494 | 3,232 |
| Nan U | 102 | 665 | 2,010 | 2,675 |
| Ywar Thar | 23 | 236 | 522 | 758 |
| **Total** | **1,075** | **7,751** | **24,082** | **31,833** |

## Patients by Age Group



**Children (Up to 5)**
**946**
**3%**



**Senior Citizens (65 and above)**
**11,047**
**35%**



**Others (Age between 6-64 years)**
**19,840**
**62%**

## Patients by Gender



**Male**
**7,751**
**24%**



**Female**
**24,082**
**76%**




## Number of Home Visit Patients

| | |
|---|---|
| FY 2022-2023 | 22 |
| FY 2023-2024 | 10 |
| FY 2024-2025 | 4 |
| FY 2025-2026 | 2 |
| FY 2026-2027 | 2 |



## Number of MOGE (Staff and Relatives) Patient Visit

| | |
|---|---|
| FY 24-25 | 85 |
| FY 25-26 | 42 |
| FY 26-27 | 15 |

*Figure 90: Statistics of Patients' Visit to Mobile Clinics around Mann Field*



*Figure 91: Organizing Eye Health Programs for Elderly Community Members in Mann Field Communities*




*Figure 92: Facilitating Eye Surgery Procedures for Elderly Community Members*





*Figure 93: Organizing Rabies Health Talks Sessions at Schools and Mobile Clinic Locations in Mann Field Communities*

### 10.6.6 Community-led Waste Management Program

MPRL E&P's Community-led Waste Management Program promotes sustainable waste practices across Mann Field Communities through waste reduction, proper waste management practices, community clean-up activities, and composting initiatives across Mann Field Communities. Since Fiscal Year 2020–2021, the Program has upgraded waste collection operations, including the introduction of a larger vehicle to accommodate growing participation and increased waste volumes. By combining awareness-raising, volunteer participation, community-managed compost stations, and practical waste management solutions, the program aims to create cleaner and healthier communities while fostering long-term environmental stewardship.

Between April and September 2026, the CSR Team continued supporting community-led waste management initiatives through regular waste collection monitoring, large-scale cleanup campaigns, operation and maintenance of community-managed compost stations, waste management awareness activities, and volunteer recognition under the Trash Hero Cleanup Challenge Program.

**Strategic Progress Highlights**

- **Community Cleanup and Waste Collection Activities**

  The CSR Team continued to monitor and support community-led waste collection services across Mann Field Communities to ensure effective operations and strong community participation. During the reporting period, 23 Trash Hero Minbu cleanup activities were supported, engaging 598 volunteers and removing approximately 605 kilograms of waste from local communities, contributing to cleaner public spaces and strengthening environmental stewardship.

  Large-scale community cleanup campaigns were organized across Mann Field communities, mobilizing 1,072 community members and removing approximately 23.14 metric tons of waste. Awareness signboards were installed and loudspeaker announcements were used during the campaigns to promote proper waste segregation and environmental responsibility. Through collaboration with Village Development Committees and community volunteers, the program helped promote cleaner public spaces and strengthen community ownership of environmental conservation efforts.

- **Community-Managed Compost Station Project**

  The CSR Team continued to monitor, maintain, and operate community-managed compost stations in Mann Kyoe, Nan U, Pauk Kone, and Aye Mya Villages. In this reporting period, the compost station pilot initiative was expanded to Aye Mya Village through the distribution of reusable waste

collection bags and community awareness activities on composting and waste segregation, including compost demonstrations. Regular maintenance activities, such as watering and mixing compost with Effective Microorganism (EM) solution, were carried out to support proper decomposition and ensure long-term functionality. The team also continued to monitor household participation and organic waste collection to promote sustainable composting practices and reduce the amount of waste sent to disposal sites.

- **Waste Management Education and Awareness**

  The CSR Team conducted community awareness sessions and household discussions on waste segregation, composting, and responsible waste disposal practices to strengthen community understanding and encourage behavioral change toward more sustainable waste handling.

- **Trash Hero Cleanup Challenge Program**

  The Trash Hero Cleanup Challenge Program continued to recognize long-term volunteer commitment through milestone awards. The program helped maintain volunteer engagement and strengthen environmental stewardship by rewarding consistent participation in community cleanup activities.

  As of September 2026:

  - 192 participants completed 10 cleanup sessions.
  - 96 participants completed 20 sessions.
  - 50 participants completed 30 sessions.

The Program strengthened environmental awareness, promoted responsible waste management practices, increased community participation in environmental conservation, and contributed to cleaner and healthier communities throughout Mann Field.



*Figure 94: Monitoring the Community-Led Waste Management System in Mann Field Communities*




*Figure 95: Tracking Waste Collection Trends in Mann Field Communities*






*Figure 96: Organizing Community Cleanup Campaigns in Mann Field Communities*



*Figure 97: Conducting Small-Group Household Knowledge-Sharing Sessions on Waste Management and Waste Segregation in Mann Field Communities*



*Figure 98: Supporting Trash Hero Minbu Community Cleanup Activities in Mann Field Communities*



*Figure 99: Monitoring Community-Managed Compost Station Pilot Projects in Mann Field Communities*



*Figure 100: Conducting Compost Harvesting and Distribution Activities with Community Members*



*Figure 101: Information Sharing on the Community-Managed Compost Station Pilot Project*

### 10.6.7 Operational Grievance Mechanism

MPRL E&P values its host communities and recognizes that transparency, accessibility, and responsive communication are essential for building trust, fostering constructive partnerships, and maintaining its social license to operate. The Operational Grievance Mechanism (OGM), implemented in collaboration with host communities and Myanma Oil and Gas Enterprise (MOGE), provides a formal and accessible channel for community members to raise concerns, seek clarification, and receive timely resolutions to operational issues.

Between April and September 2026, the OGM continued to function effectively, receiving and resolving five community-reported cases. As of September 2026, the cumulative number of reported OGM cases since the mechanism's establishment in September 2014 reached 198 cases, with all cases having been resolved in a timely manner and closed to the satisfaction of complainants.

**Strategic Progress Highlights**

- **15 May 2026:** A grievance from Kyar Kan Village regarding the condition of an oil pipeline connected to Well #238 was investigated by the CSR and Field Operations Teams. Operational clarifications were provided, and the complainant was satisfied with the response and outcome.
- **19 June 2026:** A grievance from Mei Bayt Kone Village concerning a leak in a produced water pipeline near the warehouse area was reported through the community volunteer network. The leak was repaired on the same day, and the complainant confirmed satisfaction with the resolution.
- **15 July 2026:** A grievance from Auk Kyaung Village regarding a detached water pipeline leaking onto farmland was reported and inspected. The pipeline was repaired by the MOGE Engineering Department on the same day, and the complainant expressed satisfaction with the prompt response.
- **14 August 2026:** A grievance from Mei Bayt Kone Village concerning a produced water pipeline leak crossing agricultural land was reported through a community volunteer. The leak was repaired on the same day, and the complainant was satisfied with the outcome.
- **15 September 2026:** A grievance was reported from Mei Bayt Kone Village regarding a leak from a water pipeline connected to Well #88. Following inspection, the leak was repaired on the same day, and the case was closed to the complainant's satisfaction.

Through the timely investigation, resolution, and closure of grievances, the OGM strengthened stakeholder trust, enhanced accountability, promoted transparent communication, and reinforced MPRL E&P's social license to operate across Mann Field Communities.

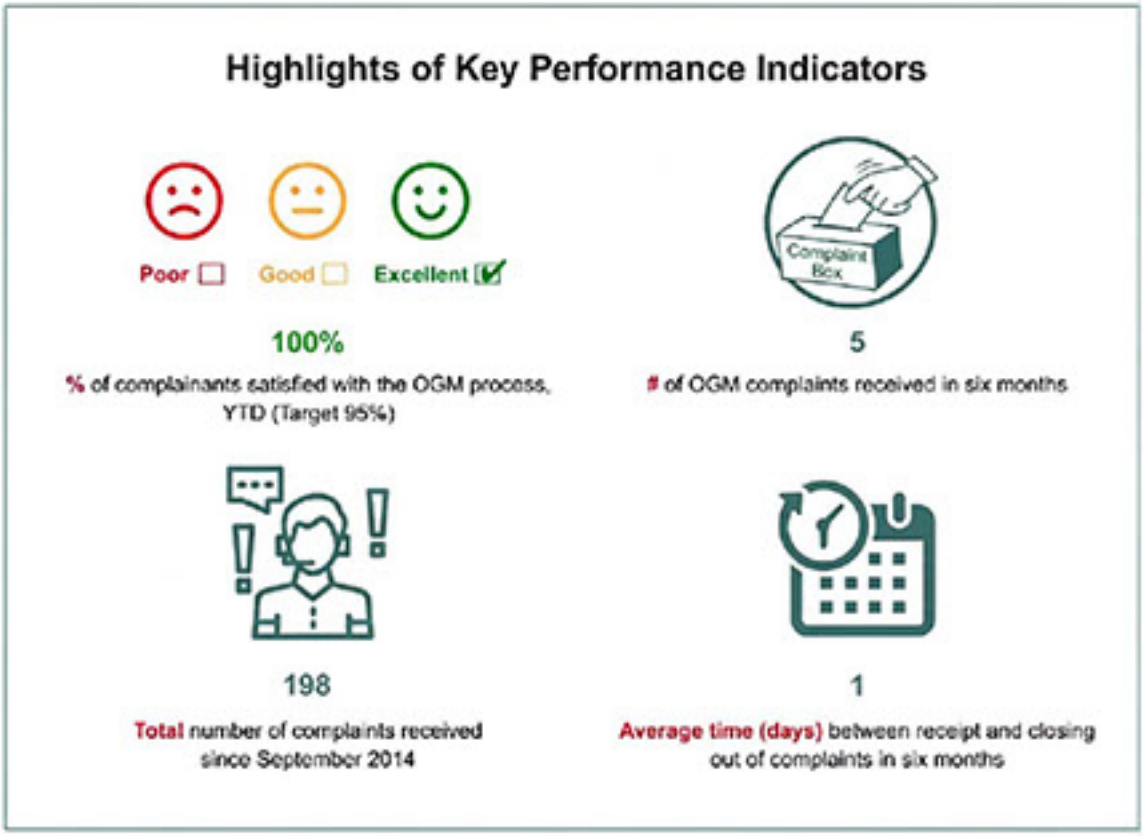



*Figure 102: Key Performance Indicators of OGM in Mann Field*




*Figure 103: Received and Closed Cases, 2014-to-date*



*Figure 104: Addressing Operational Grievance Mechanism (OGM) Cases in Mann Field Communities*

### 10.6.8 Stakeholder Engagement and Information Disclosure

Engaging with stakeholders is fundamental to MPRL E&P's commitment to responsible operations, transparency, accountability, and meaningful community participation. Through regular consultation, coordination, reporting, and information sharing with communities, local authorities, government agencies, community volunteers, and institutional partners, the Company maintains effective two-way communication and supports the successful implementation of CSR initiatives.

Between April and September 2026, the CSR Team maintained active engagement with stakeholders through consultations, coordination meetings, reporting, and information disclosure activities across Mann Field Communities and relevant government institutions.

**Strategic Progress Highlights**

- **Stakeholder Consultation and Community Engagement**

  Throughout the reporting period, the CSR Team conducted regular consultations and coordination meetings with Community Volunteers, Village Administrators, Village Development Committees, Seed Bank Committees, local communities, and other stakeholders to discuss ongoing projects, upcoming CSR initiatives, agricultural activities, infrastructure development, volunteer coordination, and community events. In April, the Team also engaged with Doe Kyay Latt (Magway) regarding agricultural soil preparation activities. In May, stakeholder consultations supported discussions on infrastructure development, agricultural activities, and future CSR programs. Consultation and coordination activities continued throughout the reporting period to review project progress, address emerging community needs, and support the implementation of upcoming initiatives.

- **Community Volunteer Coordination**

  Monthly Community Volunteers Meetings were conducted throughout the reporting period at Nan U Community Center, providing a platform to share project updates, discuss implementation progress, strengthen coordination, and review upcoming activities with community representatives.

- **Government and Institutional Engagement**

  The CSR Team maintained regular communication and reporting with government and institutional stakeholders throughout the reporting period. Periodic reports were submitted to the MOGE Director (Mann Field). On 08 May 2026, the Team organized the Second Biannual CSR Progress Review Meeting with MOGE officials in Nay Pyi Taw to review CSR implementation progress and discuss future collaboration. On 20 May 2026, the Team conducted the

Biannual CSR and HSE Progress Update Meeting attended by 55 participants, including Village Administrators, Village Development Committees, Community Volunteers, and CSR and HSE representatives.

- **Information Disclosure and Reporting**

  MPRL E&P continued to promote transparency through regular reporting and information sharing. In April, the CSR Team distributed *Insight!* Newsletter (Issue 46) and *Doh Mann Myay* Newsletter (Issue 20) to communities and stakeholders. In June, the Team published *Insight!* Newsletter (Issue 47) and *Doh Mann Myay* Newsletter (Issue 21) and submitted the 9th Communication on Progress (CoP) to the United Nations Global Compact (UNGC). In July, the First Quarter CSR Progress Report was submitted to the Magway Regional Government. These disclosures ensured stakeholders remained informed of program progress and key developments.

Through continuous stakeholder engagement, transparent information disclosure, and collaborative decision-making processes, MPRL E&P strengthened stakeholder trust, enhanced community participation, and reinforced accountability in the implementation of its CSR Program.



*Figure 105: Organizing the Biannual CSR Progress Review Meeting for FY 2025-2026 with MOGE Officials in Nay Pyi Taw*



*Figure 106: Organizing the Biannual CSR and HSE Progress Update Meeting in Mann Field Communities*



*Figure 107: Providing Social Management Updates to the ECD (Magway) Team*



*Figure 108: Distributing Insight! and Doh Mann Myay Newsletters to Stakeholders*



*Figure 109: Coaching a New Community Volunteer from Let Pa Taw Village in Mann Field Communities*



*Figure 110: Organizing Monthly Community Volunteer Meetings and Capacity-Building Training Sessions*




*Figure 111: Publishing Insight! Newsletter (Issue 47) and Doh Mann Myay Newsletter (Issue 21)*




*Figure 112: Publishing Insight! Newsletter (Issue 48) and Doh Mann Myay Newsletter (Issue 22)*




*Figure 113: Publishing the 9th Communication on Progress (CoP) to the United Nations Global Compact (UNGC)*

### 10.6.9 Corporate Philanthropy

MPRL E&P remains committed to contributing to the well-being of its host communities through corporate philanthropy initiatives. These efforts are designed to support social causes and community development through donations, employee engagement, and contributions to cultural and religious activities. The Program reflects MPRL E&P's responsibility to create a positive and meaningful impact in the communities it serves.

Between April 2026 and September 2026, the CSR Program continued to support community needs through targeted philanthropic contributions.

