

# Environmental and Social Safeguards Monitoring Report

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Semi-annual Report  
July-December 2018

## MYA: Pro-Poor Community Infrastructure and Basic Services

Prepared by Tractebel Inc. in association with Myanmar International Consultants Co. for Department of Urban and Housing Development, Ministry of Construction, Government of the Republic of Myanmar, and the Asian Development Bank.

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## Abbreviations

ADB	Asian Development Bank
C&P	Consultation and Participation
CDC	Community Development Committee
CDD	Community Driven Development
COV	Community Organising Volunteer
EA	Executing Agency
ECC	Environmental Compliance Certificate
ECD	Environmental Conservation Department
EMP	Environmental Management Plan
FGD	Focus Group Discussion
GIM	Grant Implementation Manual
GRC	Grievance Redress Committee
GRM	Grievance Redress Mechanism
HHs	Households
IA	Implementing Agency
IC	Implementation Consultants
IEE	Initial Environmental Examination
IP	Indigenous Peoples
IR	Involuntary Resettlement
JFPR	Japan Fund for Poverty Reduction
MCDC	Mandalay City Development Committee
MOC	Ministry of Construction
MONREC	Ministry of Natural Resources and Environmental Conservation
MTR	Mid-Term Review
MYRM	Myanmar Resident Mission (ADB)
PIU	Project Implementation Unit
PMU	Project Management Unit
REA	Rapid Environmental Assessment Checklist
SERD	ADB Southeast Asia Regional Department
SMR	Semi-Annual Safeguards Monitoring Report
SPS	ADB Safeguards Policy Statement (2009)
TL	Team leader
YCDC	Yangon City Development Committee

# 1 Introduction

## 1.1 Background

- 1 The Government of Myanmar is currently implementing the Pro-Poor Community Infrastructure and Basic Services Improvement Project (ADB Grant 9177-MYA). The project is funded through a grant from the Japan Fund for Poverty Reduction (JFPR), which is financed by the Government of Japan.
- 2 The project will improve living conditions in poor areas of Yangon and Mandalay and result in better planning and management of urban infrastructure services. Community participation is an intrinsic element of the project. An early action was the facilitation of Community Development Committees in the target townships and these have been central in the consultation process. It is also intended that some of the sub-project works can be undertaken through the procurement of community-based organisations as contractors.

## 1.2 Basic Data

- 3 The key data for the Grant implementation is shown in Table 1.1 below.

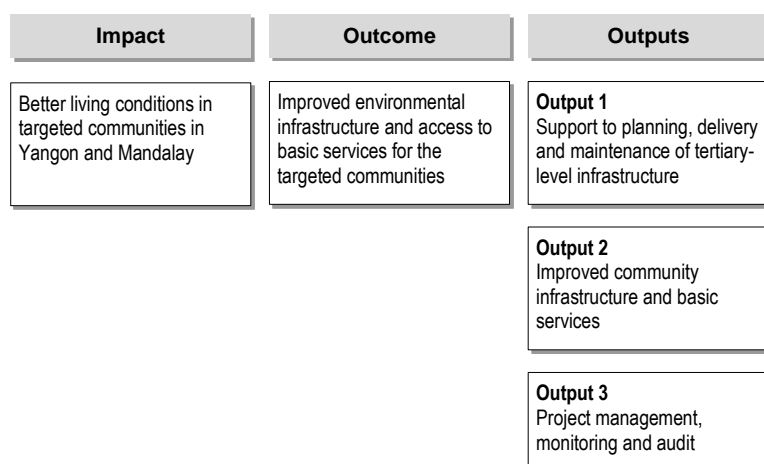
**Table 1.1 Basic Data**

<b>ADB Grant number:</b>	ADB Grant 9177-MYA (Grant funded by Japan Fund for Poverty Reduction)
<b>Project Title:</b>	Pro-Poor Community Infrastructure and Basic Services Improvement Project
<b>Beneficiary:</b>	Republic of the Union of Myanmar
<b>Executing Agency:</b>	Ministry of Construction
<b>Implementing Agency:</b>	Yangon City Development Committee and Mandalay City Development Committee
<b>Date of Effectiveness:</b>	4 June 2014
<b>Closing Date:</b>	31 December 2018 – extended to 31 December 2019

## 1.3 The Project

### 1.3.1 Project Impact, Outcome and Outputs

- 4 The project objective is to reduce poverty and vulnerability in selected underserved areas of Yangon and Mandalay, by reducing the detrimental impacts of poor urban environmental conditions and limited access to urban services. If successful, the project should assist in improving the opportunity for the targeted population to participate in local and national economic development. The target areas for the project are determined in the Grant Implementation Manual (GIM) and are two specific townships in each of the two cities of Yangon and Mandalay. These are Dala and Hlaing Tharyar in Yangon, and Chanmyatharzi and Pyigyidagon in Mandalay.
- 5 The impact, outcome, outputs of the project are summarised in Figure 1.1 below.

**Figure 1.1 Impact, Outcome and Outputs**

## 1.4 Sub-Projects

6 The Project includes a number of sub-projects, and these are summarised in Table 1.2.

**Table 1.2 Sub-Projects**

City/Township	Wards	Sub-Projects	Scope of Sub-Projects
<b>Yangon</b>			
Hlaing Tharyar	7, 10	Tertiary roads, culverts and drain	<ul style="list-style-type: none"> <li>▪ 2.8 km* tertiary concrete roads with street lights and speed bumps</li> <li>▪ 12 culverts</li> <li>▪ 93 m drain</li> </ul>
		Solid Waste Management	<ul style="list-style-type: none"> <li>▪ 6 steel tanks</li> <li>▪ 208 HDPE bins (120 litre)</li> <li>▪ 7 motorcycle carts</li> </ul>
Dala	Aunt Gyi West, 6, 11/14	Water Supply	<ul style="list-style-type: none"> <li>▪ 6 water treatment plants (reverse osmosis) with associated tube wells</li> <li>▪ Fencing and access to 4 other ponds</li> </ul>
		Solid Waste Management	<ul style="list-style-type: none"> <li>▪ 2 waste collection stations</li> <li>▪ 50 1m<sup>3</sup> steel bins with concrete bases</li> <li>▪ 73 HDPE bins (120 litre)</li> <li>▪ 3 motorcycle carts</li> <li>▪ 1 compactor truck (7m<sup>3</sup>)</li> </ul>
<b>Mandalay</b>			
Chanmyatharzi	Myayinander	Tertiary Roads	<ul style="list-style-type: none"> <li>▪ 2.1 km tertiary concrete roads with street lights and speed bumps</li> <li>▪ 8 culverts</li> </ul>
		Solid Waste Management	<ul style="list-style-type: none"> <li>▪ 31 steel bins (1m<sup>3</sup>) with concrete bases</li> <li>▪ 1 compactor truck (7m<sup>3</sup>)</li> </ul>
Pyigyidagon	Thinpangone, Sa	Tertiary Roads	<ul style="list-style-type: none"> <li>▪ 3.9 km tertiary concrete roads with street lights and speed bumps</li> <li>▪ 43 culverts</li> <li>▪ 0.3 mm roads, and 0.1 km footpaths in school**</li> </ul>
		Solid Waste Management	<ul style="list-style-type: none"> <li>▪ 61 steel bins (1m<sup>3</sup>) with concrete bases</li> <li>▪ 2 compactor trucks (7m<sup>3</sup>)</li> </ul>

\* Includes additional roads in Hlaing Tharyar

\*\* Additional works

## 1.5 Institutional Arrangements

- 7 The executing agency (EA) of this Project is the Ministry of Construction (MOC). The implementing agencies (IAs) are the Yangon City Development Committee (YCDC) and the Mandalay City Development Committee (MCDC).
- 8 The Project Management Unit (PMU) was established initially in Nay Pyi Taw but subsequently moved to Yangon, within the Department of Urban and Housing Development. The PMU has the responsibility for overall Project implementation and management including financial disbursement, procurement, safeguards and monitoring and reporting.
- 9 At the City level the Project Implementation Units (PIUs) were created to coordinate the implementation of Project activities in the participating cities and townships.
- 10 At the Ward level Community Development Committee (CDC) leaders and some individual members have been assigned to take part in Project communication and liaison activities. In addition Community Organizing Volunteers (COVs) were designated to coordinate project activities with the Ward and sub-committees on solid waste management.
- 11 Sub committees have been organized by Ward and were given training on project implementation and monitoring of community based solid waste management (CBSWM), and water treatment facility (WTF). These sub committees are specifically tasked to monitor the performance and outcomes of the sub-projects.
- 12 A community fund management system has also been drafted by the IC and reviewed by the PMU, PIU, and CDC members where their inputs were incorporated in the draft document. This document has yet to be finalized by the IC and approved by the PIU for its use.

## 1.6 Social Impacts

### 1.6.1 Screening, Categorisation and Documentation

- 13 The project is Category C for involuntary resettlement, which means it has no involuntary impacts on residents' land or property. It is also Category C for indigenous people, which means it is not expected to have any adverse impacts on indigenous people. Under the terms of the Grant, funds cannot be used for purchasing of land or for payment of compensation for involuntary impacts.
- 14 Initial screening was undertaken in 2016 and early 2017, and these identified a large number of potentially affected households in Mandalay. However, the project design was subsequently changed from drainage to road improvement and the potential involuntary impacts reduced to zero.
- 15 In February 2018 a further safeguard mission was undertaken<sup>1</sup> and this reconfirmed the Category C classification for all subprojects.
- 16 The project is categorized as having some gender element (SGE) which means significant gender impact, which is likely to directly improve women's access to the sub-projects. Great advantage will be directed towards women and girl children who are generally responsible to fetch and carry water, and women are primary responsible to take care of the health needs of the family. Benefits that men and women may receive, will significantly contribute to improvement on health due to improved water facilities and clean water.