**Strategic Progress Highlights**

- **Supporting Cultural and Religious Activities:** During the reporting period, MPRL E&P contributed MMK 300,000 to support the Patthana Recitation Ceremony in Mann Kyoe Village and donated MMK 2,000,000 to the Information and Public Relations Department, Minbu District, to support the School Library Development and Reading Promotion Festival, specifically for refreshments for students.

These contributions supported local cultural and religious activities, strengthened social cohesion, preserved community traditions, and reinforced positive relationships between MPRL E&P and its host communities.



*Figure 114: Contribution to the Patthana Recitation Ceremony in Mann Kyoe Village*



*Figure 115: Supporting the School Library Development and Reading Promotion Festival*

### 10.6.10 MOGE Employee-Centered CSR Program

MPRL E&P continues to implement the MOGE Employee-Centered CSR Program, launched in FY 2024-2025, to support the well-being of MOGE employees and their families. The Program reflects MPRL E&P's commitment to responsible partnership and inclusive development, extending beyond contractual obligations to address employee welfare, education, skills development, cultural activities, and basic living needs.

Between April and September 2026, MPRL E&P continued delivering targeted support initiatives for MOGE (Mann Field) employees and their families, contributing to improved well-being, learning opportunities, and community cohesion.

**Strategic Progress Highlights**

- **April 2026 - Cultural and Welfare Support:** Contributed MMK 500,000 to support the Thingyan Water Festival organized by the Magway Regional Government and Minbu District General Administration Department, and provided MMK 750,000 for the Pahtan Donation at Mann Field Dhamayone and MMK 500,000 to support MOGE staff welfare activities.

- **June 2026 - Essential Household Support:** Provided MMK 40,000,000 to the MOGE Director (Mann Field) to support the distribution of rice and cooking oil for MOGE employees and their families, helping alleviate household expenses, strengthen employee well-being, and support family resilience.

- **August 2026 - Education, Skills Development, and Community Support:** Contributed MMK 5,000,000 to support the purchase of a marching drum set for Eain Yar School and provided MMK 10,000,000 to support vocational and life skills training for MOGE employees and their families. The Program also donated MMK 2,200,000 for a Sabbath Day meal at Mann Dhamayone (MOGE).

- **September 2026 - Continued Essential and Educational Support:** Provided an additional MMK 40,000,000 to support the distribution of rice and cooking oil for MOGE employees and their families.

  Scholarship support was also provided to two children of MOGE-Mann employees studying at No. 5 Industrial Training Center (Magway) and the State Agricultural and Livestock Institute (Pwint Phyu), bringing the cumulative scholarship amount for FY 2026-2027 to MMK 1,402,950 as of September 2026. As of September 2026, cumulative expenditure under the MOGE Employee-Centered CSR Program reached MMK 100,352,950, reflecting MPRL E&P's continued commitment to supporting employee welfare, education, skills development, and essential household needs.

Through targeted investments in employee welfare, education, skills development, cultural activities, and essential household support, the Program enhanced the well-being of MOGE employees and their families while strengthening MPRL E&P's commitment to inclusive and responsible development.



*Figure 116: Donating MMK 80,000,000 for Rice and Cooking Oil Assistance Under the MOGE Employee-Centered CSR Program*



*Figure 117: Contributing MMK 10,000,000 for Vocational and Life Skills Training and MMK 5,000,000 for the Purchase of a Marching Drum Set for Eain Yar High School*

## 11. Conclusion

This document marks the completion of the 13th Environmental Monitoring Report for the Mann Field EOR Project, capturing field performance and environmental oversight across the semi-annual period of April through September 2026.

During this term, scheduled environmental assessments were executed across designated target areas: air and noise monitoring at Z3AQN and Z4AQN; soil testing at Z3S1, Z3S2, Z4S1, and Z4S2; and surface/groundwater sampling at Z3SW1, Z3SW2, Z3GW1, Z4SW1, Z4SW2, and Z4GW2. Monitoring at stations hindered by temporary access constraints will be re-established immediately once conditions permit.

The reporting period presented notable operational headwinds, including daytime-only operational restrictions, heightened security overhead, logistical bottlenecks, and natural reservoir decline. In the face of these constraints, the project maintained an uncompromising focus on environmental stewardship. Through consistent tracking, proactive HSE and CSR engagement, and full dedication to our Environmental Compliance Certificate (ECC) mandate, we continue to ensure responsible stewardship and regulatory alignment.

# 12. Annex

**Annex – 1 Laboratory Results**

## Annex – 1 Laboratory Results

# Analysis Report

Ministry of Natural Resources and Environmental Conservation

Environmental Conservation Department

Magway Region

Customer Name : MPRL E & P Pte Ltd.

Sample Name : Z3AQN (Air Quality Analysis)

Sampling Date : 21-7-2026 to 22-7-2026 (24 Hours)

Reporting Date : 31-7-2026

Equipment Name : Haz-Scanner (920246) USA

| No. | Parameter | Unit | Result | National Environmental Quality (Emission) Guidelines အဝိုဒ်(၁.၁) | Remark |
|---|---|---|---|---|---|
| 1 | Carbon Monoxide (CO) | µg/ m³ | 0 | - | |
| 2 | Carbon Dioxide ($CO_2$) | µg/ m³ | 113.884 | - | |
| 3 | Hydrogen Sufide($H_2S$) | µg/ m³ | 0 | - | |
| 4 | Nitrogen Oxide (NO) | µg/ m³ | 1.227 | - | |
| 5 | Nitrogen Dioxide ($NO_2$) | µg/ m³ | 4.172 | 200 | |
| 6 | Particulate Matter ($PM_{2.5}$) | µg/ m³ | 8.25605 | 50 | |
| 7 | Relative Humidity (RH) | % | 50 | - | |
| 8 | Sulphur Dioxide ($SO_2$) | µg/ m³ | 0 | 20 | |

This report is only valid for the sample received.

Not a certificate of conformance

စံညီမျှမှုဆိုင်ရာလက်မှတ်မဟုတ်ကြောင်း ဆောက်ခံရွက်ဟုတ်ပါသည်

Analysis By

Signature: .....

Name: .....(မြတ်နိုးဆေ)

Designation: ဆေးဝါးဆောက်လုပ်ရေးကုမ္ပဏီလီမိတက်

ဝတ်ဝန်းကျင်ထိန်းသိမ်းရေးဦးစီးဌာန

Approved By

Signature: .....

Name: .....(ဇော်မိုး)

Designation: ညွှန်ကြားရေးမှူး

ဝတ်ဝန်းကျင်ထိန်းသိမ်းရေးဦးစီးဌာန

# Analysis Report

Ministry of Natural Resources and Environmental Conservation

Environmental Conservation Department

Magway Region

Customer Name : MPRL E & P Pte Ltd.

Sample Name : Z4AQN (Air Quality Analysis)

Sampling Date : 22-7-2026 to 23-7-2026 (24 Hours)

Reporting Date : 31-7-2026

Equipment Name : Haz-Scanner (920246) USA

| No. | Parameter | Unit | Result | National Environmental Quality (Emission) Guidelines ဘဝဗိဒ်(၁.၁) | Remark |
|---|---|---|---|---|---|
| 1 | Carbon Monoxide (CO) | µg/ m³ | 0 | - | |
| 2 | Carbon Dioxide ($CO_2$) | µg/ m³ | 120.092 | - | |
| 3 | Hydrogen Sufide($H_2S$) | µg/ m³ | 0 | - | |
| 4 | Nitrogen Oxide (NO) | µg/ m³ | 95.685 | - | |
| 5 | Nitrogen Dioxide ($NO_2$) | µg/ m³ | 180.267 | 200 | |
| 6 | Particulate Matter ($PM_{10}$) | µg/ m³ | 54.886 | 50 | |
| 7 | Relative Humidity (RH) | % | 62.23 | - | |
| 8 | Sulphur Dioxide ($SO_2$) | µg/ m³ | 0 | 20 | |

This report is only valid for the sample received.

Not a certificate of conformance

စံချိန်စံညွှန်းကိုက်ညီကြောင်း ထောက်ခံချက်မဟုတ်ပါ

Analysis By

Signature: .....

Name: .....

Designation: .....

Approved By

Signature: .....

Name: .....

Designation: .....

# Analysis Report

Ministry of Natural Resources and Environmental Conservation

Environmental Conservation Department

Magway Region

| | | |
|---|---|---|
| **Customer Name** | : | MPRL E & P Pte Ltd. |
| **Sample Name** | : | Z3AQN (20°13'21.73"N& 94°51'19.72"E)(Noise) |
| **Analytical Date** | : | 21-7-2026 to 22-7-2026 |
| **Reporting Date** | : | 31-7-2026 |
| **Equipment Name** | : | Sound Meter(EXTECH-SDL600) |

| Receptor | One Hour LAeq(dBA)* | |
|---|---|---|
| | Day Time 07:00- 22:00 (10:00- 22:00 for Public holidays) | Night Time 22:00- 07:00 (22:00-10:00 for Public holidays) |
| Residential | 55 | 45 |
| Industrial | 70 | 70 |
| Average Test Result | 53.25 | 53.05 |

This report is only valid for the sample received.

Not a certificate of conformance

စံပြုနိမ့်သွန်းကိုက်ညီမှုဘြာသိုး ထောက်ခံချက်မဟုတ်ပါ

Analysis By

Signature: .....

Name: (မြတ်နိုးဝေ)

Designation: ဓာတ်ဆောက်လုပ်ရေးကြားဝေဌာန

ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဦးစီးဌာန

Approved By

Signature: .....

Name: (ဆန်ဒိုး)

Designation: ညွှန်ကြားရေးမှူး

ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဦးစီးဌာန

# Analysis Report

Ministry of Natural Resources and Environmental Conservation

Environmental Conservation Department

Magway Region

Customer Name : MPRL E & P Pte Ltd.

Sample Name : Z4AQN (20°13'21.73"N၊ 94°51'19.72"E)(Noise)

Analytical Date : 22-7-2026 to 23-7-2026

Reporting Date : 31-7-2026

Equipment Name : Sound Meter(EXTECH-SDL600)

| Receptor | One Hour LAeq(dBA)* | |
|---|---|---|
| | Day Time 07:00- 22:00 (10:00- 22:00 for Public holidays) | Night Time 22:00- 07:00 (22:00-10:00 for Public holidays) |
| Residential | 55 | 45 |
| Industrial | 70 | 70 |
| Average Test Result | 53.35 | 47.5 |

This report is only valid for the sample received.

Not a certificate of conformance

စံချိန်စံညွှန်းကိုက်ညီမှုကြေငြာစာစောင်မဟုတ်ပါ

Analysis By

Signature:

Name: (ကြည်နိုးဝေ)

Designation: ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဦးစီးဌာန

Approved By

Signature:

Name: (ဝေမိုး)

Designation: ညွှန်ကြားရေးမှူး

ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဦးစီးဌာန

# ALARM Ecological Laboratory

## Solid Testing Result Report

Report Number: EL-SR-26-03963 | Date: August 13, 2026

**Client Information**

| | | |
|---|---|---|
| Client Name | : | MPRL E&P Pte Ltd |
| Organization | : | - |
| Client ID | : | - |
| Registration Date & Time | : | 23.7.2026 |
| Contact | : | 09-5177813 |
| Email | : | han.maung@mprlexp.com |
| Testing Purpose | : | For Monitoring |

**Sample Information**

| | | |
|---|---|---|
| Sample ID | : | 26/07133 |
| Sample Name | : | Soil |
| Sample Type / Source | : | ZISW-1 |
| Sampling Date & Time | : | 22.7.2026 |
| Sample Location | : | Minbu Township. |
| Latitude | : | - |
| Longitude | : | - |

**Testing Results**

*This laboratory analysis report is based solely on the sample submitted by the client unless client took our sampling service. This report shall not be reproduced except in full, without written approval of the laboratory.*

| Sr. | Quality Parameter | Results | Unit | SQGHH Standard |
|---|---|---|---|---|
| 1 | pH | 7.2 | S.U | - |
| 2 | Cadmium | <0.5 | mg/kg | ≤ 0.7* |
| 3 | Copper | 3.3 | mg/kg | ≤ 35* |
| 4 | Lead | 4.5 | mg/kg | ≤ 40* |

| Tested by | Checked by | Approved by |
|---|---|---|
| Daw Hnin Myat Khine<br>Lab. Technician II<br>Ecological Laboratory<br>ALARM | Daw Lin Myat Myat Aung<br>Lab. Technician I<br>Ecological Laboratory<br>ALARM | Dr. Aye Aye Win<br>Laboratory In-Charge<br>Ecological Laboratory<br>(ALARM) |

No.121, Corner of Shin Khin Thar Street & 7 Street, (J) Block, South Okkalapa Township, Yangon.
Tel: 09-407496978, Email: aelab.2022@gmail.com

# ALARM Ecological Laboratory

## Solid Testing Result Report

Report Number: EL-SR-26-03954 | Date: August 13, 2026

**Client Information**

| | | |
|---|---|---|
| Client Name | : | MPRL E&P Pte Ltd |
| Organization | : | - |
| Client ID | : | - |
| Registration Date & Time | : | 23.7.2026 |
| Contact | : | 09-5177813 |
| Email | : | han.m.aung@mprlexp.com |
| Testing Purpose | : | For Monitoring |

**Sample Information**

| | | |
|---|---|---|
| Sample ID | : | 26/07134 |
| Sample Name | : | Soil |
| Sample Type / Source | : | ZISW-2 |
| Sampling Date & Time | : | 22.7.2026 |
| Sample Location | : | Minbu Township. |
| Latitude | : | - |
| Longitude | : | - |

**Testing Results**

*The laboratory analysis report is based solely on the sample submitted by the client unless client took our sampling service. This report shall not be reproduced except in full, without written approval of the laboratory*

| Sr. | Quality Parameter | Results | Unit | SQGHH Standard |
|---|---|---|---|---|
| 1 | pH | 7.8 | S.U | - |
| 2 | Cadmium | < 0.5 | mg/kg | ≤ 3.7 [2] |
| 3 | Copper | 18 | mg/kg | ≤ 70 [1] |
| 4 | Lead | 6.1 | mg/kg | ≤ 45 [2] |

| Tested by | Checked by | Approved by |
|---|---|---|
| Daw May Myat Khine<br>Lab. Technician II<br>Ecological Laboratory<br>ALARM | Daw Lin Myat Myat Aung<br>Lab. Technician I<br>Ecological Laboratory<br>ALARM | Dr. Aye Aye Win<br>Laboratory In-Charge<br>Ecological Laboratory<br>(ALARM) |

No.121, Corner of Shin Khin Thar Street & 7 Street, (J) Block, South Okkalapa Township, Yangon
Tel: 09-407496678, Email: arlab.2022@gmail.com

# ALARM Ecological Laboratory

## Solid Testing Result Report

**Report Number: EL-SR-26-03965** | **Date: August 13, 2026**

**Client Information**

| | | |
|---|---|---|
| Client Name | : | MPRL E&P Ptd Ltd |
| Organization | : | - |
| Client ID | : | - |
| Registration Date & Time | : | 23.7.2026 |
| Contact | : | 09-5177819 |
| Email | : | han.m.aung@mprl.mp.com |
| Testing Purpose | : | For Monitoring |