### 1.6.2 Anticipated Social Impacts

- 17 The project is expected to achieve mostly positive social impacts and the negative impacts should be limited and temporary. The road projects in Mandalay and Hlaing Tharyar will provide improved

<sup>1</sup> Melody Ovenden from ADB and the National Social Development and Gender Specialist conducted due diligence on involuntary resettlement and IP from February 17<sup>th</sup> to 18<sup>th</sup> 2018

access to basic services and facilitate easier mobility in the wards and in street blocks, will reduce noise and dust in the residential areas, and will also reduce wear and tear on residents' vehicles. The solid waste management and water sub-projects will result in improved environmental conditions thereby contributing to the improvement of the health of poor and vulnerable households. Overall, the subprojects are expected to benefit an estimated number of some 7,000 households, of which 5,000 households are in the target wards of Yangon and 2,000 households are in the target wards of Mandalay. (These figures include the households of the street blocks that will directly benefit from civil works, water treatment and solid waste bins and vehicles, but not the wider ward populations potentially served by compactor trucks).

## 1.7 Environmental Impacts

### 1.7.1 Screening, Categorisation and Documentation

- 18 An Environmental Assessment and Review Framework (EARF) was prepared for the project by ADB. The project has been classified as Category B for environment following the ADB's Safeguard Policy Statement 2009 (SPS) as potential adverse environmental impacts are site-specific, temporary and few if any of them are irreversible. The sub-project sites are within a highly modified suburban environment and are not adjacent to or within any environmentally sensitive area such as cultural heritage site, protected area, wetland, buffer zone of protected area, or special area for protecting biodiversity.
- 19 Accordingly, Initial Environment Examinations (IEEs) were prepared for Yangon and Mandalay, including an Environmental Management Plan (EMP) for each of the four townships. These were submitted to MOC and ADB on 15<sup>th</sup> November 2017.
- 20 Under Myanmar's Environmental Impact Assessment Procedure (MONREC Notification No.616/2015), an IEE type project means a Project is judged by the Ministry of Natural Resources and Environmental Conservation (MONREC) to have some adverse impacts, but of lesser degree and/or significance than those for EIA Type Projects. It means generally those projects which are limited in scope or size, have well known environmental and social impacts that for the most part are temporary, local and reversible and have impacts which can be mitigated and managed by well-proven and available technologies and practices.
- 21 MONREC requested the submission of the respective EMPs to the Environment Conservation Departments (ECDs) in Yangon and Mandalay for the purposes of obtaining an Environmental Compliance Certificates (ECCs) for the townships and sub-projects. The EMPs were submitted by the IC to MOC on 15<sup>th</sup> November 2017 for approval and forwarding to YCDC and MDCDC. The EMP for Dala was revised following the removal of the public toilets sub-project and re-submitted to MOC on 5<sup>th</sup> December 2017. They were subsequently submitted to the ECDs on 14<sup>th</sup> December 2017. ECC for Yangon sub-projects was issued on 19 April 2018 and for Mandalay was issued on 24 April 2018 by ECD Nay Pyi Taw.

### 1.7.2 Anticipated Environmental Impacts

- 22 The IEE identified the potential environmental impacts associated with the design, construction and operation of the suburban road improvement, community water treatment facilities, drainage, and solid waste management sub-projects. The type of impacts expected include localised vegetation clearance, minor earthworks such as excavation, spoil disposal and preparation of the tertiary roads prior to pouring concrete, and very small-scale construction works. These impacts are assessed to be of the same scale as similar work currently undertaken by YCDC and MDCDC as part of road improvement works within the same townships. Mitigation measures include the development of a spoil disposal plan, using and operating suitable machinery that comply with the emission and noise reduction regulations, having a solid waste and hazardous waste materials management plan and a health and safety plan in place.
- 23 These potential impacts can be managed and brought to acceptable levels through the implementation and effective monitoring of the EMP by the contractor, and through project supervision.

## 1.8 Consultation, Participation and Disclosure

- 24 The sub-projects were initially identified through a process of community participation and prioritisation. Project progress, any subsequent changes to project designs, and any issues or concerns have been dealt with through community meetings and via ward officers and CDC leaders and members. More recently Community Organising Volunteers (COVs) have also been identified to act as focal points for the project within the communities.
- 25 Consultation activities during the period of this report are summarised in Table 1.3 below.

**Table 1.3 Key Consultations During the Reporting Period**

Date	Meeting	Participants
3 Aug	Explain and to organize the committee for CPP process	Ward leader
6 Aug	Explain and to organize the committee for CPP process	Ward leader
6 Aug	Explain and to organize the committee for CPP process	Ward leader
9 Aug	Sign for the agreement of house owner, Ward 6,Dala, Nyi Nyunt Yae Pond removing of fencing bushes to construct the water treatment facility building.	Ward Leader, CDC Leader, House Owner
12 Sep	Community Awareness & Information Campaign on SWM and Water Treatment Facilities, GAP Monitoring	Ward Leader, CDCs, COVs, GRC
13 Sep	Community Awareness & Information Campaign on SWM and Water Treatment Facilities, GAP Monitoring	Ward Leader, CDCs, COVs, GRC
22 Sep	Community Awareness & Information Campaign on SWM and Water Treatment Facilities, GAP Monitoring	Ward Leader, CDCs, COVs, GRC
23 Sep	Community Awareness & Information Campaign on SWM and Water Treatment Facilities, GAP Monitoring	Ward Leader, CDCs, COVs, GRC
23 Sep	Community Awareness & Information Campaign on SWM and Water Treatment Facilities, GAP Monitoring	Ward Leader, CDCs, COVs, GRC
2 Oct	SWM and Water Treatment operation and maintenance guidelines	Dala Township Administrators, Cardno, IC team
8 Oct	CPP process	Dala Township Administrators, IC team
9 Oct	Refresher training for SWM and water treatment, Dala	Cardno, ward and CDC members, IC team
18 Oct	CPP Process	Dala Township Administrators, PMU, IC team
19 Oct	CPP Process	Chanmyatharzi Township Administrators, PMU, IC team
19 Oct	CPP Process	Pyigyidagon Township Administrators, PMU, IC team
12 – 16 Nov	Meetings in all wards for ADB mission	Ward leaders, CDC members, ADB, PMU, PIUs, IC team
21 Dec	Accident in Dala	PMU, Authentic Co. Ltd., IC team

- 26 As part of the Stakeholder Communication Strategy, visual materials were used to publicise and explain the project to residents. Public Information Booklets (PIBs) were printed and distributed in January and February 2018.
- 27 The CDC leaders and COVs participated in designing posters with illustrated information messages aimed at raising level of awareness and promoting behavioural change. These posters were placed at strategic areas visible to the public in Q.3 2018.

### 1.8.1 Grievance Redress Mechanism

- 28 A Grievance Redress Mechanism (GRM) has been established and agreed with MOC and ADB. The GRM is designed to receive, evaluate and facilitate the resolution of residents' concerns, complaints and grievances during project implementation.



- 29 A central GRM Committee was established in June 2017 with membership from DUHD, YCDC and MCDC. Ward-level GRM Committees were established in all target wards in Q1 2018. They were given training on GRM mechanism and in documentation of grievances.
- 30 The GRM process was included in the project information booklets (PIBs) which were circulated to the target communities in Q1 2018. Focus group discussions were also undertaken to explain the GRM mechanics in the PIB to community members.
- 31 Some of the CDC members are performing dual roles as both members of GRM Committee and sub-committee for implementation and monitoring of SWM and water treatment in Dala. As such, there is evidence of demonstrated participation and active involvement of CDC members and GRM committees in the sub-project activities.
- 32 GRM Committee in Dala demonstrated their capacity to address issues as needed. One incident was the removal of a residential fence that occupied part of the site intended for a waste tank to serve Ward 11/14. This was resolved by the GRM Committee and the PIU accordingly at Ward level, and the resident owner agreed to voluntarily remove the fence. (See **Annex D**).

## 1.9 Implementation Progress

- 33 The status of civil works implementation is summarised by contract in Table 1.4 below.

**Table 1.4 Status of Civil Works Contracts**

<b>Contract</b>	<b>Status of Civil Works</b> (as at 31 December 2018)
Hlaing Tharyar Township, Roads, culverts, drainage	Contract signed on 27 <sup>th</sup> February. Original contract completed. Additional works ongoing.
Pyigyidagon & Chanmyathazi Township, Roads and culverts	Contract signed on 15 <sup>th</sup> March. Original contract completed. Additional works ongoing.
Dala Township, Water Treatment	Contract signed on 12 <sup>th</sup> June. Works on hold following accident.
Dala Township , Waste Stations	Contract signed 7 <sup>th</sup> September. Contract completed.
Dala Township, Concrete bases for steel waste bins	Contractor identified
Chanmyathazi Township , Concrete bases for steel waste bins	Contract signed 26 <sup>th</sup> December. Works ongoing.
Pyigyidagon Township , Concrete bases for steel waste bins	Contract signed 26 <sup>th</sup> December. Works ongoing.

## 2 Social Safeguard Monitoring

### 2.1 Monitoring and Reporting

- 34 As described above, due to the constraints of the Grant terms, the project must meet the criteria of Category C for involuntary resettlement and indigenous people. This means that there is no scope for involuntary impacts.
- 35 Under ADB Guidelines Category C projects do not necessarily require Semi-Annual Safeguard Monitoring Reports (SMRs) to be submitted. However, for this particular project it makes sense to monitor and report on a regular basis. This is the first ADB project to be decentralised to the Myanmar Resident Mission (MYRM), the project includes civil works in residential areas, and it is a pro-poor project with strong community participation. For these reasons the SMR procedure will be followed in principle, although maybe not in detail.
- 36 Monitoring of all social aspects mentioned below have been and will be undertaken throughout construction to ensure that compliance is maintained.

### 2.2 Social Safeguard Compliance

- 37 All sub-projects have been designed to avoid involuntary impacts. Sub-projects (including the roads in Mandalay, changed from drainage) were screened between late 2016 and March 2017, and are confirmed as Category C.
- 38 The project provided training to all parties involved in the civil works regarding safeguard compliance, including Government, contractors, and the communities themselves.
- 39 The project is Category C for indigenous peoples (IPs), and is therefore expected not to have adverse impacts on IPs.
- 40 There are relatively small ethnic minority populations in the target wards, and as there will be no involuntary impacts, these indigenous people will not be more adversely affected than any other residents.
- 41 A corrective measure to include the participation of vulnerable households (elderly, female headed households, IPs and youth) in CDC membership was undertaken in September 2017.

### 2.3 Issues Arising

#### 2.3.1 Actions Required

- 42 Several issues requiring action were raised in the previous SMR (January-July 2018). These have been addressed during the current monitoring period and are summarised in **Annex A**.

#### 2.3.2 Incidents and Complaints

- 43 Only a few incidents have arisen during the reporting period. As incidents and complaints do not necessarily fall specifically within social or environmental categories, they are dealt with together in Section 4. Incident forms are included in **Annex D**.

## 3 Environmental Safeguard Monitoring

### 3.1 Monitoring and Reporting

- 44 For the purpose of monitoring the environmental impacts of civil works EMP Checklists have been prepared for each contract. These are based on the tables in the EMPs for each of the townships.
- 45 IC staff monitor EMP compliance on a daily and weekly basis. The national environmental expert visits the sites each month and submits completed EMP checklists at the end of each month for inclusion in the IC's Monthly Report.
- 46 The contractors for the three NCB Civil Works contracts are required to prepare their own Contractor Environmental Management Plans (CEMPs) and to undertake their own monitoring during construction. All three firms submitted their CEMPs accordingly, along with copies of their operational health and safety policies. The CEMPs were reviewed and cleared by project implementation consultant.

### 3.2 EMP Awareness Training

- 47 EMP awareness training was provided by ADB for staff from DUHD, MOC, YCDC and MCDC on 9<sup>th</sup> and 10<sup>th</sup> January 2018.
- 48 EMP orientation was provided by project implementation consultant for the contractor on Hlaing Tharyar Roads contract and Mandalay Roads contract (both Ultra Co. Ltd.) on 12<sup>th</sup> March 2018.
- 49 EMP orientation was provided by project implementation consultant for the contractor on Dala Water Treatment contract (Authentic Construction Co. Ltd.) on 3<sup>rd</sup> July 2018.

### 3.3 Environmental Safeguard Compliance

- 50 No significant environmental non-compliance issues have been observed thus far in either Hlaing Tharyar, Mandalay, or Dala. There is a minor issue in all locations in terms of small quantities of waste scattered around the sites. The contractors were reminded that they must keep the sites free from indiscriminate waste disposal. It has also been observed that not 100% of workers are wearing all the personal protection clothing at all times. The contractors have been reminded of this requirement also.

### 3.4 Issues Arising

#### 3.4.1 ADB Mission Comments

- 51 Comments raised following the ADB mission in November 2018 included some relating to environmental concerns. These and the responses to them are shown in **Annex B**.

#### 3.4.2 Incidents and Complaints

- 52 Only a few incidents have arisen during the reporting period. As incidents and complaints do not necessarily fall specifically within social or environmental categories they are dealt with together in Section 4.

## 4 Complaints and other Issues

### 4.1 Record of Incidents

- 53 As mentioned in Section 1, a Grievance Redress Mechanism (GRM) is in place in all wards and has been explained to community leaders and members. Incidents are recorded and reported as required to MOC and ADB. Incident forms are included in the IC's Monthly Reports and are included in this report in **Annex D**. The nature and status of incidents occurring during this reporting period are summarised in Table 4.2 below.

**Table 4.1 Summary of Reported Incidents in Project Areas during this SMR Period, July to December 2018**

Date First Reported	Location	Brief Description	Status	GRM Procedure Required?
10 August	Aunt Gyi West Ward, Dala	Workers drinking beer on site.	Resolved	No
14 August	Ward 10, Hlaing Tharyar	Electric post in way of culvert	Resolved	No
10 Sept	Ward11/14	Residential fence occupying part of the waste station site for Ward 11/14 needs to be removed	Resolved	Yes
6 October	Myayinander Ward, Chanmyatharzi	Impact of retaining wall on drain	Resolved	No
19 Dec	Dala	Fatal accident regarding Dala WTF	On-going	No

- 54 As shown in Table 4.1 above, all but one of the complaints/incidents have been resolved. The outstanding issue, the accident in Dala, was being discussed at the time of preparing this report.

## 5 Summary and Conclusions

### 5.1 Overall Conclusions

- 55 Generally social and environmental safeguards are being well monitored and no significant issues have arisen. On the whole there is a high level of cooperation and support from the communities that is certainly assisting the contractors in their work. The accident in Dala is an isolated case, however unfortunate and fatal. It proves that occupational health and safety measures should always be present and never neglected in any moment.
- 56 The contractors currently on site have fallen slightly short in some aspects of safeguard compliance, but this is probably to be expected as Myanmar companies are not very familiar with this type of internationally-funded tertiary infrastructure in dense residential areas.

### 5.2 Issues Requiring Action

- 57 There are no major issues requiring action, but there are a few areas in which improvements will be sought. These are shown in Table 5.1 below.

**Table 5.1 Areas for Improvement**

Issues	Actions Required
There is resistance from some residents to participate in wards where community based solid waste management will be implemented due to cost of services.	<ul style="list-style-type: none"> <li>PIU to implement strict compliance to solid waste practices and establish subsidized fee for collection and maintenance. Cost sharing and external funding may be necessary for maintenance during the first few years.</li> </ul>
Readiness of the CDC working team to undertake management of the community fund proceeds from water treatment facilities and community-based waste management	<ul style="list-style-type: none"> <li>PIU to institutionalize the community fund management guidelines and designate a professional community mobilizer for at least 1 year to supervise the management of community fund and monitor compliance to social and environmental safeguard requirements.</li> </ul>
Further instances reported of workers not wearing personal safety clothing and equipment.	<ul style="list-style-type: none"> <li>Contractors to be reminded of the need for all workers to wear PPE.</li> </ul>
The accident in Dala highlights the need for education of all employees on safety procedures, even those not directly involved on site.	<ul style="list-style-type: none"> <li>Contractors to be encouraged to undertake safety refresher courses for all employees.</li> </ul>

## **Annexes**

- A Issues and Actions from 5<sup>th</sup> SMR
- B Status of Environment Issues Raised by ADB MTR Mission, Nov 12<sup>th</sup> – 16<sup>th</sup>
- C EMP Compliance Tables
- D GRM and Incident Records

**Annex A – Issues and Actions from 5th SMR (January-June 2018)**

<b>Issues from 5<sup>th</sup> Monitoring Report</b>	<b>Actions and Recommendations</b>
Some uncertainty within communities of the roles of CDC members and COVs	<ul style="list-style-type: none"> <li>▪ The Service Provider and IC undertook a refresher training on the roles of the COVs and CDC members in Q3. This exercise clarified the roles of COVs and CDCs which further led to more involvement of CDC members to participate in other working groups such as monitoring of community based solid waste management and water treatment facility.</li> <li>▪ There is also clear understanding on the gender roles of men and women in their family and in the community. However, it is recommended that continuing education must be provided to strengthen the COVs and CDC members' commitment to sustain community initiatives. This could be achieved if the PIU could designate a full time community mobilizer for at least a year to ensure sustained development initiatives at the Ward level.</li> </ul>
Too much domestic and other waste scattered around the sites	<ul style="list-style-type: none"> <li>▪ Contractors were reminded again on the need to keep the sites clean from waste.</li> <li>▪ Particular attention will need to be paid when civil works are completed to ensure that the contractors leave the sites in tidy and clean condition.</li> </ul>
Not all workers wearing protective clothing	<ul style="list-style-type: none"> <li>▪ Contractors were reminded again that protective clothing is required, and is part of their own OHS policy.</li> </ul>
Conditions in workers' accommodation not as good as they should be	<ul style="list-style-type: none"> <li>▪ Few workers remain in on-site accommodation but the situation will be monitored.</li> </ul>

**Annex B : Status of Environment Issues Raised by ADB MTR Mission, Nov 12<sup>th</sup> – 16<sup>th</sup>  
(updated from Midterm Review Mission 14-17 May 2018)**