**Sample Information**

| | | |
|---|---|---|
| Sample ID | : | 26/07135 |
| Sample Name | : | Soil |
| Sample Type / Source | : | Z45W-1 |
| Sampling Date & Time | : | 22.7.2026 |
| Sample Location | : | Minbu Township. |
| Latitude | : | - |
| Longitude | : | - |

**Testing Results**

*This laboratory analysis report is based solely on the sample submitted by the client unless client took our sampling service.*
*This report shall not be reproduced except in full, without written approval of the laboratory*

| Sr. | Quality Parameter | Results | Unit | SQGHH Standard |
|---|---|---|---|---|
| 1 | pH | 7.1 | S.U | - |
| 2 | Cadmium | < 0.5 | mg/kg | ≤ 0.7 [a] |
| 3 | Copper | 2.3 | mg/kg | ≤ 70 [c] |
| 4 | Lead | 6.3 | mg/kg | ≤ 45 [a] |

| Tested by | Checked by | Approved by |
|---|---|---|
| Daw May Myat Khine<br>Lab. Technician II | Daw Lin Myat Myat Aung<br>Lab. Technician I | Dr. Aye Aye Win<br>Laboratory In-Charge |

# ALARM Ecological Laboratory

## Solid Testing Result Report

**Report Number: EL-SR-26-03966** | **Date: August 13, 2026**

**Client Information**

| | | |
|---|---|---|
| Client Name | : | MPRL E&P Pte Ltd |
| Organization | : | - |
| Client ID | : | - |
| Registration Date & Time | : | 22.7.2026 |
| Contact | : | 09-5177813 |
| Email | : | han.myaung@mprlexp.com |
| Testing Purpose | : | For Monitoring |

**Sample Information**

| | | |
|---|---|---|
| Sample ID | : | 26/07136 |
| Sample Name | : | Soil |
| Sample Type / Source | : | 245W-2 |
| Sampling Date & Time | : | 22.7.2026 |
| Sample Location | : | Minbu Township. |
| Latitude | : | - |
| Longitude | : | - |

**Testing Results**

*This laboratory analysis report is based solely on the sample submitted by the client unless client took our sampling service. This report shall not be reproduced except in full, without written approval of the laboratory*

| Sr. | Quality Parameter | Results | Unit | SQGHH Standard |
|---|---|---|---|---|
| 1 | pH | 7.6 | S.U | - |
| 2 | Cadmium | <0.5 | mg/kg | ≤ 0.7* |
| 3 | Copper | 3.6 | mg/kg | ≤ 20 * |
| 4 | Lead | 5.6 | mg/kg | ≤ 45 * |

| Tested by | Checked by | Approved by |
|---|---|---|
| Daw [illegible] Myat Khine<br>Lab. Technician II<br>Ecological Laboratory<br>ALARM | Daw Lin Myat Myat Aung<br>Lab. Technician I<br>Ecological Laboratory<br>ALARM | Dr. Aye Aye Win<br>Laboratory In-Charge<br>Ecological Laboratory<br>(ALARM) |

No.121, Corner of Shwe Khin Thar Street & 7 Street, (3) Block, South Okkalapa Township, Yangon.
Tel: 09-407496078, Email: aelab.2025@gmail.com

# ALARM Ecological Laboratory

## Water Testing Result Report

Report Number: EL-WR-26-07239 Date: August 13, 2026

**Client Information**

| | | |
|---|---|---|
| Client Name | : | MPRL E & P Pte Ltd |
| Organization | : | - |
| Client ID | : | - |
| Registration Date & Time | : | 22.7.2026 |
| Contact | : | 09-5177619 |
| Email | : | han.m.aung@mpridep.com |
| Testing Purpose | : | For Monitoring |

**Sample Information**

| | | |
|---|---|---|
| Sample ID | : | 26/07145 |
| Sample Name | : | ZISW1 |
| Sample Type / Source | : | Surface Water |
| Sampling Date & Time | : | 22.7.2026 |
| Sample Location | : | Mrauk Township |
| Latitude | : | - |
| Longitude | : | - |

### Testing Results

*This laboratory analysis report is issued solely on the sample submitted by the client unless client took our sampling service.*
*This report shall not be reproduced except in full, without written approval of the laboratory.*

| Sr. | Quality Parameters | Results | Units | Emission Standards | Remarks |
|---|---|---|---|---|---|
| 1 | Temperature* | 26 | °C | ±3°* | - |
| 2 | Ammonia- Nitrogen* | 0.31 | mg/l | - | - |
| 3 | Dissolved Oxygen* | 7.41 | mg/l | - | - |
| 4 | $BOD_5$* | 5.1 | mg/l | ≤ 50* | Normal |
| 5 | Copper* | 0.26 | mg/l | ≤ 0.5* | Normal |
| 6 | Ferrous* | 0.31 | mg/l | - | - |
| 7 | Oil & Grease* | 6 | mg/l | ≤ 10* | Normal |
| 8 | Total Nitrogen* | 18.6 | mg/l | - | - |
| 9 | Total Phosphorous* | 3.42 | mg/l | ≤5* | Normal |

N.D = Not Detected *LOD = Lowest limit of detection - = No Reference Standard

| Tested by | Checked by | Approved by |
|---|---|---|
| Daw May Myat Khine<br>Lab. Technician II<br>Ecological Laboratory<br>ALARM | Daw Lin Myat Myat Aung<br>Lab. Technician I<br>Ecological Laboratory<br>ALARM | Dr. Kyi Kyi Win<br>Laboratory In-Charge<br>Ecological Laboratory<br>(ALARM) |

No.121, Corner of Shu Khin Thar Street & 7 Street, (3) Block, South Okkalapa Township, Yangon.
Tel: 09-407496675, Email: aclab.2022@gmail.com

# ALARM Ecological Laboratory

## Microbiology Water Testing Result Report

**Reference Number: EL (M)-R/2339** **Date: 6 August 2026**

### Client Information

| | | |
|---|---|---|
| Client Name | : | MPRL E&P Pte Ltd |
| Organization | : | MPRL E&P Pte Ltd |
| Client ID | : | - |
| Registration Date & Time | : | 23.7.2026 |
| Contact | : | - |
| Email | : | - |
| Testing Purpose | : | For Monitoring |

### Sample Information

| | | |
|---|---|---|
| Sample ID | : | 2339 |
| Sample Name | : | Z3SW1 |
| Sample Type / Source | : | Surface Water |
| Sampling Date & Time | : | 22.7.2026 |
| Sample Location | : | Minbu Tsp |
| Latitude | : | - |
| Longitude | : | - |

### Testing Results

*This laboratory analysis report is based solely on the sample submitted by the client unless client took our sampling service.*
*This report shall not be reproduced except in full, without written approval of the laboratory.*

| Sr. | Quality Parameters | Results | Method | Drinking Standard | Remarks |
|---|---|---|---|---|---|
| 1 | Total plate count (CFU/mL) | | Total plate count method | 0 | |
| 2 | Total coliform count (MPN/100 mL) [Presumption test] | | Most Probable Number method | 0 | |
| 3 | Total faecal coliform count (MPN/100ml) (Presumption test) | | Most Probable Number method | 0 | |
| 4 | Total coliform count (CFU/mL) [Confirm test] | | Eosin Methyl Blue agar plate test | 0 | |
| 5 | Complete test for coliform bacteria | | Gram staining test | - | |
| 6 | Total coliform count (CFU/mL) | 3100 | Plate count method | 0 | |
| 7 | Total *E.coli*count (CFU/mL) | 0 | Plate count method | 0 | |

| Tested by | Checked by | Approved by |
|---|---|---|
| May Zaw<br>Research Assistant<br>ALARM | Aye Nyein Thu<br>Research Assistant<br>ALARM | Dr.Aye Aye Win<br>Laboratory In_charged<br>Ecological Laboratory,ALARM |

W0726 587

## WATER QUALITY TEST RESULTS FORM

| | |
|---|---|
| Client | MPRL E & P |
| Nature of Water | Surface Water |
| Location | Z35W1, Minbu Township |
| Date and Time of collection | 22-07-2026 (9:15 AM) |
| Date and Time of arrival at Laboratory | 23-07-2026 |
| Date and Time of commencing examination | 24-07-2026 |
| Date and Time of completing | 25-07-2026 |

**Results of Water Analysis**

**WHO Drinking Water Guideline (Geneva - 1993)**

| Parameters | Result | Unit | Ref: Range |
|---|---|---|---|
| pH | 7.8 | | 6.5 - 8.5 |
| Colour (True) | 60 | TCU | 15 TCU |
| Turbidity | 124 | NTU | 5 NTU |
| Conductivity | 200 | micro Siom | |
| Total Hardness | 88 | mg/l as CaCO3 | 500 mg/l as $CaCO_3$ |
| Total Alkalinity | 112 | mg/l as $CaCO_3$ | |
| Total Suspended Solids | 148 | mg/l | |
| Fluoride (F) | 0.3 | mg/l | 1.5 mg/l |
| Arsenic (As) | Nil | mg/l | 0.01 mg/l |
| Chemical Oxygen Demand (COD) | 64 | mg/l | |

**Remark: This certificate is issued only for the receipt of the test sample.**

**Tested by**
Signature:
Name: Zaw Hein Oo
B.Sc (Chemistry)
Sr.Chemist
ISO Tech Laboratory

**Approved by**
Signature:
Name: Thinzar Theint Theint
B.E (Civil)
Senior Engineer
ISO Tech Laboratory



No.18, Lanthit Road, Northargone Quarter, Insein Township, Yangon, Myanmar.
Ph: 01-640665, 09-880100172, 09-880100173, 01-644506, E-mail: isotechlaboratory@gmail.com, Website: weg-myanmar.com

# ALARM Ecological Laboratory

## Water Testing Result Report

Report Number: EL-WR-26-07239 | Date: August 13, 2026

**Client Information**

| | | |
|---|---|---|
| Client Name | : | MPR, E & P Pte Ltd |
| Organization | : | - |
| Client ID | : | - |
| Registration Date & Time | : | 23.7.2026 |
| Contact | : | 09-5177819 |
| Email | : | han.m.aung@mpretep.com |
| Testing Purpose | : | For Monitoring |

**Sample Information**

| | | |
|---|---|---|
| Sample ID | : | 26/07146 |
| Sample Name | : | ZBWI2 |
| Sample Type / Source | : | Surface Water |
| Sampling Date & Time | : | 22.7.2026 |
| Sample Location | : | Minbu Township |
| Latitude | : | - |
| Longitude | : | - |

### Testing Results

*This laboratory analysis report is based solely on the sample submitted by the client unless client took the sampling service.*
*This report shall not be reproduced except in full without written approval of the laboratory.*

| Sr. | Quality Parameters | Results | Units | Emission Standards | Remarks |
|---|---|---|---|---|---|
| 1 | Temperature[a] | 28 | °C | ≤3[a] | - |
| 2 | Ammonia- Nitrogen[b] | 0.32 | mg/L | - | - |
| 3 | Dissolved Oxygen[c] | 7.1 | mg/L | - | - |
| 4 | $BOD_5$[b] | 4.8 | mg/L | ≤ 50[a] | Normal |
| 5 | Copper[d] | 0.24 | mg/L | ≤ 0.5[a] | Normal |
| 6 | Boron[b] | 0.31 | mg/L | - | - |
| 7 | Oil & Grease[b] | 6 | mg/L | ≤ 10[a] | Normal |
| 8 | Total Nitrogen[b] | 16.4 | mg/L | - | - |
| 9 | Total Phosphorous[b] | 1.53 | mg/L | ≤2[a] | Normal |

"ND" is Not Detected | "LOD" = Lower limit of detection | "-" = No reference Standards

| Tested by | Checked by | Approved by |
|---|---|---|
| Daw May Myat Khine<br>Lab. Technician II<br>Ecological Laboratory<br>ALARM | Daw Lin Myat Myat Aung<br>Lab. Technician I<br>Ecological Laboratory<br>ALARM | Dr. Aye Aye Win<br>Laboratory In-Charge<br>Ecological Laboratory<br>(ALARM) |

No.121, Corner of Shu Khin Thar Street & 7 Street, (3) Block, South Okkalapa Township, Yangon.
Tel: 09-407496375, Email: aelab.2022@gmail.com

# ALARM Ecological Laboratory

## Microbiology Water Testing Result Report

**Reference Number: EL (M)-R/2340** **Date: 6 August 2026**

**Client Information**

| | | |
|---|---|---|
| Client Name | : | MPRL E&P Pte Ltd |
| Organization | : | MPRL E&P Pte Ltd |
| Client ID | : | - |
| Registration Date & Time | : | 23.7.2026 |
| Contact | : | - |
| Email | : | - |
| Testing Purpose | : | For Monitoring |

**Sample Information**

| | | |
|---|---|---|
| Sample ID | : | 2340 |
| Sample Name | : | Z35W2 |
| Sample Type / Source | : | Surface Water |
| Sampling Date & Time | : | 22.7.2026 |
| Sample Location | : | Minbu Tsp |
| Latitude | : | - |
| Longitude | : | - |

### Testing Results

*This laboratory analysis report is based solely on the sample submitted by the client unless client took our sampling service.*
*This report shall not be reproduced except in full, without written approval of the laboratory.*

| Sr. | Quality Parameters | Results | Method | Drinking Standard | Remarks |
|---|---|---|---|---|---|
| 1 | Total plate count (CFU/mL) | | Total plate count method | 0 | |
| 2 | Total coliform count (MPN/100 mL) (Presumption test) | | Most Probable Number method | 0 | |
| 3 | Total fecal coliform count (MPN/100ml) (Presumption test) | | Most Probable Number method | 0 | |
| 4 | Total coliform count (CFU/mL) (Confirm test) | | Eosin Methyl Blue agar plate test | 0 | |
| 5 | Complete test for coliform bacteria | | Gram staining test | - | |
| 6 | Total coliform count (CFU/mL) | 600 | Plate count method | 0 | |
| 7 | Total E.coli count (CFU/mL) | 0 | Plate count method | 0 | |

| Tested by | Checked by | Approved by |
|---|---|---|
| May Zaw<br>Research Assistant<br>ALARM | Aye Nyein Thu<br>Research Assistant<br>ALARM | Dr.Aye Aye Win<br>Laboratory In_charged<br>Ecological Laboratory,ALARM |

No.121,Corner of Shu Khin Thar Street & 7 Street, (3) Block, South Okkalapa Township,Yangon.
Tel: 09-907 950878, Email: aelab.2022@gmail.com

ISO TECH LABORATORY
Laboratory Technical Consultant: U Kaw Christopher Maung
B.Sc (Engg) (Civil), Dip. S.E(Delft) Lecturer of IIT (Retd), Consultant (TCDC) LLVGC 301,
Former Member (UNICEF, Water quality monitoring & Surveillance Myanmar)