No.	Findings/Issues	Recommendations	Target Date and Responsibility	Status/Update
<b>1.</b>	<b>Human Resource</b>			
	The Mission observed that there is no assigned Environmental, Health and Safety Officer on Contractor side to implement and monitor the Environmental Management Plans.	Designate/hire Environmental, Health and Safety Officers (One for Mandalay and one for Yangon), and provide the formal assignment letter to IC team and PMU.	Contractor by end November 2018	<ul style="list-style-type: none"> <li>▪ Contractors already nominated people responsible on site</li> </ul>
<b>2.</b>	<b>Reporting System</b>			
	a). There is no recording and reporting on the status of EMP implementation and monitoring by the Contractor  b). There is no Incidents Reporting system defined.	a). Daily and weekly reports to be prepared by contractor and submitted to IC team weekly.  b). Formulate the Incidents Reporting system and update it in the project's IEEs.	a). Contractor. Commencing from November 2018.	<ul style="list-style-type: none"> <li>▪ All contractors are submitting weekly reports</li> <li>▪ Incident report format formulated and used in monthly reports</li> </ul>
<b>3.</b>	<b>Updating EMPs in project's IEEs</b>			
	The Mission found out that the National Contractors have very limited capacity on the Environmental safeguards, and have no capacity at all to prepare the Contractors' Environmental Management Plans (CEMPs). It was observed that the requirement of preparing the CEMPs by the contractors in the project's IEEs will be excluded.	Formulate the detail plans such as Occupational Health and Safety Plan and Incidents Reporting Protocol, and update these in the EMPs of the project's IEEs. The updated EMPs will be implemented by contractors.		<ul style="list-style-type: none"> <li>▪ OHS and responsibilities included in CEMPs</li> </ul>
<b>4.</b>	<b>Occupational Health and Safety</b>			
	Risks to electric shocks due to improper connection of electric wires from the source	b). Electric wires and connections should be properly installed.	Contractor on ongoing basis	Electric powered Motor Pump replaced with Diesel powered.
<b>5.</b>	<b>Traffic and Public Safety</b>			
	a). Absence of proper barriers, illuminations, warning signs before and at the construction sites, the stock piles and temporary spoil dumping sites	a). Install proper barriers, illuminations, and no access signs at all construction areas the stock piles and temporary spoil dumping sites. Install sufficiently visible construction warning signs at and before construction sites.	a). Contractor.	<ul style="list-style-type: none"> <li>▪ Safety and traffic management has improved</li> <li>▪ On-going compliance being monitored</li> </ul>
<b>6.</b>	<b>Workers camps</b>			
	a). Poor sanitation facilities and housekeeping.	a). Provide sufficient proper toilets separately for men and women. Fumigation for	Contractor.	<ul style="list-style-type: none"> <li>▪ Workers not living on site in Hlaing Tharyar and Mandalay.</li> </ul>



	<p>c). Lack of fire extinguishers and first aid kits</p>	<p>mosquitoes and flies should be done at least twice a month (notify the ward administrator and neighbors first).</p> <p>c). Provide fire extinguishers and first aid kits</p>		<ul style="list-style-type: none"> <li>▪ Workers' house in Dala checked monthly</li>   <li>▪ Extinguishers provided</li> <li>▪ First Aid Kits provided</li> </ul>
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**Annex D: EMP Compliance Tables**

Note: EMPs were prepared for the three NCB Civil Works contracts, Hlaing Tharyar Roads, Culverts and Drainage, Mandalay Roads and Culverts, and Dala Water Treatment. For Dala Waste Stations and the concrete bases, all shopping contracts, environmental monitoring was undertaken alongside the EMP monitoring and reported in monthly reports.

**Yangon, Hlaing Tharyar Roads, Culverts and Drainage MOC-DUHD/NCB/CW-01  
EMP Compliance Monitoring in Wards 7 and 10**

Project Activities & Potential Causes of Environmental Impacts	Mitigation Measures	Status/Remarks
Earthworks in road and culvert excavation	<ul style="list-style-type: none"> <li>▪ Limit machinery and earthworks to the defined pavement width and culvert sites</li> </ul>	In practice it has been impossible for contractor to stay within carriageway width due to the need for formworks at the sides of the concreted areas. Road shoulders will also be outside the carriageway.
	<ul style="list-style-type: none"> <li>▪ Minimize damage to tree roots where these are within the road pavement area wherever practicable</li> </ul>	Very few incidents of trees within carriageway. If necessary, the roadside tree cutting is implemented/supervised by YCDC.
Earthworks in road and culvert excavation	<ul style="list-style-type: none"> <li>▪ All machinery to be in sound condition and free from any leaks of lubricants and fuel</li> </ul>	Currently company is using Excavator x 1, Compactor x 1 and Dumper x 3. All the machinery is in proper condition.
Disposal of surplus spoil	<ul style="list-style-type: none"> <li>▪ Ensure spoil disposed of only in approved sites.</li> <li>▪ Contractor to provide details of means and location of spoil disposal within each township</li> </ul>	Contractor has provided location of spoil disposal site at No. 364/B, Too Chaung Village Field, Yangon Northern District, Htantabin Township.
Operation of construction machinery and vehicles generating emissions	<ul style="list-style-type: none"> <li>▪ Maintain construction equipment, clean all filters and use clean diesel</li> <li>▪ Any machinery generating visible smoke is not permitted.</li> <li>▪ Avoid unnecessary machine operation, turn machinery off when not in immediate use to avoid build up of toxic fumes.</li> <li>▪ Advise residents when prolonged machinery operation is planned.</li> </ul>	No smoke emissions observed during operation of the machinery.
Construction activities during the dry season may cause dust nuisance	<ul style="list-style-type: none"> <li>▪ Apply water on exposed soil from water trucks or sprinklers.</li> <li>▪ Limit or suspend construction activity along residential streets during periods of strong winds.</li> <li>▪ Limit truck movement during periods of strong winds.</li> </ul>	The construction is taking place in the rainy season, so there is generally no need to use water for dust control.
	<ul style="list-style-type: none"> <li>▪ Apply water to roads to reduce visible dust levels due to construction activities.</li> <li>▪ Use water from water storage ponds only with the express permission of the engineer and CDC</li> </ul>	The contractor is using water from Myoma Nyein Pond for sand compacting.
	<ul style="list-style-type: none"> <li>▪ Spoil disposal sites compacted to reduce exposure of loose debris from wind, if required</li> </ul>	
Solid waste generation	<ul style="list-style-type: none"> <li>▪ All construction and general waste generated by the project will be removed daily from the site by the contractor and disposed of in a designated YCDC waste disposal area.</li> <li>▪ Liquid wastes are not to be disposed of within the residential areas.</li> <li>▪ Provision of appropriate waste storage containers for worker's construction and hazardous liquid wastes.</li> <li>▪ Municipal type waste from construction workers will be collected daily and disposed of in locations where YCDC provides regular collections.</li> <li>▪ Hazardous waste such as oily rags or chemical containers, will be neutralized as far as possible, kept as dry as possible to reduce</li> </ul>	Solid waste bins have been provided at the worker's accommodation and YCDC pick up the rubbish by truck, and the final disposal is at Htein Pin Dump Site in Htan Ta Pin Township.

Project Activities & Potential Causes of Environmental Impacts	Mitigation Measures	Status/Remarks
	<ul style="list-style-type: none"> <li>likelihood of leachate and will be disposed of at an approved YCDC disposal site.</li> <li>Contractors will ensure that there is no onsite burning of waste at all times.</li> <li>Proper removal and disposal of any significant residual materials, wastes and contaminated soils prior to construction site handover.</li> </ul>	
Waste water and sewage	<ul style="list-style-type: none"> <li>Install a portable toilet facility with an appropriate self-contained sewage tank for use by construction workers.</li> <li>Facility to be removed at the completion of the construction works</li> </ul>	The contractor constructed 1 temporary worker's house with 2 separate hand dug bamboo latrines. Grey water is drained adequately. Septic tank has not required emptying thus far.
	<ul style="list-style-type: none"> <li>Washing of machinery and equipment, concrete trucks is not permitted within the wards</li> </ul>	No washing of equipment has been seen in the project areas.
Storage and handling of hydrocarbons; emergency or accidental spills of hydrocarbons	<ul style="list-style-type: none"> <li>No hazardous chemicals and hydrocarbons will be stored within the township boundary.</li> <li>All fuels and lubricants to be supplied by designated fuel trucks or service vehicles</li> </ul>	No hazardous chemicals have been used thus far.
	<ul style="list-style-type: none"> <li>Develop Hazardous Waste Management Plan to cover hazardous materials and oil storage and spills.</li> </ul>	This is covered in contractor's environmental management manual.
	<ul style="list-style-type: none"> <li>All spills will be cleaned up immediately as part of emergency response plan.</li> <li>Spill clean-up materials are available at each storage site.</li> <li>Maintain a register of all hydrocarbon spills</li> </ul>	Sand is available as spill clean-up material at each storage site.
Refuelling of machinery and servicing of equipment	<ul style="list-style-type: none"> <li>Use drip trays during refuelling or servicing</li> <li>Provide safety equipment and training for all fuel handlers</li> <li>Machinery maintenance and servicing is not permitted with residential streets.</li> <li>All waste oil, filters to be removed from the sites.</li> </ul>	Impractical to service machinery outside block as there are no locations within several km that are not dense urban areas. Contractor is aware of need to minimise the potential for detrimental impacts.
	<ul style="list-style-type: none"> <li>Refuelling of machinery is not permitted within residential areas.</li> </ul>	Impractical to refuel outside block as there are no locations within several km that are not dense urban areas. Contractor is aware of need to minimise the potential for detrimental impacts.
Demobilisation of contractor and rehabilitation of temporary site	<ul style="list-style-type: none"> <li>Removal of all construction material, used or unused, and residual solid waste</li> </ul>	Will be checked on completion of civil works
Use of water	<ul style="list-style-type: none"> <li>Temporary construction facility to provide sufficient quantities of potable water supply for workers.</li> <li>Manage water use during periods of dry weather from designated water ponds</li> <li>Do not use water from storage ponds for dust suppression</li> <li>Machinery and equipment not to be cleaned near water storage ponds</li> </ul>	<p>Contractor is providing 20 litre bottles of drinking water for the workers and water from tube well was used for washing and bathing.</p> <p>The construction is being undertaken in the rainy season, so that there is no need to use water for dust control. The company used water from Myoma Nyein pond for sand compacting.</p>
Traffic Management	<ul style="list-style-type: none"> <li>Construct road along one side at a time</li> </ul>	The roads are too narrow to facilitate this construction sequence.
	<ul style="list-style-type: none"> <li>Provide warning signs to prevent interaction with vehicles and machinery</li> <li>Involve CDC to liaise with residents and contractor</li> </ul>	The warning signboard, company signboard and project information signboards are in place at work sites and suggested to use tape to prevent accidents at night.
Transport of construction materials; operation of machinery	<ul style="list-style-type: none"> <li>Immediately repair any damage caused to community or private facilities.</li> <li>Ongoing community consultation regarding traffic movements</li> </ul>	Minor incidents of damage have been dealt with adequately.
	<ul style="list-style-type: none"> <li>Compensation to be paid for any damage</li> </ul>	It has not been necessary for the company to pay any compensation.
Presence of construction workers in communities.	<ul style="list-style-type: none"> <li>Social orientation conducted for all construction personnel at start of construction with the input from CDC</li> </ul>	Orientation provided for contractor project management staff for dissemination to workers.