W0726 588

WTL-RE-001
Issue Date - 27-06-2025
Effective Date - 01-09-2025
Issue No - 2.0

## WATER QUALITY TEST RESULTS FORM

| | |
|---|---|
| Client | MPRL E & P |
| Nature of Water | Surface Water |
| Location | Z3SW2, Minbu Township |
| Date and Time of collection | 22-07-2026 (9:35 AM) |
| Date and Time of arrival at Laboratory | 23-07-2026 |
| Date and Time of commencing examination | 24-07-2026 |
| Date and Time of completing | 25-07-2026 |

**Results of Water Analysis**

**WHO Drinking Water Guideline (Geneva - 1993)**

| Parameters | Result | Unit | Ref: Range |
|---|---|---|---|
| pH | 8.2 | | 6.5 - 8.5 |
| Colour (True) | 60 | TCU | 15 TCU |
| Turbidity | 88 | NTU | 5 NTU |
| Conductivity | 200 | micro S/cm | |
| Total Hardness | 86 | mg/l as CaCO3 | 500 mg/l as $CaCO_3$ |
| Total Alkalinity | 106 | mg/l as $CaCO_3$ | |
| Total Suspended Solids | 94 | mg/l | |
| Fluoride (F) | 0.2 | mg/l | 1.5 mg/l |
| Arsenic (As) | Nil | mg/l | 0.01 mg/l |
| Chemical Oxygen Demand (COD) | 32 | mg/l | |

**Remark: This certificate is issued only for the receipt of the test sample.**

**Tested by**
Signature:
Name: Zaw Hein Oo
B.Sc (Chemistry)
Sr.Chemist
ISO Tech Laboratory

**Approved by**
Signature:
Name: Thinzar Theint Theint
B.E (Civil)
Senior Engineer
ISO Tech Laboratory


No. 55, Lanthit Road, Nanthargone Quarter, Insein Township, Yangon, Myanmar.
Ph: 01-642955, 09-680130172, 09-680130173, 01-644506, E-mail: isotechlaboratory@gmail.com, Website: weg-myanmar.com

# ALARM Ecological Laboratory

## Water Testing Result Report

Report Number: EL-WR-26-07240 Date: August 13, 2026

**Client Information**

| | | |
|---|---|---|
| Client Name | : | MPRL E & P Pte Ltd |
| Organization | : | - |
| Client ID | : | - |
| Registration Date & Time | : | 22.7.2026; |
| Contact | : | 09-5177819 |
| Email | : | han.m.aung@mprlexp.com |
| Testing Purpose | : | For Monitoring |

**Sample Information**

| | | |
|---|---|---|
| Sample ID | : | 26/07147 |
| Sample Name | : | 26SW1 |
| Sample Type / Source | : | Surface Water |
| Sampling Date & Time | : | 22.7.2026 |
| Sample Location | : | Minbu Township |
| Latitude | : | - |
| Longitude | : | - |

### Testing Results

*This laboratory analysis report is based solely on the sample submitted by the client, as described above, and was received by the laboratory on the date indicated. The sample was collected by the client, and the laboratory did not participate in the sampling process. This report shall not be reproduced, except in full, without written approval of the laboratory.*

| Sr. | Quality Parameters | Results | Units | Emission Standards | Remarks |
|---|---|---|---|---|---|
| 1 | Temperature* | 28 | °C | 40°C | - |
| 2 | Ammonia- Nitrogen* | 0.26 | mg/L | - | - |
| 3 | Dissolved Oxygen* | 7.2 | mg/L | - | - |
| 4 | $BOD_5$* | 4.2 | mg/L | ≤ 50 | Normal |
| 5 | Copper* | 0.01 | mg/L | ≤ 0.5 | Normal |
| 6 | Boron* | 0.03 | mg/L | - | - |
| 7 | Oil & Grease* | 7 | mg/L | ≤ 10 | Normal |
| 8 | Total Nitrogen* | 12.5 | mg/L | - | - |
| 9 | Total Phosphorous* | 1.85 | mg/L | ≤ 2 | Normal |

"ND" = Not Detected "LOD" = Lower limit of detection "-" = No Reference Standard

| Tested by | Checked by | Approved by |
|---|---|---|
| Daw May Myat Khine<br>Lab. Technician II<br>Ecological Laboratory<br>ALARM | Daw Lin Lin Myat Aung<br>Lab. Technician I<br>Ecological Laboratory<br>ALARM | Dr. Aye Aye Win<br>Laboratory-in-Charge<br>Ecological Laboratory<br>(ALARM) |

No.128, Corner of Shu Khin Thar Street & 7 Street, (3) Block, South Okkalapa Township, Yangon.
Tel: 09-401696078, Email: aelab.2022@gmail.com

# ALARM Ecological Laboratory

## Microbiology Water Testing Result Report

**Reference Number: EL (M)-R/2341** **Date: 6 August 2026**

**Client Information**

| | | |
|---|---|---|
| Client Name | : | MPRL E&P Pte Ltd |
| Organization | : | MPRL E&P Pte Ltd |
| Client ID | : | - |
| Registration Date & Time | : | 23.7.2026 |
| Contact | : | - |
| Email | : | - |
| Testing Purpose | : | For Monitoring |

**Sample Information**

| | | |
|---|---|---|
| Sample ID | : | 2341 |
| Sample Name | : | 240N1 |
| Sample Type / Source | : | Surface Water |
| Sampling Date & Time | : | 22.7.2026 |
| Sample Location | : | Minbu Tsp |
| Latitude | : | - |
| Longitude | : | - |

### Testing Results

*This laboratory analysis report is based solely on the sample submitted by the client unless client took our sampling service.*
*This report shall not be reproduced except in full, without written approval of the laboratory.*

| Sr. | Quality Parameters | Results | Method | Drinking Standard | Remarks |
|---|---|---|---|---|---|
| 1 | Total plate count (CFU/mL) | | Total plate count method | 0 | |
| 2 | Total coliform count (MPN/100 mL) (Presumption test) | | Most Probable Number method | 0 | |
| 3 | Total fecal coliform count (MPN/100ml) (Presumption test) | | Most Probable Number method | 0 | |
| 4 | Total coliform count (CFU/mL) (Confirm test) | | Eosin Methyl Blue agar plate test | 0 | |
| 5 | Complete test for coliform bacteria | | Gram staining test | - | |
| 6 | Total coliform count (CFU/mL) | 3400 | Plate count method | 0 | |
| 7 | Total E.coli count (CFU/mL) | 0 | Plate count method | 0 | |

| Tested by | Checked by | Approved by |
|---|---|---|
| May Zaw<br>Research Assistant<br>ALARM | Aye Nyein Thu<br>Research Assistant<br>ALARM | Dr.Aye Aye Win<br>Laboratory In_charged<br>Ecological Laboratory,ALARM |

No.121,Corner of Shu Khin Thar Street & 7 Street, (3) Block, South Oakkalapa Township,Yangon.
Tel: 09-907 950878, Email: aelab.2022@gmail.com

W0726 559

## WATER QUALITY TEST RESULTS FORM

| | |
|---|---|
| Client | MPRL E & P |
| Nature of Water | Surface Water |
| Location | Z4SW1, Minbu Township |
| Date and Time of collection | 22-07-2026 (13:35 PM) |
| Date and Time of arrival at Laboratory | 23-07-2026 |
| Date and Time of commencing examination | 24-07-2026 |
| Date and Time of completing | 25-07-2026 |

**Results of Water Analysis**

**WHO Drinking Water Guideline (Geneva - 1993)**

| Parameters | Result | Unit | Ref: Range |
|---|---|---|---|
| pH | 7.8 | | 6.5 - 8.5 |
| Colour (True) | 180 | TCU | 15 TCU |
| Turbidity | 322 | NTU | 5 NTU |
| Conductivity | 92 | micro S/cm | |
| Total Hardness | 44 | mg/l as CaCO3 | 500 mg/l as $CaCO_3$ |
| Total Alkalinity | 54 | mg/l as $CaCO_3$ | |
| Total Suspended Solids | 423 | mg/l | |
| Fluoride (F) | 0.8 | mg/l | 1.5 mg/l |
| Arsenic (As) | Nil | mg/l | 0.01 mg/l |
| Chemical Oxygen Demand (COD) | 64 | mg/l | |

**Remark: This certificate is issued only for the receipt of the test sample.**

**Tested by**
Signature:
Name: Zaw Hein Oo
B.Sc (Chemistry)
Sr. Chemist
ISO Tech Laboratory

**Approved by**
Signature:
Name: Thinzar Theint Theint
B.E (Civil)
Senior Engineer
ISO Tech Laboratory



No.18, Lanmit Road, Nanthargone Quarter, Insein Township, Yangon, Myanmar.
Ph: 01-640955, 09-890100172, 09-880100173, 01-644106, E-mail: isotechlaboratory@gmail.com, Website: wfg-myanmar.com

# ALARM Ecological Laboratory

## Water Testing Result Report

Report Number: EL-WR-26-07241 Date: August 13, 2026

**Client Information**

| | | |
|---|---|---|
| Client Name | : | MPRL E & P Pte Ltd |
| Organization | : | - |
| Client ID | : | - |
| Registration Date & Time | : | 23.7.2026 |
| Contact | : | 09-5077819 |
| Email | : | han.myaung@mprlep.com |
| Testing Purpose | : | For Monitoring |

**Sample Information**

| | | |
|---|---|---|
| Sample ID | : | 26/07146 |
| Sample Name | : | 245WQ |
| Sample Type / Source | : | Surface Water |
| Sampling Date & Time | : | 22.7.2026 |
| Sample Location | : | Minbu Township |
| Latitude | : | - |
| Longitude | : | - |

### Testing Results

*This laboratory analysis report is based only on the sample submitted by the client without client's sampling service. This report shall not be reproduced except in full, without written approval of the laboratory.*

| Sr. | Quality Parameters | Results | Units | Emission Standards | Remarks |
|---|---|---|---|---|---|
| 1 | Temperature* | 33 | °C | ≤37* | - |
| 2 | Ammonia- Nitrogen* | 0.34 | mg/L | - | - |
| 3 | Dissolved Oxygen* | 7.3 | mg/L | - | - |
| 4 | BOD5* | 3.6 | mg/L | ≤ 50* | Normal |
| 5 | Copper* | 0.34 | mg/L | ≤ 0.5* | Normal |
| 6 | Boron* | 0.24 | mg/L | - | - |
| 7 | Oil & Grease* | 7 | mg/L | ≤ 10* | Normal |
| 8 | Total Nitrogen* | 12.6 | mg/L | - | - |
| 9 | Total Phosphorus* | 1.56 | mg/L | 50* | Normal |

"ND" = Not Detected "LOD" = Lower limit of detection "*" = As Reference Standard

| Tested by | Checked by | Approved by |
|---|---|---|
| Daw May Myat Khine<br>Lab. Technician II<br>Ecological Laboratory<br>ALARM | Daw Lin Myat Myat Aung<br>Lab. Technician I<br>Ecological Laboratory<br>ALARM | Dr. Aye Aye Win<br>Laboratory In-Charge<br>Ecological Laboratory<br>(ALARM) |

No.121, Corner of Shu Khin Thar Street & 7 Street, (1) Block, South Okkalapa Township, Yangon.
Tel: 09-407190078, Email: oelab.2022@gmail.com

# ALARM Ecological Laboratory

## Microbiology Water Testing Result Report

**Reference Number: EL (M)-R/2342** **Date: 6 August 2026**

**Client Information**

| | | |
|---|---|---|
| Client Name | : | MPRL E&P Pte Ltd |
| Organization | : | MPRL E&P Pte Ltd |
| Client ID | : | - |
| Registration Date & Time | : | 23.7.2026 |
| Contact | : | - |
| Email | : | - |
| Testing Purpose | : | For Monitoring |

**Sample Information**

| | | |
|---|---|---|
| Sample ID | : | 2342 |
| Sample Name | : | 2409W2 |
| Sample Type / Source | : | Surface Water |
| Sampling Date & Time | : | 22.7.2026 |
| Sample Location | : | Minbu Tsp |
| Latitude | : | - |
| Longitude | : | - |

### Testing Results

*This laboratory analysis report is based solely on the sample submitted by the client unless client took our sampling service.*
*This report shall not be reproduced except in full, without written approval of the laboratory.*

| Sr. | Quality Parameters | Results | Method | Drinking Standard | Remarks |
|---|---|---|---|---|---|
| 1 | Total plate count (CFU/mL) | | Total plate count method | 0 | |
| 2 | Total coliform count (MPN/100 mL) (Presumption test) | | Most Probable Number method | 0 | |
| 3 | Total fecal coliform count (MPN/100ml) (Presumption test) | | Most Probable Number method | 0 | |
| 4 | Total coliform count (CFU/mL) (Confirm test) | | Eosin Methyl Blue agar plate test | 0 | |
| 5 | Complete test for coliform bacteria | | Gram staining test | - | |
| 6 | Total coliform count (CFU/mL) | 4000 | Plate count method | 0 | |
| 7 | Total E.coli count (CFU/mL) | 20 | Plate count method | 0 | |

| Tested by | Checked by | Approved by |
|---|---|---|
| May Zaw<br>Research Assistant<br>ALARM | Aye Nyein Thu<br>Research Assistant<br>ALARM | Dr.Aye Aye Win<br>Laboratory In_charged<br>Ecological Laboratory,ALARM |

No.121,Corner of Sbu Khin Than Street & 7 Street, (3) Block, South Oakkalapa Township,Yangon.
Tel: 09-907 956878, Email: aelab.2022@gmail.com

ISO TECH LABORATORY

Laboratory Technical Consultant: U Saw Christopher Maung
B.Sc (Engg) (Civil), Dip. S.E.(Delft), Lecturer at WII (Retd), Graduate (T.C.D.C), LVSE 301,
Human Microbe (UNICEF, Water quality monitoring & Surveillance, Myanmar)

WTL-RE-001
Issue Date - 27-06-2025
Effective Date - 01-09-2025
Issue No - 2.0

W0726 590

## WATER QUALITY TEST RESULTS FORM

| | |
|---|---|
| Client | MPRL E & P |
| Nature of Water | Surface Water |
| Location | Z4SW2, Minbu Township. |
| Date and Time of collection | 22-07-2026 (14:50 PM) |
| Date and Time of arrival at Laboratory | 23-07-2026 |
| Date and Time of commencing examination | 24-07-2026 |
| Date and Time of completing | 25-07-2026 |

**Results of Water Analysis**

**WHO Drinking Water Guideline (Geneva - 1993)**

| Parameters | Result | Unit | Ref: Range |
|---|---|---|---|
| pH | 7.7 | | 6.5 - 8.5 |
| Colour (True) | 200 | TCU | 15 TCU |
| Turbidity | 470 | NTU | 5 NTU |
| Conductivity | 90 | micro Siem | |
| Total Hardness | 40 | mg/l as CaCO3 | 500 mg/l as $CaCO_3$ |
| Total Alkalinity | 50 | mg/l as $CaCO_3$ | |
| Total Suspended Solids | 630 | mg/l | |
| Fluoride (F) | 0.9 | mg/l | 1.5 mg/l |
| Arsenic (As) | Nil | mg/l | 0.01 mg/l |
| Chemical Oxygen Demand (COD) | 64 | mg/l | |

**Remark: This certificate is issued only for the receipt of the test sample.**

**Tested by**
Signature:
Name: Zaw Hein Oo
B.Sc (Chemistry)
Sr. Chemist
ISO Tech Laboratory

**Approved by**
Signature:
Name: Thiri Thein Thein
B.E (Civil)
Senior Engineer
ISO Tech Laboratory



(a division of WEG Co., Ltd.)
No.16, Lanthit Road, Nanthargone Quarter, Insein Township, Yangon, Myanmar.
Ph: 01-640955, 09-660100172, 09-660100173, 01-644506, E-mail: isotechlaboratory@gmail.com, Website: weg-myanmar.com

# ALARM Ecological Laboratory

## Water Testing Result Report

Report Number: EL-WR-26-07242 Date: August 13, 2026

| Client Information | | Sample Information | |
|---|---|---|---|
| Client Name : MPRL E & P Pte Ltd | | Sample ID : 26/07149 | |
| Organization : - | | Sample Name : Z3OW1 | |
| Client ID : - | | Sample Type / Source : Ground Water | |
| Registration Date & Time : 23.7.2026 | | Sampling Date & Time : 22.7.2026 | |
| Contact : 09-5177819 | | Sample Location : Minbu Township | |
| Email : han.m.aung@mpdexp.com | | Latitude : - | |
| Testing Purpose : For Monitoring | | Longitude : - | |

### Testing Results

*This laboratory analysis report is based solely on the sample submitted by the client unless client took our sampling service.*
*This report shall not be reproduced except in full, without written approval of the laboratory.*

| Sr. | Quality Parameters | Results | Units | Drinking Standards | Remarks |
|---|---|---|---|---|---|
| 1 | Temperature[1] | 28 | °C | - | - |
| 2 | Dissolved Oxygen[1] | 4.8 | mg/L | - | - |
| 3 | $BOD_5$ [1] | 3.4 | mg/L | - | - |
| 4 | Boron[1] | 0.21 | mg/L | ≤ 2.4 [1] | Normal |
| 5 | Oil & Grease [1] | 3 | mg/L | - | - |
| 6 | Total Nitrogen[1] | 8.5 | mg/L | - | - |
| 7 | Total Phosphorous[1] | 1.05 | mg/L | - | - |

"ND" = Not Detected "LOD" = Lower Limit of detection "-" = No Reference Standard

| Tested by | Checked by | Approved by |
|---|---|---|
| Daw May Myat Khine<br>Lab. Technician II<br>Ecological Laboratory<br>ALARM | Daw Lin Myat Myat Aung<br>Lab. Technician I<br>Ecological Laboratory<br>ALARM | Dr. Aye Aye Thu<br>Laboratory In-Charge<br>Ecological Laboratory<br>(ALARM) |

No.121, Corner of Shu Khin Thar Street & 7 Street, (3) Block, South Oakkalapa Township, Yangon.
Tel: 09-407496078, Email: aclab.2022@gmail.com

# ALARM Ecological Laboratory

## Microbiology Water Testing Result Report

**Reference Number: EL (M)-R/2343** **Date: 6 August 2026**

### Client Information

| | | |
|---|---|---|
| Client Name | : | MPRL E&P Pte Ltd |
| Organization | : | MPRL E&P Pte Ltd |
| Client ID | : | - |
| Registration Date & Time | : | 23.7.2026 |
| Contact | : | - |
| Email | : | - |
| Testing Purpose | : | For Monitoring |

### Sample Information

| | | |
|---|---|---|
| Sample ID | : | 2343 |
| Sample Name | : | Z30W1 |
| Sample Type / Source | : | Ground Water |
| Sampling Date & Time | : | 22.7.2026 |
| Sample Location | : | Minbu Twp |
| Latitude | : | - |
| Longitude | : | - |

### Testing Results

*This laboratory analysis report is based solely on the sample submitted by the client unless client took our sampling service.*
*This report shall not be reproduced except in full without written approval of the laboratory.*

| Sr. | Quality Parameters | Results | Method | Drinking Standard | Remarks |
|---|---|---|---|---|---|
| 1 | Total plate count (CFU/mL) | | Total plate count method | 0 | |
| 2 | Total coliform count (MPN/100 mL) (Presumption test) | | Most Probable Number method | 0 | |
| 3 | Total fecal coliform count (MPN/100ml) (Presumption test) | | Most Probable Number method | 0 | |
| 4 | Total coliform count (CFU/mL) (Confirm test) | | Eosin Methyl Blue agar plate test | 0 | |
| 5 | complete test for coliform bacteria | | Gram staining test | - | |
| 6 | Total coliform count (CFU/mL) | 5000 | Plate count method | 0 | |
| 7 | Total E.coli count (CFU/mL) | 0 | Plate count method | 0 | |

| Tested by | Checked by | Approved by |
|---|---|---|
| May Zaw<br>Research Assistant<br>ALARM | Aye Nyein Thu<br>Research Assistant<br>ALARM | Dr.Aye Aye Win<br>Laboratory In_charged<br>Ecological Laboratory,ALARM |

No.121,Corner of Shu Khin Thar Street & 7 Street, (3) Block, South Okkalapa Township,Yangon.
Tel: 09-907 956878, Email: ealab.2022@gmail.com

ISO TECH LABORATORY

Laboratory Technical Consultant: U Saw Chi Htaphar Maung
B.Sc (Engg. (Civil), Dip.S.E.(Delft), Lecturer of YIT (Retd), Consultant (FIC.D.C), DWSE-001,
Former Member (UNICEF, Water quality monitoring & Surveillance Programme)

WTL-RE-001
Issue Date - 27-09-2025
Effective Date - 01-09-2025
Issue No - 2.0

W0726 591

## WATER QUALITY TEST RESULTS FORM

| | |
|---|---|
| Client | MPRL E & P |
| Nature of Water | Ground Water |
| Location | Z3GW1, Minbu Township. |
| Date and Time of collection | 22-07-2026 (8:55 AM) |
| Date and Time of arrival at Laboratory | 23-07-2026 |
| Date and Time of commencing examination | 24-07-2026 |
| Date and Time of completing | 25-07-2026 |

**Results of Water Analysis**

**WHO Drinking Water Guideline (Geneva - 1993)**

| Parameters | Result | Unit | Ref: Range |
|---|---|---|---|
| pH | 8.6 | | 6.5 - 8.5 |
| Colour (True) | 5 | TCU | 15 TCU |
| Turbidity | 14 | NTU | 5 NTU |
| Conductivity | 1366 | micro S/cm | |
| Total Hardness | 88 | mg/l as CaCO3 | 500 mg/l as $CaCO_3$ |
| Total Alkalinity | 232 | mg/l as $CaCO_3$ | |
| Total Suspended Solids | 18 | mg/l | |
| Fluoride (F) | 0.2 | mg/l | 1.5 mg/l |
| Arsenic (As) | Nil | mg/l | 0.01 mg/l |
| Chemical Oxygen Demand (COD) | 32 | mg/l | |

**Remark: This certificate is issued only for the receipt of the test sample.**

**Tested by**
Signature:
Name: Zaw Hein Oo
B.Sc (Chemistry)
Sr.Chemist
ISO Tech Laboratory

**Approved by**
Signature:
Name: Thinzar Theint Theint
B.E (Civil)
Senior Engineer
ISO Tech Laboratory



No.18, Landlot Road, Nanthargone Quarter, Insein Township, Yangon, Myanmar.
Ph: 01-640955, 09-880100172, 09-880100173, 01-644506, E-mail: isotechlaboratory@gmail.com, Website: weq-myanmar.com

# ALARM Ecological Laboratory

## Water Testing Result Report

Report Number: EL-WR-26-07243 | Date: August 13, 2026

**Client Information**

| | | |
|---|---|---|
| Client Name | : | MPRL E & P Pte Ltd |
| Organization | : | - |
| Client ID | : | - |
| Registration Date & Time | : | 23.7.2026 |
| Contact | : | 09-5177819 |
| Email | : | hau.n.aung@mprlexp.com |
| Testing Purpose | : | For Monitoring |

**Sample Information**

| | | |
|---|---|---|
| Sample ID | : | 26/07150 |
| Sample Name | : | 240W2 |
| Sample Type / Source | : | Ground Water |
| Sampling Date & Time | : | 22.7.2026 |
| Sample Location | : | Minbu Township |
| Latitude | : | - |
| Longitude | : | - |

### Testing Results

*The laboratory analysis report is based solely on the sample submitted by the client unless client took and sampling service.*
*This report shall not be reproduced except in full without written approval of the laboratory.*

| Sr. | Quality Parameters | Results | Units | Drinking Standards | Remarks |
|---|---|---|---|---|---|
| 1 | Temperature* | 28 | °C | - | - |
| 2 | Dissolved Oxygen* | 6.1 | mg/L | - | - |
| 3 | BOD$_5$* | 3.6 | mg/L | - | - |
| 4 | Boron* | 0.2 | mg/L | 5 2.4 [1] | Normal |
| 5 | Oil & Grease* | 4 | mg/L | - | - |
| 6 | Total Nitrogen* | 8.4 | mg/L | - | - |
| 7 | Total Phosphorous* | 1.68 | mg/L | - | - |

"ND" = Not Detected | "LOD" = Lower Limit of Detection | - = No Reference Standard

| Tested by | Checked by | Approved by |
|---|---|---|
| Daw May Myat Khine<br>Lab. Technician II<br>Ecological Laboratory<br>ALARM | Daw Lin Myat Myat Aung<br>Lab. Technician I<br>Ecological Laboratory<br>ALARM | Dr. Aye Aye W<br>Laboratory In-Charge<br>Ecological Laboratory<br>(ALARM) |

No.121, Corner of Shu Khin That Street & 7 Street, (J) Block, South Okkalapa Township, Yangon.
Tel: 09-897436378, Email: arlab.2022@gmail.com

# ALARM Ecological Laboratory

## Microbiology Water Testing Result Report

**Reference Number: EL (M)-R/2344** **Date: 6 August 2026**

**Client Information**

| | | |
|---|---|---|
| Client Name | : | MPRL E&P Pte Ltd |
| Organization | : | MPRL E&P Pte Ltd |
| Client ID | : | - |
| Registration Date & Time | : | 23.7.2026 |
| Contact | : | - |
| Email | : | - |
| Testing Purpose | : | For Monitoring |

**Sample Information**

| | | |
|---|---|---|
| Sample ID | : | 2344 |
| Sample Name | : | Z40W2 |
| Sample Type / Source | : | Ground Water |
| Sampling Date & Time | : | 22.7.2026 |
| Sample Location | : | Minbu Twp |
| Latitude | : | - |
| Longitude | : | - |

### Testing Results

*This laboratory analysis report is based solely on the sample submitted by the client unless client took our sampling service.*
*This report shall not be reproduced except in full without written approval of the laboratory.*

| Sr. | Quality Parameters | Results | Method | Drinking Standard | Remarks |
|---|---|---|---|---|---|
| 1 | Total plate count (CFU/mL) | | Total plate count method | 0 | |
| 2 | Total coliform count (MPN/100 mL) (Presumption test) | | Most Probable Number method | 0 | |
| 3 | Total faecal coliform count (MPN/100ml) (Presumption test) | | Most Probable Number method | 0 | |
| 4 | Total coliform count (CFU/mL) (Confirm test) | | Eosin Methyl Blue agar plate test | 0 | |
| 5 | complete test for coliform bacteria | | Gram staining test | - | |
| 6 | Total coliform count (CFU/mL) | 1000 | Plate count method | 0 | |
| 7 | Total E.coli count (CFU/mL) | 0 | Plate count method | 0 | |

| Tested by | Checked by | Approved by |
|---|---|---|
| May Zaw<br>Research Assistant<br>ALARM | Aye Nyein Thu<br>Research Assistant<br>ALARM | Dr.Aye Aye Win<br>Laboratory In_charged<br>Ecological Laboratory,ALARM |

No.121,Corner of Shu Khin Thar Street & 7 Street, (3) Block, South Oakkalapa Township,Yangon.
Tel: 09-907 956878, Email: ealab.2022@gmail.com

ISO TECH LABORATORY

Laboratory Technical Consultant: U Saw Christopher Maung
B.Sc. Engg (Chem), Dip. in Ed(Delft) Lecturer of YIT (Retd) Consultant (YCDCL LW39, 97)
Former Member (UNDP, Water quality monitoring & Surveillance Programmers)

WTL-RE-001
Issue Date - 27-09-2025
Effective Date - 01-09-2025
Issue No - 2.0

W0726.592

## WATER QUALITY TEST RESULTS FORM

| | |
|---|---|
| Client | MPRL E & P |
| Nature of Water | Ground Water |
| Location | Z4GW2, Minbu Township. |
| Date and Time of collection | 22-07-2026 (14:10 PM) |
| Date and Time of arrival at Laboratory | 23-07-2026 |
| Date and Time of commencing examination | 24-07-2026 |
| Date and Time of completing | 25-07-2026 |

**Results of Water Analysis**

**WHO Drinking Water Guideline (Geneva - 1993)**

| Parameters | Result | Unit | Ref: Range |
|---|---|---|---|
| pH | 8.2 | | 6.5 - 8.5 |
| Colour (True) | 10 | TCU | 15 TCU |
| Turbidity | 18 | NTU | 5 NTU |
| Conductivity | 12135 | micro S/cm | |
| Total Hardness | 2600 | mg/l as CaCO3 | 500 mg/l as $CaCO_3$ |
| Total Alkalinity | 1600 | mg/l as $CaCO_3$ | |
| Total Suspended Solids | 22 | mg/l | |
| Fluoride (F) | 0.3 | mg/l | 1.5 mg/l |
| Arsenic (As) | Nil | mg/l | 0.01 mg/l |
| Chemical Oxygen Demand (COD) | 32 | mg/l | |

**Remark: This certificate is issued only for the receipt of the test sample.**

Tested by
Signature:
Name: Zaw Helo Oo
B.Sc (Chemistry)
Sr. Chemist
ISO Tech Laboratory

Approved by
Signature:
Name: Thinzar Theint Theint
B.E (Civil)
Senior Engineer
ISO Tech Laboratory



No.18, Lanthit Road, Nanthargone Quarter, Insein Township, Yangon, Myanmar.
Ph: 01-640955, 09-880100172, 09-880100173, 01-644506, E-mail: isotechlaboratory@gmail.com, Website: weg-myanmar.com

# ALARM Ecological Laboratory

## Water Testing Result Report

Report Number: EL-WR-26-07230 Date: August 13, 2026

**Client Information**

| | | |
|---|---|---|
| Client Name | : | MPRL E&P Pte Ltd |
| Organization | : | - |
| Client ID | : | - |
| Registration Date & Time | : | 23.7.2026 |
| Contact | : | 09-5177829 |
| Email | : | han.m.aung@mprlep.com |
| Testing Purpose | : | For Monitoring |

**Sample Information**

| | | |
|---|---|---|
| Sample ID | : | 26/07137 |
| Sample Name | : | Bio-filter Outlet |
| Sample Type / Source | : | Sewage Treated Water |
| Sampling Date & Time | : | 22.7.2026 |
| Sample Location | : | Mabu Township. |
| Latitude | : | - |
| Longitude | : | - |