Project Activities & Potential Causes of Environmental Impacts	Mitigation Measures	Status/Remarks
	<ul style="list-style-type: none"> <li>▪ Ward protocols agreed; worker awareness as part of mobilization.</li> <li>▪ Workers to respect ward and landowner boundaries, observe codes of conduct and avoid damage to properties and resources.</li> </ul>	No MOU but good relationships established at the start of the works between the contractor staff and local residents.
	<ul style="list-style-type: none"> <li>▪ Employ local persons where practicable</li> </ul>	The contractor used 15-25 local daily workers.
	<ul style="list-style-type: none"> <li>▪ Maximise the use of goods and services from local communities, where practicable</li> </ul>	Some materials like timber, bamboo and plastic sheets were bought from local shops.
Construction activities will occur within the ward boundary; operation of machinery within block roads	<ul style="list-style-type: none"> <li>▪ Contractor to provide health and safety policy</li> </ul>	Contractor has submitted a copy of the company's Health and Safety Manual to MOC and YCDC.
	<ul style="list-style-type: none"> <li>▪ Provide driver safety awareness program for all drivers as well as community to reduce the likelihood of vehicle accidents or contact with people, structures.</li> </ul>	The company provided awareness training for all drivers at the beginning of construction phase and the Project Engineer gives briefing weekly.
	<ul style="list-style-type: none"> <li>▪ Hazard identification and risk assessments to reduce risk of harm and injury, prevent spills of hazardous substances.</li> <li>▪ Prepare Work Method Statements for each activity</li> <li>▪ Keep residents away from working machinery.</li> <li>▪ Ensure reversing signals are installed on construction vehicles or provide flagmen as required to ensure safe operations</li> <li>▪ Mark dangerous areas with reflective tape or other effective means to identify hazardous areas during the hours of darkness</li> <li>▪ Provide safe access around work sites to keep public away from harm. Work on one side of the road at a time to provide access for residents.</li> <li>▪ Provide cautionary signs in all operational areas use safety barriers and fences as required.</li> </ul>	The civil works are being undertaken in dense residential areas so the public cannot be totally excluded from the general works areas. However, all relevant safety precautions are in place. Suggested to use safety barriers at work site, particularly at night time.
	<ul style="list-style-type: none"> <li>▪ Provide compensation for damaged property or structures</li> </ul>	Some incidents of minor damage were compensated very quickly by contractor.
Operation of construction plant and equipment creating noise and vibration	<ul style="list-style-type: none"> <li>▪ Construction vehicles with functional noise suppressors.</li> </ul>	No noise complaints received from residents.
	<ul style="list-style-type: none"> <li>▪ Contractor will develop a daily work schedule of operations with CDC to identify hours and days of no work due to religious and cultural activities.</li> <li>▪ Limit noisy construction activities to day time hours, i.e. construction activities prohibited between 6pm and 6am</li> </ul>	Contractor has agreed to work only between 8am and 6pm.  The company assigned U Soe Min Thu, Project Engineer, as EMP monitoring officer. He used weekly progress registration with ledger.
	<ul style="list-style-type: none"> <li>▪ Advise residents to close windows and doors during construction</li> </ul>	
	<ul style="list-style-type: none"> <li>▪ Provide all workers with appropriate personal protection equipment (PPE - earmuffs etc)</li> </ul>	Most of the project staff and workers wear PPE equipment and were advised to use PPE for all at the working time. The company assigned U Aung Kyaw Soe, Supervisor, as HSE officer and he conducted weekly progress with register.

### Mandalay, Chanmyatharzi & Pyigyidagon Roads and Culverts MOC-DUHD/NCB/CW-02 EMP Compliance Monitoring, Myayinander Ward, Sa Ward, Thinpangone Ward

Project Activities & Potential Causes of Environmental Impacts	Mitigation Measures	Status/Remarks
Earthworks in road and culvert excavation	<ul style="list-style-type: none"> <li>▪ Limit machinery and earthworks to the defined pavement width and culvert sites</li> </ul>	In practice it has been impossible for contractor to stay within carriageway width due to the need for formworks at the sides of the concreted areas. Road shoulders will also be outside the carriageway.
	<ul style="list-style-type: none"> <li>▪ Minimize damage to tree roots where these are within the road pavement area wherever practicable</li> </ul>	Very few incidents of trees within carriageway. If necessary, the roadside tree cutting is implemented/supervised by MCDC.
Earthworks in road and culvert excavation	<ul style="list-style-type: none"> <li>▪ All machinery to be in sound condition and free from any leaks of lubricants and fuel</li> </ul>	The machinery (Excavator x 3, Roller x 2, Mixer x 2, Water Boxer x 1 and Dumper x 3) is all free from leakage.
Disposal of surplus spoil	<ul style="list-style-type: none"> <li>▪ Ensure spoil disposed of only in approved sites.</li> <li>▪ Contractor to provide details of means and location of spoil disposal within each township</li> </ul>	The contractor reused the disposal of spoil for concrete road and cover slab form work.
Operation of construction machinery and vehicles generating emissions	<ul style="list-style-type: none"> <li>▪ Maintain construction equipment, clean all filters and use clean diesel</li> <li>▪ Any machinery generating visible smoke is not permitted.</li> <li>▪ Avoid unnecessary machine operation, turn machinery off when not in immediate use to avoid build up of toxic fumes.</li> <li>▪ Advise residents when prolonged machinery operation is planned.</li> </ul>	No smoke emissions observed during operation of the machinery.
Construction activities during the dry season may cause dust nuisance	<ul style="list-style-type: none"> <li>▪ Apply water on exposed soil from water trucks or sprinklers.</li> <li>▪ Limit or suspend construction activity along residential streets during periods of strong winds.</li> <li>▪ Limit truck movement during periods of strong winds.</li> </ul>	The construction is taking place in the rainy season, so there is generally no need to use water for dust control.
	<ul style="list-style-type: none"> <li>▪ Apply water to roads to reduce visible dust levels due to construction activities.</li> <li>▪ Use water from water storage ponds only with the express permission of the engineer and CDC</li> </ul>	In wet season no need to apply water for dust control in construction.
	<ul style="list-style-type: none"> <li>▪ Spoil disposal sites compacted to reduce exposure of loose debris from wind, if required</li> </ul>	
Solid waste generation	<ul style="list-style-type: none"> <li>▪ All construction and general waste generated by the project will be removed daily from the site by the contractor and disposed of in a designated YCDC waste disposal area.</li> <li>▪ Liquid wastes are not to be disposed of within the residential areas.</li> <li>▪ Provision of appropriate waste storage containers for worker's construction and hazardous liquid wastes.</li> <li>▪ Municipal type waste from construction workers will be collected daily and disposed of in locations where YCDC provides regular collections.</li> <li>▪ Hazardous waste such as oily rags or chemical containers, will be neutralized as far as possible, kept as dry as possible to reduce likelihood of leachate and will be disposed of at an approved YCDC disposal site.</li> <li>▪ Contractors will ensure that there is no onsite burning of waste at all times.</li> <li>▪ Proper removal and disposal of any significant residual materials, wastes and contaminated soils prior to construction site handover.</li> </ul>	The solid waste bins are in place at worker's camp site and MCDC pick up the rubbish by truck and then final disposed at Taung In-Myauk In Dump Site, Amarapura Township.