### Testing Results

*The laboratory analysis report is based solely on the sample submitted by the client unless there was any sampling error.*
*This report shall not be reproduced except in full, without written approval of the laboratory.*

| Sr. | Quality Parameters | Results | Units | Emission Standards | Remarks |
|---|---|---|---|---|---|
| 1 | Dissolved Oxygen[a] | 3.6[a] | mg/L | - | - |
| 2 | BOD,[a] | 36 | mg/L | ≤ 50[b] | Normal |
| 3 | Oil & Grease[a] | 6 | mg/L | ≤ 10[b] | Normal |
| 4 | Total Nitrogen[a] | 14.5 | mg/L | - | - |
| 5 | Total Phosphorus[a] | 1.98 | mg/L | 2[b] | Normal |

"ND" = Not Detected "LOD" = Lower limit of detection "-" = No Reference Standard

| Tested by | Checked by | Approved by |
|---|---|---|
| Daw [illegible] Khine<br>Lab. Technician II<br>Ecological Laboratory<br>ALARM | Daw Lin Myat Myat Aung<br>Lab. Technician I<br>Ecological Laboratory<br>ALARM | Dr. Aye Aye [illegible]<br>Laboratory In-Charge<br>Ecological Laboratory<br>(ALARM) |

No.121, Corner of Shu Khin Thar Street & 7 Street, Gi Block, South Dakhinthiri Township, Yangon.
Tel: 09-407393078, Email: aclab.2022@gmail.com

ISO TECH LABORATORY

Laboratory Technical Consultant: U Saw Christopher Maung

WTL-RE-001
Issue Date - 27-08-2025
Effective Date - 01-09-2025
Issue No - 2.0

W0726 596

## WATER QUALITY TEST RESULTS FORM

| | |
|---|---|
| Client | MPRL E & P |
| Nature of Water | Treated Sewage Water |
| Location | Bio-Filter Outlet, Minbu Township. |
| Date and Time of collection | 22-07-2026 (13:00 PM) |
| Date and Time of arrival at Laboratory | 23-07-2026 |
| Date and Time of commencing examination | 24-07-2026 |
| Date and Time of completing | 25-07-2026 |

**Results of Water Analysis**

**WHO Drinking Water Guideline (Geneva - 1993)**

| Parameters | Result | Unit | Ref: Range |
|---|---|---|---|
| pH | 8.1 | | 6.5 - 8.5 |
| Turbidity | 32 | NTU | 5 NTU |
| Conductivity | 700 | micro S/cm | |
| Total Suspended Solids | 38 | mg/l | |
| Chemical Oxygen Demand (COD) | 64 | mg/l | |

**Remark: This certificate is issued only for the receipt of the test sample.**

Tested by
Signature:
Name: Zaw Hein Oo
B.Sc (Chemistry)
Sr.Chemist
ISO Tech Laboratory

Approved by
Signature:
Name: Thinzar Theint Theint
B.E (Civil)
Senior Engineer
ISO Tech Laboratory



No.55, Lanthit Road, Nanthargone Quarter, Insein Township, Yangon, Myanmar.
Ph: 01-640955, 09-880100172, 09-880100173, 01-644500, E-mail: isotechlaboratory@gmail.com, Website: weg-myanmar.com

ISO TECH LABORATORY
Laboratory Technical Consultant: U Saw Christopher Maung
B.Sc Engg (Civil), Dip.S.E(Delft)-Lecturer at Y.I.T (Retd), Consultant (T.C.D.C), LA/SE 001,
Former Member (UNICEF, Water quality monitoring & Surveillance Myanmar)



M0726 060

## WATER QUALITY TEST (MICROBIOLOGY) RESULTS FORM

| | |
|---|---|
| Client | MPRL E & P |
| Nature of Water | Treated Sewage Water |
| Location | Bio-Filter Outlet, Minbu Township. |
| Date and Time of collection | 22-07-2026 (13:00 PM) |
| Date and Time of arrival at Laboratory | 23-07-2026 |
| Date and Time of commencing examination | 23-07-2026 |
| Date and Time of completing | 25-07-2026 |

**Results of Water Analysis**

| | | | WHO Drinking Water Guideline (Geneva - 1993) |
|---|---|---|---|
| Total Coliform Count | 22 | CFU/100ml | Not detected |
| Thermotolerant (fecal) Coliform Count | 6 | CFU/100ml | Not detected |
| pH | 8.1 | | 6.5 - 8.5 |
| Turbidity | 32 | NTU | 5 NTU |
| Colour (True) | 20 | TCU | 15 TCU |
| Free Chlorine | Nil | mg/l | |
| Total Chlorine | Nil | mg/l | |

: This certificate is issued only for the receipt of the test sample.

: < - Less than

Tested by

Signature: Heinz 25/7

Name: Zaw Hein Oo
B.Sc (Chemistry)
Sr.Chemist
ISO Tech Laboratory

Approved by

Signature: 25/7

Name: Thinzar Theint Theint
B.E (Civil)
Senior Engineer
ISO Tech Laboratory

(a division of WEG Co., Ltd.)
No.18, Lanthit Road, Nanthargone Quarter, Insein Township, Yangon, Myanmar.
Ph: 01-640955, 09-680100172, 09-680100173, 01-644506, E-mail: isotechlaboratory@gmail.com, Website: weg-myanmar.com

# ALARM Ecological Laboratory

## Water Testing Result Report

Report Number: EL-WR-26-07231 Date: August 13, 2026

**Client Information**

| | | |
|---|---|---|
| Client Name | : | MPRL E&P Pte Ltd |
| Organization | : | - |
| Client ID | : | - |
| Registration Date & Time | : | 23.7.2026 |
| Contact | : | 09-5127699 |
| Email | : | han.m.aung@mpdexp.com |
| Testing Purpose | : | For Monitoring |

**Sample Information**

| | | |
|---|---|---|
| Sample ID | : | 26/07139 |
| Sample Name | : | Hydro Test Water |
| Sample Type / Source | : | Warehouse |
| Sampling Date & Time | : | 22.7.2026 |
| Sample Location | : | Minbu Township |
| Latitude | : | - |
| Longitude | : | - |

### Testing Results

*This laboratory analysis report is based solely on the sample submitted by the client without client-side our sampling service.*
*This report shall not be reproduced except in full, without written approval of the laboratory.*

| Sr. | Quality Parameters | Results | Units | Emission Standards | Remarks |
|---|---|---|---|---|---|
| 1 | BOD₅* | 41 | mg/L | ≤ 50 * | Normal |
| 2 | Cadmium* | ND | mg/L | ≤ 0.1 * | LOD = 0.01 mg/L |
| 3 | Lead* | ND | mg/L | ≤ 0.1 * | LOD = 3.1 mg/L |
| 4 | Nickel* | ND | mg/L | ≤ 0.5 * | LOD = 3.1 mg/L |
| 5 | Phenol* | 0.23 | mg/L | ≤ 0.5 * | Normal |
| 6 | Sulfide* | 0.366 | mg/L | ≤ 1 * | Normal |
| 7 | Chromium (Hexavalent)* | <0.02 | mg/L | ≤ 0.1 | Normal |

"ND" = Not Detected "LOD" = Lower Limit of Detection "-" = No Reference Standard

| Tested by | Checked by | Approved by |
|---|---|---|
| Daw M[illegible] Khine<br>Lab. Technician II<br>Ecological Laboratory<br>ALARM | Daw Lin Myat Myat Aung<br>Lab. Technician I<br>Ecological Laboratory<br>ALARM | Dr. Aye Aye [illegible]<br>Laboratory-In-Charge<br>Ecological Laboratory<br>(ALARM) |

No.121, Corner of Shu Khin Thar Street & 7 Street, (3) Block, South Oakkalapa Township, Yangon.
Tel: 09-43740678, Email: aelab.2023@gmail.com

ISO TECH LABORATORY

Laboratory Technical Consultant: U Saw Christopher Maung
B.Sc Engg. (Civil), Dip S.E(Delft) Lecturer of YIT (Retd), Consultant (V.C.D.C), LWSE 001.
Former Member (UNICEF, Water quality monitoring & Surveillance Myanmar)

WTL-RE-001
Issue Date - 27-08-2025
Effective Date - 01-09-2025
Issue No - 2.0

W0726 593

## WATER QUALITY TEST RESULTS FORM

| | |
|---|---|
| Client | MPRL E & P |
| Nature of Water | Hydro Test Water |
| Location | Warehouse, Minbu Township. |
| Date and Time of collection | 22-07-2026 (10:25 AM) |
| Date and Time of arrival at Laboratory | 23-07-2026 |
| Date and Time of commencing examination | 24-07-2026 |
| Date and Time of completing | 25-07-2026 |

**Results of Water Analysis**

**WHO Drinking Water Guideline (Geneva - 1993)**

| Parameters | Result | Unit | Ref: Range |
|---|---|---|---|
| pH | 7.8 | | 6.5 - 8.5 |
| Chloride (as Cl.) | 42 | mg/l | 250 mg/l |
| Total Suspended Solids | 324 | mg/l | |
| Arsenic (As) | Nil | mg/l | 0.01 mg/l |
| Chemical Oxygen Demand (COD) | 96 | mg/l | |
| Zinc (Zn) | Nil | mg/l | 3 mg/l |
| Copper (Cu) | Nil | mg/l | 2 mg/l |

**Remark: This certificate is issued only for the receipt of the test sample.**

Tested by
Signature: Hein 25/7
Name: Zaw Hein Oo
B.Sc (Chemistry)
Sr.Chemist
ISO Tech Laboratory

Approved by
Signature: 25/7
Name: Thinzar Theint Theint
B.E (Civil)
Senior Engineer
ISO Tech Laboratory



No.18, Lanthit Road, Nanthargone Quarter, Insein Township, Yangon, Myanmar.
Ph: 01-640955, 09-880100172, 09-880100173, 01-644506, E-mail: isotechlaboratory@gmail.com, Website: weg-myanmar.com

# ALARM Ecological Laboratory

## Water Testing Result Report

Report Number: EL-WR-26-07237 Date: August 13, 2026

**Client Information**

| | | |
|---|---|---|
| Client Name | : | MPRL E&P Ptd Ltd |
| Organization | : | - |
| Client ID | : | - |
| Registration Date & Time | : | 23.7.2026 |
| Contact | : | 09-5177819 |
| Email | : | han.m.aung@morlexp.com |
| Testing Purpose | : | For Monitoring |

**Sample Information**

| | | |
|---|---|---|
| Sample ID | : | 26707144 |
| Sample Name | : | Down-hole Workshop |
| Sample Type / Source | : | Domestic Waste Water |
| Sampling Date & Time | : | 22.7.2026 |
| Sample Location | : | Minbu Township |
| Latitude | : | - |
| Longitude | : | - |

### Testing Results

*This laboratory analysis report is based solely on the sample submitted by the client unless client took our sampling service.*
*This report shall not be reproduced except in full, without written approval of the laboratory.*

| Sr. | Quality Parameters | Results | Units | Emission Standards | Remarks |
|---|---|---|---|---|---|
| 1 | Iron[1] | 0.978 | mg/L | ≤ 3.5 [4] | Normal |
| 2 | Ammonia[2] | 0.36 | mg/L | ≤ 10 [4] | Normal |
| 3 | Free Cyanide[2] | 0.17 | mg/L | - | - |
| 4 | $BOD_5$[3] | 38 | mg/L | ≤ 50 [4] | Normal |
| 5 | Cadmium[1] | ND | mg/L | ≤ 0.1 [5] | LOD = 0.01 mg/L |
| 6 | Lead[1] | ND | mg/L | ≤ 0.1 [5] | LOD = 0.1 mg/L |
| 7 | Nickel[1] | 0.31 | mg/L | ≤ 0.5 [4] | Normal |
| 8 | Sulfide[2] | 0.13 | mg/L | ≤ 1 [4] | Normal |
| 9 | Phenol[2] | 0.28 | mg/L | ≤ 0.5 [4] | Normal |
| 10 | Chromium (Hexavalent)[2] | < 0.02 | mg/L | ≤ 0.1 | Normal |
| 11 | Oil & Grease [3] | 7 | mg/L | ≤ 10 [4] | Normal |
| 12 | Total Phosphorous[1] | 1.26 | mg/L | 52 [6] | Normal |

"ND" = Not Detected "LOD" = Lower Limit of detection "-" = No Reference Standard

| Tested by | Checked by | Approved by |
|---|---|---|
| Daw May Myat Khine<br>Lab. Technician II<br>Ecological Laboratory<br>ALARM | Daw Lin Myat Myat Aung<br>Lab. Technician I<br>Ecological Laboratory<br>ALARM | Dr. Aye Aye Wai<br>Laboratory In-Charge<br>Ecological Laboratory<br>(ALARM) |

No.121, Corner of Shu Khin Thar Street & 7 Street, (3) Block, South Oakkalapa Township, Yangon.
Tel: 09-407496078, Email: aclab.2022@gmail.com

ISO TECH LABORATORY

Laboratory Technical Consultant: U Saw Christopher Maung
B.Sc Engg (Civil), Dip S.E(Delft) Lecturer of YIT (Retd), Consultant (Y.C.D.C), LWSE 001
Former Member (UNICEF, Water quality monitoring & Surveillance Myanmar)

W0726 594

WTL-RE-001
Issue Date - 27-08-2025
Effective Date - 01-09-2025
Issue No - 2.0

## WATER QUALITY TEST RESULTS FORM

| | |
|---|---|
| Client | MPRL E & P |
| Nature of Water | Domestic Wastewater |
| Location | Down-Hole Workshop, Minbu Township. |
| Date and Time of collection | 22-07-2026 (10:35 AM) |
| Date and Time of arrival at Laboratory | 23-07-2026 |
| Date and Time of commencing examination | 24-07-2026 |
| Date and Time of completing | 25-07-2026 |

**Results of Water Analysis** — **WHO Drinking Water Guideline (Geneva - 1993)**

| Parameters | Result | Unit | Ref: Range |
|---|---|---|---|
| pH | 7.6 | | 6.5 - 8.5 |
| Total Suspended Solids | 62 | mg/l | |
| Temperature (°C) | 25.0 | °C | |
| Fluoride (F) | 0.6 | mg/l | 1.5 mg/l |
| Arsenic (As) | Nil | mg/l | 0.01 mg/l |
| Chlorine (Residual) | Nil | mg/l | |
| Chemical Oxygen Demand (COD) | 64 | mg/l | |
| Cyanide (CN) | 0.049 | mg/l | 0.07 mg/l |
| Zinc (Zn) | Nil | mg/l | 3 mg/l |
| Copper (Cu) | Nil | mg/l | 2 mg/l |

**Remark: This certificate is issued only for the receipt of the test sample.**

**Tested by**
Signature: Heinn 25/7
Name: Zaw Hein Oo
B.Sc (Chemistry)
Sr. Chemist
ISO Tech Laboratory

**Approved by**
Signature: 25/7
Name: Thingar Theint Theint
B.E (Civil)
Senior Engineer
ISO Tech Laboratory



(a division of WEG Co., Ltd.)
No.18, Lanthit Road, Nanthargone Quarter, Insein Township, Yangon, Myanmar.
Ph: 01-640955, 09-880100172, 09-880100173, 01-644506, E-mail: isotechlaboratory@gmail.com, Website: weg-myanmar.com

ISO TECH LABORATORY

Laboratory Technical Consultant: U Saw Christopher Maung
B.Sc Engg (Civil), Dip S.E(Delft) Lecturer at YIT (Retd), Consultant (V.C.D.C), LWSE 001
Former Member (UNICEF, Water quality monitoring & Surveillance Myanmar)



**M0726 058**

## WATER QUALITY TEST (MICROBIOLOGY) RESULTS FORM

| | |
|---|---|
| Client | MPRL E & P |
| Nature of Water | Domestic Wastewater |
| Location | Down-Hole Workshop, Minbu Township. |
| Date and Time of collection | 22-07-2026 (10:35 AM) |
| Date and Time of arrival at Laboratory | 23-07-2026 |
| Date and Time of commencing examination | 23-07-2026 |
| Date and Time of completing | 25-07-2026 |

**Results of Water Analysis**

| | | | WHO Drinking Water Guideline (Geneva - 1993) |
|---|---|---|---|
| Total Coliform Count | 20 | CFU/100ml | Not detected |
| Thermotolerant (fecal) Coliform Count | 8 | CFU/100ml | Not detected |
| pH | 7.6 | | 6.5 - 8.5 |
| Turbidity | 48 | NTU | 5 NTU |
| Colour (True) | 30 | TCU | 15 TCU |
| Free Chlorine | Nil | mg/l | |
| Total Chlorine | Nil | mg/l | |

: This certificate is issued only for the receipt of the test sample.