Project Activities & Potential Causes of Environmental Impacts	Mitigation Measures	Status/Remarks
Waste water and sewage	<ul style="list-style-type: none"> <li>▪ Install a portable toilet facility with an appropriate self-contained sewage tank for use by construction workers.</li> <li>▪ Facility to be removed at the completion of the construction works</li> </ul>	<p>Toilets have been provided and have been improved following comments from ADB and IC team.</p> <p>Fire extinguishers and first aid kits have been provided.</p> <p>Grey water is drained adequately. Septic tank has not required emptying thus far.</p>
	<ul style="list-style-type: none"> <li>▪ Washing of machinery and equipment, concrete trucks is not permitted within the wards</li> </ul>	No washing of equipment has been seen in the project areas.
Storage and handling of hydrocarbons; emergency or accidental spills of hydrocarbons	<ul style="list-style-type: none"> <li>▪ No hazardous chemicals and hydrocarbons will be stored within the township boundary.</li> <li>▪ All fuels and lubricants to be supplied by designated fuel trucks or service vehicles</li> </ul>	No hazardous chemicals have been used thus far.
	<ul style="list-style-type: none"> <li>▪ Develop Hazardous Waste Management Plan to cover hazardous materials and oil storage and spills.</li> </ul>	This is covered in CEMP
	<ul style="list-style-type: none"> <li>▪ All spills will be cleaned up immediately as part of emergency response plan.</li> <li>▪ Spill clean-up materials are available at each storage site.</li> <li>▪ Maintain a register of all hydrocarbon spills</li> </ul>	Sand is available as spill clean-up material at each storage site.
Refuelling of machinery and servicing of equipment	<ul style="list-style-type: none"> <li>▪ Use drip trays during refuelling or servicing</li> <li>▪ Provide safety equipment and training for all fuel handlers</li> <li>▪ Machinery maintenance and servicing is not permitted with residential streets.</li> <li>▪ All waste oil, filters to be removed from the sites.</li> </ul>	<p>Impractical to service machinery outside block as there are no locations within several km that are not dense urban areas.</p> <p>Contractor is aware of need to minimise the potential for detrimental impacts.</p>
	<ul style="list-style-type: none"> <li>▪ Refuelling of machinery is not permitted within residential areas.</li> </ul>	<p>Impractical to refuel outside block as there are no locations within several km that are not dense urban areas.</p> <p>Contractor is aware of need to minimise the potential for detrimental impacts.</p>
Demobilisation of contractor and rehabilitation of temporary site	<ul style="list-style-type: none"> <li>▪ Removal of all construction material, used or unused, and residual solid waste</li> </ul>	Will be checked on completion of civil works
Use of water	<ul style="list-style-type: none"> <li>▪ Temporary construction facility to provide sufficient quantities of potable water supply for workers.</li> <li>▪ Manage water use during periods of dry weather from designated water ponds</li> <li>▪ Do not use water from storage ponds for dust suppression</li> <li>▪ Machinery and equipment not to be cleaned near water storage ponds</li> </ul>	<p>Contractor is providing 20 litre bottles of drinking water for the workers. The contractor dug a tube well at workers camp site, with 100 feet depth and the water is not suitable for drinking but can be used for washing and bathing and stored the water in 2 proper fibre containers.</p> <p>The company has (1) water boxer and carry water for construction from MCDC water tank at Nya Nya 20, Thinpangone Ward, Pyigyidagon Township and Fire Fighting water tank at Ma Ma -13 block, Yuzana Road, Myayinander Ward.</p> <p>The construction is being undertaken in the rainy season, so that there is no need to use water for dust control.</p>
Traffic Management	<ul style="list-style-type: none"> <li>▪ Construct road along one side at a time</li> </ul>	The roads are too narrow to facilitate this construction sequence.
	<ul style="list-style-type: none"> <li>▪ Provide warning signs to prevent interaction with vehicles and machinery</li> <li>▪ Involve CDC to liaise with residents and contractor</li> </ul>	Company signboards, warning signboards and project information signboards are erected at all of the construction locations.
Transport of construction materials; operation of machinery	<ul style="list-style-type: none"> <li>▪ Immediately repair any damage caused to community or private facilities.</li> <li>▪ Ongoing community consultation regarding traffic movements</li> </ul>	Minor incidents of damage have been dealt with adequately.
	<ul style="list-style-type: none"> <li>▪ Compensation to be paid for any damage</li> </ul>	It has not been necessary for the company to pay any compensation.
Presence of construction workers in communities.	<ul style="list-style-type: none"> <li>▪ Social orientation conducted for all construction personnel at start of construction with the input from CDC</li> </ul>	Orientation provided for contractor project management staff for dissemination to workers.

Project Activities & Potential Causes of Environmental Impacts	Mitigation Measures	Status/Remarks
	<ul style="list-style-type: none"> <li>▪ Ward protocols agreed; worker awareness as part of mobilization.</li> <li>▪ Workers to respect ward and landowner boundaries, observe codes of conduct and avoid damage to properties and resources.</li> </ul>	No MOU but good relationships established at the start of the works between the contractor staff and local residents.
	<ul style="list-style-type: none"> <li>▪ Employ local persons where practicable</li> </ul>	The contractor used from 16 to 40 casual labourers.
	<ul style="list-style-type: none"> <li>▪ Maximise the use of goods and services from local communities, where practicable</li> </ul>	Some materials like timber, bamboo and plastic sheets were bought from local shops.
Construction activities will occur within the ward boundary; operation of machinery within block roads	<ul style="list-style-type: none"> <li>▪ Contractor to provide health and safety policy</li> </ul>	Company assigned U Pyi Phyo Aung, Engineer as EMP monitoring officer and U Naing Htun Aung, Engineer as HSE officer for environmental assessment. They registered the progress with ledger and reported weekly to IC team of Mandalay.
	<ul style="list-style-type: none"> <li>▪ Provide driver safety awareness program for all drivers as well as community to reduce the likelihood of vehicle accidents or contact with people, structures.</li> </ul>	Provided in May 2018
	<ul style="list-style-type: none"> <li>▪ Hazard identification and risk assessments to reduce risk of harm and injury, prevent spills of hazardous substances.</li> <li>▪ Prepare Work Method Statements for each activity</li> <li>▪ Keep residents away from working machinery.</li> <li>▪ Ensure reversing signals are installed on construction vehicles or provide flagmen as required to ensure safe operations</li> <li>▪ Mark dangerous areas with reflective tape or other effective means to identify hazardous areas during the hours of darkness</li> <li>▪ Provide safe access around work sites to keep public away from harm. Work on one side of the road at a time to provide access for residents.</li> <li>▪ Provide cautionary signs in all operational areas use safety barriers and fences as required.</li> </ul>	The civil works are being undertaken in dense residential areas so the public cannot be totally excluded from the general works areas. However, all relevant safety precautions are in place.
	<ul style="list-style-type: none"> <li>▪ Provide compensation for damaged property or structures</li> </ul>	No incidents of significant damage have occurred.
Operation of construction plant and equipment creating noise and vibration	<ul style="list-style-type: none"> <li>▪ Construction vehicles with functional noise suppressors.</li> </ul>	No noise complaints received from residents.
	<ul style="list-style-type: none"> <li>▪ Contractor will develop a daily work schedule of operations with CDC to identify hours and days of no work due to religious and cultural activities.</li> <li>▪ Limit noisy construction activities to day time hours, i.e. construction activities prohibited between 6pm and 6am</li> </ul>	Contractor has agreed to work only between 8am and 6pm.
	<ul style="list-style-type: none"> <li>▪ Advise residents to close windows and doors during construction</li> </ul>	
	<ul style="list-style-type: none"> <li>▪ Provide all workers with appropriate personal protection equipment (PPE - earmuffs etc)</li> </ul>	Most of the project staff and workers wear PPE equipment and were advised to use PPE for all at the working time.

### Yangon, Dala Water Treatment, MOC-DUHD/NCB/CW-03 EMP Compliance Monitoring in Aunt Gyi West Ward, Ward 11/14 and Ward 6

Project Activities & Potential Causes of Environmental Impacts	Mitigation Measures	Status/Remarks
Operation of construction machinery and vehicles generating emissions	<ul style="list-style-type: none"> <li>▪ Maintain construction equipment, clean all filters and use clean diesel</li> <li>▪ Any machinery generating visible smoke is not permitted.</li> <li>▪ Avoid unnecessary machine operation, turn machinery off when not in immediate use to avoid build-up of toxic fumes.</li> <li>▪ Advise residents when prolonged machinery operation is planned.</li> </ul>	No smoke emissions observed during the operation of machinery.
Construction activities during the dry season may cause dust nuisance	<ul style="list-style-type: none"> <li>▪ Apply water on exposed soil from water trucks or sprinklers.</li> <li>▪ Limit or suspend construction activity along residential streets during periods of strong winds.</li> <li>▪ Limit truck movement during periods of strong winds.</li> </ul>	The main construction took place in rainy season and nearby ponds so that there was no need to use water for dust control.
	<ul style="list-style-type: none"> <li>▪ Apply water to roads to reduce visible dust levels due to construction activities.</li> <li>▪ Use water from water storage ponds only with the express permission of the engineer and CDC</li> </ul>	The contractor uses water from ponds for concrete mixture. Contractor advised that the waste water from the mixture shouldn't flow into ponds.
	<ul style="list-style-type: none"> <li>▪ Spoil disposal sites compacted to reduce exposure of loose debris from wind, if required</li> </ul>	
Solid waste generation	<ul style="list-style-type: none"> <li>▪ All construction and general waste generated by the project will be removed daily from the site by the contractor and disposed of in a designated YCDC waste disposal area.</li> <li>▪ Liquid wastes are not to be disposed of within the residential areas.</li> <li>▪ Provision of appropriate waste storage containers for worker's construction and hazardous liquid wastes.</li> <li>▪ Municipal type waste from construction workers will be collected daily and disposed of in locations where YCDC provides regular collections.</li> <li>▪ Hazardous waste such as oily rags or chemical containers, will be neutralized as far as possible, kept as dry as possible to reduce likelihood of leachate and will be disposed of at an approved YCDC disposal site.</li> <li>▪ Contractors will ensure that there is no onsite burning of waste at all times.</li> <li>▪ Proper removal and disposal of any significant residual materials, wastes and contaminated soils prior to construction site handover.</li> </ul>	The solid waste bins are in place at worker's camp and YCDC pick up the rubbish by truck and the final disposal is at YCDC dump site. The workers collect and clean all the construction waste every day before leaving the construction sites.
Waste water and sewage	<ul style="list-style-type: none"> <li>▪ Install a portable toilet facility with an appropriate self-contained sewage tank for use by construction workers.</li> <li>▪ Facility to be removed at the completion of the construction works</li> </ul>	The 2 sub-contractors hired 2 houses for 14 labourers. The fire extinguishers are in place at all labourer's houses. Suggested that the first aid kits should be placed at work sites. The labourers used existing toilets with septic tank at the rental houses.
	<ul style="list-style-type: none"> <li>▪ Washing of machinery and equipment, concrete trucks is not permitted within the wards</li> </ul>	The contractor has been warned to be careful when works are being carried out close to the ponds, including mixing of concrete etc.
Storage and handling of hydrocarbons; emergency or accidental spills of hydrocarbons	<ul style="list-style-type: none"> <li>▪ No hazardous chemicals and hydrocarbons will be stored within the township boundary.</li> <li>▪ All fuels and lubricants to be supplied by designated fuel trucks or service vehicles</li> </ul>	No hazardous chemicals have been used thus far.
	<ul style="list-style-type: none"> <li>▪ Develop Hazardous Waste Management Plan to cover hazardous materials and oil storage and spills.</li> </ul>	The contractor submitted a Contractor's Environmental Management Plan (CEMP) and is following that.



Project Activities & Potential Causes of Environmental Impacts	Mitigation Measures	Status/Remarks
	<ul style="list-style-type: none"> <li>▪ All spills will be cleaned up immediately as part of emergency response plan.</li> <li>▪ Spill clean-up materials are available at each storage site.</li> <li>▪ Maintain a register of all hydrocarbon spills</li> </ul>	Sand is ready as spill clean-up material at each storage site.
Refuelling of machinery and servicing of equipment	<ul style="list-style-type: none"> <li>▪ Use drip trays during refuelling or servicing</li> <li>▪ Provide safety equipment and training for all fuel handlers</li> <li>▪ Machinery maintenance and servicing is not permitted with residential streets.</li> <li>▪ All waste oil, filters to be removed from the sites.</li> </ul>	Impractical to service machinery outside block as there are no locations within several km that are not dense urban areas. Contractor is aware of need to minimise the potential for detrimental impacts.
	<ul style="list-style-type: none"> <li>▪ Refuelling of machinery is not permitted within residential areas.</li> </ul>	Impractical to refuel outside block as there are no locations within several km that would be more acceptable refuelling areas. They purchase fuel in small 5 gallon barrels and take care to avoid spillage.
Demobilisation of contractor and rehabilitation of temporary site	<ul style="list-style-type: none"> <li>▪ Removal of all construction material, used or unused, and residual solid waste</li> </ul>	Will be checked when any additional works are completed.
Use of water	<ul style="list-style-type: none"> <li>▪ Temporary construction facility to provide sufficient quantities of potable water supply for workers.</li> <li>▪ Manage water use during periods of dry weather from designated water ponds</li> <li>▪ Do not use water from storage ponds for dust suppression</li> <li>▪ Machinery and equipment not to be cleaned near water storage ponds</li> </ul>	Contractor is providing 20 litre bottles of drinking water for the workers and water from YCDC pipe line was used for washing and bathing. The construction started in the rainy season, thus no need to use water for dust control. The contractor used water from pond for concrete mixing.
Traffic Management	<ul style="list-style-type: none"> <li>▪ Drilling and pipe laying to occur at one tube well location at a time</li> </ul>	The warning signboard and project information signboards are in place at work sites and reflective safety cones and road blocks are used for safety at night.
	<ul style="list-style-type: none"> <li>▪ Provide warning signs to prevent interaction with vehicles and machinery</li> <li>▪ Involve CDC to liaise with residents and contractor</li> </ul>	No damage to public property has occurred during construction.
Transport of construction materials to RO plant site; operation of machinery	<ul style="list-style-type: none"> <li>▪ Immediately repair any damage caused to community or private facilities.</li> <li>▪ Ongoing community consultation regarding traffic movements</li> </ul>	No compensation has been paid by company.
Presence of construction workers in communities.	<ul style="list-style-type: none"> <li>▪ Social orientation conducted for all construction personnel at start of construction with the input from CDC</li> </ul>	Contractor conducted social orientation with CDC and community one month ahead of the beginning of construction.
	<ul style="list-style-type: none"> <li>▪ Ward protocols agreed; worker awareness as part of mobilization.</li> <li>▪ Workers to respect ward and landowner boundaries, observe codes of conduct and avoid damage to properties and resources.</li> </ul>	No MOU but good relationships between the contractor staff and local residents were established at the start of the works
	<ul style="list-style-type: none"> <li>▪ Employ local persons where practicable</li> </ul>	The contractor has 15 local labourers
	<ul style="list-style-type: none"> <li>▪ Maximise the use of goods and services from local communities, where practicable</li> </ul>	Some materials like timber, bamboo and plastic sheets were bought from the local community-owned shops.
Construction activities will occur within the ward boundary; operation of machinery within block roads	<ul style="list-style-type: none"> <li>▪ Contractor to provide health and safety policy</li> </ul>	Contractor submitted the company's Health and Safety policies as an annex to the CEMP.
	<ul style="list-style-type: none"> <li>▪ Provide driver safety awareness program for all drivers as well as community to reduce the likelihood of vehicle accidents or contact with people, structures.</li> </ul>	The contractor conducts informal meeting every night with all company staff, subcontractors, labourers in charge and drivers and discussed for next day work schedule.
	<ul style="list-style-type: none"> <li>▪ Hazard identification and risk assessments to reduce risk of harm and injury, prevent spills of hazardous substances.</li> </ul>	The civil works are being undertaken in residential areas so the public cannot be totally excluded from the general works areas. However, all relevant safety precautions are in place.

Project Activities & Potential Causes of Environmental Impacts	Mitigation Measures	Status/Remarks
	<ul style="list-style-type: none"> <li>▪ Prepare Work Method Statements for each activity</li> <li>▪ Keep residents away from working machinery.</li> <li>▪ Ensure reversing signals are installed on construction vehicles or provide flagmen as required to ensure safe operations</li> <li>▪ Mark dangerous areas with reflective tape or other effective means to identify hazardous areas during the hours of darkness</li> <li>▪ Provide safe access around work sites to keep public away from harm. Work on one side of the road at a time to provide access for residents.</li> <li>▪ Provide cautionary signs in all operational areas use safety barriers and fences as required.</li> </ul>	Whilst safety procedures are generally being followed, an accident occurred on site in December. Procedures relating to non-construction workers entering the sites need review.
	<ul style="list-style-type: none"> <li>▪ Provide compensation for damaged property or structures</li> </ul>	No damage to private property was caused by the construction company.
Operation of construction plant and equipment creating noise and vibration	<ul style="list-style-type: none"> <li>▪ Construction vehicles with functional noise suppressors.</li> </ul>	No noise complaints received from residents
	<ul style="list-style-type: none"> <li>▪ Contractor will develop a daily work schedule of operations with CDC to identify hours and days of no work due to religious and cultural activities.</li> <li>▪ Limit noisy construction activities to day time hours, i.e. construction activities prohibited between 6pm and 6am</li> </ul>	Contractor has agreed to work only between 8am and 5 pm. Working time is 08:00 AM to 12:00 Noon and 13:00 PM to 17:00 PM.
	<ul style="list-style-type: none"> <li>▪ Advise residents to close windows and doors during construction</li> </ul>	No noise complaints received from residents. The company assigned U Aung Thet Htoo, Project Engineer, as EMP monitoring officer and he used ledger for noting progress.
	<ul style="list-style-type: none"> <li>▪ Provide all workers with appropriate personal protection equipment (PPE - earmuffs etc)</li> </ul>	Most of the project staff and workers have been wearing PPE equipment. The company assigned an HSE officer.