: < - Less than

**Tested by**

Signature:

Name: Zaw Htein Oo
B.Sc (Chemistry)
Sr. Chemist
ISO Tech Laboratory

**Approved by**

Signature:

Name: Thinzar Theint Theint
B.E (Civil)
Senior Engineer
ISO Tech Laboratory

(a division of WEG Co., Ltd.)
No.18, Lanthit Road, Nanthargone Quarter, Insein Township, Yangon, Myanmar.
Ph: 01-640955, 09-880100172, 09-880100173, 01-644506, E-mail: isotechlaboratory@gmail.com, Website: weg-myanmar.com

# ALARM Ecological Laboratory

## Water Testing Result Report

Report Number: EL-WR-26-07236 Date: August 13, 2026

**Client Information**

| | | |
|---|---|---|
| Client Name | : | MPRL E&P Pte Ltd |
| Organization | : | - |
| Client ID | : | - |
| Registration Date & Time | : | 23.7.2026 |
| Contact | : | 09-5177819 |
| Email | : | han.m.aung@morlop.com |
| Testing Purpose | : | For Monitoring |

**Sample Information**

| | | |
|---|---|---|
| Sample ID | : | 26/07143 |
| Sample Name | : | Mechanical Workshop |
| Sample Type / Source | : | Domestic Waste Water |
| Sampling Date & Time | : | 22.7.2026 |
| Sample Location | : | Minbu Township. |
| Latitude | : | - |
| Longitude | : | - |

### Testing Results

*This laboratory analysis report is issued solely on the sample submitted by the client unless client took our sampling service.*
*This report shall not be reproduced except in full, without written approval of the laboratory.*

| Sr. | Quality Parameters | Results | Units | Emission Standards | Remarks |
|---|---|---|---|---|---|
| 1 | Ammonia[1] | 0.21 | mg/L | ≤ 10[4] | Normal |
| 2 | $BOD_5$[1] | 32 | mg/L | ≤ 50[4] | Normal |
| 3 | Free Cyanide[1] | 0.15 | mg/L | ≤ 0.1[4] | Above the Limit |
| 4 | Cadmium[1] | 0.02 | mg/L | ≤ 0.1[4] | Normal |
| 5 | Iron[1] | 0.928 | mg/L | ≤ 3.5[4] | Normal |
| 6 | Lead[1] | ND | mg/L | ≤ 0.1[4] | LOD = 0.1 mg/L |
| 7 | Nickel[1] | 0.2 | mg/L | ≤ 0.5[4] | Normal |
| 8 | Sulfide[1] | 0.12 | mg/L | ≤ 1[4] | Normal |
| 9 | Phenol[1] | 0.21 | mg/L | ≤ 0.5[4] | Normal |
| 10 | Oil & Grease[1] | 6 | mg/L | ≤ 10[4] | Normal |
| 11 | Chromium (Hexavalent)[2] | < 0.02 | mg/L | ≤ 0.1 | Normal |
| 12 | Total Phosphorous[3] | 2.0 | mg/L | ≤2[4] | Normal |

"ND" = Not Detected "LOD" = Lower limit of detection "-" = No Reference Standard

| Tested by | Checked by | Approved by |
|---|---|---|
| Daw May Myat Khine<br>Lab. Technician II<br>Ecological Laboratory<br>ALARM | Daw Lin Myat Myat Aung<br>Lab. Technician I<br>Ecological Laboratory<br>ALARM | Dr. Aye Aye Wai<br>Laboratory In-Charge<br>Ecological Laboratory<br>(ALARM) |

No.121, Corner of Shu Khin Thar Street & 7 Street, (3) Block, South Okkalapa Township, Yangon.
Tel: 09-407496078, Email: aelab.2022@gmail.com

ISO TECH LABORATORY
Laboratory Technical Consultant: U Saw Christopher Maung
B.Sc Engg. (Civil), Dip S.E.(Delft) Lecturer of YIT (Retd), Consultant (W.C.D.C), UNDE (Dr.
Former Member (UNICEF, Water quality monitoring & Surveillance, Myanmar)

W0726 595

WTL-RE-001
Issue Date - 27-08-2025
Effective Date - 01-09-2025
Issue No - 2.0

## WATER QUALITY TEST RESULTS FORM

| | |
|---|---|
| Client | MPRL E & P |
| Nature of Water | Domestic Wastewater |
| Location | Mechanical Workshop, Minbu Township. |
| Date and Time of collection | 22-07-2026 (11:00 AM) |
| Date and Time of arrival at Laboratory | 23-07-2026 |
| Date and Time of commencing examination | 24-07-2026 |
| Date and Time of completing | 25-07-2026 |

**Results of Water Analysis**

**WHO Drinking Water Guideline (Geneva - 1993)**

| Parameters | Result | Unit | Ref: Range |
|---|---|---|---|
| pH | 7.9 | | 6.5 - 8.5 |
| Total Suspended Solids | 42 | mg/l | |
| Temperature (°C) | 25.0 | °C | |
| Fluoride (F) | 0.8 | mg/l | 1.5 mg/l |
| Arsenic (As) | Nil | mg/l | 0.01 mg/l |
| Chlorine (Residual) | Nil | mg/l | |
| Chemical Oxygen Demand (COD) | 64 | mg/l | |
| Cyanide (CN) | 0.051 | mg/l | 0.07 mg/l |
| Zinc (Zn) | Nil | mg/l | 3 mg/l |
| Copper (Cu) | Nil | mg/l | 2 mg/l |

**Remark: This certificate is issued only for the receipt of the test sample.**

**Tested by**
Signature:
Name: Zaw Hein Oo
B.Sc (Chemistry)
Sr.Chemist
ISO Tech Laboratory

**Approved by**
Signature:
Name: Thinzar Theint Theint
B.E (Civil)
Senior Engineer
ISO Tech Laboratory



No.18, Lanthit Road, Nanthargone Quarter, Insein Township, Yangon, Myanmar.
Ph: 01-640955, 09-880100172, 09-880100173, 01-644506, E-mail: isotechlaboratory@gmail.com, Website: weg-myanmar.com

ISO TECH LABORATORY
Laboratory Technical Consultant: U Saw Christopher Maung
B.Sc Engg (Civil), Dip S.E (Delft) Lecturer of YIT (Retd), Consultant (W.C.D.C), LVSE (07)
Former Member (UNICEF, Water quality monitoring & Surveillance Myanmar)

WTL-RE-005
Issue Date - 01-1-2016
Effective Date - 01-1-2016
Issue No - 1.0/Page 1 of 1

M0726 059

## WATER QUALITY TEST (MICROBIOLOGY) RESULTS FORM

| | |
|---|---|
| Client | MPRL E & P |
| Nature of Water | Domestic Wastewater |
| Location | Mechanical Workshop, Minbu Township. |
| Date and Time of collection | 22-07-2026 (11:00 AM) |
| Date and Time of arrival at Laboratory | 23-07-2026 |
| Date and Time of commencing examination | 23-07-2026 |
| Date and Time of completing | 25-07-2026 |

**Results of Water Analysis**

| | | | WHO Drinking Water Guideline (Geneva - 1993) |
|---|---|---|---|
| Total Coliform Count | 16 | CFU/100ml | Not detected |
| Thermotolerant (fecal) Coliform Count | 6 | CFU/100ml | Not detected |
| pH | 7.9 | | 6.5 - 8.5 |
| Turbidity | 38 | NTU | 5 NTU |
| Colour (True) | 30 | TCU | 15 TCU |
| Free Chlorine | Nil | mg/l | |
| Total Chlorine | Nil | mg/l | |

: This certificate is issued only for the receipt of the test sample.

: < - Less than

Tested by
Signature: 25/7
Name: Zaw Hein Oo
B.Sc (Chemistry)
Sr.Chemist
ISO Tech Laboratory

Approved by
Signature: 25/7
Name: Thinzar Theint Theint
B.E (Civil)
Senior Engineer
ISO Tech Laboratory

(a division of WEG Co., Ltd.)
No.18, Lanthit Road, Nanthargone Quarter, Insein Township, Yangon, Myanmar.
Ph: 01-640955, 09-880100172, 09-880100173, 01-644506, E-mail: isotechlaboratory@gmail.com, Website: weg-myanmar.com

# ALARM Ecological Laboratory

## Water Testing Result Report

Report Number: EL-WR-26-07234 | Date: August 13, 2026

### Client Information

| | | |
|---|---|---|
| Client Name | : | MPRL E&P Ptd Ltd |
| Organization | : | - |
| Client ID | : | - |
| Registration Date & Time | : | 23.7.2026 |
| Contact | : | 09-5177519 |
| Email | : | han.m.aung@mpiexp.com |
| Testing Purpose | : | For Monitoring |

### Sample Information

| | | |
|---|---|---|
| Sample ID | : | 26/07141 |
| Sample Name | : | R.O Drinking Water |
| Sample Type / Source | : | Drinking Water |
| Sampling Date & Time | : | 22.7.2026 |
| Sample Location | : | Minbu Twp |
| Latitude | : | - |
| Longitude | : | - |

### Testing Results

*The laboratory analysis report is based solely on the sample submitted by the client unless client took our sampling service.*
*This report shall not be reproduced except in full, without written approval of the laboratory.*

| Sr. | Quality Parameters | Results | Units | Drinking Standards | Remarks |
|---|---|---|---|---|---|
| 1 | Iron[1] | < 0.03 | mg/L | ≤1[2] | Normal |
| 2 | Manganese[3] | < 0.1 | mg/L | ≤0.4[4] | Normal |
| 3 | Lead[5] | ND | mg/L | ≤0.01[4] | LOD = 0.1 mg/L |

"ND" = Not Detected | "LOD" = Lower limit of detection | "-" = No Reference Standard

| Tested by | Checked by | Approved by |
|---|---|---|
| Daw May Myat Khine<br>Lab. Technician II<br>Ecological Laboratory<br>ALARM | Daw Lin Myat Myat Aung<br>Lab. Technician I<br>Ecological Laboratory<br>ALARM | Dr. Aye Aye Win<br>Laboratory In-Charge<br>Ecological Laboratory<br>(ALARM) |

No.121, Corner of Shu Khin Thar Street & 7 Street, (3) Block, South Okkalapa Township, Yangon.
Tel: 09-407496078, Email: aclab.2022@gmail.com

ISO TECH LABORATORY

Laboratory Technical Consultant: U Saw Christopher Maung
B.Sc Engg (Civil), Dip.S.P.(Delft) Lecturer of YIT (Retd), Consultant (W.C.D.C), UNISE 001
Former Member (UNICEF, Water quality monitoring & Surveillance Myanmar)

WTL-RE-001
Issue Date - 27-08-2025
Effective Date - 01-09-2025
Issue No - 2.0

W0726 585

## WATER QUALITY TEST RESULTS FORM

| | |
|---|---|
| Client | MPRL E & P |
| Nature of Water | Treated Water |
| Location | RO Drinking Water, Minbu Township. |
| Date and Time of collection | 22-07-2026 (12:50 PM) |
| Date and Time of arrival at Laboratory | 23-07-2026 |
| Date and Time of commencing examination | 24-07-2026 |
| Date and Time of completing | 25-07-2026 |

**Results of Water Analysis**

**WHO Drinking Water Guideline (Geneva - 1993)**

| Parameters | Result | Unit | Ref: Range |
|---|---|---|---|
| pH | 7.1 | | 6.5 - 8.5 |
| Colour (True) | Nil | TCU | 15 TCU |
| Turbidity | Nil | NTU | 5 NTU |
| Total Hardness | 2 | mg/l as CaCO3 | 500 mg/l as $CaCO_3$ |
| Chloride (as CL) | 11 | mg/l | 250 mg/l |
| Sulphate (as $SO_4$) | Nil | mg/l | 500 mg/l |
| Total Dissolved Solids | 19 | mg/l | 1000 mg/l |
| Arsenic (As) | Nil | mg/l | 0.01 mg/l |
| Nitrate ($N.NO_3$) | Nil | mg/l | 50 mg/l |

**Remark: This certificate is issued only for the receipt of the test sample.**

**Tested by**
Signature:
Name: Zaw Hein Oo
B.Sc (Chemistry)
Sr.Chemist
ISO Tech Laboratory

**Approved by**
Signature:
Name: Thinzar Theint Theint
B.E (Civil)
Senior Engineer
ISO Tech Laboratory



No.18, Lanthit Road, Nanthargone Quarter, Insein Township, Yangon, Myanmar.
Ph: 01-640955, 09-880100172, 09-880100173, 01-644506, E-mail: isotechlaboratory@gmail.com, Website: weg-myanmar.com

ISO TECH LABORATORY
Laboratory Technical Consultant: U Saw Christopher Maung
B.Sc Engg (Civil), Dip S.E(Delft) Lecturer of YIT (Retd), Consultant (YCDC), LWSE 001,
Former Member (UNICEF, Water quality monitoring & Surveillance Myanmar)

WTL-RE-005
Issue Date - 01-1-2016
Effective Date - 01-1-2016
Issue No - 1.0/Page 1 of 1

M0726 056

## WATER QUALITY TEST (MICROBIOLOGY) RESULTS FORM

| | |
|---|---|
| Client | MPRL E & P |
| Nature of Water | Treated Water |
| Location | RO Drinking Water, Minbu Township. |
| Date and Time of collection | 22-07-2026 (12:50 PM) |
| Date and Time of arrival at Laboratory | 23-07-2026 |
| Date and Time of commencing examination | 23-07-2026 |
| Date and Time of completing | 25-07-2026 |

**Results of Water Analysis**

| | | | **WHO Drinking Water Guideline (Geneva - 1993)** |
|---|---|---|---|
| Total Coliform Count | Not detected (<1) | CFU/100ml | Not detected |
| Thermotolerant (fecal) Coliform Count | Not detected (<1) | CFU/100ml | Not detected |
| pH | 7.1 | | 6.5 - 8.5 |
| Turbidity | Nil | NTU | 5 NTU |
| Colour (True) | Nil | TCU | 15 TCU |
| Free Chlorine | Nil | mg/l | |
| Total Chlorine | Nil | mg/l | |

**Remark : Satisfactory for drinking purpose.**

**: This certificate is issued only for the receipt of the test sample.**

**: < - Less than**

**Tested by**

Signature: Haine 25/7

Name: Zaw Hein Oo
B.Sc (Chemistry)
Sr.Chemist
ISO Tech Laboratory

**Approved by**

Signature: 25/7

Name: Thinzar Theint Theint
B.E (Civil)
Senior Engineer
ISO Tech Laboratory

(a division of WEG Co., Ltd.)
No.18, Lanthit Road, Nanthargone Quarter, Insein Township, Yangon, Myanmar.
Ph: 01-640955, 09-880100172, 09-880100173, 01-644506, E-mail: isotechlaboratory@gmail.com, Website: weg-myanmar.com

# ALARM Ecological Laboratory

## Water Testing Result Report

Report Number: EL-WR-26-007232 Date: August 13, 2026

**Client Information**

| | | |
|---|---|---|
| Client Name | : | MPRL E&P Pte Ltd |
| Organization | : | - |
| Client ID | : | - |
| Registration Date & Time | : | 23.7.2026 |
| Contact | : | 09-5177819 |
| Email | : | han.m.aung@mprlexp.com |
| Testing Purpose | : | For Monitoring |

**Sample Information**

| | | |
|---|---|---|
| Sample ID | : | 26/07139 |
| Sample Name | : | Ko Win Mg (Tube Well) |
| Sample Type / Source | : | - |
| Sampling Date & Time | : | 22.7.2026 |
| Sample Location | : | Minbu Township. |
| Latitude | : | - |
| Longitude | : | - |

### Testing Results

*This laboratory analysis report is based solely on the sample submitted by the client unless client took our sampling service.*
*This report shall not be reproduced except in full, without written approval of the laboratory.*

| Sr. | Quality Parameters | Results | Units | Drinking Standards | Remarks |
|---|---|---|---|---|---|
| 1 | Iron[1] | < 0.02 | mg/L | ≤1[1] | Normal |
| 2 | Manganese[2] | < 0.1 | mg/L | ≤0.4[1] | Normal |
| 3 | Lead[3] | ND | mg/L | ≤0.01[1] | LOD = 0.1 mg/L |

"ND" = Not Detected "LOD" = Lower limit of detection "-" = No Reference Standard

| Tested by | Checked by | Approved by |
|---|---|---|
| Daw May [illegible] Khine<br>Lab. Technician II<br>Ecological Laboratory<br>ALARM | Daw Lin Myat Myat Aung<br>Lab. Technician I<br>Ecological Laboratory<br>ALARM | Dr. Aye Aye [illegible]<br>Laboratory In-Charge<br>Ecological Laboratory<br>(ALARM) |

No.121, Corner of Shu Khin Thar Street & 7 Street, (3) Block, South Okkalapa Township, Yangon.
Tel: 09-407196078, Email: aelab.2022@gmail.com

ISO TECH LABORATORY

Laboratory Technical Consultant: U Saw Christopher Maung
B.Sc Engg. (Civil), Dip S.E.(Delft) Lecturer of YIT (Rtrd), Consultant [YCDC], LWSE 001.
Former Member (UNICEF, Water quality monitoring & Surveillance Myanmar)

W0726 584

WTL-RE-001
Issue Date - 27-08-2025
Effective Date - 01-09-2025
Issue No - 2.0

## WATER QUALITY TEST RESULTS FORM

| | |
|---|---|
| Client | MPRL E & P |
| Nature of Water | Tube Well Water |
| Location | Ko Win Mg, Minbu Township. |
| Date and Time of collection | 22-07-2026 (10:15 AM) |
| Date and Time of arrival at Laboratory | 23-07-2026 |
| Date and Time of commencing examination | 24-07-2026 |
| Date and Time of completing | 25-07-2026 |

**Results of Water Analysis**

**WHO Drinking Water Guideline (Geneva - 1993)**

| Parameters | Result | Unit | Ref: Range |
|---|---|---|---|
| pH | 7.8 | | 6.5 - 8.5 |
| Colour (True) | 5 | TCU | 15 TCU |
| Turbidity | 10 | NTU | 5 NTU |
| Total Hardness | 244 | mg/l as CaCO3 | 500 mg/l as $CaCO_3$ |
| Chloride (as CL) | 70 | mg/l | 250 mg/l |
| Sulphate (as $SO_4$) | 113 | mg/l | 500 mg/l |
| Total Dissolved Solids | 677 | mg/l | 1000 mg/l |
| Arsenic (As) | Nil | mg/l | 0.01 mg/l |
| Nitrate ($N.NO_3$) | Nil | mg/l | 50 mg/l |

**Remark: This certificate is issued only for the receipt of the test sample.**

**Tested by**
Signature: Heinz 25/7
Name: Zaw Hein Oo
B.Sc (Chemistry)
Sr.Chemist
ISO Tech Laboratory

**Approved by**
Signature: 25/7
Name: Thinzar Theint Theint
B.E (Civil)
Senior Engineer
ISO Tech Laboratory



No.18, Lanthit Road, Nanthargone Quarter, Insein Township, Yangon, Myanmar.
Ph: 01-640955, 09-880100172, 09-880100173, 01-644506, E-mail: isotechlaboratory@gmail.com, Website: weg-myanmar.com

ISO TECH LABORATORY
Laboratory Technical Consultant: U Saw Christopher Maung
B.Sc Engg (Civil), Dip S.E (Delft) Lecturer of YIT (Retd), Consultant (YCDCL LWSE 001)
Former Member (UNICEF, Water quality monitoring & Surveillance Myanmar)



M0726 055

## WATER QUALITY TEST (MICROBIOLOGY) RESULTS FORM

| | |
|---|---|
| Client | MPRL E & P |
| Nature of Water | Tube Well Water |
| Location | Ko Win Mg. Minbu Township. |
| Date and Time of collection | 22-07-2026 (10:15 AM) |
| Date and Time of arrival at Laboratory | 23-07-2026 |
| Date and Time of commencing examination | 23-07-2026 |
| Date and Time of completing | 25-07-2026 |

**Results of Water Analysis**

| | | | **WHO Drinking Water Guideline (Geneva - 1993)** |
|---|---|---|---|
| Total Coliform Count | 2 | CFU/100ml | Not detected |
| Thermotolerant (fecal) Coliform Count | Not detected (<1) | CFU/100ml | Not detected |
| pH | 7.8 | | 6.5 - 8.5 |
| Turbidity | 10 | NTU | 5 NTU |
| Colour (True) | 5 | TCU | 15 TCU |
| Free Chlorine | Nil | mg/l | |
| Total Chlorine | Nil | mg/l | |

**Remark : Unsatisfactory for drinking purpose.**

**: This certificate is issued only for the receipt of the test sample.**

**: < - Less than**

**Tested by**

Signature:

Name: Zaw Hein Oo
E.Sc (Chemistry)
Sr.Chemist
ISO Tech Laboratory

**Approved by**

Signature:

Name: Thinzar Theint Theint
B.E (Civil)
Senior Engineer
ISO Tech Laboratory

(a division of WEG Co., Ltd.)
No.18, Lanchit Road, Nanthargone Quarter, Insein Township, Yangon, Myanmar.
Ph: 01-640955, 09-880100172, 09-880100173, 01-644506, E-mail: isotechlaborstory@gmail.com, Website: weg-myanmar.com

# ALARM Ecological Laboratory

## Water Testing Result Report

Report Number: EL-WR-26-07233 | Date: August 13, 2026

**Client Information**

| | | |
|---|---|---|
| Client Name | : | MPRL E&P Ptd Ltd |
| Organization | : | - |
| Client ID | : | - |
| Registration Date & Time | : | 23.7.2026 |
| Contact | : | 09-5177819 |
| Email | : | ben.m.aung@mprlexp.com |
| Testing Purpose | : | For Monitoring |

**Sample Information**

| | | |
|---|---|---|
| Sample ID | : | 26/07140 |
| Sample Name | : | Ma Nyein (Tube Well) |
| Sample Type / Source | : | - |
| Sampling Date & Time | : | 22.7.2026 |
| Sample Location | : | Minbu Township. |
| Latitude | : | - |
| Longitude | : | - |

### Testing Results

*This laboratory analysis report is based solely on the sample submitted by the client unless client took our sampling service.*
*This report shall not be reproduced except in full, without written approval of the laboratory.*

| Sr. | Quality Parameters | Results | Units | Drinking Standards | Remarks |
|---|---|---|---|---|---|
| 1 | Iron[1] | < 0.02 | mg/L | ≤1[1] | Normal |
| 2 | Manganese[1] | < 0.1 | mg/L | ≤0.4[1] | Normal |
| 3 | Lead[1] | ND | mg/L | ≤0.01[1] | LOD = 0.1 mg/L |

"ND" = Not Detected | "LOD" = Lower limit of detection | "-" = No Reference Standard

| Tested by | Checked by | Approved by |
|---|---|---|
| Daw May Myat Khine<br>Lab. Technician II<br>Ecological Laboratory<br>ALARM | Daw Lin Myat Myat Aung<br>Lab. Technician I<br>Ecological Laboratory<br>ALARM | Dr. Aye Aye Mu<br>Laboratory In-Charge<br>Ecological Laboratory<br>(ALARM) |

No.121, Corner of Shu Khin Thar Street & 7 Street, (3) Block, South Oakkalapa Township,Yangon.
Tel: 09-407496078, Email: aclab.2022@gmail.com

ISO TECH LABORATORY
Laboratory Technical Consultant: U Saw Christopher Maung
B.Sc Engg (Civil), Dip S.E(Delft) Lecturer of YIT (Retd), Consultant (YCDC), LWSE 001
Former Member (UNICEF, Water quality monitoring & Surveillance Myanmar)

WTL-RE-001
Issue Date - 27-08-2025
Effective Date - 01-09-2025
Issue No - 2.0

W0726 583

## WATER QUALITY TEST RESULTS FORM

| | |
|---|---|
| Client | MPRL E & P |
| Nature of Water | Tube Well Water |
| Location | Ma Nyein, Minbu Township. |
| Date and Time of collection | 22-07-2026 (10:00 AM) |
| Date and Time of arrival at Laboratory | 23-07-2026 |
| Date and Time of commencing examination | 24-07-2026 |
| Date and Time of completing | 25-07-2026 |

**Results of Water Analysis**

**WHO Drinking Water Guideline (Geneva - 1993)**

| Parameters | Result | Unit | Ref: Range |
|---|---|---|---|
| pH | 8.3 | | 6.5 - 8.5 |
| Colour (True) | 5 | TCU | 15 TCU |
| Turbidity | 12 | NTU | 5 NTU |
| Total Hardness | 112 | mg/l as CaCO3 | 500 mg/l as $CaCO_3$ |
| Chloride (as CL) | 30 | mg/l | 250 mg/l |
| Sulphate (as $SO_4$) | 89 | mg/l | 500 mg/l |
| Total Dissolved Solids | 609 | mg/l | 1000 mg/l |
| Arsenic (As) | Nil | mg/l | 0.01 mg/l |
| Nitrate ($N.NO_3$) | Nil | mg/l | 50 mg/l |

**Remark: This certificate is issued only for the receipt of the test sample.**

Tested by
Signature: Heinz 25/7
Name: Zaw Hein Oo
B.Sc (Chemistry)
Sr. Chemist
ISO Tech Laboratory

Approved by
Signature: 25/7
Name: Thinzar Theint Theint
B.E (Civil)
Senior Engineer
ISO Tech Laboratory



No.18, Lanthit Road, Nanthargone Quarter, Insein Township, Yangon, Myanmar.
Ph: 01-640955, 09-880100172, 09-880100173, 01-644506, E-mail: isotechlaboratory@gmail.com, Website: weg-myanmar.com

ISO TECH LABORATORY

Laboratory Technical Consultant: U Saw Christopher Maung
B.Sc Engg (Civil), Dip S.E(Delft) Lecturer of YIT (Retd), Consultant (YCDC), LWSE 001,
Former Member (UNICEF, Water quality monitoring & Surveillance Myanmar)



M0726 054

## WATER QUALITY TEST (MICROBIOLOGY) RESULTS FORM

| | |
|---|---|
| Client | MPRL E & P |
| Nature of Water | Tube Well Water |
| Location | Ma Nyein, Minbu Township. |
| Date and Time of collection | 22-07-2026 (10:00 AM) |
| Date and Time of arrival at Laboratory | 23-07-2026 |
| Date and Time of commencing examination | 23-07-2026 |
| Date and Time of completing | 25-07-2026 |

**Results of Water Analysis**

| | | | **WHO Drinking Water Guideline (Geneva - 1993)** |
|---|---|---|---|
| Total Coliform Count | 3 | CFU/100ml | Not detected |
| Thermotolerant (fecal) Coliform Count | Not detected (<1) | CFU/100ml | Not detected |
| pH | 8.3 | | 6.5 - 8.5 |
| Turbidity | 12 | NTU | 5 NTU |
| Colour (True) | 5 | TCU | 15 TCU |
| Free Chlorine | Nil | mg/l | |
| Total Chlorine | Nil | mg/l | |

**Remark :** Unsatisfactory for drinking purpose.

: This certificate is issued only for the receipt of the test sample.

: < - Less than

**Tested by**

Signature:

Name: Zaw Hein Oo
B.Sc (Chemistry)
Sr.Chemist
ISO Tech Laboratory

**Approved by**

Signature:

Name: Thinzar Theint Theint
B.E (Civil)
Senior Engineer
ISO Tech Laboratory

(a division of WEG Co., Ltd.)
No.18, Lanthit Road, Nanthargone Quarter, Insein Township, Yangon, Myanmar.
Ph: 01-640655, 09-860100172, 09-880100173, 01-644506, E-mail: isotechlaboratory@gmail.com, Website: weg-myanmar.com

MPRL E&P

Build through Excellence

Lead with Integrity


**MPRL E&P Pte Ltd.**

Vantage Tower, 623 Pyay Road
Kamayut Township 11041, Yangon, Myanmar
Tel. : +95 1 230 7733 Fax : +95 1 230 7744
email : mprlstaff@mprlexp.com

www.mprlexp.com mprlep

mprlep myanmar_mprlexp