## **Annex D : GRM and Incident Records**

**GRM Status Form**

<b>Date of Incident:</b>	10 August
<b>Reported by:</b>	Authentic Co.Ltd
<b>First IC contact:</b>	Aung Thura Ko Ko on 6 <sup>th</sup> May (Asst Eng)
<b>Location of Incident:</b>	Ant Gyi west Ward, Dala Tsp
<b>Description of Incident:</b>	On 10 <sup>th</sup> August, In the afternoon one of the staff from the Authentic Co.Ltd saw the three of the local labors drinking beer in the site. So he told to the leader of the labor, Ko Latt,to stop and warn to the three labors. So leader warned the three labors and if they drink again in the site he will not hire no more for the work. After the working hour, the two of local labors and the wife of one all three came to the house of leader and making problem. They think drinking in the site are not the big issue if they done their work properly and so on. Authentic Co.Ltd go and meet with ward administrator and explained about that and ward administrator said for the next time he will be the one to solve the problem.
<b>Date of Update</b>	<b>Status and Updates</b>
5 <sup>th</sup> May	The three local labors are not coming to work in the site.
<b>Ongoing or Resolved</b>	Resolved

## GRM Status Form

<b>Date of Incident:</b>	14 <sup>th</sup> August
<b>Reported by:</b>	Daw Thandar Win,Asst: Eng,IC Team
<b>First IC contact:</b>	Daw Thandar Win,Asst: Eng,IC Team
<b>Location of Incident:</b>	Ward-10,HTY
<b>Description of Incident:</b>	<p>Corner of Padauk Street and Hninsi Street, there is a electric post which is not clear for the culvert 20' * 4' to be donate by pro poor project. So the community contact with Tsp electric department and discussed about this. EPC said if want to relocate the electric post there is a charges 280000 MMK so the community got the agreement with EPC and they gave the charges for the relocating the post by themselves.</p> <p>14<sup>th</sup> August,EPC constructed the new post.</p> <p>15<sup>th</sup> August Removed the old one and refixed the electric lines.</p>
<b>Date of Update</b>	<b>Status and Updates</b>
5 <sup>th</sup> May	Already finished fixing the electric lines.
<b>Ongoing or Resolved</b>	Resolved

## GRM Status Form

<b>Date of Incident:</b>	10 September
<b>Reported by:</b>	Zar Chi Win Thein ( NSDGS )
<b>First IC contact:</b>	Aung Thura Ko Ko (Asst Eng)
<b>Location of Incident:</b>	Ward 11/14, Block-1, near Nyaung Kone Circular Street ,Dala Tsp
<b>Description of Incident:</b>	<p>IC team assistant engineer and ATY Co.Ltd went to the site of the waste tank in Dala Township, Ward-11/14, Block-1, near Nyaung Kone Circular Street for site clearing on ( 10.9.2018). There is coagulated iron sheet fence constructed by Mr Thein Kyaw Oo which were intruded for about 5 feet inside the solid waste station area. This is the location for the Solid Waste Tank to be donated by Pro-poor Community Infrastructure &amp; Basic Services Improvement Project. To construct the building these fencing needs to be removed about 5 feet so IC team engineer informed to IC team.</p> <p>On ( 11.9.2018), Supervisor from cleansing department, Dala township and IC team went to this area for inspection of this issue and met with ward administrator and some communities. Ward administrator and other communities said the owner don't want to move their fence as their discussion with house owner before. On that day owner was not at home to discuss about this. IC team asked the ward administrator and community if the owner don't want to move the fence, IC team will change the design to fit the left area of solid waste tank. They replied it will be good for them because they don't want to lose the opportunity to get donation of solid waste tank for the whole ward coz of one household. So IC team changed the design and on ( 21.9.2018), IC team deputy team leader, U Tin Sein, went and met with Dr.Aung Myint Maw (Deputy Head of Cleansing Department, YCDC) to discuss about the new design for waste tank.But Dr.Aung Myint Maw didn't agree about changing the waste tank design they want to maintain the previous one and he said he will invite the TDC, ward administrator and house owner and will discuss convince about this issue.</p> <p>On (28.9.2018), there was a meeting at the YCDC cleansing department with Dr Aung Myint Maw, Dala TDC, 11/14 ward administrator and house owner. They got an agreement with owner to remove the fence voluntarily. So IC team went to the ward 11/14 and tried to meet with the owner Mr Thein Kyaw Oo. But he was not at home mostly at the day time coz he is sailor of domestic ship line. So IC team explained about the movement of fence is need to be voluntarily and project will fix the fence for them in good condition, then left the agreement form with ward administrator to sign by owner. IC team got a signed agreement form on (2.10.2.18).</p>
<b>Date of Update</b>	<b>Status and Updates</b>
2.10.2018	Agreement form for removal of Fence was signed by house owner voluntarily.
<b>Ongoing or Resolved</b>	Resolved

## GRM Status Form

<b>Date of Incident:</b>	6 Oct 2018
<b>Reported by:</b>	CDC Leaders ( U Win Naing and U Win Myint)
<b>First IC contact:</b>	Tin Nwe Ni Shein (Sr Eng: )
<b>Location of Incident:</b>	Va – 24 , Road – 2, Retaining Wall, Myayinandar ward, Chanmyatharzi Tsp
<b>Description of Incident:</b>	<p>There is an existing drain with damaged pipe culvert and the project upgraded this pipe culvert with box culvert. When the project making the drain wall, the house owner near this drain complained about the width of the drain. They think the width of the drain become narrow by the drain wall that's why they inform to the CDC leaders. The two of CDC leaders called and reported to senior engineer of IC team, Tin New Ni Shein about this issue. IC engineer explained to the ward administrator and CDC leaders, the drain looks like narrow coz of the design of the drain wall but actually it is not. If they want the drain wider, the road will become narrow. All of them agree to wider the drain even this will happen narrow road. So IC engineer informed to the PMU and PIU about this issue and they accepted to wider the drain according to the community wish.</p> <p>On (7 Oct 2018), to wider the drain, rebuild the drain wall and now all of the concrete works are finished.</p>
<b>Date of Update</b>	<b>Status and Updates</b>
15 Oct 2018	Already resolved and fixed the drain wall. .
<b>Ongoing or Resolved</b>	Resolved

## Meeting Minutes of PMU, IC and Authentic Co. Ltd. in relation to fatal incident in Dala

<b>DATE OF MEETING:</b> 21 <sup>st</sup> December 2018 11:30 AM	<b>VENUE:</b> Project Office, MoC DUHD Office Building	<b>PREPARED BY:</b> UTS Checked by: Don Don
<p><b>PARTICIPANTS:</b></p> <p><b>MoC DUHD, PMU</b></p> <ol style="list-style-type: none"> <li>1. Daw Khaing Khaing Soe, Dy. Director, MoC DUHD</li> <li>2. Daw Pyoe Thet Ti, A.E, MoC, DUHD</li> <li>3. Daw Kyi Mya Khaing, SSAE, MoC , DUHD</li> </ol> <p><b>IC Team:</b></p> <ol style="list-style-type: none"> <li>1. U Tin Sein, Dy. Team Leader/Senior Engineer (Ygn.)</li> <li>2. Daw Zar Chi Win Thein, National Social Safeguard and Gender Specialist</li> </ol> <p><b>Authentic:</b></p> <ol style="list-style-type: none"> <li>1. Daw Yin Yin Khaing, CE</li> <li>2. Daw Htet Htet Lin, Q.S</li> <li>3. Daw Thu Thu Mar, Chief Accountant</li> </ol>		
<p><b>BACKGROUND AND OBJECTIVES OF THE MEETING:</b></p> <p>The purpose of the meeting was to explain to Authentic Co. Ltd. the details of the reporting and other documents required following the recent fatal incident on the Dala Water Treatment project site.</p>		
<p><b>DISCUSSION HIGHLIGHTS:</b></p> <p><b>PMU:</b> According to the ADB instruction Authentic needs to temporarily stop all project activities in Dala. There is an urgent need for Authentic to submit a report on how the incident happened, how the company arranged for the transportation of the patient to hospital, how the patient was look after the incident, how the patient was treated at the hospital and the circumstances of his death.</p> <p>The company should also submit the police report.</p> <p>The company should provide a copy of company's environmental, social and safeguard policy and how these applied to the deceased person. The company should explain how the deceased person was covered under the company insurance and the provisions of the Labour Law.</p> <p><b>Authentic:</b> From the start of the incident to hospitalization, from deceased to up to burial of the staff, the company had done its best with the social duties and obligation.</p> <p><b>PMU:</b> In Authentic report shall include the following:-</p> <ol style="list-style-type: none"> <li>a) Eyewitness reports from staff who were present at the time of the incident, including internal reports to the company's Safety Officer.</li> <li>b) The reports of the Safety Officer and Project Manager to Authentic Owners/Directors.</li> <li>c) Authentic report to IC Team and PMU.</li> <li>d) Details of the actions taken and support provided by the company for the accident victim and his family up to the time of his death.</li> <li>e) Hospital record of treatment and record of death.</li> <li>f) Details of the procedure followed by the company for the transportation of the deceased to the funeral and cemetery.</li> <li>g) A copy of Authentic's Labour Law if it exists.</li> <li>h) Staff duty reports for the days leading up to the incident.</li> <li>i) A copy, if any, of the company's instructions to staff to observe safety rules, regulations, instructions etc..</li> <li>j) A copy of any requests submitted by staff to the company regarding site operations.</li> <li>k) Confirmation or otherwise from the insurance company that the deceased person was covered under the company's policy.</li> <li>l) A report from Authentic's HR and Admin departments on how the Myanmar Labour Law applies to this incident.</li> </ol>		



**Meeting Minutes of PMU, IC and Authentic Co. Ltd. in relation to fatal incident in Dala**

- m) The daily reports from the company's Safety Officer for the Dala project, including photos.
- n) All police records relating to the incident.

**PMU:** The report from Authentic should be presented to MoC DUHD through IC Team. The report will then be thoroughly checked by IC and PMU and PMU shall send the report to ADB.

**PMU:** The company should appoint one person to deal with media enquiries, and to respond to community comments etc. Authentic needs to wait from ADB for the green light to restart work on the Dala site.

**AGREEMENTS REACHED**

1. Authentic shall submit the report as advised by PMU with the points a) to n) points as soon as possible.
2. Authentic shall select one person to deal with media and community enquiries.
3. Authentic shall take care of the community enquiry about the incident.